

NOTICE OF PUBLIC HEARING SUDBURY CONSERVATION COMMISSION Monday, June 27, 2022 at 6:45 PM Virtual Meeting

The Sudbury Conservation Commission will hold a public hearing to review the Notice of Intent filing to stabilize a bank within the 100 Foot Buffer Zone and Inland Resource Areas, pursuant to the Wetlands Protection Act and Sudbury Wetlands Administration Bylaw, at 4 Dawson Drive, Sudbury, MA. Susan Berry, Applicant. The hearing will be held on Monday, June 27, 2022 at 6:45 pm, via remote participation.

Please see the Conservation Commission web page for further information.

https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-june-27-2022/

SUDBURY CONSERVATION COMMISSION 6/13/2022



Notice of Intent: Sudbury Stream Restoration

JUNE 2022

PREPARED FOR

Susan Berry 4 Dawson Drive

Sudbury, MA

PREPARED BY

SWCA Environmental Consultants

NOTICE OF INTENT SUDBURY STREAM RESTORATION

Prepared for

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SWCA Project No. 66655

June 2022

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Attachments

Appendix A. WPA Form 3 Ecological Restoration Checklist Form 3A Copies of Checks

- Appendix B.Figures:
USGS Topographic Map, Wetland Delineation Map, Floodplain Map, NHESP Map
ACEC and ORW Resource Map, FEMA Firmette, FEMA Floodplain Map
- Appendix C. Wetland Data Sheets Stream Stats Report
- Appendix D. Design Plan
- Appendix E. Site Photographs
- Appendix F. List of Abutters; Copy of Abutter Notification Form; Affidavit of Service.

1 INTRODUCTION

SWCA Environmental Consultants (SWCA) is filing a Notice of Intent (NOI) on behalf of Susan Berry for stream restoration and bank stabilization located along an unnamed intermittent stream flowing on the eastern side of a residential property at 4 Dawson Drive in Sudbury, Massachusetts (the Project). This NOI is being submitted in accordance with the Massachusetts Wetlands Protection Act (M.G.L. c.131, §40) (WPA), its implementing regulations (310 CMR 10.00 et seq.), and the Town of Sudbury Wetlands Protection Bylaws (Article XXII) and its implementing regulations. Please refer to Appendix A for the WPA Forms and copies of check.

The NOI proposes stabilization of ± 209 linear feet of eroding Bank slope on both sides of an unnamed intermittent stream (the Project). The work is necessary to prevent continued bank erosion and threat to the existing on-site single-family dwelling. The work will alter Bank, Land Under Water, and temporary disturbance within 100-foot Buffer Zone to Bordering Vegetated Wetland (BVW) and Bank. Please refer to Appendix B for the site locus map in Figure 1 and resource area depiction in Figure 2 and Appendix C for wetland data sheets.

Specifically, the Project proposes stabilizing the Bank using several methods, such as installation of coir fiber matting, geo-lifts with live stakes installed, and creating riffles and pools. Each treatment is discussed in detail in the Design Plan in Appendix D. Representative site photographs in Appendix E.

This Project is being filed as an Ecological Restoration Limited Project Resource Project under 310 CMR 10.53(4)(e)5. Two hard copies of this NOI are being submitted to the Sudbury Conservation Commission; and a copy is being mailed to the Massachusetts Department of Environmental Protection (DEP). SWCA is notifying all abutters within 100 feet of the subject parcel. A list of abutters was obtained using the Sudbury SimpliCITY Online Mapping tool. This property is located on the border of the City of Framingham. The abutters on the Framingham line have been verified with the Framingham Board of Assessors and will be notified. List of abutters is attached in Appendix F along with copies of the Abutter Notification Letter and Affidavit of Service.

2 SITE DESCRIPTION

2.1 Existing Conditions

Project activities are proposed on the eastern side of the parcel. The parcel is located within a residential neighborhood, predominantly consisting of single-family homes. The overall parcel consists of open residential lawn on the western side of the parcel and a forested portion on the eastern side. The surrounding forested area is dominated by eastern white pine (*Pinus strobus*), red oak (*Quercus rubra*), American beech (*Fagus grandifolia*), and red maple (*Acer rubrum*) in the overstory with glossy buckthorn (*Frangula alnus*), multiflora rose (*Rosa multiflora*), and winged euonymus (*Euonymus alatus*) in the understory. A patch of Japanese knotweed (*Reynoutria japonica*) follows the banks of Stream 1 (the unnamed intermittent stream) on the property.

Stream 1 (S1) flows from an undersized and unmanaged detention basin located off-site to the southwest of the parcel and from an existing culvert outlet located south of the parcel. Water within the section of the stream flowing through the subject parcel is approximately 2 to 8-inches deep within a bankfull channel approximately 2 to 4-feet wide. Portions of the stream bank are severely eroded with areas of steep, undercut

banks and overhanging roots. Please refer to site photographs of the area in Appendix E. The stream flows from south to north. Near the northern section of the parcel, the stream naturally flows underground for approximately 15 feet before daylighting again. Stream 1 joins another intermittent steam, Stream 2 (S2), off-site. Stream 2 flows northwest and is associated with BVWs (Wetlands A and C), located east of the property. The benthic material of Stream 1 consists primarily of sand, with areas of herbaceous and woody vegetation well established within the channel. Debris, such as steel pipes and tires, is located within the stream channel.

Soils in the vicinity of the Project are mapped as excessively drained Windsor loamy sand with an 8 to 15% slope. Given the erodibility of these loose, sandy soils, as well as flash storm water runoff, the banks are severely eroded and unstable in several locations, with portions of the stream continuing underground under tree roots and forming new channels from flashy storm flows. The adjacent wetland is composed of very poorly drained Swansea muck with a 0-1% slope.

2.2 Regulated Resource Areas

Prior to completing the field delineation, SWCA conducted both a desktop analysis using Massachusetts Geographic Information System (MassGIS) data layers, United Stated Geological Survey (USGS) StreamStats, and other publicly available data. SWCA performed an in-field delineation of jurisdictional resource areas using a multiple parameter method approach following the WPA and its implementing regulations, the methodology described in *Delineating Bordering Vegetated Wetlands Under the Wetlands Protection Act* (MassDEP 1995), and the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987) and its supplement, the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*: Northcentral and Northeast Region, Version 2.0 (United States Army Corps of Engineers [USACE] 2011). In accordance with 310 CMR 10.55(2)(c)2, the flagged wetland boundaries include all areas "within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist."

SWCA examined soils, hydrology, and vegetation to identify and delineate areas that meet the federal and state definition of a jurisdictional wetland, and bank indicators to identify limits of the stream bank. Hydric soils and hydrophytic vegetation were able to be evaluated since site investigations occurred during the growing season and evidence of hydrology was able to be observed. During the delineation, SWCA identified and characterized the resource areas including Inland Bank and BVWs. Other wetland resource areas were identified within the bounds of the Assessment Area including Land Under Water (LUW).

SWCA delineated vegetated wetlands and streams within the parcel boundary (the Assessment Area), using a consecutive alphanumeric labeling system with pink and black-flagging tape inscribed with "Wetland Delineation" for all vegetated wetlands, and blue flagging tape for all watercourses. SWCA completed the wetland and stream delineation on October 6, 2021 (Figure 2 in Appendix B). Wetland data forms are included in Appendix C.

2.2.1 Bordering Vegetated Wetland

Three BVW's were identified in the vicinity of the Project. Wetland WA and WB are classified as palustrine forested broad-leaf deciduous (PFO1), as defined by Cowardin et al (1979). Wetland A (offsite) is flagged as A-1 through A-8 and runs parallel to a field stonewall east of Stream 1 and southwest of Stream 2. Wetland B is flagged as B-1 through B-4 and follows the left descending stream bank of Stream 1 at the northern end of the parcel. Vegetation within the A and B-Wetlands consists of red maple and green ash (*Fraxinus pennsylvanica*) in the overstory with northern spice bush (*Lindera benzoin*), glossy buckthorn, and highbush blueberry (*Vaccinium corymbosum*) in the shrub layer, and cinnamon fern (*Osmundastrum*)

cinnamomeum) and skunk cabbage (*Symplocarpus foetidus*) in the herbaceous layer. A stone wall separates the BVW from the upland portion of the bank. Wetland C is located east of the property (offsite) and was not flagged in the field. However, SWCA did collect wetland spatial data. Wetland C abuts the right descending stream bank of Streams 1 and 2. For all three wetlands soils consist of a sandy loam material with hydric soil indicators of redox dark surface and evidence of redoximorphic features (e.g., concentrations and depletions) observed within the soil profiles. Primary and secondary indicators of hydrology were observed, including saturated soils, geomorphic position, and FAC-Neutral test.

2.2.2 Inland Bank

Bank is the portion of the land surface which abuts and confines a water body such as an intermittent stream. It occurs between a water body and a BVW and adjacent floodplain, or, in the absence of these, it occurs between a water body and an upland (310 CMR 10.54(2)(a)). The top of the Stream 1 bank is delineated with flags labeled "S1". The flags were placed at the first observable break in slope or the Mean Annual High Water line, whichever is lower in accordance with 310 CMR 10.54(2)(c). Both sides of the bank are proposed for stabilization. The right descending stream bank of Stream 1 is severely undercut with active slumping and bank failures. The bank is approximately from 4 to 8-feet in height throughout the majority of the Project area and contains sandy soils. The bank is vegetated primary with mature trees on either side. Invasive plant species, such as Japanese knotweed, glossy buckthorn, and winged euonymus extending along the left descending bank of Stream 1.

2.2.3 Land Under Water

LUW is the portion of the unnamed intermittent stream flowing south to north. WPA defines the lower boundary of a bank being the mean annual low flow water level. The site investigation was conducted in the Fall season during which time water levels were still extremely low and lower portion of the bank was exposed. The lower boundary of each side of the bank was recorded to determine the extend of LUW. LUW does not have a buffer zone. This NOI proposes to alter approximately 1,942 square feet of LUW in order to stabilize the bank and reduce continual erosion. The intermittent stream varies between 2 to 4-feet in width and approximately 5 to 8-inches in depth. The northern portion of the stream flows underground for approximately 15-feet before daylighting and connecting to another near-by intermittent stream (Stream 2) off-site. The stream bed consists of sandy soils and occasional cobble stones. Stream 1 has two inputs, both located outside the parcel. One input is from a culvert outlet with an eroded channel between the culvert outlet and the restoration site. No active flow from the culvert was observed at the time of the site visit. The second input is from a poorly maintained detention basin with an undersized outlet. The area between the detention outlet and the restoration site is highly eroded with the outlet channel in the area filled with riprap and other debris. Since the two inputs are located off-property, SWCA did not extend the bank delineation beyond proposed for work property boundary.

2.2.4 Buffer Zone

The WPA includes a 100-foot Buffer Zone associated with Bank and BVW. Though the Project is located within the 100-foot Buffer Zone to Wetland WA, Wetland WC, and the Banks of Stream 1. proposed impacts are temporary and will result in increased habitat value. The 100-foot Buffer Zone to WA consists of an upland mixed forest dominated primarily by eastern white pines, red oaks, and red maples in the overstory. Minimal herbaceous vegetation was observed in the understory. The 100-foot buffer west of the western bank to Stream 1 and WC consists primarily of shrub vegetation, such as Japanese knotweed and glossy buckthorn before transitioning to a maintained lawn and residential dwelling.

2.2.5 Intermittent Stream

The Sudbury Bylaw (Section 2.3) recognizes two types of intermittent streams. Type I being: stream segments in which continuous standing water disappears for at least five (5) but not more than thirty (30) consecutive days annually. And Type II being: Streams in which continuous standing water disappears for more than thirty (30) consecutive days annually. SWCA ran a StreamStats analysis using a subwatershed drainage area delineation point immediately downstream (north) of the Stream 1 junction with Stream 2 (approximately 25-feet north of the property boundary), which is the downstream-most location within the Assessment Area. Please refer to Appendix E for StreamStats Data. The drainage area is estimated to be 0.058-square mile and has a mean basin elevation of approximately 221 feet above sea level. As stated at 310 CMR 10.58(2)(a)1.a., Stream 1 meets the definition of intermittent as it is not illustrated on the most recent USGS topographic map or map provided by DEP, and the StreamStats estimated watershed drainage area is <0.5 square miles. However, it is unclear if the Stream 1 is a Type I or Type II stream according to Sudbury Bylaws.

Bankfull statistics estimated with StreamStats show an average bankfull width value of 4.49 feet, the bankfull depth is estimated to be approximately 0.39 feet, the bankfull area is 1.72 square feet, and the bankfull streamflow value is 2.9 cubic feet per second.

2.3 Other Sensitive Resource Areas

SWCA evaluated whether any additional resource areas were located within the Project area, such as Riverfront Area, Areas of Critical Environmental Concern (ACECs) (MassGIS 2009), Outstanding Resource Waters (ORWs), Natural Heritage & Endangered Species Program (NHESP) designated Priority Habitat of Rare Species and Estimated Habitat of Rare Wildlife (MassGIS 2021a. and 2021b.), Certified Vernal Pools, Potential Vernal Pools (MassGIS 2021c. and 2021d.), 100-year Federal Emergency Management Agency (FEMA) Floodplain (FEMA 2014), or Department of Fisheries & Wildlife Cold Water Fisheries Resource Areas. No other mapped sensitive resources were identified within the Assessment Area. Please refer to Figures in Appendix B.

3 WILDLIFE HABITAT EVALUATION

This Project is being filed as an Ecological Restoration Limited Project and a Wildlife Habitat Evaluation (WHE) is not required; therefore, it is exempt from 310 CMR 10.60 as stated at 310 CMR 10.53(4). Additionally, the site is not mapped within Habitat of Potential Regional or Statewide Importance (DEP CAPS), certified/documented vernal pool habitat, or NHESP mapped habitat for rare species. The site also does not provide specified important wildlife habitat features such as turtle nesting areas, bald eagle (*Haliaeetus leucocephalus*) nests, or otter (*Lontra canadensis*) dens. Though exempt, a summary of wildlife habitat features has been included in this NOI.

3.1 Important Wildlife Habitat Features

SWCA Certified Wildlife Biologist, Christin McDonough, completed a WHE at the property on October 6, 2021. The in-field WHE was completed based on the principles of 10.60 of the WPA regulations and the 2006 Massachusetts Wildlife Habitat Protection Guidance for Inland Resources (Guidance 2006) for areas resulting in alteration to Bank, but that since the project is exempt, a full WHE is not provided. The Guidance provides a detailed description of various important wildlife habitat features. It is also noted that additional habitat features may be deemed important if they meet the definition of wildlife habitat under

310 CMR 10.04. Such features include stone/rock walls and stream crossings. The following sections provides descriptions of the important wildlife habitat features that occur within the Project Area and in adjacent habitat.

The intention of a WHE is to effectively evaluate whether a Project will result in adverse impacts to wildlife habitat characteristics of inland resource areas detailed in 310 CMR 10.60(2), such that the alterations, after two growing seasons following Project completion, would substantially reduce the capacity of the affected resource areas to provide important wildlife habitat functions (e.g., shelter, breeding areas, food, and nesting sites) and consequently reduce a site's ability to support wildlife. WHEs are not intended to provide a quantitative census of wildlife populations. Potential adverse impacts to important wildlife habitat features that would inhibit the site's capability to provide wildlife habitat functions are accompanied by recommended measures to avoid and mitigate such impacts.

3.1.1 Snags

Dead standing timber, also referred to as snags, were observed along the stream bank at Stream 1 and adjacent habitat. Snags provide several important wildlife habitat functions including cover, breeding areas, nesting, and foraging opportunities. A total of five snags were observed within the Impact Area and adjacent habitat. One 6-inch diameter at breast height (dbh) snag at flag S1-A5, one 6-inch dbh snag at S1-A8, two 10-inch dbh snags at S1-A10 along the stonewall, one 10-inch dbh snag at S1-B14. None of the observed snags contained cavities.

3.1.2 Trees Greater than 30-inches

Several mature trees >24-inch dbh including eastern white pine, red oak, red maple, and ash, are located along Stream S1. Large diameter trees may serve as important wildlife habitat for a variety of species providing wildlife with important habitat features including nesting and breeding areas, shelter, and foraging opportunities. SWCA recommends maintaining mature trees along the stream banks to the greatest extent practicable.

3.1.3 Wildlife Food

Wildlife food sources present adjacent to the Impact Areas include wetland food plants such as skunk cabbage located within the BVW, fruit/berry producers such as low bush blueberry (*Vaccinium angustifolium*), hard mast trees such as mature oaks (*Quercus* spp.) in the area, and other forage such as nectar producing vegetation.

Fruit/berry and hard mast species are utilized by numerous wildlife species including birds, small mammals, raccoons (*Procyon lotor*), and white-tail deer (*Odocoileus virginianus*) and other similar species. Additionally, seedlings and saplings of maples and white pines, provide forage opportunities for eastern gray squirrel (*Sciurus carolinensis*), cottontails (*Sylvilagus floridanus*), white-tail deer, and other small mammals.

3.1.4 Small Mammal Burrows

Though no small mammal burrows were observed within the Impact Area or adjacent habitat, the dense leaf cover, the availability of preferable habitat, and expansive areas present, it is likely that numerous burrows are present in the area and not observed. Furthermore, given the cryptic nature of small mammal

burrows and occasional dense cover, this habitat feature is often accidentally overlooked. Therefore, it is assumed that this habitat feature is likely present within the adjacent habitat.

3.1.5 Large Woody Debris

Large woody debris is defined as fallen timber, logs, limbs, and other similar woody material lying on the forest floor. It can occur as piles or singly as fallen trees or tree limbs. They can be an important habitat feature, as they provide breeding/nesting areas, shelter, and overwintering/hibernation habitat for a variety of wildlife. The impact area contains several downed trees that span across, but are not submerged, LUW.

3.1.6 Rockwall

Rocks pilled together and with sufficient gaps/space between rocks provide important habitat functions including cover, breeding areas, and overwintering habitat. A man-made rock wall is located outside the property and spans from northwest to southeast along the wetland WA western boundary.

3.1.7 Shrub Thickets

Shrub thickets area a dense stand of shrubs which provides an important wildlife habitat features such as cover, shelter, breeding areas, and foraging. The western side of Stream 1 contains a narrow strip of shrubs between the bank and the residential maintained lawn and the detention basin. However, these shrubs mainly consist of invasive plant species such as Japanese knotweed, burning bush, and multiflora rose.

3.1.8 Undercut Banks

Eastern portions of Stream 1 bank are severely undercut with tree roots overhanging the bank. Undercut banks may provide cover and overwintering habitat for wildlife. Stream 1 is an intermittent stream. The undercut portion of the bank consist of sandy soils.

3.2 Finding of No Adverse Effect

The proposed bank restoration will temporarily impact some wildlife features such as undercut banks, large woody debris, and potential small mammal burrows. However, the proposed work will not result in an adverse effect on wildlife habitat (i.e., no adverse effect). As defined in the WPA regulations, Adverse Effect is as any impact that would alter habitat characteristics listed in 310 CMR 10.60(2), such that the alternation will substantially reduce the capacity of the area to provide wildlife habitat functions following two growing seasons after project completion. The 2006 Guidance specifically notes that it is insufficient to find that a project will result in adverse impacts to wildlife habitat simply because alterations to habitat are proposed. In addition, impacts to wildlife habitat functions (i.e., shelter, forage, breeding areas, etc.) and consequently impair the ability of the site to support wildlife.

A project may demonstrate No Adverse Effect through four methods: (1) demonstrating that the site lacks any important wildlife habitat features; (2) demonstrating that important habitat features exist on a site but are not important or will not be impacted; (3) important habitat features exist, but impacts will have a negligible effect on wildlife habitat; or (4) important habitat features exist, but will be sufficiently preserved, restored, or mitigated.

Projects that impact important habitat features must demonstrate that adverse effects will be avoided because the Project will not substantially reduce the capacity of the site to provide important wildlife habitat

functions. The proposed work impacts will result in minimal impacts to the collective wildlife habitat features on the parcel leaving abundant amounts of undisturbed forested habitat for wildlife use as well as enhancing the current habitat to allow for more opportunities for sheltering, foraging, breeding, and nesting. Additionally, the habitat features that are proposed to be impacted are numerous and plentiful throughout the parcel and immediate surrounding area. Impacts to these minor features will not diminish the capacity of the site to support wildlife and do not represent a significant impact to any wildlife habitat features present. Therefore, the capacity of the parcel site to provide important wildlife habitat functions will not be impaired, and there will be No Adverse Effect as a result of this Project.

4 PROPOSED WORK

The purpose of the proposed Project is to stabilize the eroding bank along either side of Stream 1 by stabilizing the existing slope and protecting against future risk of bank erosion. No work is proposed within the jurisdictional wetlands; however, portions of the 100-foot Buffer Zone to BVW and bank may be temporarily affected as a result of the restoration. The proposed restoration plan and details are depicted in Appendix D.

4.1 Bank Stabilization

A combination of stabilization methods will be applied in different stretches of the stream in order to be most effective in correcting the current bank degradation and prevent future degradation. One of such methods is using coir fiber matting which involves installation of a durable biodegradable mat that will be placed over the slope surface that was cleared of rocks, sticks, and grasses in order to ensure matting has proper soil contact. The mat will be placed over a designated portion of the bank and staked into position. Prior to installation of the matting, exposed soils will be seeded with a native herbaceous plant species seed mix specific for erosion control and restoration in moist areas. Seed mix details and installation notes are listed on Sheet 5 of the Design Plan in Appendix D. Coir fiber matting allows plants to grow and establish roots, stabilizing the bank while the matting provides soil moisture and heat retention thereby increasing germination success, reducing soil erosion, and preventing predation of seed. At the toe of slope, root wads from native trees removed from site will be used to reduce flow velocity, decrease sheer stress, and increase bank stability. If on site root wads are not available, log toes will be placed.

Geo-lifts and installation of live fascine slopes are also proposed to improve bank stability. Geo-lifts consist of overlapping soil and/or mulch wraps stabilized with live stakes. For this Project 2 to 3 foot Red-osier dogwood (*Cornus alba*) is proposed as live stakes. At the toe of slope, root wads from removed native trees species will be used or anchor logs if root wads are not available. The area will be seeded with a variety of New England native herbaceous plant species specific for erosion control and restoration in moist areas, specifically New England Erosional Control/ Restoration Mix for Detention Basins and Moist Site seed. Seed mix details and installation notes are listed on Sheet 5 of the Design Plan. If during construction, it is determined that plant plugs will be required, a list of suggested herbaceous plants are listed on Sheet 7 of the Design Plan. In areas that require additional bank support, boulders will be applied. Live fascine stabilization method is similar in design to both geo-lifts and coir fiber matting and are used to protect banks for washout and seepage especially in areas where water tends to fluctuate. Live fascines include the installation of coir fiber matting secured with 2 to 3 foot live stakes. Shallow trenches, parallel to the stream, will be filled with live branch cuttings in order to reduce erosion and shallow sliding. Toe of slope will include rocks which are approximately 2 to 3 feet in diameter. The existing slope will be graded back to a minimum slope achievable without disturbing any existing trees/ tree roots located at the top of the bank. Though this site contains an intermittent stream, the area receives uncontrolled flow from the nearby detention basin and culvert. To reduce the damage caused by the rush of water, it is important to create an environment that would help reduce flow velocities. The creation of step pools constructed with stone or logs will help reduce flow velocities and create habitat for wildlife. The stone and logs located on site will be used prior to bringing in new material. Please refer to Sheet 6 of the Design Plan.

The proposed work was designed to cause minimal disturbance to the surrounding area. However, a severely undercut portion of the western bank will require regrading. Two trees, a 16-inch dbh red oak and a 5-inch dbh American beech (*Fagus grandifolia*), are located on the edge of the bank and are anticipated to be removed in order for work to be completed. These trees and stumps will be incorporated along the stream channel. Presently, urban refuse, in the form of tires, cement blocks, and metal pipes, are located within the stream channel. As part of the restoration process, all debris will be removed and appropriately disposed off site. The restored area will be re-vegetated with native plant species listed above, further improving the area by providing shelter and foraging habitat for wildlife, as previously, there were few areas for shelter and foraging along bank.

4.2 Avoidance, Minimization, and Mitigation

The proposed restoration is along an intermittent stream which ceases to flow in very dry periods. Work is proposed during the low flow summer months when water is not likely to be flowing within the stream channel. Straw wattles will be placed along either side of the bank to reduce sediment migrating to other portions of the property as well as establishing a limit of work area. Please refer to Site Plan on Sheet 3 for straw wattle location. Staked in straw bales are proposed to span across the northern portion of the stream channel, during the construction phase, to reduce the risk of sediment entering Stream 2 channel.

Sedimentation controls would be inspected daily and repaired as needed. The controls will remain in place until bank is permanently stabilized. If soils are expected to be left exposed for more than 7 consecutive days, the exposed soils will be temporarily stabilized with straw mulch, stabilization blanket, or another adequate stabilization method determined by the contractor.

Trees on site will be protected by identifying their dripline, which is the outermost circumference of the tree's canopy, and avoiding conducting activities that would cause damage to the tree and roots as much as practicable. These activities include, but not limited to parking of vehicles, stockpiling construction materials, excavation, skinning bark.

The temporary construction entrance location shall be determined by the contractor. Work is proposed east of the existing paved roadway and separated by maintained lawn and a residential dwelling. The temporary construction entrance will consist of gravel tracking surface on top of filter fabric. Public roadways will be swept at the end of each work day. This will reduce sediment tracking onto the public roadway. The majority of the parcel is located within 100-foot Buffer Zone to Bank. Storage and staging areas will be determined by the contractor. Storage and stockpiling of materials will occur outside the 100-foot Buffer Zone when practicable. As there is limited room for storage outside the 100-foot Buffer Zone, storage and stockpiling may occur within the Buffer Zone, but with appropriate Best Management Practices, such as storing hazardous materials (e.g., fuel, lubricants, etc.) and refueling outside the Buffer Zone, no adverse impacts are anticipated to Stream 1 or 100-foot Buffer Zone.

4.3 Site Maintenance and Monitoring

During construction all sediment and erosion controls will be inspected daily, maintained per the manufacturer's specifications, and repaired as needed. Additional controls will be installed if site conditions

warrant them as determined by the contractor. Exposed soils will not be left un-stabilized for more than 7 consecutive days without proper stabilization. Proper stabilization may include the disturbed areas to be covered with 6-inches of mulch or an erosion control blanket installed.

During construction, a weekly visual inspection will be conducted of the coir logs, channel protection, coir blankets and planted vegetation. Any damaged or displaced materials will be repaired and/or replaced. When necessary, area will be reseeded and weeded. If seeding is not taking, planting plugs will be installed. Please refer to maintenance Chart for stabilization devices and suggested list of plantings used for planting plugs on sheet 7 of the Design Plan. It is recommended that the area is monitored for two full growing seasons to ensure the planting have sufficiently established.

5 GENERAL PROVISIONS AND PERFORMACE STANDARDS

5.1 WPA General Provisions and Performance Standards

Limited projects and resource improvement projects must meet the requirements under 310 CMR 10.53. This Project is being filed under 10.53(4)(e)(5), Other Restoration Project "that will improve the natural capacity of a resource area(s) to protect the interests identified in [the WPA], may be permitted as an Ecological Restoration Limited Project provided that the Project meets the eligibility criteria set forth in 310 CMR 10.54(4)(a) though (d)." As a limited project, work within WPA regulated areas can proceed without fully meeting resource area performance standards. However, performance standards at this site will be met to the greatest extent practicable. Table 1 and the following sections detail the general provisions and performance standards under the WPA associated with the regulated wetland resource area in which the proposed work would occur. In addition, this Project meets the general provisions of 10.03 in regard to filing a NOI. The site does not have a Restriction Order and meets the general provisions of section 10.53(1-2) regarding activities within the Buffer Zone

Citation	Regulation	Compliance
310 CMR 10.03(1)(a)1.	The area is not significant to the protection of any of the interests identified in the WPA.	The proposed work is located within an intermittent stream which is not located within a NHESP priority or estimated rare species habitat and does not contain shellfish or fish. The proposed work will improve the degraded bank of the intermittent stream and overall improve the resource area.
310 CMR 10.03(1)(a)2.	Work within a resource area will contribute to the protection of the interests of the WPA.	The proposed work that is the subject of this NOI will be located within an area subject to regulation but will not adversely affect any resource areas. The proposed work will improve the eroding bank and in turn reduce sedimentation into the resource area and allow for improvement of the overall habitat.
310 CMR 10.03(1)(a)3.	Work within the buffer zone will contribute to the protection of the interests of the WPA.	Temporary impact of the buffer zone is necessary to in order to access and conduct proposed work along the Bank. All work within the buffer zone will be temporary in nature and disturbed areas will be revegetated and, where needed, restored to pre-

Table 1. General Provisions of all Wetlands and Inland Wetlands (310 CMR 10.03)

Citation	Regulation	Compliance
		existing conditions. Proposed work will not result in any adverse impacts to regulated wetland resource areas and will not diminish the ability of the project area to contribute to the interests of the WPA.
310 CMR 10.03(1)(b)	Claims of work outside of any jurisdictional area impacting a jurisdictional area must demonstrate the work has had an adverse impact.	Not applicable.
310 CMR 10.03(2)	Credible evidence from a competent source to support the position taken when contesting DEP's position.	Not applicable.
310 CMR 10.03(3)	Installation of subsurface sewage disposal systems.	Not applicable.
310 CMR 10.03(4)	Presumption concerning point-source discharges.	Not applicable.
310 CMR 10.03(5)	Each resource area is presumed to be significant to the interests of the WPA.	The proposed work is designed to stabilize the eroding bank and to improve the water flow through the area, and therefore enhance a degraded area. Temporary impacts will occur within the 100-foot buffer zone to BVW and no work is proposed within the BVW. Proposed work will not result in any adverse impacts to regulated wetland resource areas and will not diminish the ability of the project area to contribute to the interests of the WPA.
310 CMR 10.03(6)	Presumption concerning the application of herbicides.	Not applicable.
310 CMR 10.03(7)(a)	Filing fees for NOIs pursuant to the WPA.	Copies of checks are included in Appendix A.

5.2 Bank (310 CMR 10.54(4))

Work is proposed on both sides of the intermittent stream bank and will consist of regrading and planting native vegetation to stabilize the bank and reduce the risk of future degradation of the site. The proposed work will not limit the Bank's ability to protect the interests specified in 310 CMR 10.54. Please refer to Table 2 for general performance standards for Inland Bank under 310 CMR 10.54(4).

Table 2	General	Performance	Standards	for Inland	Bank 31	0 CMR	10 54(4)
	General	1 chronnance	otanidaras	ior mana	Dank SI		10.04(4)

Citation	Regulation	Compliance
310 CMR 10.54(4)(a)(1)	(a) Where the presumption set forth in 310 CMR 10.54(3) is not overcome, any proposed work on a Bank shall not impair the following:	The Project is proposing to improve bank stability.
	1. the physical stability of the Bank;	
310 CMR 10.54(4)(a)(2)	The water carrying capacity of the existing channel within the Bank;	No change in water carrying capacity of the channel is proposed. The existing channel line will not be changed.

Citation	Regulation	Compliance
310 CMR 10.54(4)(a)(3)	Ground water and surface water quality;	The banks are proposed to be vegetated with native shrubs and herbaceous vegetation. The newly vegetated buffer between the stream and top of bank will reduce sedimentation of downstream resource areas
310 CMR 10.54(4)(a)(4)	The capacity of the Bank to provide breeding habitat, escape cover and food for fisheries;	This is an intermittent stream and unlikely to be effectively used by fish. However, as part of the proposed work, riffles and pools will be created providing habitat for wildlife.
310 CMR 10.54(4)(a)(5)	The capacity of the Bank to provide important wildlife habitat functions.	Currently the bank is slumping and caving with little vegetation. The proposed work will stabilize and re- vegetate the bank with shrubs and herbaceous vegetation. The shrubs will provide an area for nesting, perching, foraging, and refuge while the herbaceous vegetation will provide nectar and refuge.
310 CMR 10.54(4)(a)(6)	Work on a stream crossing shall be presumed to meet the performance standard set forth in 310 CMR 10.54(4)(a) provided the work is performed in compliance with the Massachusetts Stream Crossing Standards	No stream crossings are proposed as part of this Project.
310 CMR 10.54(4)(b)	Notwithstanding the provisions of 310 CMR 10.54(4)(a), structures may be permitted in or on a Bank when required to prevent flood damage to facilities, buildings and roads	No structures required to prevent flood damage to facilities, buildings, or roads are proposed as part of this Project.
310 CMR 10.54(4)(c)	Notwithstanding the provisions of 310 CMR 10.54(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of Rare Species, as identified by procedures established under 310 CMR 10.59.	The proposed project is outside of NHESP mapped habitat for rare species.

5.3 Land under Water Bodies and Waterways (310 CMR 10.56(4))

Impacts to LUW consist of step pool construction out of stone or logs. While proposed work will impact LUW, the work will help reduce flow velocities and create habitat for wildlife. Project activities are not anticipated to limit LUW's ability to protect the interests specified in 310 CMR 10.56. Table 3 lists the general performance standards for LUW.

Citation	Regulation	Compliance
310 CMR 10.56(4)(a)(1)	The water carrying capacity within the defined channel, which is provided by said land in conjunction with the banks;	No change in water carrying capacity of the channel is proposed. The existing channel line will not be changed.
310 CMR 10.56(4)(a)(2)	Ground and surface water quality;	The Project proposed to enhance the banks by vegetating them with native shrubs and herbaceous vegetation. The newly vegetated buffer between the stream and top of bank will reduce sedimentation of downstream resource areas
310 CMR 10.56(4)(a)(3)	The capacity of said land to provide breeding habitat, escape cover and food for fisheries; and	This is an intermittent stream and unlikely to be effectively used by fish. However, as part of the proposed installation of riffles and pools will provide habitat for aquatic organisms if any are in the area.
310 CMR 10.56(4)(a)(4)	The capacity of said land to provide important wildlife habitat functions	The work is proposed within an intermittent stream. As part of the proposed work, riffles and pools will be created providing habitat for wildlife.
310 CMR 10.56(4)(a)(5)	Work on a stream crossing shall be presumed to meet the performance standard set forth in 310 CMR 10.56(4)(a) provided the work is performed in compliance with the Massachusetts Stream Crossing Standards	No culvert installation, replacement, or stream crossing is proposed.
310 CMR 10.56(4)(b)	Notwithstanding the provisions of 310 CMR 10.56(4)(a), the issuing authority may issue an Order in accordance with M.G.L. c. 131, § 40 to maintain or improve boat channels within Land under Water Bodies and Waterways	This is an intermittent stream and is not a navigable waterbody.
310 CMR 10.56(4)(c)	Notwithstanding the provisions of 310 CMR 10.56(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.	The proposed project is outside of NHESP mapped habitat for rare species.

Table 3. General Performance Standards for Land under Water Bodies and Waterways 310 CMR10.56(4)

5.4 Sudbury Bylaw Performance Standards

The proposed activities are located within 100-foot Buffer Zone to Inland Bank of intermittent stream and BVW and within Bank and LUW only. The work area is not proposed within or in the vicinity of NHESP priority and estimated habitats of rare species. The proposed work is not anticipated to have an adverse impact on the resource areas. In addition, two trees are anticipated to be removed as part of this Project.

5.4.1 Tree Removal Performance Standards

As part of Section 7.14, "Property owners wishing to remove trees that are not imminent threats and show no signs of being compromised will be required to submit a restoration planting plan to preserve and enhance the wetland and adjacent upland values and functions."

The two trees proposed for removal are a 16-inch dbh red oak and a 5-inch dbh American beech located near the existing top of bank with their roots exposed. In order to stabilize the bank, the bank would need to be graded to apply the appropriate stabilization method. The tree roots would therefore need to be cut back which would damage the tree. The two trees proposed for removal will be incorporated in the stream restoration design. In addition, as part of bank stabilization, the newly stabilized bank will be revegetated with live red-osier dogwood and native seed mix. Please refer to Design Plan in Appendix D.

5.4.2 Alternative Analysis for Activities within Adjacent Upland Areas

The proposed work is not within Riverfront Area and therefore does not require an alternative analysis under the WPA. However, an alternative analysis is required for work falling within the adjacent upland areas which includes "all lands within 100 feet of wetland resource areas as enumerated in Section 2". Three alternatives were reviewed in accordance with the Bylaw. The proposed work is a bank restoration /stabilization Project occurring at the site of erosion, there is no alternative location for the work

5.4.2.1 NO ACTION ALTERNATIVE

Under the No Action Alternative, no work to restore the ecological integrity and functions of the stream would occur. The stream would continue to erode and degrade the banks. This alternative does not meet the Project's objectives and was not selected.

5.4.2.2 HARD ARMORING OF THE BANK

The Hard engineering alternative would include armoring the walls of the existing stream bank with rip rap. This is an expensive option which will require the use of heavy machinery to set the large stones and will require greater amount of onsite disturbance in order to properly access the site. This option will also not construct an area for additional vegetation planting and habitat enhancement. Therefore, this alternative was not selected as the preferred alternative.

5.4.2.3 BIORESTORATION OF THE BANK

The third alternative is the preferred option that is proposed in this NOI, which is a more natural approach that ensures that no impact will occur to BVW and maximizes the potential for stability and habitat diversity while still allowing to proceed in an efficient manner.

6 CONCLUSION

The work proposed in this NOI is designed to stabilize the eroding embankment on both the eastern and western bank along an unnamed intermittent stream (Stream 1) flowing through the residential property at

4 Dawson Drive, Sudbury. Presently, both banks are unstable with active bank slumping and failures due to flashy storm events. The proposed work will stabilize the bank, reduce the risk of future degradation of the site and habitat and improve stream connectivity by removing excessive sediment buildup and manmade debris. Restoration plantings will help increase the presence of native plant species in the area and increase nectar producing plants. This work is filed as a resource improvement project under CMR 10.53(4) and meets the provisions under that section of the WPA as well as the Sudbury Wetlands Protection Bylaw Regulations. The proposed Project will result in a net ecological uplift and protects the interests of the WPA. Therefore, we respectfully request the Sudbury Conservation Commission to issue an Order of Conditions in support of this Project.

7 REFERENCES CITED/LITERATURE CITED

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- MassGIS. 2021a. NHESP Priority Habitats of Rare Wildlife. Available online at <u>https://docs.digital.mass.gov/dataset/massgis-data-nhesp-priority-habitats-rare-species</u>. Accessed February 2022.
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MassGIS 2021d. NHESP Potential Vernal Pools. Available online at <u>https://www.mass.gov/info-details/massgis-data-nhesp-potential-vernal-pools</u>. Accessed February 2022.

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APPENDIX A

WPA Form 3

Ecological Restoration Checklist Form 3A

Copies of Checks



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

A. General Information

WPA Form 3 – Notice of Intent Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number Sudbury City/Town



Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

4 Dawson Drive		Sudbury	01776
a. Street Address		b. City/Town	c. Zip Code
		42.342662	-71.406998
Latitude and Longitu	ide:	d. Latitude	e. Longitude
M10		0601	
f. Assessors Map/Plat Nu	mber	g. Parcel /Lot Numb	er
Applicant:			
Susan		Berry	
a. First Name		b. Last Name	
c. Organization			
4 Dawson Drive			
d. Street Address			
Sudbury		MA	01776
e. City/Town		f. State	g. Zip Code
		namaberry@gmail.c	om
		i Encell Addresses	
h. Phone Number Property owner (requ a. First Name	i. Fax Number uired if different from a	applicant): Check i	f more than one owner
h. Phone Number Property owner (requ a. First Name c. Organization	i. Fax Number uired if different from a	applicant): Check i	f more than one owner
h. Phone Number Property owner (requ a. First Name c. Organization d. Street Address e. City/Town	i. Fax Number uired if different from a	j. Email Address applicant): Check i b. Last Name f. State	f more than one owner
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h. Phone Number Property owner (requ a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if ar Polina a. First Name SWCA Environment	i. Fax Number uired if different from a	j. Email Address applicant): b. Last Name f. State j. Email address Safranb. Last Name	f more than one owner
h. Phone Number Property owner (requ a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if ar Polina a. First Name SWCA Environment c. Company	i. Fax Number uired if different from a	applicant): Check i b. Last Name f. State j. Email address Safran b. Last Name	f more than one owner
h. Phone Number Property owner (requ a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if ar Polina a. First Name SWCA Environment c. Company 1900 West Park Drv	i. Fax Number uired if different from a	applicant): Check i b. Last Name f. State j. Email address Safran b. Last Name	f more than one owner
h. Phone Number Property owner (requ a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if ar Polina a. First Name SWCA Environment c. Company 1900 West Park Drv d. Street Address	i. Fax Number uired if different from a	applicant): Check i b. Last Name f. State j. Email address Safran b. Last Name	f more than one owner
h. Phone Number Property owner (requ a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if ar Polina a. First Name SWCA Environment c. Company 1900 West Park Drv d. Street Address Westborough	i. Fax Number uired if different from a	j. Email Address applicant): Check i b. Last Name f. State j. Email address Safran b. Last Name	f more than one owner
h. Phone Number Property owner (requ a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if ar Polina a. First Name SWCA Environment c. Company 1900 West Park Drv d. Street Address Westborough e. City/Town	i. Fax Number uired if different from a	applicant): Check i b. Last Name f. State j. Email address Safran b. Last Name MA f. State MA f. State	f more than one owner g. Zip Code

4



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Provided by MassDEP:

MassDEP File Number

Document Transaction Number Sudbury City/Town

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

A. General Information (continued)

6. General Project Description:

Stabalization of bank associated with an unnamed intermittent stream located behind a residential dwelling. Stabilization involves coir fiber matting installation, geo-lifts, and construction of step pools. Work will take place in Lund Under Water, Inland Bank, and within 100-ft Buffer Zone to Bordering Vegeted Wetland.

7a. Project Type Checklis	(Limited Project Types	see Section A. 7b.)
---------------------------	------------------------	---------------------

Single Family Home	2.	Residential Subdivision
Commercial/Industrial	4.	Dock/Pier
Utilities	6.	Coastal engineering Structure
Agriculture (e.g., cranberries, forestry)	8.	Transportation
	 Single Family Home Commercial/Industrial Utilities Agriculture (e.g., cranberries, forestry) 	 Single Family Home Commercial/Industrial Utilities Agriculture (e.g., cranberries, forestry) 8.

- 9. 🗌 Other
- 7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. 🛛 Yes 🗌 No	If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)
310 CMR 10.53(4) Res	ource Improvement
2 Limited Project Type	

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Middlesex	
a. County	b. Certificate # (if registered land)
74055	222
c. Book	d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands Provided by MassDEP:

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Document Transaction Number Sudbury City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

	<u>Resou</u>	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
		Davis	209	209
For all projects	a. 🔀	Bank	1. linear feet	2. linear feet
affecting other	b. 🗌	Bordering Vegetated	1 aquara fact	2. aquara faat
please attach a		welland		2. square leet
narrative	c. 🛛	Land Under	1,942 1. square feet	2. square feet
the resource		Waterbodies and	0	
area was		vvaterways	3. cubic yards dredged	-
dennealed.	Resou	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
	d. 🗌	Bordering Land		
		Subject to Flooding	1. square feet	2. square feet
			2 auto fact of flood store to loot	A subjects strategies at
		Isolated Land	3. Cubic feet of flood storage lost	4. cubic reel replaced
	е. 🛄	Subject to Flooding	1. square feet	
			2. cubic feet of flood storage lost	3. cubic feet replaced
	f. 🗌	Riverfront Area	1. Name of Waterway (if available) - sr	pecify coastal or inland
	2.	Width of Riverfront Area	a (check one):	-
		25 ft Designated I	Densely Developed Areas only	
		🔲 100 ft New agricu	ltural projects only	
		200 ft All other pro	ojects	
	3.	Total area of Riverfront A	rea on the site of the proposed proj	ect: square feet
	4.	Proposed alteration of the	e Riverfront Area:	
	a. 1	total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
	5.	Has an alternatives analy	sis been done and is it attached to	this NOI?
	6.	Was the lot where the act	ivity is proposed created prior to Au	ugust 1, 1996? 🗌 Yes 🗌 No
	3 🗆 Co	astal Resource Areas [,] (Se	ee 310 CMR 10 25-10 35)	
				- h
	Note:	for coastal riverfront areas	s, please complete Section B.2.f. a	apove.



Massachusetts Department of Environmental Protection Provided by MassDEP:

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

MassDEP File Number

Document Transaction Number

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

Sudbury City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users: Include your document		Resou	rce Area	Size of Propose	d Alteration	Proposed Replacement (if any)
transaction number		a. 🗌	Designated Port Areas	Indicate size u	nder Land Under	r the Ocean, below
(provided on your receipt page) with all		b. 🗌	Land Under the Ocean	1. square feet		
supplementary information you submit to the				2. cubic yards dredg	ed	
Department.		c.	Barrier Beach	Indicate size uno	der Coastal Bead	ches and/or Coastal Dunes below
		d. 🗌	Coastal Beaches	1. square feet		2. cubic yards beach nourishment
		e. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment
				Size of Propose	d Alteration	Proposed Replacement (if any)
		f. 🗌	Coastal Banks	1. linear feet		
		g. 🗌	Rocky Intertidal Shores	1. square feet		
		h. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
		i. 🗌	Land Under Salt Ponds	1. square feet		
				2. cubic yards dredg	ed	
		j. 🗌	Land Containing Shellfish	1. square feet		
		k. 🗌	Fish Runs	sh Runs Indicate size under Coastal B. Ocean, and/or inland Land Ur above		ks, inland Bank, Land Under the er Waterbodies and Waterways,
				1 cubic vards dredo	ed	
		I. 🗌	Land Subject to	1. square feet		
	4.	X Restoration/Enhancement If the project is for the purpose of square footage that has been enter		restoring or enhar ered in Section B.2	ncing a wetland r 2.b or B.3.h abov	esource area in addition to the ve, please enter the additional
		amoun 0	t here.		0	
		a. square	e feet of BVW		b. square feet of S	Salt Marsh
	5.	Pro	oject Involves Stream Cross	sings		
		a. numb	er of new stream crossings		b. number of repla	cement stream crossings



Massachusetts Department of Environmental Protection Provided by MassDEP:

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C. Other Applicable Standards and Requirements

This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

 Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. 🗌 Yes	\boxtimes	No	If yes, include proof of mailing or hand delivery of NOI to:
2021			Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife 1 Rabbit Hill Road
b. Date of ma	р		westborough, wa utoot

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

c. Submit Supplemental Information for Endangered Species Review*

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

- 2. Assessor's Map or right-of-way plan of site
- 2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <u>https://www.mass.gov/ma-endangered-species-act-mesa-regulatory-review</u>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

^{**} MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



Massachusetts Department of Environmental Protection Provided by MassDEP:

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

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

MassDEP File Number

Document Transaction Number Sudbury

City/Town

C. Other Applicable Standards and Requirements (cont'd)

(c) MESA filing fee (fee information available at <u>https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review</u>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and *mail to NHESP* at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following
- 1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <u>https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat</u>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

$2 \square$	Soparato MESA roviow opgoing		
2.		a. NHESP Tracking #	 b. Date submitted to NHESP

- 3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
- 3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. \boxtimes Not applicable – project is in inland resource area only	b. 🗌 Yes	🗌 No
---	----------	------

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and North Shore - Hull to New Hampshire border: the Cape & Islands:

Division of Marine Fisheries -Southeast Marine Fisheries Station Attn: Environmental Reviewer 836 South Rodney French Blvd. New Bedford, MA 02744 Email: <u>dmf.envreview-south@mass.gov</u> Division of Marine Fisheries -North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

d.

c.		Is this an a	quaculture	project?
----	--	--------------	------------	----------

Yes	No
163	110

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).

	Ma Bu Ma	Assachusetts Department of Environmental Protection areau of Resource Protection - Wetlands /PA Form 3 – Notice of Intent assachusetts Wetlands Protection Act M.G.L. c. 131, §40	Provided by MassDEP: MassDEP File Number Document Transaction Number Sudbury City/Town
	C.	Other Applicable Standards and Requirements	(cont'd)
	4.	Is any portion of the proposed project within an Area of Critical Enviror	mental Concern (ACEC)?
Online Users: Include your document transaction		a. Yes No If yes, provide name of ACEC (see instruction: Website for ACEC locations). Note: electronic	s to WPA Form 3 or MassDEP filers click on Website.
		b. ACEC	
number (provided on your receipt page)	5.	Is any portion of the proposed project within an area designated as an (ORW) as designated in the Massachusetts Surface Water Quality Sta	Outstanding Resource Water ndards, 314 CMR 4.00?
with all supplementary information you submit to the Department.		a. 🗌 Yes 🖾 No	
	6.	Is any portion of the site subject to a Wetlands Restriction Order under Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restrict	the Inland Wetlands ion Act (M.G.L. c. 130, § 105)?
		a. 🗌 Yes 🖾 No	
	7.	Is this project subject to provisions of the MassDEP Stormwater Manag	gement Standards?
		 a. Yes. Attach a copy of the Stormwater Report as required by the Standards per 310 CMR 10.05(6)(k)-(q) and check if: 1. Applying for Low Impact Development (LID) site design credit Stormwater Management Handbook Vol. 2, Chapter 3) 	e Stormwater Management edits (as described in
		2. A portion of the site constitutes redevelopment	
		3. Proprietary BMPs are included in the Stormwater Manage	ment System.
		b. No. Check why the project is exempt:	
		1. Single-family house	
		2. Emergency road repair	
		3. Small Residential Subdivision (less than or equal to 4 sing or equal to 4 units in multi-family housing project) with no a	le-family houses or less than discharge to Critical Areas.
	D.	Additional Information	
		This is a proposal for an Ecological Restoration Limited Project. Skip S Appendix A: Ecological Restoration Notice of Intent – Minimum Requir 10.12).	ection D and complete ed Documents (310 CMR

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

D. Additional Information (cont'd)

- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. \boxtimes List the titles and dates for all plans and other materials submitted with this NOI.

a. Plan Title		
Paula Green, SWCA Environmental Consultants		
b. Prepared By	c. Signed and Stam	ped by
1/24/2022	1"= 10'	
d. Final Revision Date		
Fig. 2 Environmental Resource Map	4/6/2022	
f. Additional Plan or Document Title		g. Date

- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. X Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

1794	4/18/2022
2. Municipal Check Number	3. Check date
1793	4/18/2022
4. State Check Number	5. Check date
Susan	Berry
6. Payor name on check: First Name	7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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City/Town	

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F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.



For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

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

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

1

2

3



A. Applicant Information

Location of Project:			
4 Dawson Drive		Sudbury	
a. Street Address		b. City/Town	
1793		\$42.50	
c. Check number		d. Fee amount	
Applicant Mailing Ad	dress:		
Susan		Berry	
a. First Name		b. Last Name	
c. Organization			
4 Dawson Drive			
d. Mailing Address			
Sudbury		MA	01776
e. City/Town		f. State	g. Zip Code
		namaberry@gmail.com	
h. Phone Number	i. Fax Number	j. Email Address	
Property Owner (if d	ifferent):		
a. First Name		b. Last Name	
c. Organization			
d. Mailing Address			
e. City/Town		f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email Address	

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. *Please see Instructions before filling out worksheet.*

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 1d	1	\$110	\$110
	Step 5/To Step 6/	otal Project Fee: Fee Payments:	<u>\$110</u>
	Total Project Fee:		\$110 a. Total Fee from Step 5
	State share of filing Fee:		42.50 b. 1/2 Total Fee less \$ 12.50
	City/Town share of filling Fee:		67.50 c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection Box 4062 Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)


WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

Provided by MassDEP:

MassDEP File Number

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

Eligibility Checklist

This Ecological Restoration Limited Project Eligibility Checklist guides the applicant in determining if their project is eligible to file as an Inland or Coastal Ecological Restoration Limited Project (310 CMR 10.53(4) or 310 CMR 10.24(8) respectively). These criteria must be met when submitting the Ecological Restoration Limited Project Notice of Intent to ensure that the restoration and improvement of the natural capacity of a Resource Area(s) to protect and sustain the interests identified in the WPA is **necessary** to achieve the project's ecological restoration goals.

Important:

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



Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

Regulatory Features of All Coastal and Inland Ecological Restoration Limited Projects

- (a) <u>May result in the temporary or permanent loss of/or conversion of Resource Area</u>: An Ecological Restoration Limited Project that meets the requirements of 310 CMR 10.24(8) may result in the temporary or permanent loss of Resource Areas and/or the conversion of one Resource Area to another when such loss is necessary to the achievement of the project's ecological restoration goals.
- (b) Exemption from wildlife habitat evaluation: A NOI for an Ecological Restoration Limited Project that meets the minimum requirements for Ecological Restoration Projects and for a MassDEP Combined Application outlined in 310 CMR 10.12(1) and (2) is exempt from providing a wildlife habitat evaluation (310 CMR 10.60).
- (c) The following are considerations for applicants filing an Ecological Restoration Limited Project NOI and for the issuing authority approving a project as an Ecological Restoration Limited Project:
 - X The condition of existing and historic Resource Areas proposed for restoration.
 - Evidence of the extent and severity of the impairment(s) that reduce the capacity of the Resource Areas to protect and sustain the interests identified in M.G.L. c. 131, § 40.
 - The magnitude and significance of the benefits of the Ecological Restoration Project in improving the capacity of the affected Resource Areas to protect and sustain the other interests identified in M.G.L. c. 131, § 40.
 - The magnitude and significance of the impacts of the Ecological Restoration Project on existing Resource Areas that may be modified, converted and/or lost and the interests for which said Resource Areas are presumed significant in 310 CMR 10.00, and the extent to which the project will:
 - a. avoid adverse impacts to Resource Areas and the interests identified in M.G.L. c. 131, § 40, that can be avoided without impeding the achievement of the project's ecological restoration goals.
 - b. minimize adverse impacts to Resource Areas and the interests identified in M.G.L. c. 131, § 40, that are necessary to the achievement of the project's ecological restoration goals.
 - c. utilize best management practices such as erosion and siltation controls and proper construction sequencing to avoid and minimize adverse construction impacts to resource areas and the interests identified in M.G.L. c. 131, § 40.



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WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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

Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8))

Complete this Eligibility Criteria Checklist **before** filling out a Notice of Intent Application to determine if your project qualifies as a Coastal Ecological Restoration Limited Project. (310 CMR 10.24(8)) Sign the Eligibility Certification at the end of Appendix A, and attach the checklist with supporting documentation and the Eligibility Certification to your Notice of Intent Application.

General Eligibility Criteria for All Coastal Ecological Restoration Limited Projects

Notwithstanding the requirements of 310 CMR 10.25 through 10.35, 310 CMR 10.54 through 10.58, and the Wildlife Habitat evaluations in 310 CMR 10.60, the Issuing Authority may issue an Order of Conditions permitting an Ecological Restoration Project listed in 310 CMR 10.24(8)(e) as an Ecological Restoration Limited Project and impose such conditions as will contribute to the interests identified in the WPA M.G.L. provided that the project meets all the requirements in 310 CMR 10.24 (8).

- The project is an Ecological Restoration Project as defined in 310 CMR 10.04 and is a project type listed below [310 CMR 10.24(8)(e)].
- Tidal Restoration.
- Shellfish Habitat Restoration.
- Other Ecological Restoration Limited Project Type.
- The project will further at least one of the WPA (M.G.L. c. 131, § 40) interests identified below.
 - Protection of public or private water supply.
 - Protection of ground water supply.
 - Flood control.
 - Storm damage prevention.
 - Prevention of pollution.
 - Protection of land containing shellfish.
 - Protection of fisheries.
 - Protection of wildlife habitat.

☐ If the project will impact an area located within estimated habitat which is indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands, a NHESP preliminary written determination is attached to the NOI submittal that the project will not have any adverse long-term and short-term effects on specified habitat sites of Rare Species or the project will be carried out in accordance with an approved NHESP habitat management plan.



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Appendix A: Ecological Restoration Limited Project Checklists

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

WPA Form 3 – Notice of Intent

Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

General Eligibility Criteria for All Coastal Ecological Restoration Limited Projects (cont.)

- If the project is located in a Coastal Dune or Barrier Beach, the project avoids and minimizes armoring of the Coastal Dune or Barrier Beach to the maximum extent practicable.
- The project complies with all applicable provisions of 310 CMR 10.24(1) through (6) and 310 CMR 10.24(9) and (10).

Additional Eligibility Criteria for Specific Coastal Ecological Restoration Limited Project Types

These additional criteria must be met to qualify as an Ecological Restoration Limited Project to ensure that the restoration and improvement of the natural capacity of a Resource Area to protect and sustain the interests identified in the WPA is **necessary** to achieve the project's ecological restoration goals.

This Ecological Restoration Limited Project application meets the eligibility criteria for Ecological Restoration Limited Project [310 CMR 10.24(8)(a) through (d) and as proposed, furthers at least one of the WPA interests is for the project type identified below.

Tidal Restoration Projects

A project to restore tidal flow that will not significantly increase flooding or storm damage impacts to the built environment, including without limitation, buildings, wells, septic systems, roads or other man-made structures or infrastructure.

Shellfish Habitat Restoration Projects

- The project has received a Special Projects Permit from the Division of Marine Fisheries or, if a municipality, has received a shellfish propagation permit.
- The project is made of cultch (e.g., shellfish shells from oyster, surf or ocean clam) or is a structure manufactured specifically for shellfish enhancement (e.g., reef blocks, reef balls, racks, floats, rafts, suspended gear).
- Other Ecological Restoration Projects that meet the criteria set forth in 310 CMR 10.24(8)(a) through (d).
 - Restoration, enhancement, or management of Rare Species habitat.
 - Restoration of hydrologic and habitat connectivity.
 - Removal of aquatic nuisance vegetation to impede eutrophication.
 - Thinning or planting of vegetation to improve habitat value.
 - Fill removal and re-grading.
 - Riparian corridor re-naturalization.
 - River floodplain re-connection.



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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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WPA Form 3 – Notice of Intent
Appendix A: Ecological Restoration Limited
Project Checklists
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

Additional Elimitality	Oultoulo fou O	manifia Canatal	Easlanias D	a a fa wa fi a w I i w	the d Due le et T	
Additional Elidibilit	v Criteria for S	Decific Coastal	Ecological Re	estoration Lin	litea Proiect I	vpes
	,					1

	In-stream habitat enhancement.
	Remediation of historic tidal wetland ditching.
	Eelgrass restoration.
	Invasive species management.
	Installation of fish passage structures.
	Other. Describe:
Thi infr	project involves the construction, repair, replacement or expansion of public or private astructure (310 CMR 10.24(9). The NOI attachment labeled is an operation and maintenance plan to ensure that the infrastructure will continue to function as designed. The operation and maintenance plan will be implemented as a continuing condition in the Order of Conditions and the Certificate of Compliance.
	This project proposes to replace an existing stream crossing (310 CMR 10.24(10). The crossing complies with the Massachusetts Stream Crossing Standards to the maximum extent practicable with details provided in the NOI. The crossing type:
	 Replaces an existing non-tidal crossing that is part of an Anadromous/Catadromous Fish Run (310 CMR 10.35) Replaces an existing tidal crossing that restricts tidal flow. The tidal restriction will be eliminated to the maximum extent practicable. At a minimum, in evaluating the potential to comply with the standards to the maximum extent practicable the following criteria have been consider site constraints in meeting the standard, undesirable effects or risk in meeting the standard, and the environmental benefit of meeting the standard compared to the cost, by evaluating the following:
	The potential for downstream flooding;
	Upstream and downstream habitat (in-stream habitat, wetlands);
	Potential for erosion and head-cutting;
	Stream stability;
	Habitat fragmentation caused by the crossing;
	☐ The amount of stream mileage made accessible by the improvements;

Storm flow conveyance;



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

Additional Eligibility Criteria for Specific Coastal Ecological Restoration Limited Project Types

- Engineering design constraints specific to the crossing;
- Hydrologic constraints specific to the crossing;
- Impacts to wetlands that would occur by improving the crossing;
- Potential to affect property and infrastructure; and
- Cost of replacement.

Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4))

Complete this Eligibility Criteria Checklist **before** filling out a Notice of Intent Application to determine if your project qualifies as an Inland Ecological Restoration Limited Project. (310 CMR 10.53(4)) Sign the Eligibility Certification at the end of Appendix A, and attach the checklist with supporting documentation and the Eligibility Certification to your Notice of Intent Application.

General Eligibility Criteria for All Inland Ecological Restoration Limited Projects

Notwithstanding the requirements of any other provision of 310 CMR 10.25 through 10.35, 310 CMR 10.54 through 10.58, and 310 CMR 10.60, the Issuing Authority may issue an Order of Conditions permitting an Ecological Restoration Project listed in 310 CMR 10.53(4)(e) as an Ecological Restoration Limited Project and impose such conditions as will contribute to the interests identified in M.G.L. c. 131, § 40, provided that:

- The project is an Ecological Restoration Project as defined in 310 CMR 10.04 and is a project type listed below [310 CMR 10.53(4)(e)].
 - Dam Removal
 - Freshwater Stream Crossing Repair and Replacement
 - Stream Daylighting
 - Tidal Restoration
 - Rare Species Habitat Restoration
 - Restoring Fish Passageways
 - Other (describe project type):

Intermittent stream bank stabilization



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

General Eligibility Criteria for All Inland Ecological Restoration Limited Projects

The project will further at least one of the WPA (M.G.L. c. 131, § 40) interests identified below.

- Protection of public or private water supply
- Protection of ground water supply
- Flood control
- Storm damage prevention
- Prevention of pollution
- Protection of land containing shellfish
- Protection of fisheries
- Protection of wildlife habitat
- ☐ If the project will impact an area located within estimated habitat which is indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands, a NHESP preliminary written determination is attached to the NOI submittal that the project will have no adverse long-term and short-term effects on specified habitat sites of Rare Species or the project will be carried out in accordance with an approved NHESP habitat management plan.
- The project will be carried out in accordance with any time of year restrictions or other conditions recommended by the Division of Marine Fisheries for coastal waters and the Division of Fisheries and Wildlife in accordance with 310 CMR 10.11(3).
- ☐ If the project involves the dredging of 100 cubic yards of sediment or more or dredging of any amount in an Outstanding Resource Water, a Water Quality Certification has been applied for or obtained.
- The project complies with all applicable provisions of 310 CMR 10.53(1), (2), (7), and (8).



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

Additional Eligibility Criteria for Specific Inland Ecological Restoration Limited Project Types

These additional criteria must be met to qualify as an Ecological Restoration Limited Project to ensure that the restoration and improvement of the natural capacity of a Resource Area to protect and sustain the interests identified in the WPA is **necessary** to achieve the project's ecological restoration goals.

This project application meets the eligibility criteria for Ecological Restoration Limited Project in accordance with [310 CMR 10.53(4)(a) through (d) and as proposed, furthers at least one of the WPA interests is for the project type identified below:

Dam Removal

Project is consistent with MassDEP's 2007 Dam Removal Guidance.

- Freshwater Stream Crossing Repair and Replacement. The project as proposed and the NOI describes how:
 - Meeting the eligibility criteria set forth in 310 CMR 10.13 would result in significant stream instability or flooding hazard that cannot otherwise be mitigated, and site constraints make it impossible to meet said criteria.
 - The project design ensures that the stability of the bank is NOT impaired.
 - ☐ To the maximum extent practicable, the project provides for the restoration of the stream upstream and downstream of the structure as needed to restore stream continuity and eliminate barriers to aquatic organism movement.
 - The project complies with the requirements of 310 CMR 10.53(7) and (8).

Stream Daylighting Projects

- ☐ The project meets the eligibility criteria for Ecological Restoration Limited Project [310 CMR 10.53(4)(a) through (d)] and as proposed the NOI describes how the proposed project meets to the maximum extent practicable, consistent with the project's ecological restoration goals, all the performance standards for Bank and Land Under Water Bodies and Waterways.
- The project meets the requirements of 310 CMR 10.12(1) and (2) and a wildlife habitat evaluation is not included in the NOI.
- **Tidal Restoration Project**
 - Restores tidal flow.
 - the project, including any proposed flood mitigation measures, will not significantly increase flooding or storm damage to the built environment, including without limitation, buildings, wells, septic systems, roads or other man-made structures or infrastructure.



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

- Other Ecological Restoration Projects that meet the criteria set forth in 310 CMR 10.53 (4) (a) through (d).
 - Restoration, enhancement, or management of Rare Species habitat.
 - Restoration of hydrologic and habitat connectivity.
 - Removal of aquatic nuisance vegetation to impede eutrophication.
 - Thinning or planting of vegetation to improve habitat value.
 - Riparian corridor re-naturalization.
 - River floodplain re-connection.
 - In-stream habitat enhancement.
 - Fill removal and re-grading.
 - Flow restoration.
 - Installation of fish passage structures.
 - Invasive species management.
 - Other. Describe:
- This project involves the construction, repair, replacement or expansion of public or private infrastructure. (310 CMR 10.53(7))
 - The NOI attachment labeled _____ is an operation and maintenance plan to ensure that the infrastructure will continue to function as designed.
 - The operation and maintenance plan will be implemented as a continuing condition in the Order of Conditions and the Certificate of Compliance.
- This project replaces an existing stream crossing (310 CMR 10.53(8)). The crossing type:
 - Replaces an existing non-tidal crossing designed to comply with the Massachusetts Stream Crossing Standards to the maximum extent practicable with details provided in the NOI.
 - Replaces an existing tidal crossing that restricts tidal flow. The tidal restriction will be eliminated to the maximum extent practicable.



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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

Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

- At a minimum, in evaluating the potential to comply with the standards to the maximum extent practicable the following criteria have been consider site constraints in meeting the standard, undesirable effects or risk in meeting the standard, and the environmental benefit of meeting the standard compared to the cost, by evaluating the following:
 - The potential for downstream flooding;
 - Upstream and downstream habitat (in-stream habitat, wetlands);
 - Potential for erosion and head-cutting;
 - Stream stability;
 - Habitat fragmentation caused by the crossing;
 - X The amount of stream mileage made accessible by the improvements;
 - Storm flow conveyance;
 - Engineering design constraints specific to the crossing;
 - Hydrologic constraints specific to the crossing;
 - Impacts to wetlands that would occur by improving the crossing;
 - Detential to affect property and infrastructure; and
 - Cost of replacement.



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 **Required Actions (310 CMR 10.11)**

Complete the Required Actions <u>before</u> submitting a Notice of Intent Application for an Ecological Restoration Project and submit a completed copy of this Checklist with the Notice of Intent.

Massachusetts Environmental Policy Act (MEPA) / Environmental Monitor http://www.mass.gov/eea/agencies/mepa/submitting-notices-to-the-environmental-monitor.html

For Ecological Restoration Limited Projects, there are no changes to MEPA requirements.

- Submit written notification at least 14 days prior to the filing of a Notice of Intent (NOI) to the Environmental Monitor for publication. A copy of the written notification is attached and provides at minimum:
 - A brief description of the proposed project.
 - The anticipated NOI submission date to the conservation commission.
 - The name and address of the conservation commission that will review the NOI.
 - Specific details as to where copies of the NOI may be examined or acquired and where to obtain the date, time, and location of the public hearing.
- Massachusetts Endangered Species Act (MESA) /Wetlands Protection Act Review
 - Preliminary Massachusetts Endangered Species Act Review from the Natural Heritage and Endangered Species Program (NHESP) has been met and the written determination is attached.
 - Supplemental Information for Endangered Species Review has been submitted.
 - - a. Within Wetland Resource Area

Percentage/acreage

b. Outside Wetland Resource Area

Percentage/acreage

2. Assessor's Map or right-of-way plan of site

3. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work.

4. Project description (including description of impacts outside of wetland resource area & buffer zone)

- 5. Dependence Photographs representative of the site
- 6. MESA filing fee (fee information available at

http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm)



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Document Transaction Number

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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Required Actions (310 CMR 10.11) (cont.)

Make check payable to "Commonwealth of Massachusetts - NHESP" and mail to NHESP:

Natural Heritage & Endangered Species Program MA Division of Fisheries & Wildlife 1 Rabbit Hill Road Westborough, MA 01581

- 7. Projects altering 10 or more acres of land, also submit:
 - a. Uegetation cover type map of site
 - b. Deroject plans showing Priority & Estimated Habitat boundaries

OR Check One of the Following:

Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <u>http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/;</u> the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59 – see C4 below)

2. Separate MESA review ongoing.

a. NHESP Tracking #

b. Date submitted to NHESP

3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

Estimated Habitat Map of State-Listed Rare Wetlands Wildlife

If a portion of the proposed project is located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP), complete the portion below. To view habitat maps, see the **Massachusetts Natural Heritage Atlas** or view the maps electronically at: <u>http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review</u>

- A preliminary written determination from Natural Heritage and Endangered Species Program (NHESP) must be obtained indicating that:
 - Project will NOT have long- or short-term adverse effect on the actual Resource Area located within estimated habitat indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands Wildlife published by NHESP.
 - Project will have long- or short-term adverse effect on the actual Resource Area located within estimated habitat indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands Wildlife published by NHESP. A copy of NHESP's written preliminary determination in accordance with 310 CMR 10.11(2) is attached. This specifies:

Date of the map:



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Sudbury City/Town

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

Required Actions (310 CMR 10.11) (cont.)

- ☐ If the Rare Species identified is/are likely to continue to be located on or near the project, and if so, whether the Resource Area to be altered is in fact part of the habitat of the Rare Species.
- That if the project alters Resource Area(s) within the habitat of a Rare Species:
- The Rare Species is identified;
- NHESP's recommended changes or conditions necessary to ensure that the project will have no short or long term adverse effect on the habitat of the local population of the Rare Species is provided; or

An approved NHESP habitat management plan is attached with this Notice of Intent.

Send the request for a preliminary determination to: Natural Heritage & Endangered Species Program MA Division of Fisheries & Wildlife 1 Rabbit Hill Road Westborough, MA 01581

Division of Marine Fisheries

☐ If the project will occur within a coastal waterbody with a restricted Time of Year, [see Appendix B of the Division of Marine Fisheries (DMF) Technical Report TR 47 "Marine Fisheries Time of Year Restrictions (TOYs) for Coastal Alteration Projects" dated April 2011 <u>http://www.nae.usace.army.mil/Portals/74/docs/regulatory/StateGeneralPermits/NEGP/MADMFTR</u> -47.pdf].

Obtain a DMF written determination stating:

The proposed work does NOT require a TOY restriction.

The proposed work requires a TOY restriction. Specific recommended TOY restriction and recommended conditions on the proposed work is attached.

If the project may affect a diadromous fish run [re: Division of Marine Fisheries (DMF) Technical Reports TR 15 through 18, dated 2004: http://www.mass.gov/eea/agencies/dfg/dmf/publications/technical.html]

Obtain a DMF written determination stating:

The design specifications and operational plan for the project are compatible with the passage requirements of the fish run.

The design specifications and operational plan for the project are not compatible with the passage requirements of the fish run.



Massachusetts Department of Environmental Protection		Provided by MassDEP:		
Bureau of Resource Protection - Wetlands	MassDEP File Number			
WPA FORM 3 – Notice of Inter	Document Transaction Number			
Appendix A: Ecological Restora	tion Limited	Sudbury		
Project Checklists		City/Town		
Massachusetts Wetlands Protection Act M.G.	L. C. 131, §40			
Required Actions (310 CMR 10.11) (c	ont.)			
Send the request for a written or electronic	determination to:			
South Shore – Cohasset to Rhode Island border, and the Cape & Islands:	North Shore – Hull	to New Hampshire border:		
Division of Marine Fisheries –	Division of Marine	Fisheries –		
Attn: Environmental Reviewer	Attn: Environment	al Reviewer		
836 South Rodney French Blvd.	30 Emerson Avenu	e		
New Bedford, MA 02744	Gloucester, MA 01	930 aview North@atete mayue		
Division of Fisheries and Wildlife – <u>http://www.m</u>	ass.gov/eea/agencies	s/dfg/dfw/		
 Projects that involve silt-generating, in-water work that will impact a non-tidal perennial river or stream and the in-water work will not occur between May 1 and August 30. Obtain a written determination from the Division of Fisheries and Wildlife (DFW) as to whether the proposed work requires a TOY restriction. 				
The proposed work does NOT require	a TOY restriction.			
The proposed work requires a TOY restriction. The DFW determination with TOY restriction and other conditions is attached.				
MassDEP Water Quality Certification				
Project involves dredging of 100 cubic yards or more in a Resource Area or dredging of any amount in an Outstanding Resource Water (ORW). A copy and proof of the MassDEP Water Quality Certification pursuant to 314 CMR 9.00 is attached to the NOI.				
☐ This project is a Combined Permit Application for 401 Dredging and Restoration (BRP WW 26).				
MassDEP Wetlands Restriction Order				
Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?				
🗌 Yes 🛛 No				
Department of Conservation and Recreation				
Office of Dam Safety				
For Dam Removal Projects, obtain a written de	termination from the l	Department of Conservation		

t of Conservation and Recreation Office of Dam Safety that the dam is not subject to the jurisdiction of the Office under 302 CMR 10.00, a written determination that the dam removal does not require a permit under 302 CMR 10.00 or a permit authorizing the dam removal in accordance with 302 CMR 10.00 has been issued.



Massachusetts Department of Environmental Protection	Provided
Bureau of Resource Protection - Wetlands	Mas
WPA Form 3 – Notice of Intent	Doc
Appendix A: Ecological Restoration Limited	Doc
Project Checklists	Suc City
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	0.19
Required Actions (310 CMR 10.11) (cont.)	

Areas of Critical Environmental Concern (ACECs)

Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

Name of ACEC

Minimum Required Documents (310 CMR 10.12)

Complete the Required Documents Checklist below and provide supporting materials <u>before</u> submitting a Notice of Intent Application for an Ecological Restoration Project.

This Notice of Intent meets all applicable requirements outlined in for Ecological Restoration Projects in 310 CMR 10.12. Use the checklist below to insure that all documentation is included with the NOI.

At a minimum, a Notice of Intent for an Ecological Restoration Project shall include the following:

- Description of the project's ecological restoration goals;
- The location of the Ecological Restoration Project;
- Description of the construction sequence for completing the project;
- A map of the Areas Subject to Protection Under M.G.L. c. 131, § 40, that will be temporarily or permanently altered by the project or include habitat for Rare Species, Habitat of Potential Regional and Statewide Importance, eel grass beds, or Shellfish Suitability Areas.
- The method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.) is attached with documentation methodology.
 - List the titles and dates for all plans and other materials submitted with this NOI.

Stream Bank Ecological Restoration	
a. Plan Title	
Paula Green, SWCA Environmental Cor	nsultants
b. Prepared by	c. Signed and Stamped by
1/24/2022	1"=10'
d. Final Revision Date	e. Scale
Fig. 2 Environmental Resource Map	4/6/2022
f. Additional Plan or Document Title	g. Date

If there is more than one property owner, attach a list of these property owners not listed on this form.

Attach NOI Wetland Fee Transmittal Form.

2

MassDEP File Number

by MassDEP:

Ocument Transaction Number

Sudbury City/Town



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Minimum Required Documents (310 CMR 10.12)

well as any proposed flood impact mitigation measures;

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Sudbury City/Town

An evaluation of any flood impacts that may affect the built environment, including without limitation, buildings, wells, septic systems, roads or other man-made structures or infrastructure as

- A plan for invasive species prevention and control;
- The Natural Heritage and Endangered Species Program written determination in accordance with 310 CMR 10.11(2), if needed;
- Any Time of Year restrictions and/or other conditions recommended by the Division of Marine Fisheries or the Division of Fisheries and Wildlife in accordance with 310 CMR 10.11(3), (4), (5), if needed;
- Proof that notice was published in the Environmental Monitor as required by 310 CMR 10.11(1;
- A certification by the applicant under the penalties of perjury that the project meets the eligibility criteria set forth in 310 CMR 10.13;
- ☐ If the Ecological Restoration Project involves the construction, repair, replacement or expansion of infrastructure, an operation and maintenance plan to ensure that the infrastructure will continue to function as designed;
- If the project involves dredging of 100 cubic yards or more or dredging of any amount in an Outstanding Resource Water, a Water Quality Certification issued by the Department pursuant to 314 CMR 9.00;
- ☐ If the Ecological Restoration Project involves work on a stream crossing, information sufficient to make the showing required by 310 CMR 10.24(10) for work in a coastal resource area and 310 CMR 10.53(8) for work in an inland resource area; and
- ☐ If the Ecological Restoration Project involves work on a stream crossing, baseline photo-points that capture longitudinal views of the crossing inlet, the crossing outlet and the upstream and downstream channel beds during low flow conditions. The latitude and longitude coordinates of the photo-points shall be included in the baseline data.
- ☐ This project is subject to provisions of the MassDEP Stormwater Management Standards. A copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) is attached.
- Provide information as the whether the project has the potential to impact private water supply wells including agricultural or aquacultural wells or surface water withdrawal points.



WPA Form 3 – Notice of Intent

Appendix A: Ecological Restoration Limited Project Checklists

MassDEP	File Number
Document	Transaction Numbe
Sudbury	

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

Certification that the Ecological Restoration Project Meets the Eligibility Criteria

I hereby certify under penalties of perjury that the Ecological Restoration Project Notice of Intent application does not meet the Eligibility criteria for an Ecological Restoration Order of Conditions set forth in 310 CMR 10.13, but does meet the Eligibility Criteria for a Ecological Restoration Limited Project set forth in 10.24(8) or 10.53(4) whichever is applicable. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Suran Z. Bernon	
Signature of Applicant or Authorized Agent	1 1 1 2
Susan Berry	692022
Printed Name of Applicant or Authorized Agent	Date

The certification must be signed by the applicant; however, it may be signed by a duly authorized agent (named in Item 2) if this form is accompanied by a statement by the applicant designating the agent and agreeing to furnish upon request, supplemental information in support of the application.

5-7515/110 SUSAN L. BERRY 1795 DEBORAH E. FLAGG 4 DAWSON DR. SUDBURY, MA 01776 4/18/22 DATE_ PAY TO THE ORDER OF lown of Sudburry \$ 25.00 ì 5 Lett DOLLARS Decuty Features Included Details or Back. Cin tim Santander Santander Bank, N.A. MEMO By KWTER Category 1 L. ma MP 1795 1

SUSAN L. BERRY	5-7515/110	1793
4 DAWSON DR. SUDBURY, MA 01776	DATE 4 18	22
PAY TO THE Component wealth of Forty-two and titty	Massachusetts	DOLLARS
Santander Santander Bank, N.A. MEMO WPA File	Sman 2.	Berry MP

SUSAN L. BERRY DEBORAH E. FLAGG	5-7515/110	1794
4 DAWSON DR. SUDBURY, MA 01776	DATE 4/15	22
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Santander Santander Bank, N.A. MEMO WPA F-RE	Suran L-	Benny
	* 1794	0

APPENDIX B

Figures













National Flood Hazard Layer FIRMette

71°24'44"W 42°20'47









legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for

regulatory purposes.

APPENDIX C

Wetland Data Sheets

Stream Stats Report

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 4 Dawson Drive City/	County: Sudbury (Middlesex County) Sampling Date: 10/6/2021
Applicant/Owner: Susan Berry	State: MA Sampling Point: WA-3 Wetland
Investigator(s): <u>C. Mcdonough</u> Sect	tion, Township, Range:
Landform (hillslope, terrace, etc.): Toeslope Local re	elief (concave, convex, none): <u>Concave</u> Slope (%): <u>0</u>
Subregion (LRR or MLRA): LRR R Lat: 42.34250000	Long: <u>-71.40638889</u> Datum: <u>NAD 88</u>
Soil Map Unit Name: Swansea muck	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly distu	urbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problem	natic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No	Is the Sampled Area
Hydric Soil Present?	Yes <u>X</u>		within a Wetland? Yes X No
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: <u>WA-3</u>
Remarks: (Explain alternative proced	dures here or in a	separate report.)	nittent stream. The plot was determined to be located within a wetland due of hydrology, and hydrophytic vegetation dominates at the plot.
WA-3 (Wet) consists of a palulstrine to	forested wetland a	adjacent to an interm	
to the presence of all three wetland c	riteria, including h	nydric soil, evidence	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living I	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Sc	oils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes X No Depth (inches): 16	
Saturation Present? Yes X No Depth (inches): 12	Wetland Hydrology Present? Yes X No
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe)	Wetland Hydrology Present? Yes X No No
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe)	Wetland Hydrology Present? Yes X No No tions), if available:
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect None	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect None Remarks:	Wetland Hydrology Present? Yes X No
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect None Remarks: Both primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed a	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect None Remarks: Both primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary and secondary indicators of hydrology were observed at the WA-3 (Wet) primary at the work of t	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect None Remarks: Both primary and secondary indicators of hydrology were observed at the WA-3 (Wet) p Surrounding area consists of residential development, impervious surface area, and is a	Wetland Hydrology Present? Yes X No tions), if available: plot. assumed to have been previously disturbed.
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect None Remarks: Both primary and secondary indicators of hydrology were observed at the WA-3 (Wet) p Surrounding area consists of residential development, impervious surface area, and is a	Wetland Hydrology Present? Yes X No tions), if available: plot. assumed to have been previously disturbed.
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Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect None Remarks: Both primary and secondary indicators of hydrology were observed at the WA-3 (Wet) p Surrounding area consists of residential development, impervious surface area, and is a	Wetland Hydrology Present? Yes X No tions), if available: plot. assumed to have been previously disturbed.
Saturation Present? Yes X No Depth (inches): 12 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect None Remarks: Both primary and secondary indicators of hydrology were observed at the WA-3 (Wet) p Surrounding area consists of residential development, impervious surface area, and is a	Wetland Hydrology Present? Yes X No tions), if available: plot. assumed to have been previously disturbed.

VEGETATION – Use scientific names of plants.

Sampling Point: WA-3 Wetland

Tree Stratum (Plot size: 30' radius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Fraxinus pennsylvanica	70	Yes	FACW	Number of Dominant Species
	35	Ves	FAC	That Are OBL, FACW, or FAC: (A)
2. Ouercus rubra	5	No	FACU	Total Number of Dominant Species Across All Strate: 8 (B)
A Pinus strobus		No	EACU	
4. 1 mus suodus		110	TACO	Percent of Dominant Species 100 (A/B)
5			·	
o			·	Prevalence Index worksheet:
/	445		·	Total % Cover of: Multiply by:
	115	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' radius)	10	Mara		FACW species $22 = $
1. Fraxinus pennsylvanica	10	Yes	FACW	FAC species x 3
2. Lindera benzoin	10	Yes	FACW	UPL species x5=
3Frangula alnus	5	Yes	FAC	Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
	25	= Total Co	ver	\underline{X} 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)		rotar oo		3 - Prevalence Index is ≤3.0 ¹
1. Osmundastrum cinnamomeum	5	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Impatiens capensis	5	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Symplocarpus foetidus	5	No	OBL	
4.	_			Indicators of hydric soil and wetland hydrology must
5			·	Definitions of Manatation Otherton
6			·	Definitions of Vegetation Strata:
7			·	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
/			·	at breast height (DBH), regardless of height.
o 9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
12.	15	- Total Ca	vor	height.
Weath Vine Chatter (Distained Office in)		- 10141 00	VEI	
Woody Vine Stratum (Piot size: <u>30' radius</u>)				
1. Absent			·	
2			·	
3			·	Hydrophytic
4				Present? Yes X No
	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			·
Hydrophytic vegetation dominates WA-3 Wetland plot.				

SO	L
----	---

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 2/1	95	5YR 4/6	5	С	Μ	Loamy/clayey	Mucky fine sandy loam
10-12	10YR 2/1	47	5YR 4/6	3	С	М	Loamy/clayey	Concentrations & depletions in matrix
			7.5YR 5/1	50	D	М		
12-15	10YR 2/1	30	7.5YR 5/1	65	D	М	Loamy/clayey	Saturated
			5YR 4/6	5	С	М		
15-19	7.5YR 5/1	75	7.5YR 4/1	20	D	М	Sand	Saturated
			5YR 4/6	5	С	М		
					·			
					·			
¹ Type: C=C	oncentration. D=Dep	letion. RM=	Reduced Matrix. M	S=Maske	d Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix,
Hydric Soil	Indicators:						Indicators for	or Problematic Hydric Soils ³ :
Histosol Histic E _I Black Hi Hydroge Stratifier Depleter Thick Da Sandy M Sandy G Sandy F Strippec Dork Su	(A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (I BB B 1)	e (A11)	Polyvalue Belov MLRA 149B Thin Dark Surfa Loamy Mucky N Loamy Gleyed Depleted Matrix X Redox Dark Su Depleted Dark Redox Depress	w Surface) ace (S9) (I Mineral (F Matrix (F2 k (F3) Irface (F6) Surface (F sions (F8)	(S8) (LRF L RR R, MI 1) (LRR K 2) 	RR, 149B , L)	2 cm Mu Coast Pr 5 cm Mu Dark Sur Polyvalu Thin Dar Iron-Mar Piedmon Nesic Sp Red Pare Very Sha	ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) face (S7) (LRR K, L) e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) t Floodplain Soils (F19) (MLRA 149B) bodic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) valain in Pomarke)
Duint du			-,				0	
Indicators o	r nydrophytic vegeta Layer (if observed):	tion and we	etiand hydrology mus	st be pres	ent, unless	s disturbed	or problematic.	
Type: <u>N</u>	one							
Depth (in	ches):						Hydric Soil P	resent? Yes X No
Remarks: A positive i observed v	ndication of hydric so vithin the profile.	bil was obs	erved at WA-3 Wetla	and plot. P	Prominant r	edoximor	bhic features (cor	ncentrations and depletions) were

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 4 Dawson Drive	_ City/County:	Sudbury (Middle	esex County)	Sampling Date: <u>1</u>	0/6/2021
Applicant/Owner: Susan Berry			State: MA	_ Sampling Point:	WA-3 Upland
Investigator(s): C. Mcdonough	Section, Tow	nship, Range: _			
Landform (hillslope, terrace, etc.): Hillslope L	Local relief (con	cave, convex, no	one): <u>Convex</u>	Slope	(%): <u>5-8%</u>
Subregion (LRR or MLRA): LRR R Lat: 42.342720		Long: <u>-</u> 7	1.406581	Datum:	NAD 88
Soil Map Unit Name: Windsor loamy sand			NWI classifica	ation: n/a	
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes X	No	(If no, explain in Re	emarks.)	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significant	tly disturbed?	Are "Norma	al Circumstances" pr	resent? Yes X	No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p	problematic?	(If needed,	explain any answers	s in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No_X Yes No_X	Is the Sampled Area within a Wetland? Yes NoX
Wetland Hydrology Present?	Yes No <u>X</u>	If yes, optional Wetland Site ID:
Remarks: (Explain alternative proced	ures here or in a separate report.)	·
WA-3 Upland was determined to be lo	ocated within an upland area due to t	ne absence of wetland criteria.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	oils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>No X</u> Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
n/a	
Pemerke:	
No wetland hydrology primary or secondary indicators observed at WA-3 upland plot.	

VEGETATION – Use scientific names of plants.

Sampling Point: WA-3 Upland

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet:
Quercus rubra	70	Yes	FACU	Number of Dominant Species
Pinus strobus	20	No	FACU	That Are OBL, FACW, or FAC: (A)
2 2 Fagus grandifolia	10	No	FACU	Total Number of Dominant Species Across All Strata: 4 (B)
Acer rubrum	10	No	FAC	
4		110		Percent of Dominant Species That Are OBL_FACW_or_FAC ^{25%} (A/B)
5				
6	·			Prevalence Index worksheet:
7	110			Total % Cover of: Multiply by:
	110	= Total Cov	/er	OBL species 0 $x_1 = 0$
Sapling/Shrub Stratum (Plot size: 15 radius)	45	Maa	FAOL	FACW species 20 $x^2 = \frac{12}{60}$
1. Fagus grandifolia	15	Yes	FACU	FAC species 142 $x_4 = 568$
2. Frangula alnus	10	Yes	FAC	$\begin{array}{c} 1 \text{PRCO species} & 0 \\ 1 \text{PL species} & 0 \\ 1 \text{PL species} & 0 \\ 1 \text{Species} &$
3. Pinus strobus	7	No	FACU	Column Totals: 168 (A) 640 (B)
4. Vaccinium angustifolium	5	No	FACU	
5 Lindera benzoin	3	No	FACW	Prevalence Index = B/A =
6. Lyonia ligustrina	3	No	FACW	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	43	- Total Cov		2 - Dominance Test is >50%
Horb Stratum (Plat aize: 5' radius		- 10(2100)		3 - Prevalence Index is ≤3.0 ¹
	15	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
1		100	TACO	data in Remarks or on a separate sheet)
2				
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	15	= Total Cov	/er	height.
Woody Vine Stratum (Plot size: 30' radius)				
Absent				
2				
2				
S				Hydrophytic Vegetation
4				Present? Yes No \times
		= Total Cov	/er	
Kemarks: (Include photo numbers here of on a separate s	sneet.) Irophytic ver	netation indi	cator tests	
vegetation at WA-5 Opiand plot does not meet any nyd		getation ind		

Profile Desc	ription: (Describe	to the depth	n needed to docur	ment the	indicator	or confirm	the absence	of indicato	rs.)		
Depth	Matrix		Redo	x Feature	s						
<u>(inches)</u>	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-5	7.5YR 3/4	90	-	-	-	-	Loamy/clayey	Mixed ma	atrix		
	7.5YR 4/4	10	-	-	-	-					
5-14	10YR 5/6	80	-		-	-	Loamy/clayey	Mixed ma	atrix		
	7.5YR 4/4	20	-	-	-	-					
14-19	10YR 3/6	100	-	-	-	-	Loamy/clayey				
		·									
					·						
		·									
¹ Type: C=Co	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	S=Masked	d Sand Gra	ains.	² Location:	PL=Pore I	Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators	for Probler	matic Hydric Soils ³ :		
Hydric Soli Indicators: Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed Restrictive Layer (if observed): Type: None				R R, LRA 149B) , L)	2 cm M Coast F 5 cm M Dark Si Polyval Thin Da Iron-Ma Piedmo Nesic S Red Pa Very Si Other (or problematic	luck (A10) (Prairie Redo lucky Peat o urface (S7) lue Below S ark Surface anganese M ont Floodpla Spodic (TA6 arent Materi hallow Dark Explain in F	LRR K, L, MLRA 149B) bx (A16) (LRR K, L, R) br Peat (S3) (LRR K, L, R) (LRR K, L) Surface (S8) (LRR K, L) (S9) (LRR K, L) Masses (F12) (LRR K, L, R) ain Soils (F19) (MLRA 149B) al (F21) Surface (TF12) Remarks)				
Bomarka:											
No hydric s	soil indicators observ	red at WA-3	Upland plot.								

StreamStats Report

 Region ID:
 MA

 Workspace ID:
 MA20211013183912961000

 Clicked Point (Latitude, Longitude):
 42.34338, -71.40671

 Time:
 2021-10-13 14:39:31 -0400



Basin Characteristics								
Parameter Code	Parameter Description	Value	Unit					
DRNAREA	Area that drains to a point on a stream	0.0587	square miles					
ELEV	Mean Basin Elevation	221	feet					
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	0	percent					
BSLDEM250	Mean basin slope computed from 1:250K DEM	2.934	percent					
DRFTPERSTR	Area of stratified drift per unit of stream length	-100000	square mile per mile					

Parameter Code	Parameter Description	Value	Unit
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
BSLDEM10M	Mean basin slope computed from 10 m DEM	4.177	percent
PCTSNDGRV	Percentage of land surface underlain by sand and gravel deposits	70.16	percent
FOREST	Percentage of area covered by forest	0	percent
ACRSDFT	Area underlain by stratified drift	0.0388	square miles
CAT1ROADS	Length of interstates lmtd access highways and ramps for lmtd access highways, includes cloverleaf interchanges (USGS Ntl Transp Dataset)	0	miles
CAT2ROADS	Length of sec hwy or maj connecting roads; main arteries & hwys not lmtd access, usually in the US Hwy or State Hwy systems (USGS Ntl Transp Dataset)	0	miles
CAT3ROADS	Length of local connecting roads; roads that collect traffic from local roads & connect towns, subdivisions & neighborhoods (USGS Nat Transp Dataset)	0	miles
CAT4ROADS	Length of local roads; generally paved street, road, or byway that usually have single lane of traffic in each direction (USGS Ntnl Transp Dataset)	0.83	miles
CENTROIDX	Basin centroid horizontal (x) location in state plane coordinates	207478.6	meters
CENTROIDY	Basin centroid vertical (y) location in state plane units	898749	meters
CROSCOUNT1	Number of intersections between streams and roads, where the roads are interstate, limited access highway, or ramp (CAT1ROADS)	0	dimensionless
CROSCOUNT2	Number of intersections between streams and roads, where the roads are secondary highway or major connecting road (CAT2ROADS)	0	dimensionless
CROSCOUNT3	Number of intersections between streams and roads, where roads are local conecting roads (CAT3ROADS)	0	dimensionless
CROSCOUNT4	Number of intersections between streams and roads, where roads are local roads (CAT4ROADS)	0	dimensionless
Parameter Code	Parameter Description	Value	Unit
-------------------	--	--------	-------------
CRSDFT	Percentage of area of coarse-grained stratified drift	70.16	percent
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	123	feet per mi
LAKEAREA	Percentage of Lakes and Ponds	0	percent
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	92.2	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	34	percent
LFPLENGTH	Length of longest flow path	0.73	miles
MAXTEMPC	Mean annual maximum air temperature over basin area, in degrees Centigrade	15.3	degrees C
OUTLETX	Basin outlet horizontal (x) location in state plane coordinates	207685	feet
OUTLETY	Basin outlet vertical (y) location in state plane coordinates	899215	feet
PRECPRIS00	Basin average mean annual precipitation for 1971 to 2000 from PRISM	46.8	inches
STRMTOT	total length of all mapped streams (1:24,000- scale) in the basin	0	miles
WETLAND	Percentage of Wetlands	0	percent

Peak-Flow Statistics Parameters [Peak Statewide 2016 5156]					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0587	square miles	0.16	512
ELEV	Mean Basin Elevation	221	feet	80.6	1948
LC06STOR	Percent Storage from NLCD2006	0	percent	0	32.3

Peak-Flow Statistics Disclaimers [Peak Statewide 2016 5156]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Peak-Flow Statistics Flow Report [Peak Statewide 2016 5156]

Statistic	Value	Unit
50-percent AEP flood	4.83	ft^3/s
20-percent AEP flood	8.37	ft^3/s
10-percent AEP flood	11.3	ft^3/s
4-percent AEP flood	15.6	ft^3/s
2-percent AEP flood	19.2	ft^3/s
1-percent AEP flood	23.2	ft^3/s
0.5-percent AEP flood	27.5	ft^3/s
0.2-percent AEP flood	33.8	ft^3/s

Peak-Flow Statistics Citations

Zarriello, P.J.,2017, Magnitude of flood flows at selected annual exceedance probabilities for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2016–5156, 99 p. (https://dx.doi.org/10.3133/sir20165156)

Low-Flow Statistics Parameters [Statewide Low Flow WRIR00 4135]						
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit	
DRNAREA	Drainage Area	0.0587	square miles	1.61	149	
BSLDEM250	Mean Basin Slope from 250K DEM	2.934	percent	0.32	24.6	
DRFTPERSTR	Stratified Drift per Stream Length	-100000	square mile per mile	0	1.29	
MAREGION	Massachusetts Region	0	dimensionless	0	1	

Low-Flow Statistics Flow Report [Statewide Low Flow WRIR00 4135]

Statistic	Value	Unit

Low-Flow Statistics Citations

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0587	square miles	1.61	149
DRFTPERSTR	Stratified Drift per Stream Length	-100000	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1
BSLDEM250	Mean Basin Slope from 250K DEM	2.934	percent	0.32	24.6
Flow-Duration Sta	tistics Flow Report [Statewide Low Fl	ow WRIR00	4135]		
Statistic	Valu	le	Ur	nit	

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0587	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	2.934	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	-100000	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1
August Flow-Duration Statistics Flow Report [Statewide Low Flow WRIR00 4135]					
Statistic	Valu	ıe	Un	it	

Bankfull Statistics Parameters [Bankfull Statewide SIR2013 5155]

Parameter Code	Parameter Name		Value	Units	Min Limit	Max Limit	
DRNAREA	Drainage Area		0.0587	square miles	0.6	329	
BSLDEM10M	Mean Basin Slope from DEM	ו 10m	4.177	percent	2.2	23.9	
Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]							
Parameter Code	Parameter Name	Value	Units	М	in Limit	Max Limit	
DRNAREA	Drainage Area	0.0587	square	miles 0.	07722	940.1535	
Bankfull Statistics Parameters [New England P Bieger 2015]							
Parameter Code	Parameter Name	Value	Units	Mir	n Limit	Max Limit	
DRNAREA	Drainage Area	0.0587	square r	miles 3.7	99224	138.999861	
Bankfull Statistics P	arameters [USA Bieger 2015	5]					
Parameter Code	Parameter Name	Value	Units	Mir	n Limit	Max Limit	
DRNAREA	Drainage Area	0.0587	square r	miles 0.0	7722	59927.7393	
Bankfull Statistics D	isclaimers [Bankfull Statewi	de SIR2013	5155]				
One or more of t unknown errors	he parameters is outside th	e suggeste	d range. Es	stimates were	extrapola	ted with	
Bankfull Statistics F	low Report [Bankfull Statew	ide SIR2013	3 5155]				
Statistic			Va	alue	Uni	t	
Bankfull Width			4.	49	ft		
Bankfull Depth			0.	391	ft		
Bankfull Area			1.	72	ft^2	2	
Bankfull Stream	flow		2.	9	ft^3	3/s	

Bankfull Statistics Disclaimers [Appalachian Highlands D Bieger 2015]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	4.68	ft
Bieger_D_channel_depth	0.497	ft
Bieger_D_channel_cross_sectional_area	2.34	ft^2

Bankfull Statistics Disclaimers [New England P Bieger 2015]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Bankfull Statistics Flow Report [New England P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	11.4	ft
Bieger_P_channel_depth	0.737	ft
Bieger_P_channel_cross_sectional_area	8.15	ft^2

Bankfull Statistics Disclaimers [USA Bieger 2015]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	4.56	ft
Bieger_USA_channel_depth	0.659	ft
Bieger_USA_channel_cross_sectional_area	3.7	ft^2

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bankfull Width	4.49	ft
Bankfull Depth	0.391	ft
Bankfull Area	1.72	ft^2
Bankfull Streamflow	2.9	ft^3/s
Bieger_D_channel_width	4.68	ft
Bieger_D_channel_depth	0.497	ft

Statistic	Value	Unit
Bieger_D_channel_cross_sectional_area	2.34	ft^2
Bieger_P_channel_width	11.4	ft
Bieger_P_channel_depth	0.737	ft
Bieger_P_channel_cross_sectional_area	8.15	ft^2
Bieger_USA_channel_width	4.56	ft
Bieger_USA_channel_depth	0.659	ft
Bieger_USA_channel_cross_sectional_area	3.7	ft^2

Bankfull Statistics Citations

Bent, G.C., and Waite, A.M.,2013, Equations for estimating bankfull channel geometry and discharge for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2013-5155, 62 p., (http://pubs.usgs.gov/sir/2013/5155/) Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G.,2015, Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p. (https://digitalcommons.unl.edu/usdaarsfacpub/1515? utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_can

Probability Statisti	cs Parameters [Perennial Flow Probability]				
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0587	square miles	0.01	1.99
PCTSNDGRV	Percent Underlain By Sand And Gravel	70.16	percent	0	100
FOREST	Percent Forest	0	percent	0	100
MAREGION	Massachusetts Region	0	dimensionless	0	1

Probability Statistics Flow Report [Perennial Flow Probability]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PC
Probability Stream Flowing Perennially	0.687	dim	71

Bent, G.C., and Steeves, P.A.,2006, A revised logistic regression equation and an automated procedure for mapping the probability of a stream flowing perennially in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2006–5031, 107 p. (http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR_2006-5031rev.pdf)

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Application Version: 4.6.2 StreamStats Services Version: 1.2.22 NSS Services Version: 2.1.2

APPENDIX D

Design Plans

PREMARED N: PREMARED N: PROMUTICAL CONSTITUTION PROPAGATION PROPAG			СОVER BANK EC RESTORAT СОVER SHE	90.0E7.M0AM6465 0124-222
	SHEET INDEX 1.0: COVER 2.0: EXISTING CONDITIONS 3.0: RESTORATION PLAN	4.0. LONGI DUINAL FROTILE AND LPROSSELITIONS 5.0. STREAM BED RESTORATION DETAILS 7.0. MISCELLANEOUS DETAILS		- <u> </u> <u>x</u>
STREAM BANK ECOLOGICAL RESTORATION 4 DAWSON DRIVE, SUDBURY, MASSACHUSETTS, 01776 978-618-1686 PERMITTING PLAN SET	IOWN OF SUBBURY, MASSACHUSE IIS JANUARY 24, 2022			

D/__SWCR Projects/2021/626555 Subbury/66655 Plan Set - Standard/1.0 Cover Sheet.dwg, COVER, 3/14/2022 11:26:26 AM, Paula.Green













APPENDIX E

Site Photographs



Photo #1: View of existing stream conditions at the southern end of the property. Western (left) bank is eroding, and eastern (right) bank is undercut. Debris, in the form of tires, cement blocks, and metal pipes is found within the stream. *Facing north*



Photo #2: View of the eastern side of the stream bank. Due to undercutting of the bank, portion of the upland has fallen into the stream (indicated with arrow). *Facing north*.



Photo #3: View of another section of the bank where the ground surface has collapsed into the stream due to severe undercutting . *Facing south*.



Photo #4: View of section of undercut stream bank. Ground surface collapsing into stream. *Facing southeast.*



Photo #5: View of top of bank facing the residential dwelling. Both sides of the bank are upland areas. Eastern bank consists mainly of mature trees while the western bank consists of primarily of shrubs and invasive plant species. *Facing west*.



Photo #6: View of stream S1, proposed for restoration (indicated with arrow), merging with intermittent stream S2. The sparsely vegetated wetland is adjacent to the intermittent stream and is located in the foreground. *Facing south*.

APPENDIX F

List of Abutters

Copy of Abutter Notification Form

Affidavit of Service



Abutters List

Date: January 25, 2022

Subject Property Address: 4 DAWSON DR Sudbury, MA Subject Property ID: M10-0601

Search Distance: 100 Feet

Prop ID: M09-0619 Prop Location: 5 DAWSON DR Sudbury, MA Owner: WILLETTE EUGENE R & JOYCE C Co-Owner: Mailing Address:

5 DAWSON DR SUDBURY, MA 01776

Prop ID: M09-0623 Prop Location: JOAN AVE Sudbury, MA Owner: CAHN WHITNEY B TRUSTEES Co-Owner: MURPHY-CAHN MAURA K & Mailing Address: 1 DAWSON DR SUDBURY, MA 01776

Prop ID: M10-0235 Prop Location: 11 MURRAY DR Sudbury, MA Owner: MACDONOUGH TIMOTHY M & KIMBERL Y Co-Owner: Mailing Address: 11 MURRAY DR SUDBURY, MA 01776

Prop ID: M10-0236 Prop Location: 21 MURRAY DR Sudbury, MA Owner: POOLE JESSICA A & MICHAEL J TR Co-Owner: MURRAY REALTY TRUST Mailing Address: 21 MURRAY DR SUDBURY, MA 01776 print this list

Abutters Report

Prop ID: M10-0602 Prop Location: 8 DAWSON DR Sudbury, MA Owner: GOLLAPALLI DEVIPRASAD R & Co-Owner: SESHADRI HEMALATHA G Mailing Address: 8 DAWSON DR SUDBURY, MA 01776

Prop ID: M10-0650 Prop Location: 0 JOAN AVE Sudbury, MA Owner: AGHASSI BADRI M Co-Owner: Mailing Address: 22 OVERLOOK DRIVE FRAMINGHAM, MA 01701

Massachusetts Interactive Property Map



Polina Safran

From:	Valerie Leonardo <vl@framinghamma.gov></vl@framinghamma.gov>
Sent:	Tuesday, January 25, 2022 3:41 PM
То:	Polina Safran
Subject:	RE: Confirming property address and the most current property owners

EXTERNAL: This email originated from outside SWCA. Please use caution when replying.

Hi Polina,

Yes, the information we reviewed and outlined in your email is correct.

Best regards,

Valerie

Valerie Leonardo, MAA Field Assessor City of Framingham 150 Concord St., #101 Framingham, MA 01702 Web: Framinghamma.gov Phone: 508-532-5415

From: Polina Safran <Polina.Safran@swca.com>
Sent: Tuesday, January 25, 2022 2:00 PM
To: Valerie Leonardo <vl@framinghamma.gov>
Subject: Confirming property address and the most current property owners

CAUTION: This email originated from outside your organization. Do not click links or open attachments unless you recognize and verify the sender and know the content is safe.

Hi Valerie,

Thank you for taking the time to confirm the property owners with me.

Below I have listed out the properties and associated owners that we went over. If you don't mind replying to this email confirming the below information is correct, I would greatly appreciate it.

Framingham Property Owner Information

Property Address

Owner

Owners Address

	Whitney Cahn and Maura Murphy-	
1 Dawson Drive, Framingham	Cahn	1 Dawson Drive, Framingham, MA 01701
22 Overlook Drive East,		
Framingham	Badri M. Aghassi	22 Overlook Drive East, Framingham, MA 0170
20 Overlook Drive East,		
Framingham	Eamon and Mary Michele Delaney	20 Overlook Drive East, Framingham, MA 0170
16 Overlook Drive East,		
Framingham	John and Marilyn Pugh TRS	16 Overlook Drive East, Framingham, MA 0170

Thank you,

Polina

Polina Safran Lead Wetland Scientist

SWCA Environmental Consultants 1900 West Park Dr. Suite 280 Westborough, MA 01581 P 413-992-5114 C 781-801-4973



The contents of this email and any associated emails, information, and attachments are CONFIDENTIAL. Use or disclosure without sender's authorization is prohibited. If you are not an authorized recipient, please notify the sender and then immediately delete the email and any attachments.

One Framingham - Focused on the Future

Please be advised that the Massachusetts Secretary of State considers e-mail to be a public record, and therefore subject to public access under the Massachusetts Public Records Law, M.G.L. c. 66 § 10.

Notification to Abutters Under the Massachusetts Wetlands Protection Act and the Sudbury Wetlands Administrative Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

- A. The name of the **Applicant** is Susan Berry
- B. The Applicant has filed a Notice of Intent with the Sudbury Conservation Commission seeking permission to work in an Area Subject to Protection (Wetland Resource Area and/or Buffer Zone) under the Massachusetts Wetlands Protection Act (General Laws Chapter 131, Sec.40) and the Town of Sudbury Wetlands Administrative Bylaw.
- C. The <u>address</u> of the lot where the activity is proposed: <u>4 Dawson Drive</u>, Sudbury, MA
- D. The **proposed activity** is: Stream bank restoration behind a residential dwelling.

E. A **Public Hearing** regarding this Notice of Intent will be held on: Monday, June 27, 2022 at 6:45 PM.

F. **Public Participation will be via Virtual Means Only** - In light of the ongoing COVID-19 coronavirus outbreak, Governor Baker issued an emergency Order on March 12, 2020, allowing public bodies greater flexibility in utilizing technology in the conduct of meetings under the Open Meeting Law. The Town of Sudbury Conservation Commission greatly values the participation of its citizens in the public meeting process, but given the current circumstances and recommendations at both the state and federal levels to limit or avoid public gatherings, including Governor Baker's ban on gatherings of more than 10 people, together with the present closure of Sudbury Town Hall and other public buildings to the public, the Town has decided to implement the "remote participation" procedures allowed under Governor Baker's emergency Order for all boards, committees, and commissions.

G The public may participate in this meeting via Remote Participation:

From your computer, smart phone or tablet:

- Please go to Sudbury Conservation Website for link to virtual meeting: https://www.sudburytv.org/
- Meeting ID: n/a
- From your phone: **978-639-3366** or **470 250 9358**
- H Copies of the Notice of Intent may be examined by visiting this Website: <u>https://sudbury.ma.us/conservationcommission/meetings/</u>
- I. Copies of the Notice of Intent may be obtained from either The Applicant, or the Applicant's representative Polina Safran , by calling this telephone number: 781-801-4973 between the hours of 9am 5pm

Note: Public Hearing Notice, including its date, time, and place, will be published at least 5 days in advance in either the Sudbury Crier or MetroWest newspapers (at the applicant's expense).



2/36

Amherst Office 15 Research Drive Amherst, Massachusetts 01002 Tel 413.256.0202 Fax 413.256.1092

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

I, <u>Maygan Barber</u>, hereby certify under the pains and penalties of perjury that on <u>June 10, 2022</u>, I gave notification to abutters in compliance with the Massachusetts Wetlands Protection Act and the Sudbury Wetlands Protection Rules and Regulations in connection with the following matter:

A <u>Notice of Intent</u> filed under the Massachusetts Wetlands Protection Act and the Sudbury Wetlands Protection By-law by <u>Susan Berry</u> with the <u>Sudbury Conservation Commission</u> on <u>June</u> <u>13, 2022</u>. The form of notification, and a list of the abutters to whom it was given and their addresses, are attached to the Affidavit of Service.

it and Date June 10, 2022 Name



2136

Amherst Office 15 Research Drive Amherst, Massachusetts 01002 Tel 413.256.0202 Fax 413.256.1092

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

I, <u>Maygan Barber</u>, hereby certify under the pains and penalties of perjury that on <u>June 13, 2022</u>, I gave notification to abutters in compliance with the Massachusetts Wetlands Protection Act and the Sudbury Wetlands Protection Rules and Regulations in connection with the following matter:

A <u>Notice of Intent</u> filed under the Massachusetts Wetlands Protection Act and the Sudbury Wetlands Protection By-law by <u>Susan Berry</u> with the <u>Sudbury Conservation Commission</u> on <u>June</u> <u>13, 2022</u>. The form of notification, and a list of the abutters to whom it was given and their addresses, are attached to the Affidavit of Service.

Name Date June 13, 2022

POSTAL SERVICE			Certifi	cate of Maili	na — Firm
Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender of Pieces Received at Post Office m	Affix Stamp Here Postmark with Date o	f Receipt.	Jde 55	
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4	POOLE JESSICA A & MICHAEL J TR 21 MURRAY DR SUDBURY, MA 01776	.53	1.65		
5.	GOLLAPALLI DEVIPRASAD R & SESHADRI HEMALATHA G 8 DAWSON DR SUDBURY, MA 01776	.5 3	- <u>1</u> 		
	AGHASSI BADRI M 22 OVERLOOK DRIVE FRAMINGHAM, MA 01701	.53	< <u>.</u>		
¹³ S Form 3665, January 2017 (Page of) DSN 7530	47 or				

See Reverse for Instructions

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PS Form 3665, January 2017 (Page ____ of ___) PSN 7530-17-000-5549

See Reverse for Instructions