

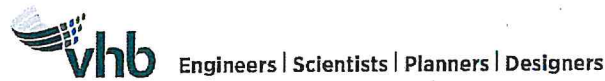
Rec'd
July 26,
2016

Bruce Freeman Rail Trail

Sudbury,
Massachusetts

Prepared for Town of Sudbury
Sudbury, Massachusetts

Prepared by



Watertown, Massachusetts

July 2016



Bruce Freeman Rail Trail

Sudbury,
Massachusetts

Prepared for Town of Sudbury, Town Planning and Community
Development Department
287 Old Sudbury Road
Sudbury, MA,
(978) 639-3387

Prepared by



101 Walnut Street
P.O. Box 9151
Watertown, Massachusetts 02471
(617) 924-1770

July 2016



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- Figure 2—Aerial
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Attachment A – Abutter Information

- Notification to Abutters
- List of Abutters

Attachment B – Existing Conditions Plan

Attachment C – Field Data Forms

Attachment D – Photographic Log

Attachment E – Vernal Pool Investigation Memorandum

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Abbreviated Notice of Resource Area Delineation (ANRAD) Forms

-
- WPA Form 4A
 - Fee Transmittal Form



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
**WPA Form 4A – Abbreviated Notice of
 Resource Area Delineation**

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

Provided by MassDEP:

 MassDEP File Number

 Document Transaction Number

Sudbury
 City/Town

B. Area(s) Delineated

1. Bordering Vegetated Wetland (BVW) See Existing Conditions Plan in Attachment B
 Linear Feet of Boundary Delineated

2. Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:

a. MassDEP BVW Field Data Form (attached)

b. Other Methods for Determining the BVW boundary (attach documentation):

1. 50% or more wetland indicator plants

2. Saturated/inundated conditions exist

3. Groundwater indicators

4. Direct observation

5. Hydric soil indicators

6. Credible evidence of conditions prior to disturbance

3. Indicate any other resource area boundaries that are delineated:

See Existing Conditions Plan in Attachment B

a. Resource Area _____

b. Linear Feet Delineated _____

c. Resource Area _____

d. Linear Feet Delineated _____

C. Additional Information

Applicants must include the following plans with this Abbreviated Notice of Resource Area Delineation. 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. ANRAD (Delineation Plans only)

2. 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.)

3. Plans identifying the boundaries of the Bordering Vegetated Wetlands (BVW) (and/or other resource areas, if applicable).

4. List the titles and final revision dates for all plans and other materials submitted with this Abbreviated Notice of Resource Area Delineation.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

**WPA Form 4A – Abbreviated Notice of
Resource Area Delineation**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Sudbury
City/Town

D. Fees

The fees for work proposed under each Abbreviated Notice of Resource Area Delineation must be calculated and submitted to the Conservation Commission and the Department (see Instructions and Wetland Fee Transmittal Form).

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 the attached Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

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 4A – Abbreviated Notice of
Resource Area Delineation**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Sudbury
City/Town

E. Signatures

I certify under the penalties of perjury that the foregoing Abbreviated Notice of Resource Area Delineation 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 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.

I hereby grant permission, to the Agent or member of the Conservation Commission and the Department of Environmental Protection, to enter and inspect the area subject to this Notice at reasonable hours to evaluate the wetland resource boundaries subject to this Notice, and to require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

I acknowledge that failure to comply with these certification requirements is grounds for the Conservation Commission or the Department to take enforcement action.

1. Signature of Applicant

[Handwritten Signature] (MassDOT)

3. Signature of Property Owner (if different)

[Handwritten Signature]

5. Signature of Representative (if any)

2. Date

7/25/2016

4. Date

7/25/2016

6. Date

For Conservation Commission:

Two copies of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; two copies of the ANRAD Wetland Fee Transmittal Form; and the city/town fee payment must be sent to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; one copy of the ANRAD Wetland Fee Transmittal Form; and a copy of the state fee payment must be sent to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery. (E-filers may submit these electronically.)

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

WPA Form 4A – Abbreviated Notice of Resource Area Delineation

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Sudbury
City/Town

E. Signatures

I certify under the penalties of perjury that the foregoing Abbreviated Notice of Resource Area Delineation 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).

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I acknowledge that failure to comply with these certification requirements is grounds for the Conservation Commission or the Department to take enforcement action.

1. Signature of Applicant

7/18/2016

2. Date

3. Signature of Property Owner (if different)

7/18/2016

4. Date

5. Signature of Representative (if any)

7/18/2016

6. Date

For Conservation Commission:

Two copies of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; two copies of the ANRAD Wetland Fee Transmittal Form; and the city/town fee payment must be sent to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; one copy of the ANRAD Wetland Fee Transmittal Form; and a copy of the state fee payment must be sent to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery. (E-filers may submit these electronically.)

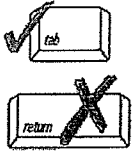
The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

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Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
ANRAD 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.



A. Applicant Information

1. Location of Project:

<u>Railroad ROW</u>	<u>Sudbury</u>
a. Street Address	b. City/Town
<u>0</u>	<u>N/A</u>
c. Fee amount	d. Check number

2. Applicant:

<u>Jody</u>	<u>Kablack</u>	<u>Town Planning & Community Development Department</u>
a. First Name	b. Last Name	
<u>287 Old Sudbury Road</u>		
d. Mailing Address		
<u>Sudbury</u>	<u>MA</u>	<u>01776</u>
e. City/Town	f. State	g. Zip Code
<u>978-639-3387</u>		
h. Phone Number		

3. Property Owner (if different):

<u></u>	<u></u>	<u>Executive Office of Transportation</u>
a. First Name	b. Last Name	
<u>10 Park Plaza, Suite 3170</u>		
d. Mailing Address		
<u>Boston</u>	<u>MA</u>	<u>02116</u>
e. City/Town	f. State	g. Zip Code
<u>617-973-7000</u>		
h. Phone Number		

B. Fees

The fee is calculated as follows for each Resource Area Delineation included in the ANRAD (check applicable project type). The maximum fee for each ANRAD, regardless of the number of Resource Area Delineations, is \$200 activities associated with a single-family house and \$2,000 for any other activity.

Bordering Vegetated Wetland Delineation Fee:

1. <input type="checkbox"/> single family house project	<u></u>	<u></u>	<u></u>
	a. feet of BVW	x \$2.00 =	b. Fee for BVW
2. <input type="checkbox"/> all other projects	<u></u>	<u></u>	<u></u>
	a. feet of BVW	x \$2.00 =	b. Fee for BVW

Other Resource Area (e.g., bank, riverfront area, etc.):

3. <input type="checkbox"/> single family house project	<u></u>	<u></u>	<u></u>
	a. linear feet	x \$2.00 =	b. Fee
4. <input type="checkbox"/> all other projects	<u></u>	<u></u>	<u></u>
	a. linear feet	x \$2.00 =	b. Fee

Total Fee for all Resource Areas: Fee

State share of filing fee: 5. 1/2 of total fee less \$12.50

City/Town share of filing fee: 6. 1/2 of total fee plus \$12.50

Online users: check box if fee exempt.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
ANRAD Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Submittal Requirements

- a.) Send a copy of this form, with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts, to:

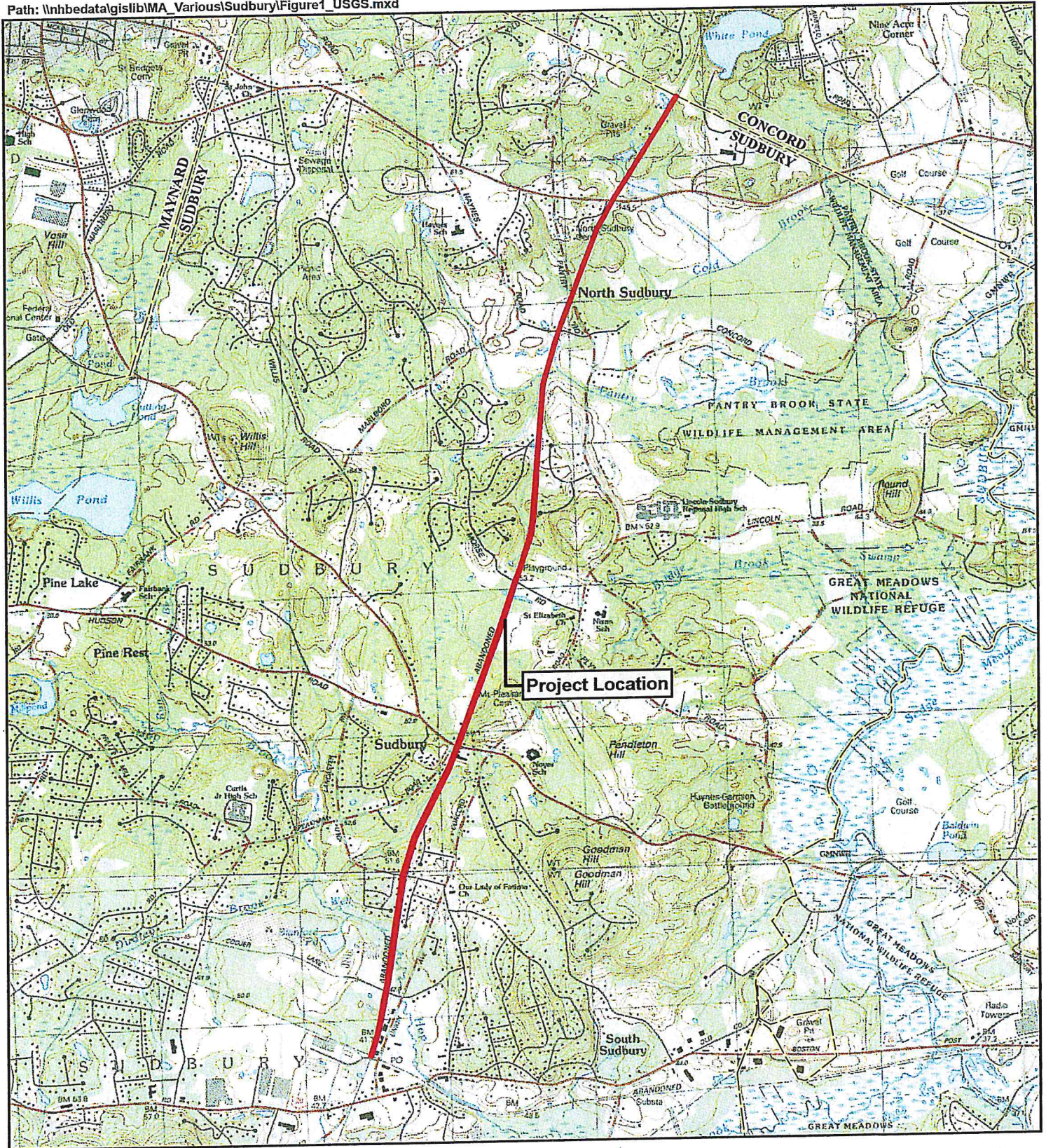
Department of Environmental Protection
Box 4062
Boston, MA 02211



- b.) **To the Conservation Commission:** Send the Abbreviated Notice of Resource Area Delineation; a **copy** of this form; and the city/town fee payment.
- c.) **To DEP Regional Office:** Send one copy of the Abbreviated Notice of Resource Area Delineation (and any additional documentation required as part of a Simplified Review Buffer Zone Project); a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



ANRAD Figures

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- Figure 1—Site Location
 - Figure 2—Aerial
 - Figure 3—NHESP
 - Figure 4—FEMA FIRM

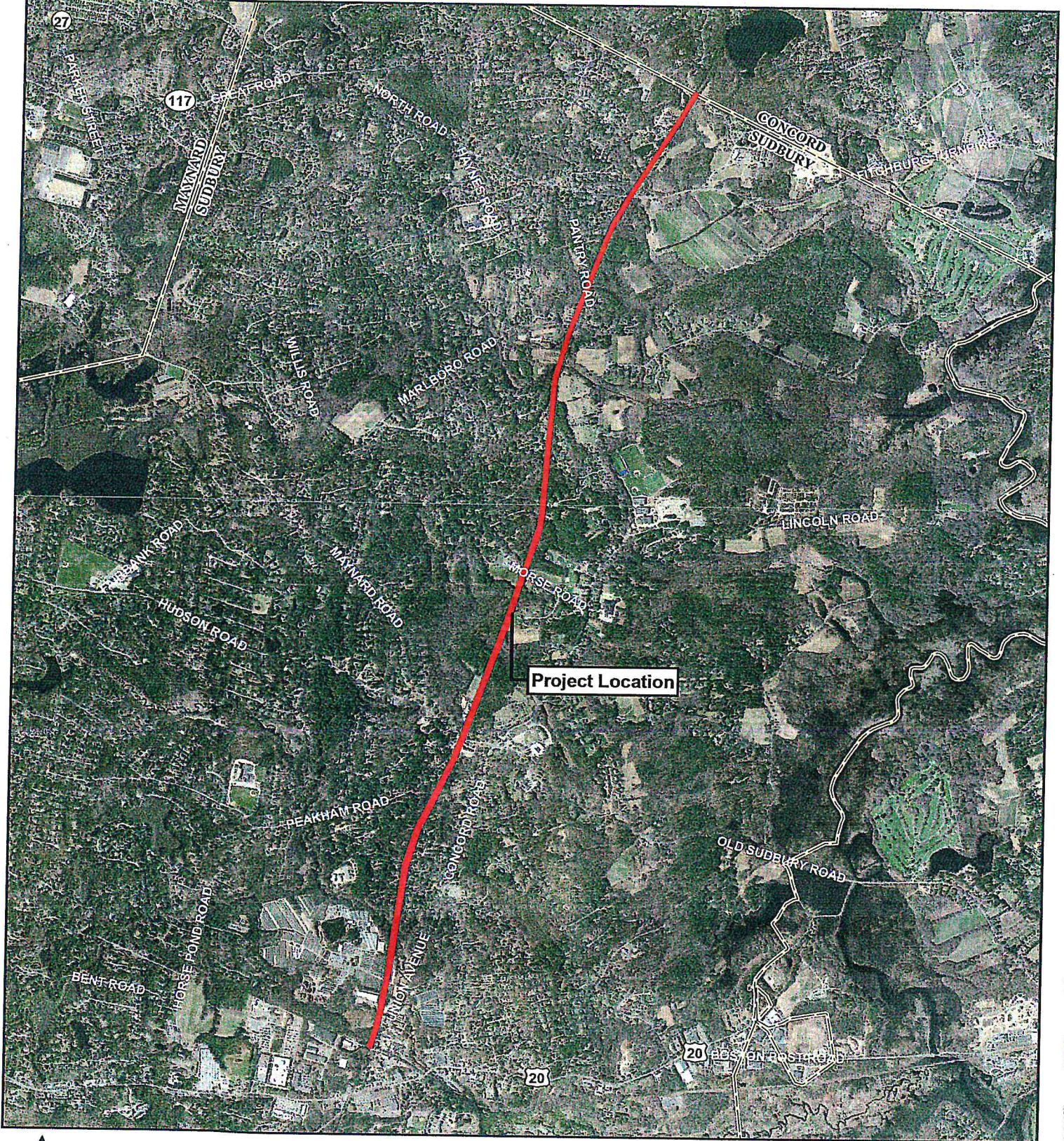


-  Project Location
-  Town Boundaries



Engineers | Scientists | Planners | Designers
101 Walnut Street, Watertown, MA 02472

**Figure 1 – Site Location Map
Bruce Freeman Rail Trail
Right of Way Clearing
Sudbury, Massachusetts**



Project Location

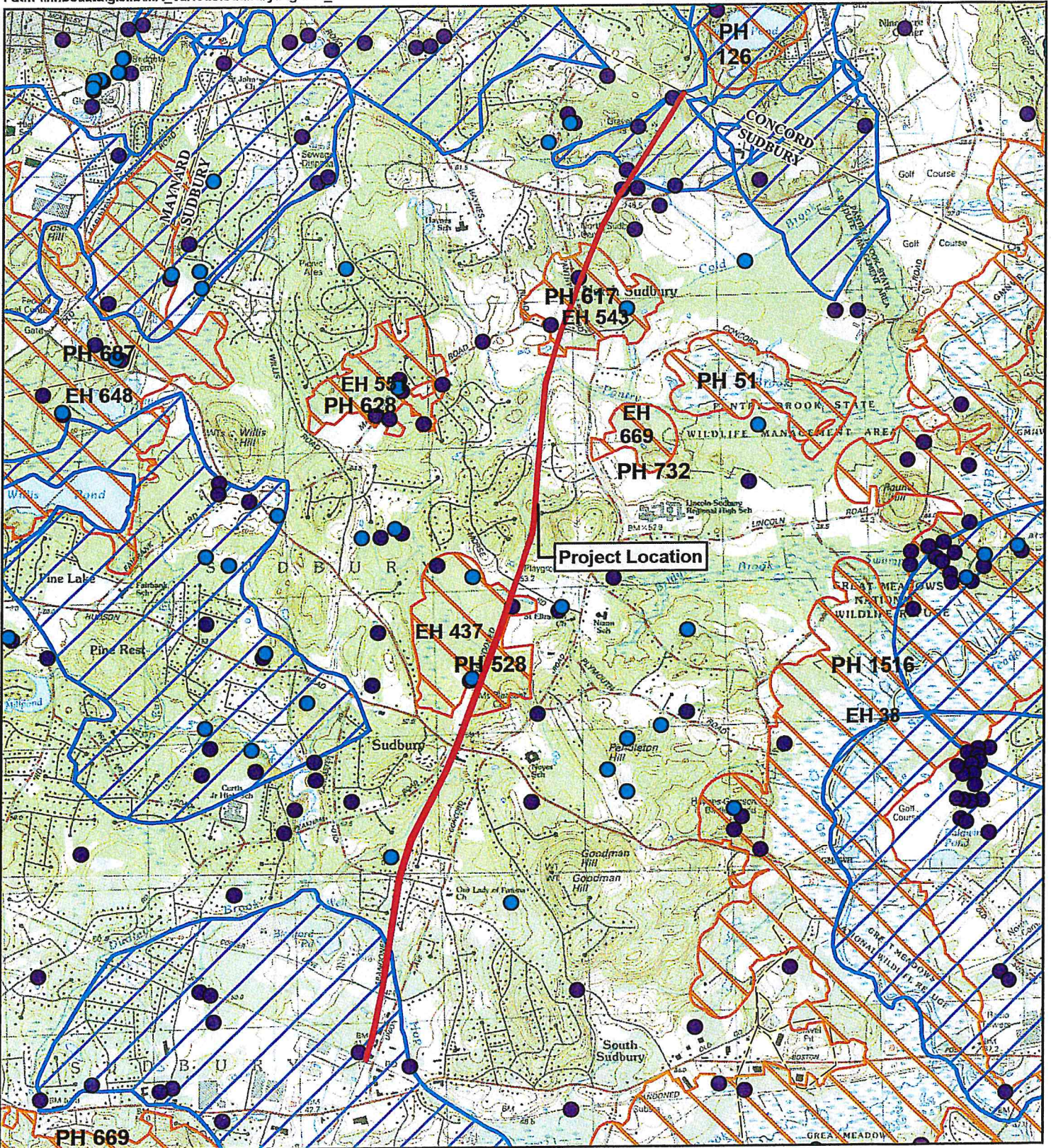


-  Project Location
-  Town Boundaries



Engineers | Scientists | Planners | Designers
101 Walnut Street, Watertown, MA 02472

Figure 2 – Aerial Map
Bruce Freeman Rail Trail
Right of Way Clearing
Sudbury, Massachusetts

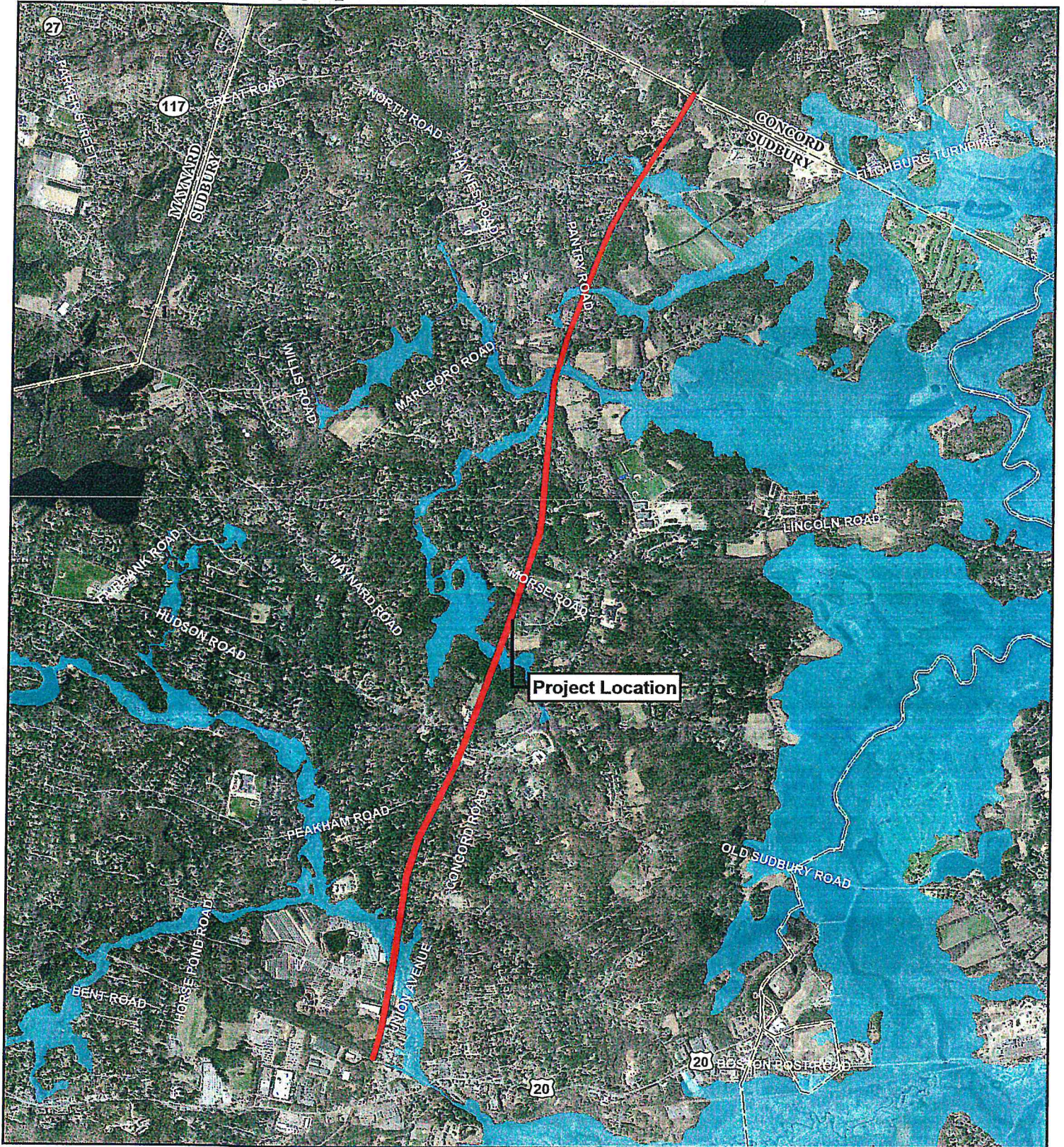





-  Project Location
-  Town Boundaries
-  Certified Vernal Pool
-  Potential Vernal Pool
-  NHESP Priority & Estimated Habitat
-  Zone II Wellhead Protection Area



Engineers | Scientists | Planners | Designers
101 Walnut Street, Watertown, MA 02472

**Figure 3 – NHESP Map
Bruce Freeman Rail Trail
Right of Way Clearing
Sudbury, Massachusetts**



-  Project Location
-  Town Boundaries
- FEMA National Flood Hazard Layer**
-  100yr Floodplain



Engineers | Scientists | Planners | Designers
101 Walnut Street, Watertown, MA 02472

**Figure 4 – FEMA FIRM
Bruce Freeman Rail Trail
Right of Way Clearing
Sudbury, Massachusetts**



ANRAD Narrative

This Abbreviated Notice of Resource Area Delineation (ANRAD) is being filed pursuant to the Massachusetts Wetlands Protection Act, MGL c.131, §40 (WPA) and its implementing regulations, 310 CMR 10.00, as well as the Sudbury Wetlands Administration Bylaw (the Bylaw) and its implementing regulations, Sudbury Conservation Commission Rules and Regulations.

Introduction

The Town of Sudbury is submitting this ANRAD to the Sudbury Conservation Commission in order to verify the nature and extent of Areas Subject to Protection under the WPA and the Bylaw on or near the property located along the Rail Line Right-of-Way (ROW) in the Town of Sudbury (the Site), as depicted on the accompanying Existing Conditions Plan (Attachment B). These areas include Bordering Vegetated Wetlands (BVW), Riverfront Area (RA), Bordering Land Subject to Flooding (BLSF), Adjacent Upland Resource Areas (AURA) and Vernal Pools. A majority of these features are associated with the following streams; Hop Brook, Mineway Brook, Pantry Brook, Saw Mill Brook, and Cold Brook. Refer to the attached Figures and Existing Conditions Plan accompanying this ANRAD for the Site location and details.

Existing Conditions

The Site consists of an abandoned Rail Line ROW that extends from Massachusetts Central Station (Station Road) north to the Sudbury/Concord town line. The ROW is approximately 65 feet wide and the project area will extend 4.44 miles, following a mostly wooded alignment. The ROW is generally a raised embankment that supports a single line of rails and ties; except where they have been removed at road crossings. Refer to Figures 1 and 2 for a Site Location Map and an Aerial Map of the Site and surrounding area.

Within the Site are a number of regulated wetland resources that extend to the toe of the embankment and include BVW, intermittent and perennial streams, ponded areas, certified and potential vernal pools. Several areas of the 100-year floodplain (BLSF) extend to the toe of the existing Rail Line ROW embankment. The Town bylaw also regulates areas within 100 feet of a wetland resource, defined as AURAs.



According to the most recently available data provided by the Massachusetts Natural Heritage and Endangered Species Program¹ (NHESP), portions of the Site are located within Priority Habitat of Rare Species and Estimated Habitat of Rare Wildlife (PH 528/EH 437 and PH 617/EH 543); refer to Figure 3.

According to the Massachusetts Department of Environmental Protection (DEP), the Site is not located in an area designated as an Outstanding Resource Water². The southernmost and northernmost portion of the Site are located within a Zone II Wellhead Protection Area³. The extent of the aforementioned areas have been depicted on Figure 3.

The most recently issued Flood Insurance Rate Map (FIRM)⁴ for the area, produced by the Federal Emergency Management Agency (FEMA), indicates that portions of ROW are within mapped floodplain for the 100-year storm event (Figure 4).

Wetland Resource Areas

Wetland resource areas on or near the Site were delineated by VHB in December 2015 and June 2016. Data points of each BVW were also taken by VHB in June 2016. The delineation was performed in accordance with methods developed by the DEP⁵ and the U.S. Army Corps of Engineers⁶, and with respect to the WPA and the Bylaw. The following sections describe the wetland resource areas that are regulated under the WPA and the Bylaw.

Wetland resource areas identified on or near the Site include Bank, BVW, RA, BLSF, AURA and Vernal Pools. These resource areas are defined under the WPA regulations and Bylaw as follows:

- **Bank:** As defined at 310 CMR 10.54(2), a Bank is the portion of the land surface which normally abuts and confines a water body. The upper boundary of Bank is the first observable break in slope. Banks on the Site are associated with the perennial streams.
- **Bordering Vegetated Wetlands (BVW):** As defined at 310 CMR 10.55(2)(a) and (c), BVWs are "freshwater wetlands that border on creeks, rivers, streams, ponds, and lakes." The boundary of BVW is determined by the presence of 50 percent

¹ NHESP, 2008. Massachusetts Natural Heritage Atlas. 13th Edition.

² DEP, 2010. Designated Outstanding Resource Waters of Massachusetts.

³ DEP, 2012. Approved Wellhead Protection Areas (Zone II).

⁴ Federal Emergency Management Agency, National Hazard Flood Layer, Digital Flood Insurance Rate Map (DFIRM).

⁵ DEP, 1995. Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act.

⁶ USACE, 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0.

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or more of wetland indicator plants and saturated or inundated conditions. BVW areas on the Site were delineated.

- **Riverfront Area (RA):** As defined at 310 CMR 10.58 (a)(3), Riverfront Area is “the area of land between a river’s mean annual high-water line measured horizontally outward from the river and a parallel line located 200 feet away.” Riverfront Area on the Site is associated with the perennial streams.
- **Bordering Land Subject to Flooding (BLSF):** As defined by 310 CMR 10.57(2)(a), BLSF is “an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland.” The boundary of BLSF is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm. Areas identified by FEMA to be within the 100-year floodplain are regulated as BLSF.
- **Adjacent Upland Resource Areas (AURA):** As defined in Section 9 of the Bylaw, in general an Adjacent Upland Resource Area is “all lands within 100 feet of wetland resource areas as enumerated in Section 2.”
- **Vernal Pools:** As defined in Section 9 of the Bylaw, and in addition to the term “vernal pool” in 310 CMR 10.00, any confined basin or depression not occurring in existing lawns, gardens, landscaped areas, or driveways which, at least in most years, holds water for a minimum of two continuous months during the spring and/or summer, contains at least 200 cubic feet of water at some time during most years, is free of adult predatory fish populations, and provides essential breeding and rearing habitat functions for amphibian, reptile, or other vernal pool community species, regardless of whether the site has been certified by the Massachusetts Division of Wildlife and Fisheries.”

Delineated Resource Areas

BVW

Wetlands were observed to be a mix of scrub-shrub and forested red maple-hardwood and silver maple-ash swamp ecological communities. Dominant vegetation occurring in the wetlands included red maple (*Acer rubrum*), silver maple (*Acer saccharinum*), green ash (*Fraxinus pennsylvanica*), swamp white oak (*Quercus bicolor*), silky dogwood (*Cornus amomum*), sensitive fern (*Onoclea sensibilis*) and skunk cabbage (*Symplocarpus foetidus*). These observations are consistent with the mapped MassDEP wetlands for the Site, which are wooded swamp deciduous (WS1), wooded swamp mixed trees (WS3), shrub swamp (SS) and shallow marsh meadow or fen (M). The marsh wetlands were field observed to be in direct connection with Pantry Brook and the northernmost pond, located north of Route 117.

Delineated wetlands were also consistent with the U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) mapping. The mapped wetlands are predominantly categorized as palustrine forested, broad-leaved deciduous, seasonally flooded/saturated (PFO1E). Wetlands associated with Pantry Brook were mapped and

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field observed to be palustrine emergent, persistent, seasonally flooded/saturated (PEM1E). Lastly, there is one palustrine unconsolidated bottom, permanently flooded, excavated (PUBHx) wetland located in the northernmost portion of the Rail Trail.

Many wetlands were delineated along the fringe of commercial and residential properties. As the Rail Trail has been previously disturbed by the initial installation of the rail, many wetlands were observed to be degraded and hold little habitat value for plant and animal species. The wetlands primary function is stormwater drainage, as many delineated features are narrow ditches adjacent to ROW. Wetland soils adjacent to the toe of slope of the Rail Line were observed to be primarily fine sandy loams with trace gravel. The gravel content most likely formed from the deposition of stone/gravel to structurally support the rail.

BLSF

The 100-year floodplain or BLSF crosses the Rail Trail six times. The first BLSF area is associated with Hop Brook and is located just south of Meadow Drive). The second BLSF is located just west of Wake Robin Conservation Area. The third BLSF is associated with Pantry Brook, is located just south of Haynes Road and actually crosses the Rail Trail twice. The fourth BLSF is in connection with Cold Brook and is located at the intersection of the Rail Trail and Pantry Road. The fifth BLSF is located in the Frost Farm Conservation Area and is associated with a Tributary of Cold Brook (refer to Figure 4).

BANK

The Mean Annual High Watermark (MAHW) of each stream was delineated along the Rail Line ROW as Bank. Intermittent streams have a 100-foot Buffer Area that extends from their bank. As discussed in the next paragraph, a 200-foot RA extends horizontally from the bank of perennial streams. Both these areas extending from Bank are shown on the attached plans in Attachment B and labeled as either a "200' RA" or "100' BZ" line.

RA

Riverfront Area extends 200-feet from the Bank flags of the waterbodies classified as perennial streams. The perennial streams delineated along the ROW include Hop Brook (BF 32), Pantry Brook (PS1), and an Unnamed Tributary of Cold Brook (BF 3). All other streams delineated along the ROW are classified as intermittent and therefore do not have a 200-foot RA associated with them.

Vernal Pools

There are 11 mapped vernal pools within the vicinity of the Site; two certified and nine potential, all mapped by the NHESP on October 1, 2008. The vernal pools were investigated on April 24, 2015 in accordance with the March 2009 Guidelines for the Certification of Vernal Pool Habitat and the definition of a Sudbury Vernal Pool in the August 11, 2014 Bylaw. Of the mapped vernal pools, the single certified vernal pool



(CVP) and three potential vernal pools (PVPs) were confirmed to meet the certification requirements (refer to Attachment E). Pools were not investigated during the spring of 2016 because weather conditions were too dry to utilize data to confirm or deny the pool's status. An additional survey will need to be conducted to confirm the findings from 2015.

AURA

In the Town of Sudbury Bylaws, a 100-foot area extends horizontally from all BVW and Bank boundaries and is considered a resource area; AURA. A "100' BZ" line has been drawn on the plans to depict this regulated area.

For a more detailed description of the data plot taken within each wetland area, refer to Attachment C – Field Data. Refer to Attachment B - Existing Conditions Plan for the boundaries and locations of delineated resource areas.

Buffer Zone

A 100-foot buffer zone extends horizontally outward from all BVW and Bank boundaries described above, as defined in 310 CMR 10.02(2)(b).

Summary

This filing describes the Areas Subject to Protection, with respect to the WPA and the Bylaw, on or near the property. These areas include Bank, BVW, RA, BLSF, AURA and Vernal Pools. The Town of Sudbury respectfully requests that the Sudbury Conservation Commission review this filing in order to verify the nature and extent of these areas, and issue an Order of Resource Area Delineation confirming the delineation and the description of these areas in this ANRAD and shown on the accompanying plans.

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Attachment A

Abutter Information

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- Notification to Abutters
 - List of Abutters



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

Pursuant to the requirements of the Massachusetts Wetlands Protection Act (MGL Chapter 131, Section 40), and the Sudbury Wetlands Administration Bylaw, you are hereby notified of the following:

The Sudbury Planning and Community Development Department has filed an Abbreviated Notice of Resource Area Delineation (ANRAD) with the Sudbury Conservation Commission seeking confirmation of the nature and extent of Areas Subject to Protection under the WPA and the Sudbury Wetlands Bylaw on or near the property located along the Rail Line ROW. The Rail Line begins just west of the Station Road/Union Avenue intersection in the Town of Sudbury and continues northward running parallel to Union Avenue. The ROW then turns slightly west and follows in between Meadow Drive and Gerry Drive. The ROW then passes just east of the Peakham Road/Route 27 intersection, turning slightly northeast, crossing Morse Road, Haynes Road, North Road (Route 117) and ultimately ending at the Frost Farm property.

Information regarding this ANRAD may be obtained by calling the Sudbury Conservation Commission at (978) 440-5471, Monday through Wednesday, 9:00 AM to 2:00 PM. The ANRAD may be viewed at the Sudbury Conservation Commission office located at 275 Old Lancaster Road, Sudbury, Massachusetts. You may also call the applicant's representative, Gene Crouch of VHB, Inc., at (617) 607-2783, Monday through Friday between 9:00 AM and 5:00 PM, with questions or to arrange to view the ANRAD.

Copies of the ANRAD may be obtained from the Sudbury Conservation Commission by calling the number above or by calling Gene Crouch at 617-607-2783. You may be charged for a copy of the ANRAD.

The Sudbury Conservation Commission will hold a public hearing on the ANRAD. Notice of the public hearing (including the date, time and place) will be published in a local newspaper at least 5 business days before the hearing, and posted in the Town Hall at least 48 hours in advance. You may also call the Sudbury Conservation Commission at the number identified above to determine the date, time and place of the hearing.

Information on this ANRAD and the Wetlands Protection Act may also be obtained by calling the Northeastern Regional Office of the Massachusetts Department of Environmental Protection at (978) 694-3200.

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abutters_id_field	abutters_owner1	abutters_owner2	abutters_address	abutters_town	abutters_state	abutters_zip	abutters_bookpage	abutters_location
D09-0024	ZEE ISABELLE & JASON C	TRUSTEE THE SHEILA A STEWART	38 HAYNES RD	SUDBURY	MA	01776	43526-485	38 HAYNES RD
D09-0206	STEWART SHEILA A		43 HAYNES ROAD	SUDBURY	MA	01776	54418-312	43 HAYNES RD
D09-0207	DEPOMPEI M EILEEN & DANIEL A		35 HAYNES ROAD	SUDBURY	MA	01776	16644-273	35 HAYNES RD
D09-0400	A SCHOOL FOR SPCL LRNG INC		98 HAYNES ROAD	SUDBURY	MA	01776	12741-409	98 HAYNES RD
D10-0001	RICHARD ARTHUR J & MARGARET A		31 HAYNES RD	SUDBURY	MA	01776	24653-464	31 HAYNES RD
D10-0013	EAST GEORGE H JR &	EAST MARIE ADELE DURANT	108 PANTRY RD	SUDBURY	MA	01776	19927-213	PANTRY RD
D10-0100	SHARKEY PHILIP F & LISA M		55 PANTRY RD	SUDBURY	MA	01776	17734-576	55 PANTRY RD
D10-0101	BOLAND CHRISTOPHER G & ALISON M		24 HAYNES RD	SUDBURY	MA	01776	28689-158	24 HAYNES RD
D10-0208	BYRD PAUL F JR & MAIKE K		51 WINDMILL DR	SUDBURY	MA	01776	16470-262	51 WINDMILL DR
D10-0209	LAFFERRERA JOSEPH & CHARLENE C		47 WINDMILL DRIVE	SUDBURY	MA	01776	24589-486	47 WINDMILL DR
D10-0400	LYMAN KRISTIN E		76 PANTRY RD	SUDBURY	MA	01776	60184-251	76 PANTRY RD
D10-0401	MARCOUX PAUL J II & JOANNE H		70 PANTRY RD	SUDBURY	MA	01776	43235-308	70 PANTRY RD
D10-0502	ILLIANO TARA & MAGAZU RICHARD		122 PANTRY RD	SUDBURY	MA	01776	59281-548	122 PANTRY RD
D10-0503	EAST GEORGE H JR & MARIE A		108 PANTRY RD	SUDBURY	MA	01776	15083-236	108-2 PANTRY RD
E09-0126	SUDBURY VALLEY TRUSTEES INC		18 WOLBACH RD	SUDBURY	MA	01776	14501-291	27 HUNT RD
E09-0127	MCKAIN SUSAN &	STEINER KENNETH	11 HUNT RD	SUDBURY	MA	01776	64158-406	19 HUNT RD
E09-0128	SCHOW JOAN M		5 HUNT RD	SUDBURY	MA	01776	12241-378	11 HUNT RD
E09-0129	ALBEE RICHARD S		70 RIDGE HILL RD	SUDBURY	MA	01776	20726-208	5 HUNT RD
E09-0130	MAHANY DIANNE J & SAPIENZA ALI CE M	TRUSTEE OF THE WALLACK FAMILY	67 THOMPSON DR	SUDBURY	MA	01776	31096-523	70 RIDGE HILL RD
E09-0507	WALLACK ALLAN L & NADINE DONNA		53 THOMPSON DRIVE	SUDBURY	MA	01776	60192-340	67 THOMPSON DR
E09-0509	BLOOM JEFFREY & TIFANY		45 THOMPSON DRIVE	SUDBURY	MA	01776	54638-30	53 THOMPSON DR
E09-0510	WRY CHARLES A JR & RUTHANN		37 THOMPSON DRIVE	SUDBURY	MA	01776	28853-357	45 THOMPSON DR
E09-0511	NEISON C KIRK DIANE P		4 PUFFER LANE	SUDBURY	MA	01776	14592-464	37 THOMPSON DR
E09-0600	SIENA FARMS LLC	VELDMAN GEERTRUIDA	60 WOODMERE DRIVE	SUDBURY	MA	01776	62267-528	MARLBORO RD
E09-0701	KAMEN ROBERT I		68 WOODMERE DR	SUDBURY	MA	01776	16601-169	60 WOODMERE DR
E09-0702	REARDON MARIANNE M & JAMES S		74 WOODMERE DRIVE	SUDBURY	MA	01776	56023-210	68 WOODMERE DR
E09-0703	GANDRUP PETER I & JAYNE L		80 WOODMERE DRIVE	SUDBURY	MA	01776	30297-105	74 WOODMERE DR
E09-0704	ZIESELMAN STEVEN & KIMBERLY		637 CONCORD ROAD	SUDBURY	MA	01776	63749-538	80 WOODMERE DR
E10-0200	WEST PANTRY BROOK FARM LIMITED	PARTNERSHIP	89 SEVEN STAR LN	CONCORD	MA	01776	49200-410	667 CONCORD RD
E10-0700	VERRILL STEPHEN & JOAN		51 MORSE RD	SUDBURY	MA	01742	14819-188	HAYNES RD
F09-0003	SHEDD CAROL A		18 WOLBACH RD	SUDBURY	MA	01776	37232-274	51 MORSE RD
F09-0125	SUDBURY VALLEY TRUSTEES INC		55 HUNT	SUDBURY	MA	01776	14501-293	33 HUNT RD
F09-0217	MCCORMICK DAVID J & MARY ANN	TRUSTEES THE 1 HUNT ROAD	1 HUNT RD	SUDBURY	MA	01776	990-95	55 HUNT RD
F09-0218	CRARY MINER A & HELEN H		49 HUNT RD	SUDBURY	MA	01776	63448-1	1 HUNT RD
F09-0219	LUTZ ERIN K & SUKHIA REM		20 AUSTIN DR	SUDBURY	MA	01776	54795-479	49 HUNT RD
F09-0415	WONG JEAN E & ARTHUR P		34 BISHOP LANE	SUDBURY	MA	01776	16499-269	20 AUSTIN DR
F09-0515	WINNEG ROBERT D & CAROLINE V		42 BISHOP LANE	SUDBURY	MA	01776	28083-576	34 BISHOP LN
F09-0516	HERZOG LOUIS J & ROBIN		45 BISHOP LANE	SUDBURY	MA	01776	36564-274	42 BISHOP LN
F09-0517	SALVIA PETER M & SUSAN W		35 BISHOP LANE	SUDBURY	MA	01776	30726-170	45 BISHOP LN
F09-0518	CLARK IAN & ABIGAIL		29 THOMPSON DR	SUDBURY	MA	01776	57890-7	35 BISHOP LN
F10-0511	FREEDMAN JON R &	FREEDMAN SARAH F	36 HUDSON RD	SUDBURY	MA	01776	25658-242	29 THOMPSON DR
G09-0001	TIGHE LAWRENCE W	THE HUDSON ROAD TRUST #2	259 OLD LANCASTER RD	SUDBURY	MA	01776	33228-393	40 HUDSON RD
G09-0002	TIGHE LAWRENCE W TRS THE HUDSO	THE HUDSON RD TRUST #1	278 OLD SUDBURY RD	SUDBURY	MA	01776	30663-361	36 HUDSON RD
G09-0003	TOWN OF SUDBURY		578 BOSTON POST RD	SUDBURY	MA	01776	24441-588	CONCORD RD
G09-0004	MCCARTHY LAURA B TRUSTEE	THE 24 HUDSON ROAD TRUST	24 HUDSON RD	SUDBURY	MA	01776	39213-381	HUDSON RD
G09-0099	ABRAMS SUSAN F TRS	WILD TURKEY REALTY TRUST	578 BOSTON POST ROAD	SUDBURY	MA	01776	59236-536	24 HUDSON RD
G09-0100	BARTLETT DOROTHY M&MCCARTHY	LAURA B&BARTLETT MARTHA J TRS	278 OLD SUDBURY ROAD	SUDBURY	MA	01776	18121-376	PETERS WAY EXT
G09-0200	TOWN OF SUDBURY	TAX POSSESSION # 167	578 BOSTON POST RD	SUDBURY	MA	01776	13189-604	HUDSON RD
G09-0300	ABRAMS LAURA B TRS	JRH TRUST	578 BOSTON POST RD	SUDBURY	MA	01776	46941-450	CONCORD RD
G09-0805	LIBERATORE RAYMOND D & CLAUDIA		41 CODMAN DR	SUDBURY	MA	01776	47245-590	41 CODMAN DR
G09-0807	RICHARDS JAMES C & SUSAN M		44 CODMAN DR	SUDBURY	MA	01776	24467-551	44 CODMAN DR

G09-0808	MCMAHON WILLIAM P JR &	42 CODMAN DR	SUDBURY	MA	01776	61407-511	42 CODMAN DR
H08-0008	WEAVER JAMES C & MELANIE B	248 OLD LANCASTER ROAD	SUDBURY	MA	01776	12967-255	248 OLD LANCASTER RD
H08-0009	STONE ANDREW	244 OLD LANCASTER ROAD	SUDBURY	MA	01776	57915-510	244 OLD LANCASTER RD
H08-0010	LEFFNER KEN & NANCY TRS	238 OLD LANCASTER RD	SUDBURY	MA	01776	48511-269	238 OLD LANCASTER RD
H08-0011	CHO CHONG M & WAI-WAI	236 OLD LANCASTER RD	SUDBURY	MA	01776	45903-51	236 OLD LANCASTER RD
H08-0012	WOLLENSAK RICHARD J & CLAIRE A	60 PENNYMEADOW RD	SUDBURY	MA	01776	13285-445	60 PENNYMEADOW RD
H08-0015	ENSLEY MICHAEL T & LAURIE A	60 PENNYMEADOW RD	SUDBURY	MA	01776	32069-415	60 PENNYMEADOW RD
H08-0016	ALTERIO DINO R & ROACH MAUREEN	598 PEAKHAM RD	SUDBURY	MA	01776	37859-492	598 PEAKHAM RD
H08-0017	THOMPSON MARY L	604 PEAKHAM RD	SUDBURY	MA	01776	12548-362	604 PEAKHAM RD
H08-0018	WALLETT RAYMOND J & THELMA SOSA	610 PEAKHAM RD	SUDBURY	MA	01776	50342-502	610 PEAKHAM RD
H08-0019	GOLS-CAVALLARO JENNI	594 PEAKHAM RD	SUDBURY	MA	01776	25679-494	594 PEAKHAM RD
H08-0020	DIMAURO MIRIAM	588 PEAKHAM RD	SUDBURY	MA	01776	20764-453	588 PEAKHAM RD
H08-0021	BOND JOHN T & MARY A	596 PEAKHAM ROAD	SUDBURY	MA	01776	12237-715	596 PEAKHAM RD
H08-0045	MCCORMICK DAVID W JR &	226 OLD LANCASTER RD	SUDBURY	MA	01776	53725-60	226 OLD LANCASTER RD
H08-0310	NIGRELLI JAMES J JR &	51 PENNYMEADOW ROAD	SUDBURY	MA	01776	25881-199	51 PENNYMEADOW RD
H08-0311	KNEELAND WILLIAM E JR & ELAINE	43 PENNYMEADOW RD	SUDBURY	MA	01776	12513-278	43 PENNYMEADOW RD
H08-0312	MCCLURE CHRISTOPHER &	35 PENNYMEADOW RD	SUDBURY	MA	01776	47285-246	35 PENNYMEADOW RD
H09-0001	LEWIS ANDREW J & STEPHANIE O	616 PEAKHAM RD	SUDBURY	MA	01776	43412-31	616 PEAKHAM RD
H09-0002	OSTAR BRUCE	303 CONGRESS ST	BOSTON	MA	02210	58156-562	29-3 HUDSON RD
H09-0007	ANDREWS JAMES & ELIZABETH	293 CONCORD RD	SUDBURY	MA	01776	58928-173	0 CONCORD RD
H09-0012	SUDBURY VALLEY TRUSTEES INC	18 WOLBACH RD	SUDBURY	MA	01776	14337-1	30 HUDSON RD
H09-0068	GILMARTIN MATTHEW S & MOLLY F	30 HUDSON RD	SUDBURY	MA	01776	42175-386	WASH BROOK RD
H09-0002	SUDBURY WATER DISTRICT	169 RAYMOND RD	SUDBURY	MA	01776	12668-388	0 CODLER LN
J08-0006	CAVICCHIO PAUL F JR	110 CODLER LANE	SUDBURY	MA	01776	25172-58	41 MEADOW DR
J08-0011	PENDLETON DAVID B & CAROLE E	41 MEADOW DRIVE	SUDBURY	MA	01776	32089-419	220 OLD LANCASTER RD
J08-0012	NICHOLS AMRITA & ROGER W	220 OLD LANCASTER RD	SUDBURY	MA	01776	43631-248	223 OLD LANCASTER RD
J08-0101	KREBS W MICHAEL & BARBARA P	233 OLD LANCASTER RD	SUDBURY	MA	01776	13427-420	219 OLD LANCASTER RD
J08-0102	BARBEAU JOSHUA R & VICTORIA A	219 OLD LANCASTER RD	SUDBURY	MA	01776	55651-169	11 MEADOW DR
J08-0111	LANZA MARK J &	11 MEADOW DR	SUDBURY	MA	01776	45671-478	19 MEADOW DR
J08-0112	ARKIN MATTHEW & ALICIA	19 MEADOW RD	SUDBURY	MA	01776	56672-517	25 MEADOW DR
J08-0113	HARTY DANIEL P	25 MEADOW DRIVE	SUDBURY	MA	01776	14674-367	29 MEADOW DR
J08-0114	LEU JAMES CJR & TRACY GEHAN	29 MEADOW DR	SUDBURY	MA	01776	24771-298	35 MEADOW DR
J08-0115	KRAUSS KEVIN MICHAEL & JODI	35 MEADOW DR	SUDBURY	MA	01776	58399-177	39 MEADOW DR
J08-0116	GEORGE GREGORY A & CHRISTINE	39 MEADOW DRIVE	SUDBURY	MA	01776	57353-44	233 OLD LANCASTER RD
J08-0301	JONES CHERYL	233 OLD LANCASTER RD	SUDBURY	MA	01776	33438-39	14 GERRY DR
J08-0307	DAVIES ADRIAN G & MELINDA J	14 GERRY DR	SUDBURY	MA	01776	38355-267	22 GERRY DR
J08-0308	RODDY JANE HIGHTOWER	22 GERRY DRIVE	SUDBURY	MA	01776	28295-180	4 WASH BROOK RD
J08-0309	MARCELYNAS GARY E & LESLIE A	4 WASH BROOK RD	SUDBURY	MA	01776	16189-509	3 WASH BROOK RD
J08-0311	CUNNINGHAM MICHAEL & JEAN	3 WASH BROOK RD	SUDBURY	MA	01776	49974-258	75 UNION AVE
K08-0050	TUCKER PROPERTIES LLC	75 UNION AVE	SUDBURY	MA	01776	53165-230	65 UNION AVE
K08-0051	MGLVER SCOTT A TRUSTEE	P.O. BOX 810	SUDBURY	MA	01776	63090-389	57 UNION AVE
K08-0052	TUCKER PROPERTIES LLC	75 UNION AVE	SUDBURY	MA	01776	53165-224	39 UNION AVE
K08-0053	BOSEY LIMITED	490 B BOSTON POST RD STE 201	SUDBURY	MA	01776	25735-147	UNION AVE
K08-0055	MCCARTHY LAURA B ET AL TRUSTEES	CAS TRUST	SUDBURY	MA	01776	26825-536	27 UNION AVE
K08-0056	MCNAMARA ROBERT W TRS	578 BOSTON POST RD	SUDBURY	MA	01776	38493-275	UNION AVE
K08-0057	E B REALTY LLC	28 UNION AVE	SUDBURY	MA	01776	36499-275	UNION AVE
K08-0087	MGLVER SCOTT A TRUSTEE	490-B BOSTON POST RD SUITE 201	SUDBURY	MA	01776	52138-522	71 UNION AVE
D10-0024	VROMAN RICHARD J & MICHELLE R	P.O. BOX 810	SUDBURY	MA	01776	63090-389	34 HAYNES RD
C11-0301	Frost Farm Condo Association	150 NORTH RD	SUDBURY	MA	01776	42291-471	150 NORTH RD
C10-0401	FAIRVIEW DEVELOPMENT CORP	P O BOX 367	CONCORD	MA	01742	115-12	0 NORTH RD
C10-0402	MAURER BRUCE D & F JEFFREY	P O BOX 354	CONCORD	MA	01742	9512-83	0 NORTH RD
						45910-223	

0-0006	BROCHU MARY F TRUSTEE	REALTY REALTY TRUST	268 MAIN STREET	ACTON	MA	01720	16775-585	WINDMILL DR
0-0008	BRENNAN PATRICK J & MARY B	196 NORTH RD	SUBBURY	SUBBURY	MA	01776	61678-338	196 NORTH RD
0-0009	FAIRVIEW DEVELOPMENT CORP	P O BOX 367	CONCORD	CONCORD	MA	01742	11659-136	NORTH RD
0-0012	NORMAN JOHN C & DORIS	281 HUNTERS RIDGE RD	CONCORD	CONCORD	MA	01742	13793-342	NORTH RD
0-0013	NORMAN JOHN C & DORIS	281 HUNTERS RIDGE RD	CONCORD	CONCORD	MA	01742	13793-342	NORTH RD
0-0015	SCALZI DOREEN	220 NORTH RD	SUBBURY	SUBBURY	MA	01776	63763-338	220 NORTH RD
0-0201	POPE BRADFORD J	10 WINDMILL DR	SUBBURY	SUBBURY	MA	01776	46785-241	10 WINDMILL DR
0-0210	PINTO CARMINE & MARY A TRS	33 WINDMILL DR	SUBBURY	SUBBURY	MA	01776	29513-353	33 WINDMILL DR
0-0211	REES VIRGIL J	29 WINDMILL DRIVE	SUBBURY	SUBBURY	MA	01776	14447-109	29 WINDMILL DR
0-0212	WEBB SAMUEL L II & BERNE B	21 WINDMILL DR	SUBBURY	SUBBURY	MA	01776	29607-272	21 WINDMILL DR
0-0400	FAIRVIEW DEVELOPMENT CORP	P O BOX 367	CONCORD	CONCORD	MA	01742	45910-223	206-2 NORTH RD
0-0605	LANZENDORF STEPHEN A &	43 HAWES RD	SUBBURY	SUBBURY	MA	01776	59971-156	43 HAWES RD
0-0625	WEST PETER & LISA M	42 HAWES RD	SUBBURY	SUBBURY	MA	01776	59427-539	42 HAWES RD



Attachment B

Existing Conditions Plan



Please Refer to Existing
Conditions Plans that are
attached Separately

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Attachment C

Field Data Forms

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MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: ~~02020~~

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<i>Tree</i> Silver Maple	55%	Y	FACW
Red Maple	20%	N	FAC
<i>Shrub</i> Silky Dogwood	30%	Y	FACW
<i>Herb</i> Cinnamon Fern	40%	Y	FACW
Sensitive Fern	10%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: 7"
- Depth to free water in observation hole: 4"
- Depth to soil saturation in observation hole: 0
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015

map number: Version 12

soil type mapped: 5G-Urbans-Urban Land

hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-4"	10 YR 2/2	
B	4-18"	10 YR 3/2 80%	10 YR 3/4 20%

Remarks:

A-organic silt
B-fine sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion

Yes No

Number of wetland indicator plants
≥ # of non-wetland indicator plants

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BWV

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP-36

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number.	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Silver Maple	60%	50%	Y	FACU
	White Oak	20%	10%	N	FACU
Shrub	White Ash	30%	20%	Y	FACU
Herb	flowering dogwood	10%	8%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW+, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 2
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)
 If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: G5C-UdoloStB-UstbwLand
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-8"	10 YR 3/3	
B	8-18"	10 YR 4/4	

Remarks:

At B- Sand loam w/ gravel

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWI: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Other: _____

Vegetation and Hydrology Conclusion

Yes _____ No _____

Number of wetland indicator plants
 ≥ # of non-wetland indicator plants

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BWI

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-38

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number: D. Dominant Plant (yes or no)	Date of Delineation: E. Wetland Indicator Category*
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)		
Tree	Silver Maple	50%	40%	Y FACW
	Red Maple	40%	40%	Y FAC
Shrub	Green Ash	30%	15%	Y FACW
Herb	Cinnamon Fern	20%	10%	Y FACW
	Sensitive Fern	30%	25%	N FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 4 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: G5G-Urbans - Urban Land
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-2"	10YR 3/1	
B	2-18"	10YR 4/1	10YR 4/3

Remarks: 70%
 A+B- Fine, Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 14"
- Depth to soil saturation in observation hole: 0
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWI: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
 ≥ # of non-wetland indicator plants

Yes _____ No _____

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BWI

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP-38

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____

- Vegetation alone presumed adequate to delineate BWV boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWV boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree white Bark Ash white oak	40% 10%	Y N	FACU FACU
Shrub white Ash Birch (Paper Birch)	20%	Y	FACU
Herb mudwort fern	20%	Y	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

if vegetation alone is presumed adequate to delineate the BWV boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

DP-39

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	B. Percent Cover (or basal Area)	C. Percent Dominance		D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<i>Tree</i> American Elm	60%	40%	Y		FACW
<i>Shrub</i> Green Ash	30%	10%	Y		FACW
<i>Herb</i> Sensitive Fern	50%	40%	Y		FACW
<i>Herb</i> Heartleaf Grass Deertongue	10%	10%	N		FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations, if any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no
 If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 12"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: G5C-Ub-ABs-Ub-n-L-mel
 hydric soil inclusions: Ne

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-4"	10YR 2/2	
B	4-18"	10YR 4/1	10YR 4/3

Remarks: 90% 10Y
A+B: Fine, Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present: Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

VPDP 39

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)
Tree Sugar Maple	40%	50%	Y FACU
White Oak	10%	5%	N FACU
Shrub White Oak	25%	15%	Y FACU
Herb May Apple	20%	10%	Y FACU

* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: G5C-Urbans-Urbans L_{end}
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-12"	10 YR 3/3	
B	12-18"	10 YR 4/2	

Remarks: A 18: Fine Sand

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Other: ~~_____~~

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:	_____	<input checked="" type="checkbox"/>
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP 40

MassDEP Bordered Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____

- Check all that apply:
- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree	Swamp White Oak 40%	30%	Y	FACW
	Red Maple 10%	5%	N	FAC
Shrub	Silky Dogwood 25%	10%	Y	FACW
	American Elm 5%	2%	N	FACW
Herb	Sensitive Fern 40%	20%	Y	FACW
	Cattails 10%	5%	N	OBL
	Skunk Cabbage 5%	2%	N	OBL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 8"
- Depth to soil saturation in observation hole: 0
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 52A - Fredtown Muck, 0-1% slopes
 hydric soil inclusions: Yes

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-7"	10YR 2/1	
B	7-18"	10YR 3/1	10YR 3/3

Remarks:

A - Mucky Mineral
B - Fine, Sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP 40

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BWV boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWV boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	white oak	60%	50%	Y	FACU
	white ash	20%	20%	N	FACU
Shrub	Tatarian Honeysuckle	25%	10%	Y	FACU
Herb	Meadow Sedge	30%	20%	Y	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40), plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 3
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)
 If vegetation alone is presumed adequate to delineate the BWV boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 52A-Fine Brown Muck, 0-1% Slopes
 hydric soil inclusions: Yes

Are field observations consistent with soil survey? yes
 no
 Remarks:

Other Indicators of Hydrology: (check all that apply & describe)
 Site Inundated: _____

Depth to free water in observation hole: _____

Depth to soil saturation in observation hole: _____

Water marks: _____

Drift lines: _____

Sediment Deposits: _____

Drainage patterns in BVW: _____

Oxidized rhizospheres: _____

Water-stained leaves: _____

Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10 YR 3/3	
B			

Remarks:

A - Fine, Sandy Gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BVW	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-35

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree Silver Maple	60%	40%	Y	FACW
Red Maple	10%	5%	N	FAC
Shrub American Elm	30%	10%	Y	FACW
Herb Skunk Cabbage	70%	40%	Y	OBL
Cinnamom fern	10%	5%	N	FACW
Sensitive fern	5%	2%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

if vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 10"
- Depth to soil saturation in observation hole: 0"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 52A-Fredtown Made 10-19-05
 hydric soil inclusions: yes

Are field observations consistent with soil survey? yes
 no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-6"	10YR 3/2	
B	6-18"	10YR 3/3 80%	10YR 3/5 20%

Remarks: A/B Fine, Sandy loam

3. Other: ~~_____~~

Conclusion: Is soil hydric? yes no

Other: Stunted Reeds

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree White Oak	40%	Y	FACU
Sugar Maple	10%	N	FACU
Shrub Tatarian Honeysuckle	10%	Y	FACU
Herb Bedstraw	30%	Y	FACU

* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 file/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 52A-Fredon Muck, 0-1% slopes
 hydric soil inclusions: Yes

Are field observations consistent with soil survey? yes no
 Remarks:

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR 3/4	
B			

Remarks: A - Sand loam w/ Gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:	_____	<input checked="" type="checkbox"/>
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP 33

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree: Silver Maple	60%	Y	FACW
Red Maple	15%	N	FAC
Shrub: Silky Dogwood	30%	Y	FACW
Herb: Jewel Weed	80%	Y	FACW

* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? (yes/no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 6"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: 255B - Windsor Leamy Sand 3-8% slopes
hydric soil inclusions: NO

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-9"	10 YR 2/1	
B	9-18"	10 YR 3/1	10 YR 3/3

Remarks: 90% 10%

A+B: Fine, Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
≥ # of non-wetland indicator plants

Yes No

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BVW

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UP DP 33

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Sugar Maple	60%	50%	Y	FACU
Shrub	Norway Spruce	5%	5%	N	UPL
	Latvian Honeysuckle	20%	15%	Y	FACU
Herb	Old Witch Grass	15%	10%	Y	FACU
	Hazel				

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

file/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: 255B - Windsor Loamy Soil / 3-0% clay
hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10 YR 3/2	
B	3-18"	10 YR 4/2	

Remarks:

A + B Fine Sandy Loam with Gravel

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWI: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Other: _____

Vegetation and Hydrology Conclusion

Yes No

Number of wetland indicator plants
≥ # of non-wetland indicator plants

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BWI

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-32

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Silver Maple	60%	50%	Y	FACW
	Red Maple	10%	5%	N	FAC
Shrub	Green Ash	10%	5%	Y	FACW
Herb	Skunk cabbage	40%	20%	Y	OBL
	Sensitive fern	10%	5%	N	FACW
	Cinnamon Fern	5%	3%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? (yes/no) yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 14"
- Depth to soil saturation in observation hole: 3"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 255B-WindSor Loamy Sw, 3-8% slopes
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10YR 2/1	
B	3-18"	10YR 3/2	10YR 3/4

Remarks: 70% Sandy 30% Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UP DP - 32

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree	50% 5%	NA N	FAC
Red Pine			FACU
Sugar Maple	60%	Y	FACU
White oak	30%	Y	FACU
Herb	20%	Y	FACU
Maidenhair fern			

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 3
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

if vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes No

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 255B-W¹ - Windsor Loamy Sand, 3-8% b3kds
 hydric soil inclusions: No

Are field observations consistent with soil survey? Yes No

Remarks:

2. Soil Description

Horizon Depth Matrix Color Mottles Color
 A 0-18" 10YR 3/3

B

Remarks:

Sand Loam with Gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion

Yes No

Number of wetland indicator plants
 ≥ # of non-wetland indicator plants

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BVW

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-31

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary; fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary; fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Trees	Swamp white Oak	30%	25%	Y	FACW
	Silver Maple	20%	15%	Y	FACW
Shrubs	Silky Dogwood	30%	20%	Y	FACW
Herbs	Jewel weed	40%	30%	Y	FACW
	Sensitive Fern	10%	5%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 4

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 255B - Windsor L_{conv} S_{uv} 3-8% s_h 0-5
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10YR 2/2	
B	3-18"	10YR 3/1	10YR 3/3

Remarks: 80% 20%

A+B: Sandy. Silt loam

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 0"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____

- Check all that apply:
- Vegetation alone presumed adequate to delineate BWV boundary: fill out Section I only
 - Vegetation and other indicators of hydrology used to delineate BWV boundary: fill out Sections I and II
 - Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number.	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Sugar Maple	40%	Y	FACU
Red Oak	10%	N	FACU
Shrub Multifloral Rose	30%	Y	FACU
Herb Mullethair fern	20%	Y	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:
 Number of dominant wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? no

Number of dominant non-wetland indicator plants: 3

If vegetation alone is presumed adequate to delineate the BWV boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: \rightarrow 55B-Winter Loamy Sand, 0-3% s.l. sp. 5
hydric soil inclusions: NO

Are field observations consistent with soil survey? yes no
Remarks: _____

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-18" 10YR3/3

B

Remarks: _____

A-Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants \geq # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP 26

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree Silver Maple	60%	55%	Y	FACW
Shrub American Elm	30%	20%	Y	FACW
Herb Cinnamon fern Sensitive fern Jewel weed	40%	20%	Y	FACW
	15%	5%	N	FACW
	5%	2%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

file/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 255B - Windsor-Lesmy Sand, 3-8% Slopes
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-9"	10YR 2/1	
B	9-18"	10YR 3/2	10YR 3/5

Remarks: 90% 10%
 4+8: Fine, Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 8"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Other: _____

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
 ≥ # of non-wetland indicator plants

Yes No

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BVW

Submit this form with the Request for Determination of Applicability or Notice of Intent.

VPDP26

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	E. Wetland Indicator Category*
	B. Percent Cover (or basal Area)	C. Percent Dominance			
Tree Sugar Maple	40%	30%	Y		FACU
Red Pine	10%	5%	N		FACU
Shrub Tatarian Honeysuckle	30%	25%	Y		FACU
Herb May Apple	20%	10%	Y		UPL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 255B-Loamy Fine Sand / 3-8% Slopes
 hydric soil inclusions: NO

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR 3/3	
B			

Remarks: Sand loam with gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-25

MassDEP Bordered Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	E. Wetland Indicator Category*
	B. Percent Cover (or basal Area)	C. Percent Dominance			
<i>Trees</i> Silver Maple	40%	30%	Y		FACW
Red Maple	10%	5%	N		FAC
Swamp white oak	5%	2%	N		FACW
Silky Dogwood	30%	20%	Y		FACW
<i>Herb</i> Skunk Cabbage	20%	15%	Y		OBL
Cinnamon fern	5%	2%	N		FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: 420C-Carbon fine sandy loam, 8-15%
hydric soil inclusions: NO

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10YR 3/2	
B	3-18"	10YR 4/1	10YR 4/3

Remarks: 90% 10%

A+B: Fine, Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 4"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

VPDP 25

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Sugar Maple	40%	Y	FACU
Red Maple	5%	N	FAC
Shrub Tatarian HoneySuckle	25%	Y	FACU
Herb Maidenhair fern	30%	Y	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations, if any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 3
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)
 if vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: 420C-Caten Fine S. suby loam 8-15% slopes
hydric soil inclusions: No

Are field observations consistent with soil survey? yes no

Remarks:

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWI: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-18" 10YR3/3

B

Remarks:

Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWI	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-21

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BWV boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWV boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Silver Maple Swamp white Oak	40% 40%	30% 30% 20%	Y Y Y	FACW FACW FACW
Shrub	American Elm Sweetgum	25%			
Herb	Jewelweed Cinnamon fern Skunk cabbage Sensitive Fern	5% 5% 40% 15%	2% 2% 10% 5%	N N Y N	FACW FACW OBL FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c. 731, s. 40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 4

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BWV boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: 420C - Carbon Fine Sandy Loam ⁸⁻¹⁵ slopes
hydric soil inclusions: Ng ^{100%}

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-6"	10YR2/2	
B	6-18"	10YR 2/2 80%	10YR 3/1 20%

Remarks: A+B-Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 4"
- Depth to soil saturation in observation hole: 0"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWI: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Other: _____

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWI	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

URDP-21

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation		Observation Plot Number:		Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*	
Tree	White Ash 50% Sugar Maple 10%	40% 5%	Y N	FACU FACU	
Shrub	Multifloral Rose 30% Tatarian Honeysuckle 10%	25% 10%	Y N	FACU FACU	

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:
 Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

if vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes
no

title/date: Middlesex County Soil Survey/ Sept 28, 2015
map number: Version 12
soil type mapped: ^{B-15} 420C-Caden Fine Sandy loam, 20% slopes
hydric soil inclusions: No

Are field observations consistent with soil survey? Yes no
Remarks:

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-18" 10YR 3/3

B

Remarks:

A - Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	—	✓
Wetland hydrology present:		
Hydric soil present	—	✓
Other indicators of hydrology present	—	✓
Sample location is in a BWV	—	✓

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP 22

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number.		Transect Number:	Date of Delineation:
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree	40%	40%	Y	FACW
Silver Maple				FAC
Red Maple	10%	8%	N	
Shrub	30%	25%	Y	FACW
Silky Dogwood				
Herb	10%	10%	Y	FACW
Sensitive Fern				

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants:

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 6"
- Depth to soil saturation in observation hole: 3"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 420C-Carbon Fine Sandy Loam, 8-15% slopes
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-4"	10YR2/2	
B	4-18"	10YR3/1 (80%)	10YR3/3 (20%)

Remarks:

A+B: Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP22

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree Sugar Maple	60%	50%	Y	FACU
Red Pine	20%	10%	N	FAC
Shrub Tadpole Honey Suckle	100%	10%	Y	FACU
Multiflora Rose	5%	5%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 2
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWI: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 420C-Carbon Fine sandy loam, 8-15% slopes
 hydric soil inclusions: **No**

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-18" 10YR4/3

B _____

Remarks: _____

A - Fine Sandy loam with gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:	_____	<input checked="" type="checkbox"/>
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWI	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP20

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Swamp White Oak	45%	40%	Y	FACW
	Green Ash	15%	10%	N	FACW
Shrub	American Elm	20%	20%	Y	FACW
Herb	Sensitive Fern	20%	15%	Y	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 14"
- Depth to soil saturation in observation hole: 0
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
no
title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12
soil type mapped: 420C-Caden Fine Sandy loam B-5% slopes
hydric soil inclusions: NO

Are field observations consistent with soil survey? yes no
Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	<u>0-4"</u>	<u>10YR 3/2</u>	
B	<u>4-8"</u>	<u>10YR 4/1</u>	

Remarks: (70%) (30%)
A & B - Fine sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
≥ # of non-wetland indicator plants

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BVW

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP20

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	White Oak	40%	35%	Y	FACU
	Sugar Maple	5%	5%	N	FACU
Shrub	Multiflora Rose	50%	40%	Y	FACU
	Red Oak	10%	5%	N	FACU

* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 2
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

if vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: *U20c - Carbon Fine Sandy loam, 8-15% clay*
hydric soil inclusions: *No*

Are field observations consistent with soil survey? yes no

Remarks:

Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-18" 10YR4/2

B

Remarks:

A - Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes: no:

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	___	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	___	<input checked="" type="checkbox"/>
Other indicators of hydrology present	___	<input checked="" type="checkbox"/>
Sample location is in a BVW	___	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP 19

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary. fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Silver Maple	50%	40%	Y	FACW
	Swamp White Oak	10%	5%	N	FACW
	Red Maple	10%	5%	N	FAC
Shrub	Silky Dogwood	30%	20%	Y	FACW
Herb	Jewel Weed	40%	20%	Y	FACW
	Cinnamon Fern	15%	5%	N	FACW
	Skunk Cabbage	10%	5%	N	OBL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes No
 if vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 11"
- Depth to soil saturation in observation hole: 4"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: 256A-Deerfield loamy Sand, 0-3% steps
hydric soil inclusions: No

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10 YR 2/2	
B	3-18"	10 YR 3/3	10 R 3/5

Remarks:

A+B Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants \geq # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP 19

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____

- Check all that apply:
- Vegetation alone presumed adequate to delineate BVW boundary; fill out Section I only
 - Vegetation and other indicators of hydrology used to delineate BVW boundary; fill out Sections I and II
 - Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)		C. Percent Dominance	D. Dominant Plant (yes or no)
Tree	Red Pine	45%	40%	Y	FACU
	Sugar Maple	10%	10%	N	FACU
Shrub	Multiflora Rose	15%	10%	Y	FACU
Herb	Marysuckle	20%	15%	Y	UPL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c. 131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: 256A-Deerfield loamy Sand, 0-3% slopes
hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-18"

10YR3/3

B

Remarks:

A-Fine Sandy loam

3. Other:

Conclusion: is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	✓
Wetland hydrology present:		
Hydric soil present	_____	✓
Other indicators of hydrology present	_____	✓
Sample location is in a BWV	_____	✓

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP17

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number: D. Dominant Plant (yes or no)	Date of Delineation: E. Wetland Indicator Category*
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree Swamp White Oak	55%	50%	Y	FACW
Red Maple	20%	10%	N	FAC
Silver Maple	15%	5%	N	FAKW
Shrub Green Ash	30%	20%	Y	FACW
American Elm	10%	10%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes No

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept 28, 2015
 map number: Version 12
 soil type mapped: 256A - Deerfield Loamy Sand / 0-3% slopes
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes
 no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10YR2/2	
B	3-18"	10YR3/1	10YR3/3

Remarks: 80%
 A+B - Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes
 no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 8"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP17

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number: D, Dominant Plant (yes or no)	Date of Delineation: E. Wetland Indicator Category*
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree White Oak	40%	40%	Y	FACU
Red Pine	15%	15%	N	FACU
Red Maple	10%	5%	N	FAC
Shrub Multiflora Rose	25%	20%	Y	FACU
Flowering dogwood	5%	5%	N	FACU

* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: Number of dominant non-wetland indicator plants: 2
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 256A - Peatfield Loamy Sand, 0-3 3/8 steps
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

Horizon Depth Matrix Color Mottles Color
 A 0-18" 10YR4/4

B

Remarks: _____

A - Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants \geq # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-13

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____

- Check all that apply:
- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 - Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 - Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Silver Maple	50%	Y	FACW
Shrub American Elm	10%	N	FACW
Red Maple	5%	N	FAC
Green Ash	30%	Y	FACW
Herb Skunk Cabbage	25%	Y	OBL
Jewel Weed	5%	N	FACW
Sensitive Fern	5%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 6"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo, other): _____

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 51A-Sensar Muck, 0-1% Steps
 hydric soil inclusions: ✓ 165

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-4"	10YR3/2	
B	4-18	10YR4/1 80%	10YR4/4 20%

Remarks: Fine, Sandy, Lean

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion		Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:			
Hydric soil present		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UP DP 13

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____

- Check all that apply:
- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 - Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 - Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	White Oak	40%	35%	Y	FACU
	White Ash	15%	10%	N	FACU
	Sugar Maple	5%	5%	N	FACU
Shrub	Multiflora Rose	20%	20%	Y	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 51A, Summer Muck, 0-19%^{loam}
 hydric soil inclusions: ⁶⁵

Are field observations consistent with soil survey? yes
 no

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR 3/3	
B		10YR 3/3	

Remarks:

A-Fine Sandy loam with gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	✓ _____
Wetland hydrology present:		
Hydric soil present	_____	✓ _____
Other indicators of hydrology present	_____	✓ _____
Sample location is in a BWV	_____	✓ _____

Submit this form with the Request for Determination of Applicability or Notice of Intent.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation		Observation Plot Number:		Transect Number:		Date of Delineation:	
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*			
Tree Swamp White Oak	60%	50%	Y	FACW			
Silver Maple	20%	15%	N	FACW			
Red Maple	5%	5%	N	FAC			
Shrub Green Ash	25%	20%	Y	FACW			
American Elm	5%	5%	N	FACW			

* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes No

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 16"
- Depth to soil saturation in observation hole: 6"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept 28, 2015
 map number: Version 12
 soil type mapped: 51A Swanton Muck, 0-1 1/2 slopes
 hydric soil inclusions: yes

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-4"	10YR2/2	
B	4-18"	10YR3/3	10YR3/5

Remarks: 40% 10%

A+B-Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

VPDP15

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree White Oak	55%	Y	FACU
White Ash	20%	N	FACU
Syc. Maple	10%	N	FACU
Shrub Multi-Flora Rose	30%	Y	FACU
Flowering Dogwood	5%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: Number of dominant non-wetland indicator plants: 2
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

if vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: *S(A) ^{Summer Muck} 0-1% slopes*
 hydric soil inclusions: *Yes*

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
---------	-------	--------------	---------------

A	0-18"	10YR3/3	
B			

Remarks:

A-Fine Sandy loam

3. Other:

Conclusion: is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants \geq # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BVW	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP14

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number: D. Dominant Plant (Yes or no)	Date of Delineation: E. Wetland Indicator Category*
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree Green Ash	40%	35%	Y	FACW
Shrub Silver Maple	10%	5%	N	FACW
Shrub Silky Dogwood	25%	20%	Y	FACW
Herb Skunk Cabbage	30%	25%	Y	OBL
Herb Sensitive Fern	10%	5%	N	FACW
Herb Jewelweed	5%	5%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes No

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept 28, 2015
 map number: Version 12
 soil type mapped: 51A Swamps, Muck, 0-1% S, 1% clay
 hydric soil inclusions: yes

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-5"	10YR2/2	
B	5-18"	10YR3/1	10YR 3/4 (30%)

Remarks:

A+B - Sand loam

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 14"
- Depth to soil saturation in observation hole: 2"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Other: _____

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
 ≥ # of non-wetland indicator plants

Yes No

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BVW

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP/14

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BWV boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWV boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree				
Sugar Maple	45%	40%	Y	FACU
White Ash	10%	5%	N	FACU
Red Pine	5%	2%	N	FACU
Shrub				
Taxodium Horseshoe	20%	20%	Y	FACU
Flowering Dogwood	5%	5%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BWV boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 51A7 Swamps Muck, 0-1% slopes
 hydric soil inclusions: V₆₅

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR4/2	
B			

Remarks:

A - Sand loam with gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP42

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Silver Maple	55%	50%	Y	FACW
	Sweetgum	20%	15%	N	FACW
Shrub	Green Ash	30%	30%	Y	FACW
	Silky Dogwood	10%	5%	N	FACW
	American Elm	5%	2%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes No

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 12"
- Depth to soil saturation in observation hole: 2"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: 407D: Ch. after fine Sandy loam, 15-25% / silty
hydric soil inclusions: NO

Are field observations consistent with soil survey? yes no
Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-5"	10YR3/2	
B	5-18"	10YR4/1	10YR4/3

Remarks: 80% A+B - Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP42

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)		
Tree White Ash	45%	40%	Y	FACU
Shrub Sugar Maple	10%	5%	N	FACU
Red Maple	5%	2%	N	FAC
Flowering Dogwood	30%	25%	Y	FACU
Mult. Flea Rose	5%	5%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 2
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 407D - Charleston Fine Sandy Loam, 15-35%
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR3/4	
B			

Remarks:

A - Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:	_____	<input checked="" type="checkbox"/>
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BVW	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP9

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I:

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Swamp White Oak	45%	Y	FACW
Silver Maple	15%	N	FACW
Shrub Silky Dogwood	25%	Y	FACW
Green Ash	5%	N	FACW
Herb Skunk Cabbage	20%	Y	OBL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c. 131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 2'
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: CA Scarborough Mv Clay Fine Sandy loam
 hydric soil inclusions: Yes
 Are field observations consistent with soil survey? yes no
 Remarks: 0-3% no slopes

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10YR3/2	
B	3-18"	10YR4/1	10YR4/3

Remarks: 80% 20%
A+B - Fine Sandy Loam
 3. Other: _____

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants \geq # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

UPDP9

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number.		Transect Number: D. Dominant Plant (yes or no)	Date of Delineation: E. Wetland Indicator Category*
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree White Oak	45%	45%	Y	FACU
Sugar Maple	10%	10%	N	FACU
Red Pine	5%	5%	N	FACU
Shrub Flowering Dogwood	20%	15%	Y	FACU
Herb Maidenhair fern	15%	10%	Y	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes No

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: *GA Sand loam with fine sandy clay, 0-35%*
hydric soil inclusions: *Yes*

Are field observations consistent with soil survey? Yes No

Remarks:

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-18"

10YR/12

B

Remarks:

A-Sand loam with ground

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Other: _____

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP8

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BWV boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWV boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)		
Tree Swamp White Oak	40%	35%	Y	FACW
Green Ash	10%	10%	N	FACW
Shrub Silky Dogwood	30%	30%	Y	FACW
Herb Skunk Cabbage	10%	10%	Y	OBL
Sensitive Fern	2%	2%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: _____ Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BWV boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 15'
- Depth to soil saturation in observation hole: 2"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: GA, Scarborough Muck Fine Sand, loam, 0-3%
 hydric soil inclusions: yes

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-5"	10YR2/1	
B	5-18"	10YR3/2	10YR3/4

Remarks: 80% 20%

3. Other: AtB - Fine Sandy Loam

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants \geq # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP8

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree White Oak	45%	Y	FACU
Sugar Maple	15%	N	FACU
Red Maple	10%	N	FAC
Shrub Torontian Honeysuckle	30%	Y	FACU
Flowering Dogwood	5%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c. 131, s. 40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, FACW4, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 2
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)
 If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12

soil type mapped: EA, Scarborough Mucky fine Sand loam 0-30%
hydric soil inclusions: Yes

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-18" 10YR4/2

B

Remarks:

A-Sand loam with gravel

3. Other:

Conclusion: is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	—	✓
Wetland hydrology present:		
Hydric soil present	—	✓
Other indicators of hydrology present	—	✓
Sample location is in a BVW	—	✓

Submit this form with the Request for Determination of Applicability or Notice of Intent.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	B. Percent Cover (or basal Area)	C. Percent Dominance		D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Swamp White Oak	40%	35%	Y		FACW
Shrub Silky Dogwood	30%	25%	Y		FACW
Green Ash	10%	10%	N		FACW
Herb Sensitive Fern	15%	10%	Y		FACW
Cinnamon Fern	2%	2%	N		FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 0
- Depth to soil saturation in observation hole: 0
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 2G0B, Subvery-Fine Sandy loam, 3-8%
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-6"	10YR2/2	
B	6-18"	10YR3/2	10YR3/4

Remarks: _____

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

VPPPG

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Trees	Sugar Maple	30%	25%	Y	FACU
	White Ash	10%	5%	N	FACU
	White Oak	10%	5%	N	FACU
Shrubs	Taxus	15%	15%	Y	FACU
Herbs	_____ Mossy apple	20%	20%	Y	UPL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 3
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no
 If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 2G0B, Subsoil Sandy loam, 3-8%
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

Horizon Depth Matrix Color Mottles Color

A 0-8" 10YR3/4

B

Remarks:

A-Fine Sandy Loam with gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP7

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Swamp White Oak	30%	Y	FACW
Shrub Silky Dogwood	20%	Y	FACW
Herb Skunk Cabbage	30%	Y	OBL
Sensitive Fern	10%	N	FACW
Cinnamon Fern	5%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? (yes) no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 3"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 2G03-Subdy fine sandy loam 3.8%
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-6"	10YR2/2	
B	6-18"	10YR3/3	10YR3/5

Remarks: 80% 20%
A+B-Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP7

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	B. Percent Cover (or basal Area)	C. Percent Dominance			D. Dominant Plant (yes or no)
Tree	White Oak	60%	60%	Y	FACU
	Red Pine	10%	5%	N	FACU
	Red Maple	10%	5%	N	FAC
Shrub	Multiflora Rose	20%	15%	Y	FACU
	Flowering Dogwood	5%	5%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____
- Other: _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 2C0B, Swallow Fine Soil loam, 3-8%
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR3/3	
B			

Remarks: _____

Sand Loam with gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP 5

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:	Transsect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Swamp White Oak	40%	Y	FACW
Shrub Green Ash	20%	Y	FACW
Silky Dogwood	2%	N	FACW
Herb Skunk cabbage	70%	Y	OBL
Jewel Weed	10%	N	FACW
Sensitive Fern	5%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 17'
- Depth to soil saturation in observation hole: 6'
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 260B / Sullybury Fine Sandy loam, 38%
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10YR 3/1	
B	3-18"	10YR 4/1 90%	10YR 4/3 10%

Remarks: _____

A+B - Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UP DPS

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number	Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Sugar Maple	60%	Y	FACU
White Ash	10%	N	FACU
Red Maple	5%	N	FACU
Shrub Flowering Dogwood	40%	Y	FACU
Tanbark Honeysuckle	10%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 2E0B, Subsoil for Soil Survey 3-8-10
 hydric soil inclusions: No

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR3/2	
B			

Remarks: _____

A - Fine Sand loam with gravel

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BVW	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP5(2)

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation A. Sample Layer & Plant Species (by Common/ scientific name)	Observation Plot Number:		Transect Number: D. Dominant Plant (yes or no)	Date of Delineation: E. Wetland Indicator Category*
	B. Percent Cover (or basal Area)	C. Percent Dominance		
Tree Silver Maple	40%	30%	Y	FACW
Shrub Swamp WhiteOak	10%	5%	N	FACW
Herb Silly Dogwood	20%	10%	Y	FACW
Cattails	50%	40%	Y	OBL
Skunk Cabbage	10%	5%	N	OBL
Sensitive Fern	5%	2%	N	FACW

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Other Indicators of Hydrology: (check all that apply & describe)
 Site Inundated: N2

- Depth to free water in observation hole: 0
- Depth to soil saturation in observation hole: 0
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: S1A Swampy Muck, 0-1%
 hydric soil inclusions: Yes

Are field observations consistent with soil survey? yes
 no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-7"	10YR2/2	
B	7-18"	10YR4/1	10YR4/3 30%

Remarks: A+B - sub brown
70%

3. Other:

Conclusion: Is soil hydric? yes
 no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP5(2)

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation A. Sample Layer & Plant Species (by Common/ scientific name)	Observation Plot Number:		Transect Number: D. Dominant Plant (yes or no)	Date of Delineation:	
	B. Percent Cover (or basal Area)	C. Percent Dominance		E. Wetland Indicator Category*	
Trees White Oak	40%	40%	Y	FACU	
White Ash	15%	10%	N	FACU	
Red Maple	10%	5%	N	FAC	
Shrubs F. virginiana HoneySuckle	30%	25%	Y	FACU	
Flowering Dogwood	5%	5%	N	FACU	

* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants:

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
no
title/date: Middlesex County Soil Survey/ Sept. 28, 2015
map number: Version 12
soil type mapped: S1A, Sumner Muck O-1p/a
hydric soil inclusions: yes

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR4/2	
B			

Remarks:

A - Sand 10mm

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:	_____	<input checked="" type="checkbox"/>
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP3

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation		Observation Plot Number:		Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*	
Tree Swamp White-oak	40%	40%	Y	FACW	
Shrub Silky Dogwood	20%	15%	Y	FACW	
Herb Skunk Cabbage	30%	25%	Y	OBL	
Sensitive Fern	10%	10%	N	FACW	
Cattails	5%	5%	N	OBL	

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no
 If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: 14"
- Depth to soil saturation in observation hole: 2"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 51A Swanton Muck 0-10/8
 hydric soil inclusions: Yes

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-4"	10YR3/1	
B	4-18"	10YR4/1	10YR4/3

Remarks: 80% 20%
A/B - Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UPDP3

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BWV boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWV boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)		
Tree White Ash	40%	40%	Y	FACU
Red Pine	10%	10%	N	FACU
Shrub White Oak	30%	30%	Y	FACU
Flowering Dogwood	10%	10%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BWV boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: *S1A / Swinzer Mucke 0-1%*
 hydric soil inclusions: *Yes*

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR3/4	
B			

Remarks: _____

3. Other:

A-Fine Sandy loam

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BVW	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-2

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Silver Maple	55%	45%	Y	FACW
	Swamp White oak	20%	10%	N	FACW
	Red Maple	15%	5%	N	FAC
Shrub	Green Ash	30%	25%	Y	FACW
	Silky Dogwood	10%	5%	N	FACW
Herb	Sensitive fern	20%	15%	Y	FACW
	Skunk Cabbage	5%	2%	N	OBL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: 8"
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 51A, Swinton, Muck Q-196
 hydric soil inclusions: ✓

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-4"	10 YR 2/1	
B	4-18"	10 YR 3/3 80%	10 YR 3/5 20%

Remarks: _____

A+B - Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
 ≥ # of non-wetland indicator plants

Yes No

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology present

Sample location is in a BVW

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UP DP-2

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tory Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:	
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)			C. Percent Dominance
Tree	Arbor Vitae	40%	40%	Y	UPL
	Sugar Maple	10%	10%	N	FACU
Shrub	Multiflora Rose	10%	10%	Y	FACU
Herb	May Apple	15%	15%	Y	UPL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, FACW4, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Number of dominant non-wetland indicator plants: 3
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 5JA Sandy Muck 0-10%
 hydric soil inclusions: Yes

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR3/3	
B			

Remarks:

Sand loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present: Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BWV	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DP-1

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
 Check all that apply:

- Vegetation alone presumed adequate to delineate BWV boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BWV boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number.	Date of Delineation:
A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree Swamp White Oak	60%	40%	Y	FACW
Silver Maple	20%	15%	N	FACW
American Elm	10%	10%	N	FACW
Shrub Green Ash	15%	15%	Y	FACW
Herb Jewel Weed	15%	10%	Y	FACW
Bull Rush	5%	2%	N	OBL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes / no

if vegetation alone is presumed adequate to delineate the BWV boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 51A 5 unster Muck 0-10%
 hydric soil inclusions: yes
 Are field observations consistent with soil survey? yes
 no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3"	10YR 3/1	
B	3-18"	10YR 4/1 70%	10YR 4/4 30%

Remarks: A+B Fine Sandy loam

3. Other:

Conclusion: Is soil hydric? yes
 no

- Other Indicators of Hydrology: (check all that apply & describe)
- Site Inundated: _____
 - Depth to free water in observation hole: _____
 - Depth to soil saturation in observation hole: 5"
 - Water marks: _____
 - Drift lines: _____
 - Sediment Deposits: _____
 - Drainage patterns in BWI: _____
 - Oxidized rhizospheres: _____
 - Water-stained leaves: _____
 - Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BWI	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

UP DP-1

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Sudbury, Prepared by: Kyle Purdy/Tony Brown (VHB) Project location: Sudbury, MA DEP File #: _____
Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
	A. Sample Layer & Plant Species (by Common/ scientific name)	B. Percent Cover (or basal Area)		
Tree Red Pine	60%	55%	Y	FACU
Sugar Maple	10%	10%	N	FACU
White Ash	5%	2%	N	FACU
White Oak	20%	20%	Y	FACU
Shrub Flowering Dogwood	5%	5%	N	FACU

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other): _____

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Middlesex County Soil Survey/ Sept. 28, 2015
 map number: Version 12
 soil type mapped: 51A *Summer Mud 0-19b*
 hydric soil inclusions: *Yes*

Are field observations consistent with soil survey? yes no
 Remarks: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-18"	10YR3/4	
B			

Remarks: _____

A-Fine Sandy Loam

3. Other:

Conclusion: Is soil hydric? yes no

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<input checked="" type="checkbox"/>
Wetland hydrology present:		
Hydric soil present	_____	<input checked="" type="checkbox"/>
Other indicators of hydrology present	_____	<input checked="" type="checkbox"/>
Sample location is in a BVW	_____	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.



Attachment D

Photographic Log

PHOTOGRAPHIC LOG


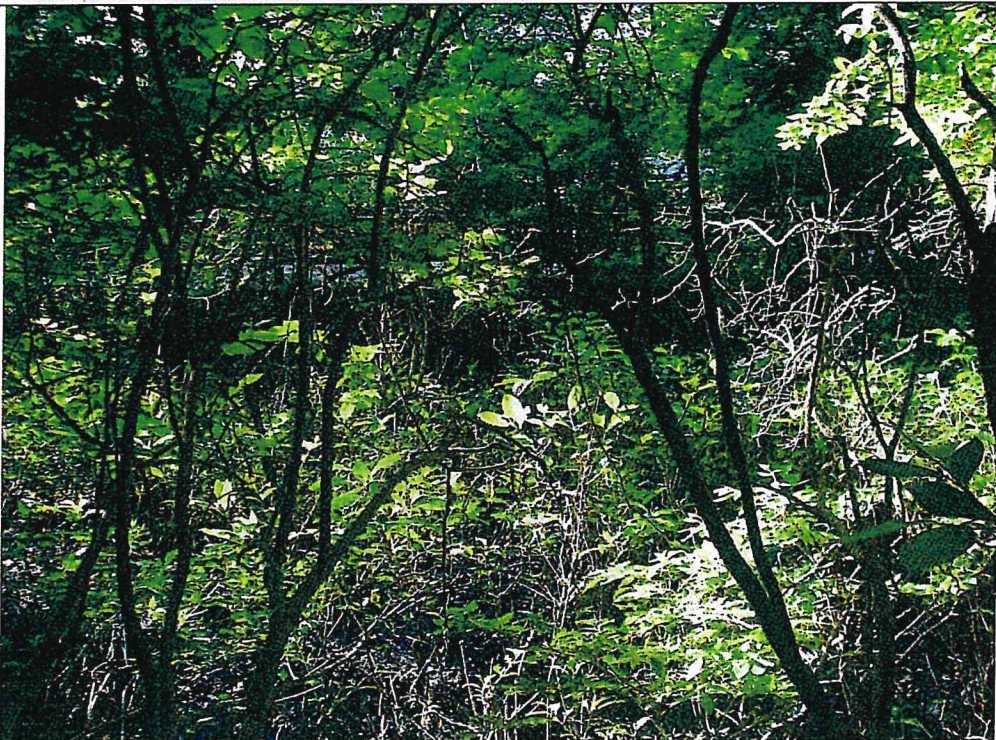
Client Name: Town of Sudbury		Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
Photo No. 1	Date: 6/17/2016		
Direction Photo Taken: West			
Description: View of Wetland 36.			

Photo No. 2	Date: 6/17/2016	
Direction Photo Taken: East		
Description: View of Wetland 38.		

PHOTOGRAPHIC LOG


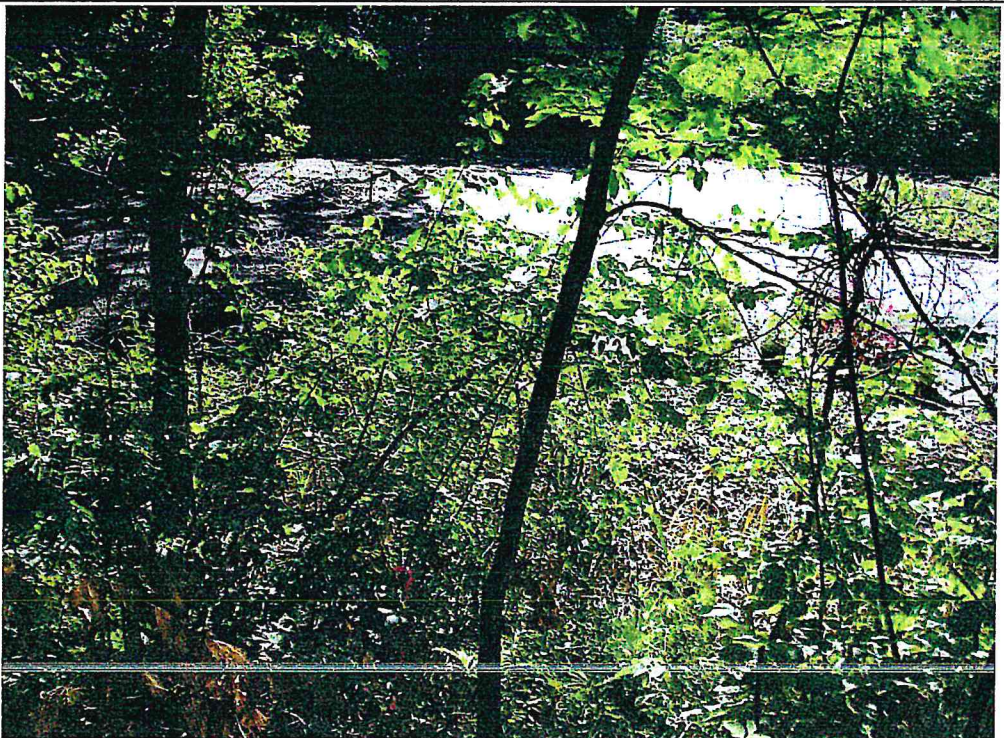
Client Name: Town of Sudbury		Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
Photo No. 3	Date: 6/17/2016		
Direction Photo Taken: West			
Description: View of Wetland 39.			

Photo No. 4	Date: 6/17/2016		
Direction Photo Taken: East			
Description: View of Wetland 40.			

PHOTOGRAPHIC LOG


Client Name: Town of Sudbury		Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
Photo No. 5	Date: 6/17/2016		
Direction Photo Taken: West			
Description: View of Wetland 35.			

Photo No. 6	Date: 6/17/2016		
Direction Photo Taken: West			
Description: View of Wetland 33.			

PHOTOGRAPHIC LOG

Client Name: Town of Sudbury

Site Location: Town of Sudbury, Massachusetts

Project No. 12984.00

Photo No.
7Date:
6/17/2016Direction Photo Taken:
WestDescription:
View of Wetland 32.Photo No.
8Date:
6/17/2016Direction Photo Taken:
WestDescription:
View of Wetland 31.

PHOTOGRAPHIC LOG

Client Name: Town of Sudbury		Site Location: Town of Sudbury, Massachusetts		Project No. 12984.00
Photo No. 9	Date: 6/17/2016			
Direction Photo Taken: East				
Description: View of Wetland 26.				

Photo No. 10	Date: 6/17/2016			
Direction Photo Taken: West				
Description: View of Wetland 25.				

PHOTOGRAPHIC LOG

Client Name: Town of Sudbury	Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
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Photo No. 11	Date: 6/17/2016
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Direction Photo Taken:
West

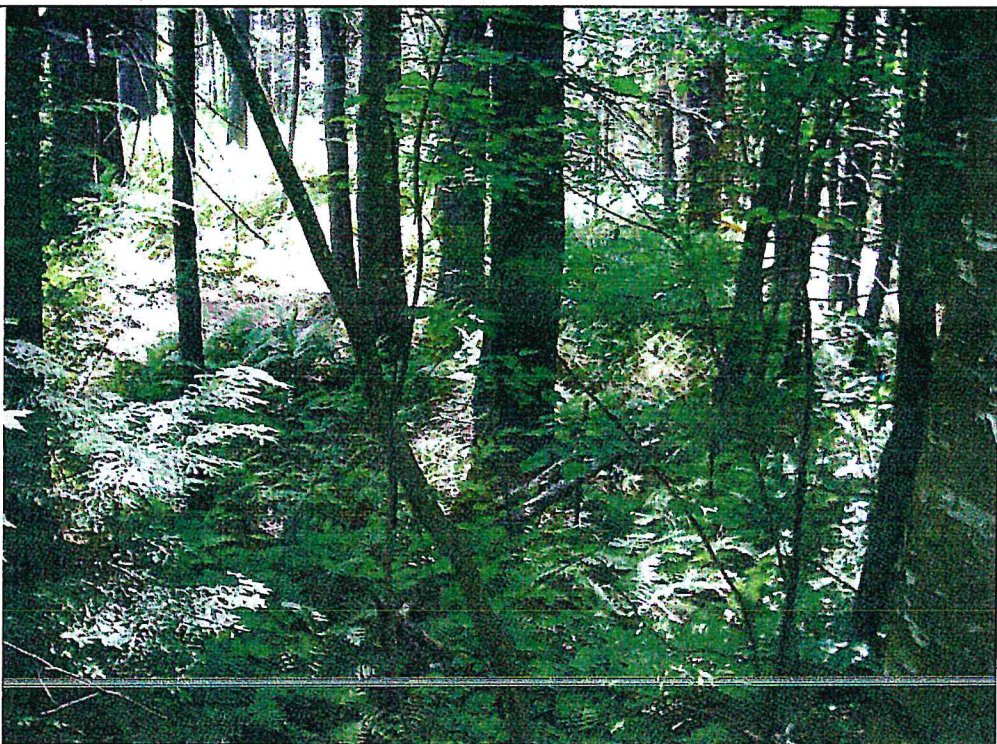
Description:
View of Wetland 21.



Photo No. 12	Date: 6/17/2016
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Direction Photo Taken:
East

Description:
View of Wetland 22.



PHOTOGRAPHIC LOG

Client Name: Town of Sudbury

Site Location: Town of Sudbury, Massachusetts

Project No. 12984.00

Photo No.
13 **Date:**
6/17/2016

Direction Photo Taken:
East

Description:
View of Wetland 20.



Photo No.
14 **Date:**
6/17/2016

Direction Photo Taken:
West

Description:
View of Wetland 19.



PHOTOGRAPHIC LOG

Client Name: Town of Sudbury	Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
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Photo No. 15	Date: 6/17/2016
Direction Photo Taken: West	



Description:
View of Wetland 17.

Photo No. 16	Date: 6/17/2016
Direction Photo Taken: West	



Description:
View of Wetland 13.

PHOTOGRAPHIC LOG

Client Name: Town of Sudbury		Site Location: Town of Sudbury, Massachusetts		Project No. 12984.00	
Photo No. 17	Date: 6/17/2016				
Direction Photo Taken: East					
Description: View of Wetland 15.					

Photo No. 18	Date: 6/17/2016				
Direction Photo Taken: East					
Description: View of Wetland 14.					


PHOTOGRAPHIC LOG

Client Name: Town of Sudbury		Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
Photo No. 19	Date: 6/17/2016		
Direction Photo Taken: East			
Description: View of Wetland 42.			

Photo No. 20	Date: 6/17/2016		
Direction Photo Taken: East			
Description: View of Wetland 9.			

PHOTOGRAPHIC LOG

Client Name: Town of Sudbury		Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
Photo No. 21	Date: 6/17/2016		
Direction Photo Taken: West			
Description: View of Wetland 8.			

Photo No. 22	Date: 6/17/2016	
Direction Photo Taken: West		
Description: View of Wetland 6.		

PHOTOGRAPHIC LOG

Client Name: Town of Sudbury	Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
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Photo No. 23	Date: 6/17/2016
Direction Photo Taken: East	



Description: View of Wetland 7.

Photo No. 24	Date: 6/17/2016
Direction Photo Taken: West	



Description: View of Wetland 5.

PHOTOGRAPHIC LOG

Client Name: Town of Sudbury	Site Location: Town of Sudbury, Massachusetts	Project No. 12984.00
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Photo No. 25	Date: 6/17/2016	
Direction Photo Taken: East		
Description: View of Wetland 5(2).		

Photo No. 26	Date: 6/17/2016	
Direction Photo Taken: West		
Description: View of Wetland 3.		

PHOTOGRAPHIC LOG


Client Name: Town of Sudbury		Site Location: Town of Sudbury, Massachusetts		Project No. 12984.00
Photo No. 27	Date: 6/17/2016			
Direction Photo Taken: East				
Description: View of Wetland 2.				

Photo No. 28	Date: 6/17/2016			
Direction Photo Taken: West				
Description: View of Wetland 1.				



Attachment E

Vernal Pool Investigation Memorandum

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To: Jodie Kablack – Town of Sudbury

Date: May 22, 2015



Project #: 12984.00

From: Meghan Selby,
Environmental Scientist

Re: Vernal Pool Investigation

Memorandum

This memorandum describes the results of a field investigation that was conducted along the proposed Bruce Freeman Rail Trail (BFRT) corridor on April 24, 2015. The investigation included verifying the presence or absence of egg masses or individuals of obligate vernal pool species within certified and potential vernal pools along the BFRT corridor (Figure 1).

The *Existing Conditions Survey Plan at Proposed Rail Trail in Sudbury, Mass.*, prepared by Atlantic Engineering & Survey Consultants Inc., dated June 30, 2008, was used as the base for the vernal pool investigation (Attachment A). The plan set identified a single certified vernal pool (CVP), numerous potential vernal pools (PVPs), a single Sudbury vernal pool (SVP), and isolated wetlands. In addition to the previously identified areas the field team walked the corridor looking for any additional areas that had vernal pool characteristics. The following lists of vernal pool criteria were used as the basis for documenting areas along the corridor.

The results of the investigation are summarized in Table 1 and described in further detail the following sections.

Vernal Pool Criteria

The March 2009 *Guidelines for the Certification of Vernal Pool Habitat* (Guidelines) defines the Vernal Pool Certification Criteria based on biological and physical evidence.

Biological criteria include:

- Obligate species (wood frog (*Lithobates sylvaticus*), spotted salamander (*Ambystoma maculatum*), blue-spotted salamander (*A. laterale*), Jefferson salamander (*A. jeffersonianum*), and marbled salamander (*A. opacum*)
 - Wood frog chorusing
 - At least 5 pairs of mated wood frogs
 - At least 5 egg masses of either wood frogs or spotted salamanders
 - One egg mass of state-listed blue-spotted or Jefferson salamander
 - Mating adult salamanders
 - Salamander spermatophores
 - Salamander or wood frog larvae
 - Fairy shrimp (*Anostraca: Eubranchipus*)
- Facultative species (spring peeper, gray treefrog, American toad, Folwer's toad) – at least two species must be present.
 - Adult chorusing
 - At least 5 mated pairs
 - Any number of egg masses

101 Walnut Street
PO Box 9151
Watertown, MA 02472
P 617.924.1770

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- o Tadpoles

Physical criteria include evidence that there is a pool with no permanently flowing outlet (no culvert or stream). The Guidelines defines Vernal Pool Boundary as:

- A distinct and clear topographic break at the edge of a pool or
- The maximum observed or recorded extent of flooding, as evidenced by:
 - o Leaf staining or other indicators of hydrology, or
 - o The mean annual high water mark as observed in March through early April.

The *Sudbury Wetlands Administration Bylaw Regulations* (Revised August 11, 2014) further defines a vernal pool as:

any confined basin or depression not occurring in existing lawns, gardens, landscaped areas, or driveways which, at least in most years, holds water for a minimum of two continuous months during the spring and/or summer, contains at least 200 cubic feet of water at some time during most years, is free of adult predatory fish populations, and provides essential breeding and rearing habitat functions for amphibian, reptile, or other vernal pool community species.

Results

Results from the investigation are summarized in the following table and described in greater detail in the following section.

Table 1. Vernal Pool Investigation Results Summary

ID	Between Stations	Water Depth (in)	Findings
PVP 1	468.00-468.50	<1	No VP species found.
PVP 2	453.00-457.00	24-48	No VP species found.
PVP 3	440.50-441.50	2-3	No VP species found.
PVP 4*	431.50-435.00	6-15	1 wood frog egg mass and 2 spotted salamander egg masses.
PVP 5*	427.50-429.25	2-12	No VP species found. 1 predacious diving beetle observed.
PVP 6*	418.00-419.00	2-6	No VP species found. Direct outlet to adjacent stream.
PVP 7	393.50-395.50	6-8	No VP species found. Limited opportunity for egg mass attachment.
PVP 8	389.00-390.50	2-3	No VP species found. Water was flowing through area instead of ponding due to topography.
SVP 9	376.50-377.50	2-5	No VP species found.
PVP 10	373.00-374.50	0	No VP species found. Area was dry at time of inspection.

ID	Between Stations	Water Depth (in)	Findings
PVP 11*	384.50-385.50	10-12	8 spotted salamander egg masses. Approx. 5 small (~4in) fish swimming near some of the egg masses.
PVP 12*	354.50-356.00	12-24	No VP species found. Limited opportunity for egg mass attachment.
CVP 13*	336.00-337.00	5-24	15+ blue spotted salamander, 15+ spotted salamander, and 10+ wood frog egg masses found.
PVP 14*	334.00-335.00	4-6	No VP species found.
PVP 15	284.50-286.50	4-18	1 wood frog egg mass found. No other signs of VP species.
PVP 16	254.50-255.50	2-10	No VP species found. (~10 wood frog egg masses found on 4/22/15)
PVP 17	254.50-256.00	0-6	No VP species found. Oil sheen present throughout isolated wetland.
PVP 18	249.00-254.00	0-12	No VP species found.
PVP 19	247.00-248.00	0	No VP species found. Area was dry at time of inspection.

*Areas within mapped priority and estimated habitat as provided by NHESP.

Based on the findings of the April 2015 survey of potential vernal pools along the proposed Bruce Freeman Rail Trail in Sudbury, only Potential Vernal Pools 4, 11, 15, and 16 are eligible for certification as Vernal Pools with the Natural Heritage and Endangered Species Program. Vernal Pool 13 is already certified and was confirmed with by our findings. Although a single wood frog egg mass was observed within Potential Vernal Pool 15, it would not meet NHESP certification requirements.

The following are photographs from the field investigation of each of the pools, and additional site specific notes.

Potential Vernal Pool Area 1 – Between Stations 468.00 and 468.50.



PVP 1 was within a larger wetland complex. The area does not appear to hold enough water long enough for VP species utilization. Water levels were less than 1 inch. No VP species were observed.

Potential Vernal Pool Area 2 – Between Stations 453.00 and 457.00.



PVP 2 is part of a larger wetland complex. Water levels were to a depth of approximately 2 feet along the outer edge and up to 4 feet within the center of the pool. Despite the abundance of suitable egg laying locations (over hanging branches) no VP species or evidence of species was observed during the investigation.

Potential Vernal Pool Area 3 – Between Stations 440.50 and 441.50.

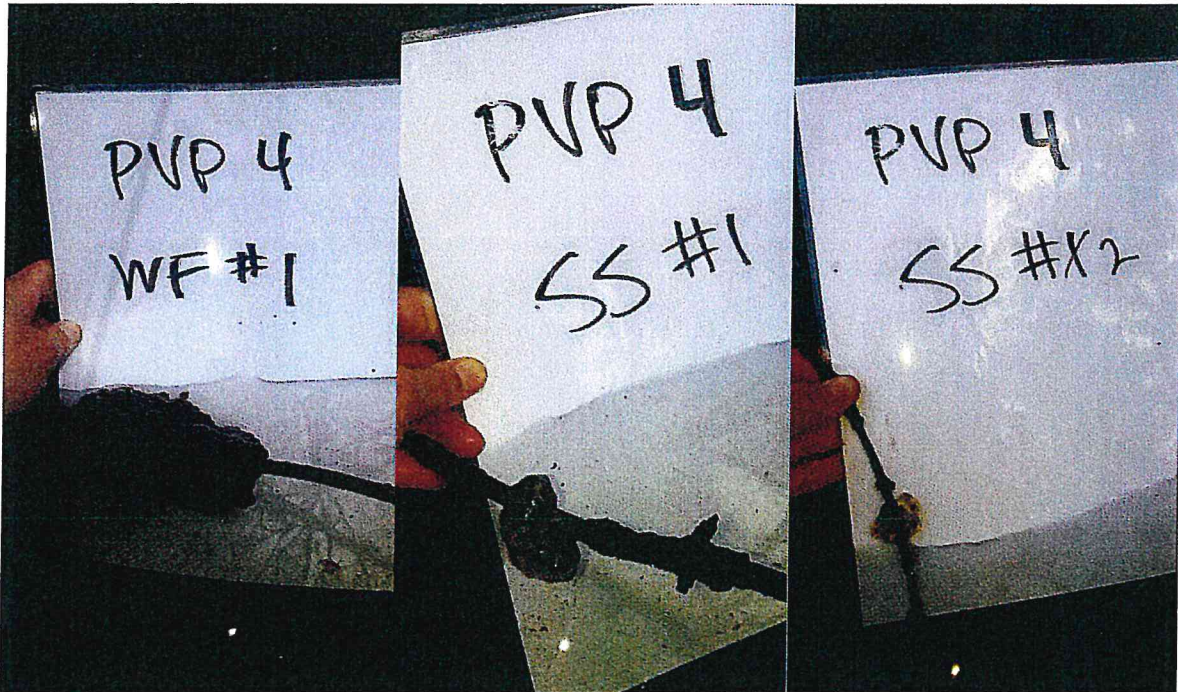


PVP 3 is a shallow and narrow depression that runs parallel to the rail bed. Water depths were 2-3 inches and no VP species were observed.

Potential Vernal Pool Area 4 – Between Stations 431.50 and 435.00.

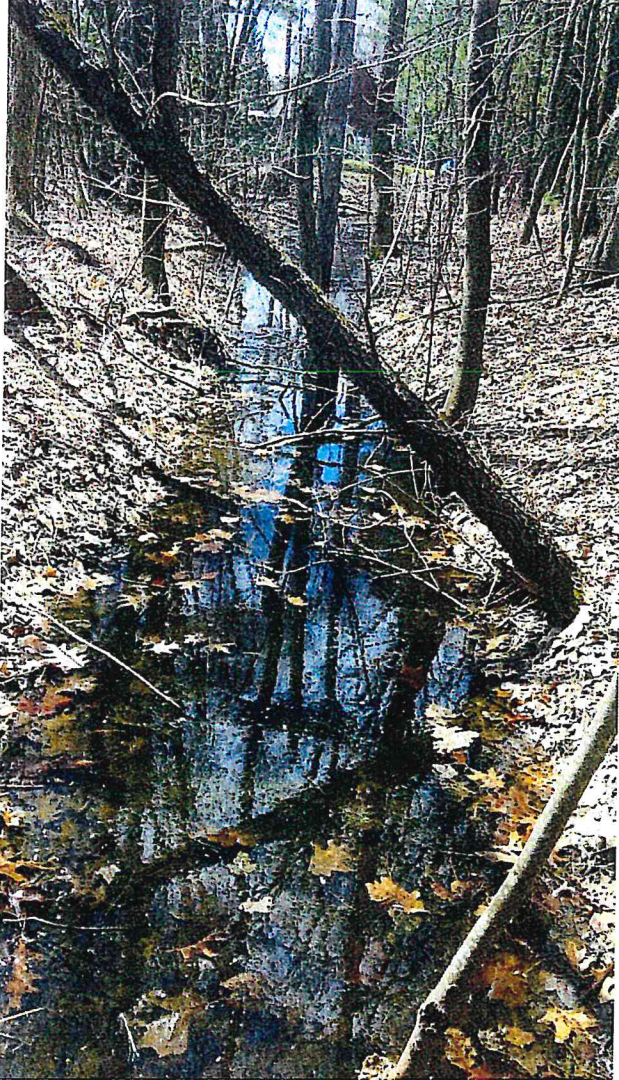


PVP 4 is to the east of Pantry Road and on the western limit of the BFRT corridor. The pool had standing water ranging from 6 to 15 inches. High levels of iron were observed within the pool. Numerous branches were positioned along the edge of the pool, creating good egg mass attachment opportunities.



One wood frog and two spotted salamander egg masses were found within PVP 4. This area is within Priority Habitat of Rare Species (PH 617) and Estimated Habitat of Rare Wildlife (EH 543).

Potential Vernal Pool Area 5 – Between Stations 427.50 and 429.25.



PVP 5 is a narrow depression with shallow pockets of water along the fringes and up to 12 inches in the center. No VP species were observed within the pool. Clumps of algae were observed on some branches and within the deeper sections of the water. This area is within Priority Habitat of Rare Species (PH 617) and Estimated Habitat of Rare Wildlife (EH 543).

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Potential Vernal Pool Area 6 – Between Stations 418.00 and 419.00.



PVP 6 is a shallow depression adjacent to a stream. Standing water within the depression ranged from 2 to 6 inches. No VP species were observed. This area is within Priority Habitat of Rare Species (PH 617) and Estimated Habitat of Rare Wildlife (EH 543).



Water within the PVP 6 area was actively draining into the adjacent stream at the time of the inspection.

Potential Vernal Pool Area 7 – Between Stations 393.50 and 395.50.



PVP 7 is a shallow depression with standing water ranging from 6 to 8 inches. The depression was approximately 10 feet at its widest point. No VP species were observed.

Potential Vernal Pool Area 8 – Between Stations 389.00 and 390.50.



PVP 8 is a shallow secondary channel adjacent to a well-defined stream. No VP species were observed.

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PVP 8 had flowing water ranging from 2 to 3 inches deep before the confluence with the main stream channel.

Sudbury Vernal Pool 9 – Between Stations 376.50 and 377.50.



SVP 9 had approximately 2 to 5 inches of standing water. No permanent outlet was present. No VP species were observed.

Potential Vernal Pool Area 10 – Between Stations 373.00 and 374.50.



PVP 10 is a channel like depression that runs along rail bed's the toe of slope. The area was dry at the time of inspection. Based on topography within this area it is unlikely that water ponds up for the requisite period of time for VP species to utilization. No VP species were found.

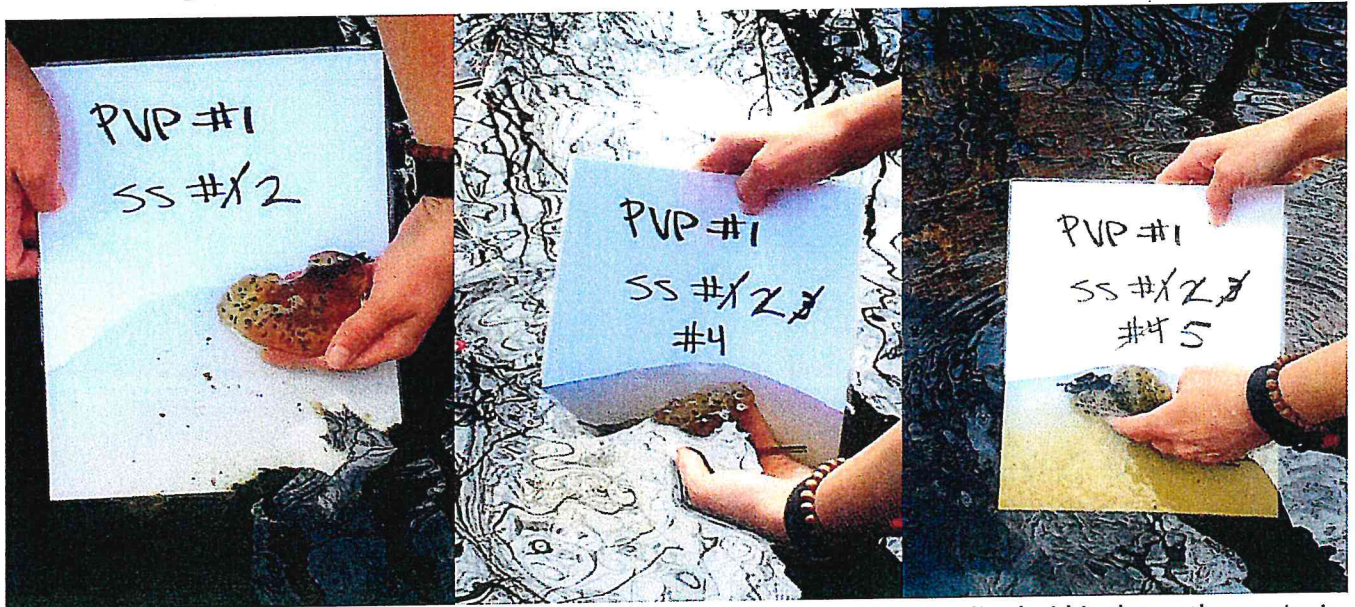
Potential Vernal Pool Area 11 – Between Stations 384.50 and 385.50.



PVP 11 is part of a larger wetland complex. The southern extent of the complex (as pictured above) had standing water between 10 and 12 inches.



The northern extent of the wetland complex (PVP 11) transitions into a wide channel and to the northeast a pond. Small fish approximately 4 inches in length were primarily observed within the larger channel area and a few were found swimming within a few feet of the spotted salamander egg masses.



Eight spotted salamander egg masses were observed within PVP 11. These were localized within the southern extent of the wetland complex. This area is within Priority Habitat of Rare Species (PH 528) and Estimated Habitat of Rare Wildlife (EH 437).

Potential Vernal Pool Area 12 – Between Stations 354.50 and 356.00



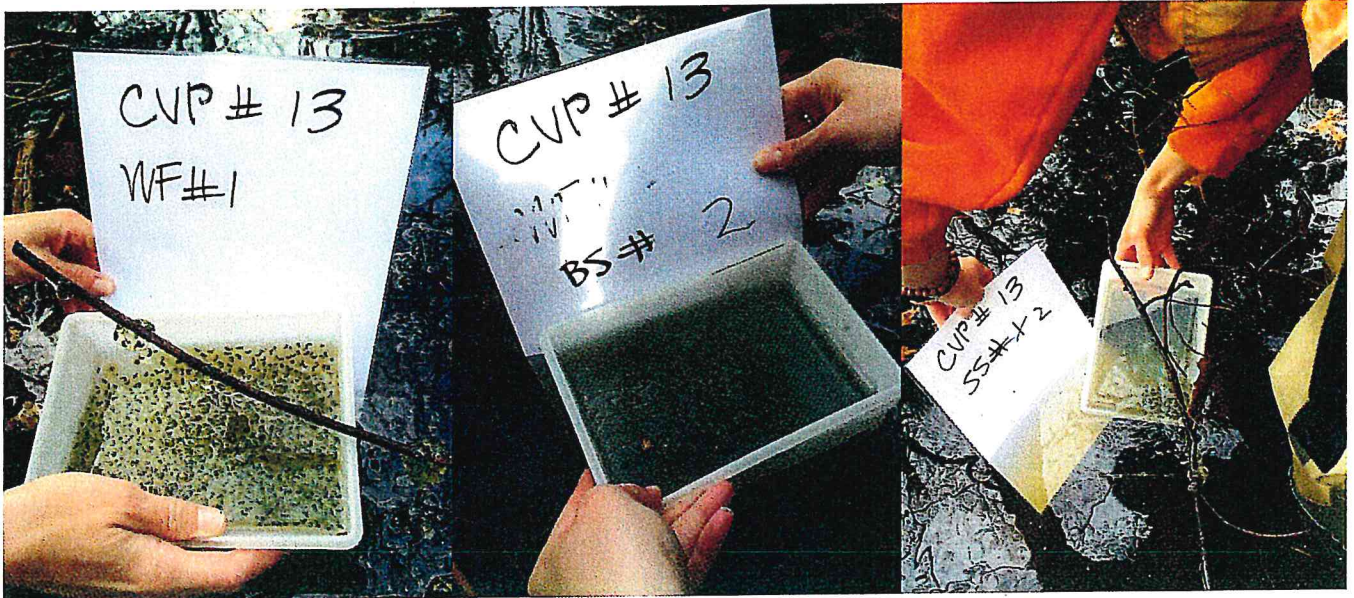
PVP 12 is on the western side of the BFRT corridor, across from PVP 11. PVP 12 is a farm pond that has the potential to hold water through most of the year. Water depths were approximately 1 to 2 feet. There were little to no branches within the outer fringe of the pond along the eastern limit (within the ROW easement). No VP species were found. This area is within Priority Habitat of Rare Species (PH 528) and Estimated Habitat of Rare Wildlife (EH 437).

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Certified Vernal Pool 13 – Between Stations 336.00 and 337.00.



CVP 13 is approximately 80 by 100 feet and had up to approximately 2 feet of standing water at the time of the inspection. This area is within Priority Habitat of Rare Species (PH 528) and Estimated Habitat of Rare Wildlife (EH 437).



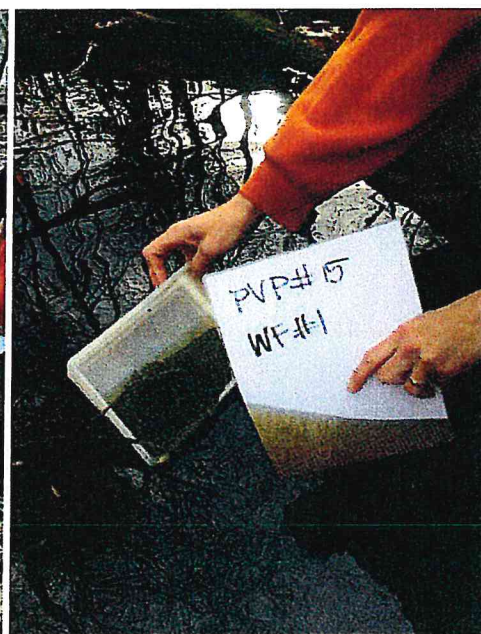
Wood frog (10+), spotted salamander (15+), and blue-spotted salamander (15+) egg masses were found throughout the pool. A number of individual and clusters of 2-5 eggs were also found throughout and on the bottom of the pool.

Potential Vernal Pool Area 14 – Between Stations 334.00 and 335.00.



PVP 14 was holding approximately 4 to 6 inches of standing water at the time of inspection. This area is within Priority Habitat of Rare Species (PH 528) and Estimated Habitat of Rare Wildlife (EH 437). No VP species were found.

Potential Vernal Pool Area 15 – Between Stations 284.50 and 286.50.



PVP 15 is a narrow depression that is coincident with the rail bed's toe of slope. The center of the depression was holding approximately 18 inches of water at the time of inspection. One wood frog egg mass was found. No other VP species were observed.

Potential Vernal Pool Area 16 – Between Stations 254.50 and 255.50.



PVP 16 is within a constructed detention basin. At the time of inspection standing water reached depths of 10 inches in the southern extent and the basin was dry in the northern extent. No VP species were observed. An oil sheen was present on the surface of the water and small piles of snow and associated debris were present. During a flagging event on April 15, 2015 staff heard wood frog chorusing and noted multiple wood frog egg masses within the center of the pool.

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Potential Vernal Pool Area 17 – Between Stations 254.50 and 256.00.



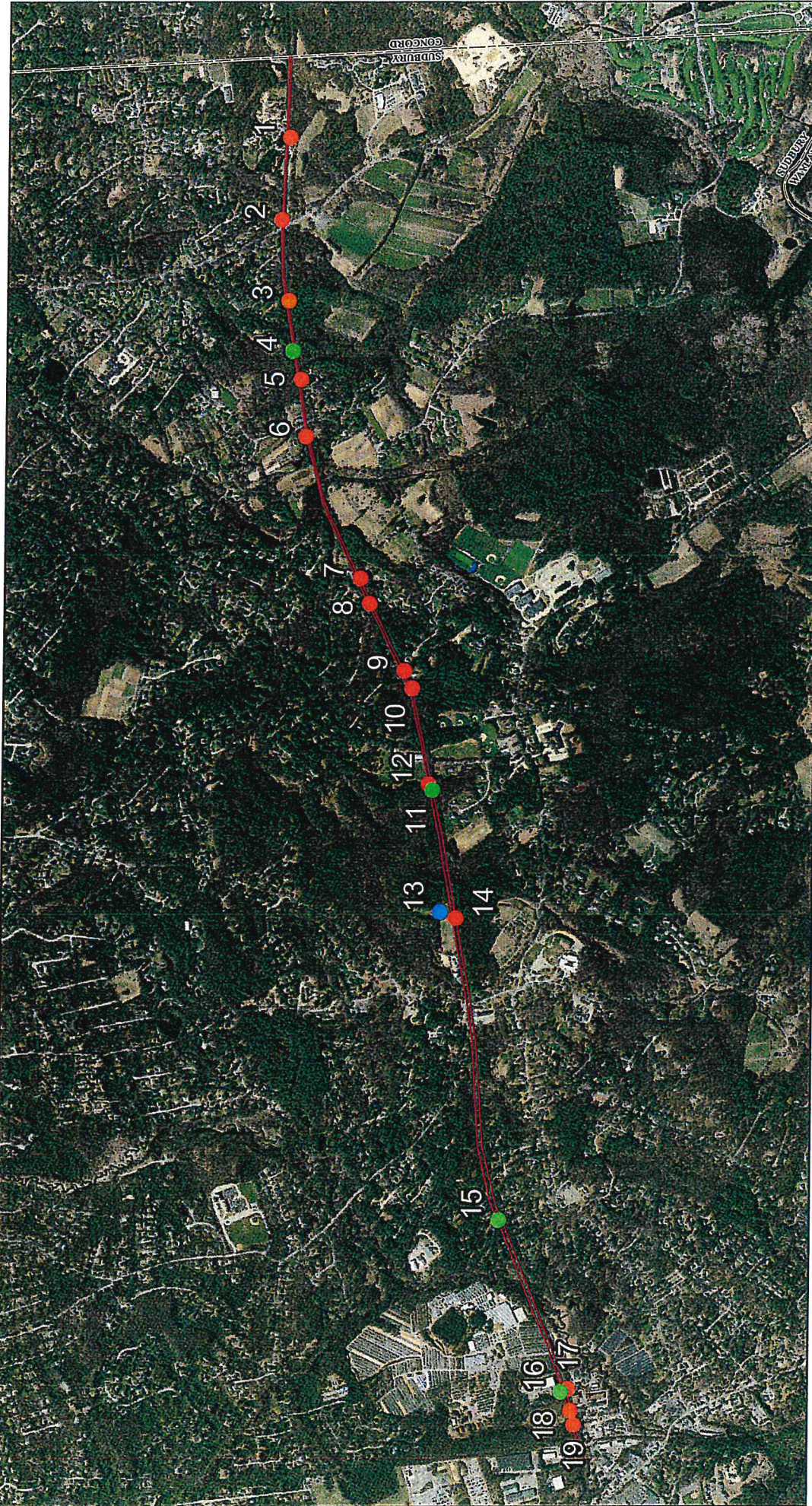
PVP 17 is an isolated wetland. The depression was holding up to 6 inches of water in the center. An oil sheen was present within the pool and no VP species were observed.

Potential Vernal Pool Area 18 – Between Stations 249.00 and 254.00.



PVP area 18 is part of a large cattail marsh wetland complex with a stream channel flowing through the center. The stream is carried under the rail road bed through a culvert and connects to a wetland on the eastern side of the alignment. The investigation was limited to the railroad easement and no VP species were found.

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Legend

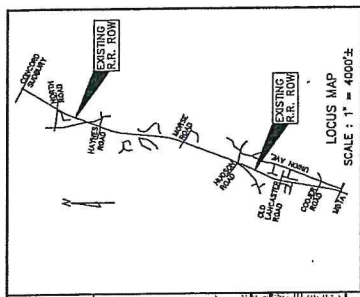
- Certified Vernal Pool
- Eligible to be Certified
- Non-Eligible to be Certified
- Bruce Freeman Rail Trail Corridor



Figure 1 – Site Location Map
Bruce Freeman Rail Trail
Sudbury, Massachusetts

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CONTRACT NO. 208
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EXISTING R.R. ROW
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CONTRACT NO. 208
PROPOSED RAIL TRAIL FROM 257+00 TO 287+00
EXISTING R.R. ROW
PROPOSED RAIL TRAIL
NEW R.R. ROW

DATE: JUNE 30, 2008
SCALE: 1" = 4000'

PROJECT: BRAVING FILED RAIL TRAIL FROM 257+00 TO 287+00
JOB NO.: 08001-02

DESIGNED BY: ATLANTIC ENGINEERING & SURVEY CONSULTANTS, INC.
DATE: JUNE 30, 2008
SCALE: 1" = 4000'

PROJECT: BRAVING FILED RAIL TRAIL FROM 257+00 TO 287+00
JOB NO.: 08001-02

EXISTING CONDITIONS SURVEY PLAN
AT
PROPOSED RAIL TRAIL
IN
SUBURBY, MASS.

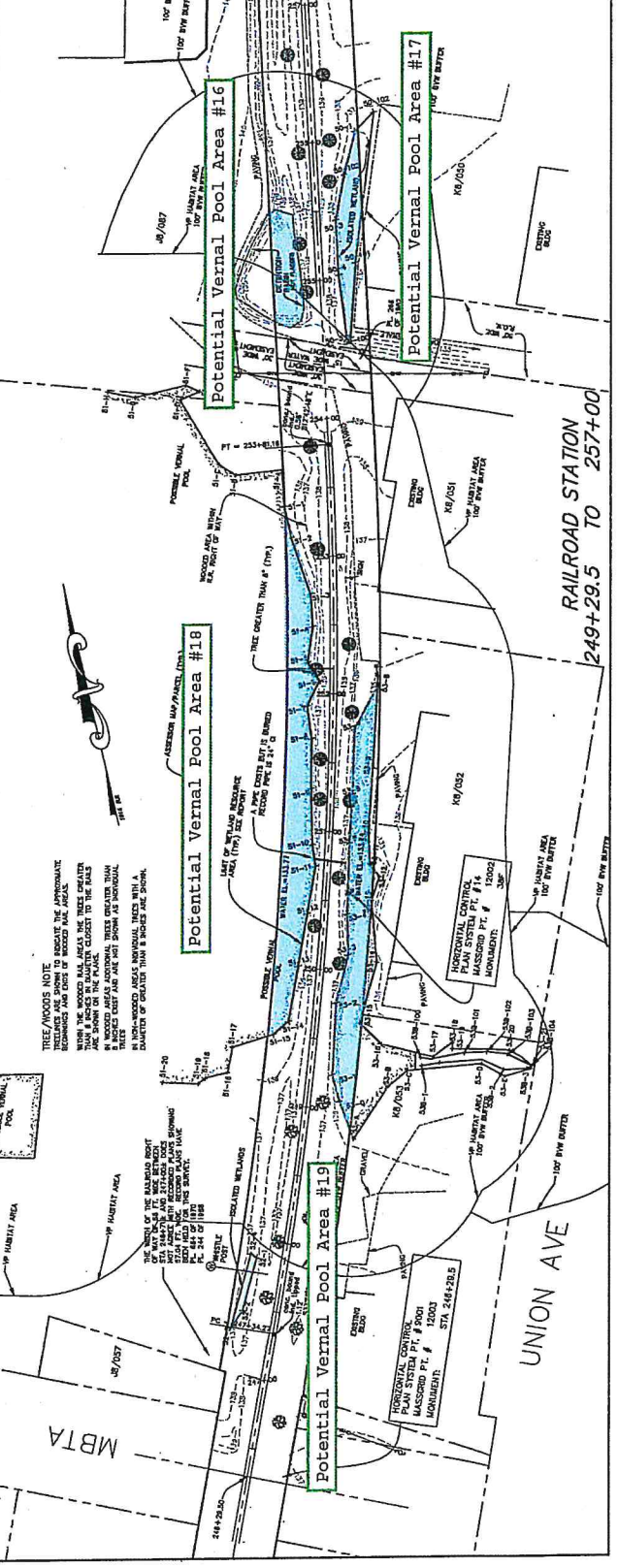
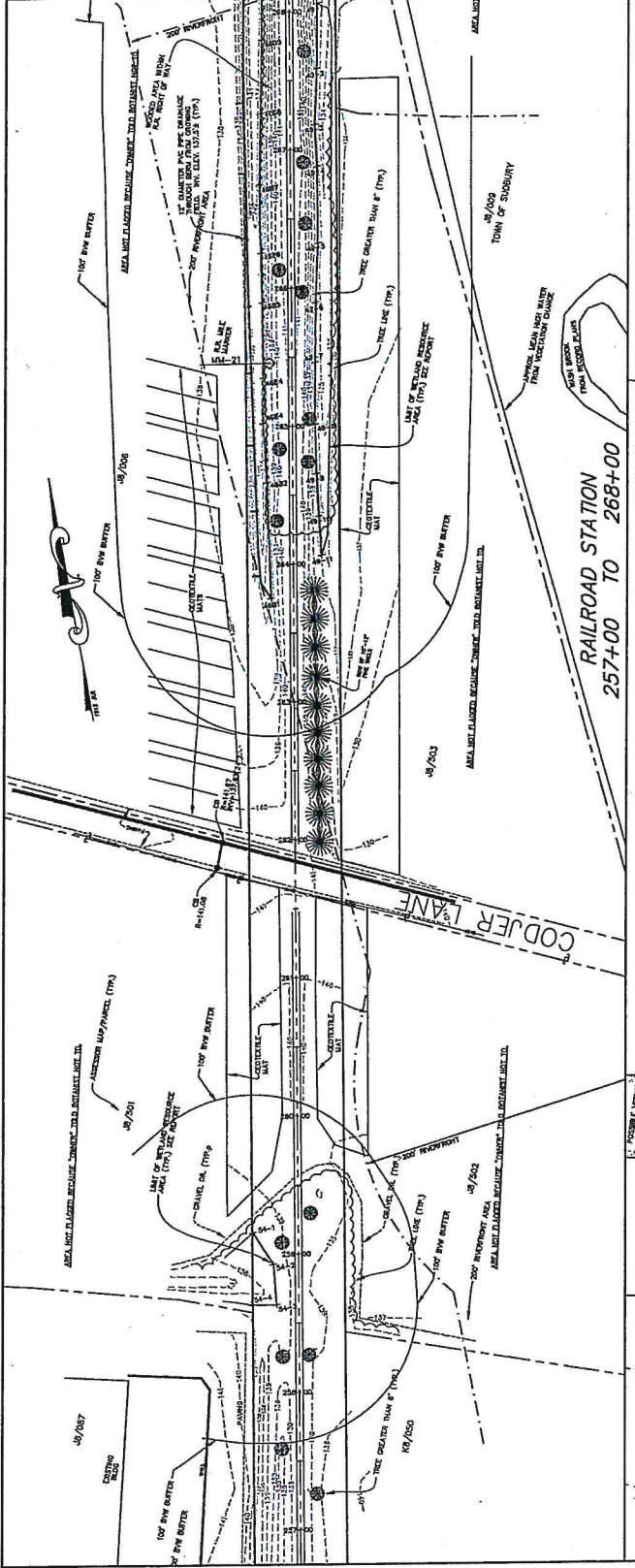
PREPARED FOR: TOWN OF SUBURBY
 275 OLD LANCASTER ROAD
 SUBURBY, MA 01776

DATE: JUNE 30, 2008 (1ST SUBMISSION)
SCALE: 1" = 4000'

PROJECT: BRAVING FILED RAIL TRAIL FROM 257+00 TO 287+00
JOB NO.: 08001-02

SCALE: 1" = 4000'

SHEET 2 OF 23



CONTRACT NO. 208
PROPOSED RAIL TRAIL FROM 257+00 TO 287+00
EXISTING R.R. ROW
PROPOSED RAIL TRAIL
NEW R.R. ROW

CONTRACT NO. 208
PROPOSED RAIL TRAIL FROM 257+00 TO 287+00
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EXISTING CONDITIONS SURVEY PLAN
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SUBURBY, MASS.

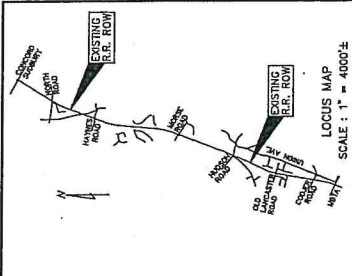
PREPARED FOR: TOWN OF SUBURBY
 275 OLD LANCASTER ROAD
 SUBURBY, MA 01776

DATE: JUNE 30, 2008 (1ST SUBMISSION)
SCALE: 1" = 4000'

PROJECT: BRAVING FILED RAIL TRAIL FROM 257+00 TO 287+00
JOB NO.: 08001-02

SCALE: 1" = 4000'

SHEET 2 OF 23



LOCUS MAP
SCALE 1" = 4000'

By Atlantic Engineering & Survey Consultants, Inc. This project was prepared in accordance with the provisions of the Massachusetts Professional Engineer Act, Chapter 269A, Section 27B, and the rules and regulations of the Board of Professional Engineers, Architects and Surveyors, State of Massachusetts.

SAFETY NOTES:
PORTIONS OF THE BANK OF THE BROOK AND POND WERE COLORED IN RED AT THE TIME OF THE RECONSTRUCTION WORK. THE CONTAINMENT OF THE BROOK AND POND IS THE RESPONSIBILITY OF THE USER OF THIS PLAN AND THE USER OF THE BROOK AND POND. THE USER OF THIS PLAN AND THE USER OF THE BROOK AND POND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE BROOK AND POND.

ENGINEERING FILES RAIL TRAIL PROJECT-0512
ATLANTIC, 250 N. OAK ST., SUITE 202
ROSLINDALE, MA 02126
PHONE: 781-326-7870 FAX: 781-326-9940

DATE: JUNE 30, 2008

PROJECT: ATLANTIC ENGINEERING & SURVEY CONSULTANTS, INC.
97 TENNEY STREET - SUITE 5 - GEORGETOWN, MA 01833
PHONE: 978-352-7870 FAX: 978-352-9940

EXISTING CONDITIONS SURVEY PLAN
AT
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SUDBURY, MASS.

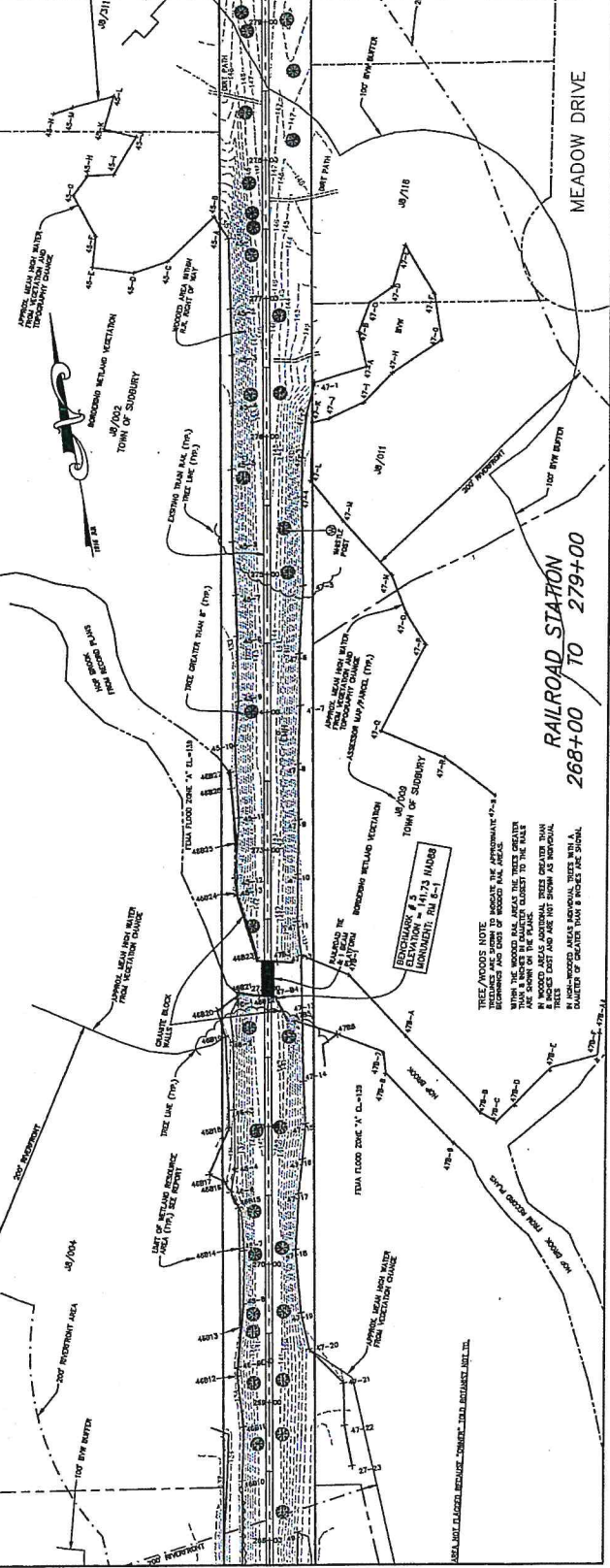
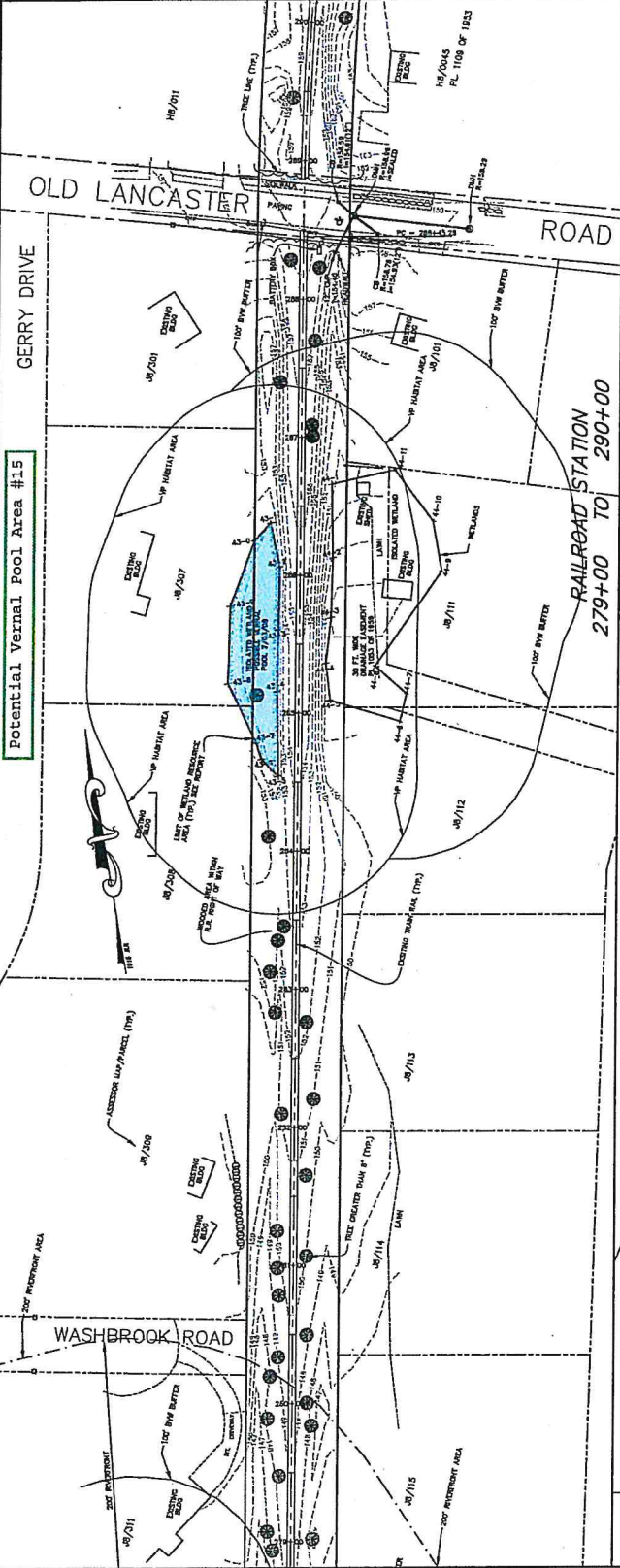
PREPARED FOR: TOWN OF SUDBURY
275 OLD LANCASTER ROAD
SUDBURY, MA 01776

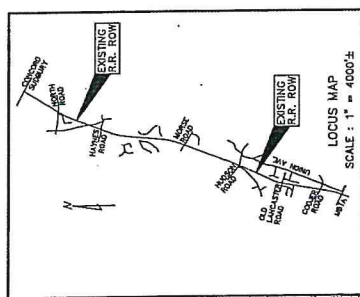
DATE: JUNE 30, 2008 (1ST SUBMISSION)

SUBMISSION #	DATE	DESCRIPTION
1	7/22/2008	1ST SUBMISSION
2	7/22/2008	REVISED
3	7/22/2008	REVISED
4	7/22/2008	REVISED

Scale 1" = 40'

SHEET 3 OF 23





LOCUS MAP
SCALE: 1" = 4000'

CONSENT TO SURVEY
I, the undersigned, being the owner of the land shown on the above map, do hereby consent to the survey and the laying out of the proposed rail trail and the taking of the same for the purposes of the ground plan.

SAFETY NOTES
PORTIONS OF THE BASE OF THIS MAP HAVE BEEN OBTAINED FROM THE RECORDS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS. THE USER OF THIS MAP SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND OFFICIALS.

DRAWING FILE: RAILTRAIL-FH01E-002
ATLANTIC JOB NO. A001-02

I CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF MASSACHUSETTS.
PAUL J. PAULY
No. 31725

ATLANTIC ENGINEERING & SURVEY CONSULTANTS INC.
97 TUNNEY STREET - SUITE 5 - CONCORD, MA 01733
PHONE 978-333-7810 FAX 978-332-9140

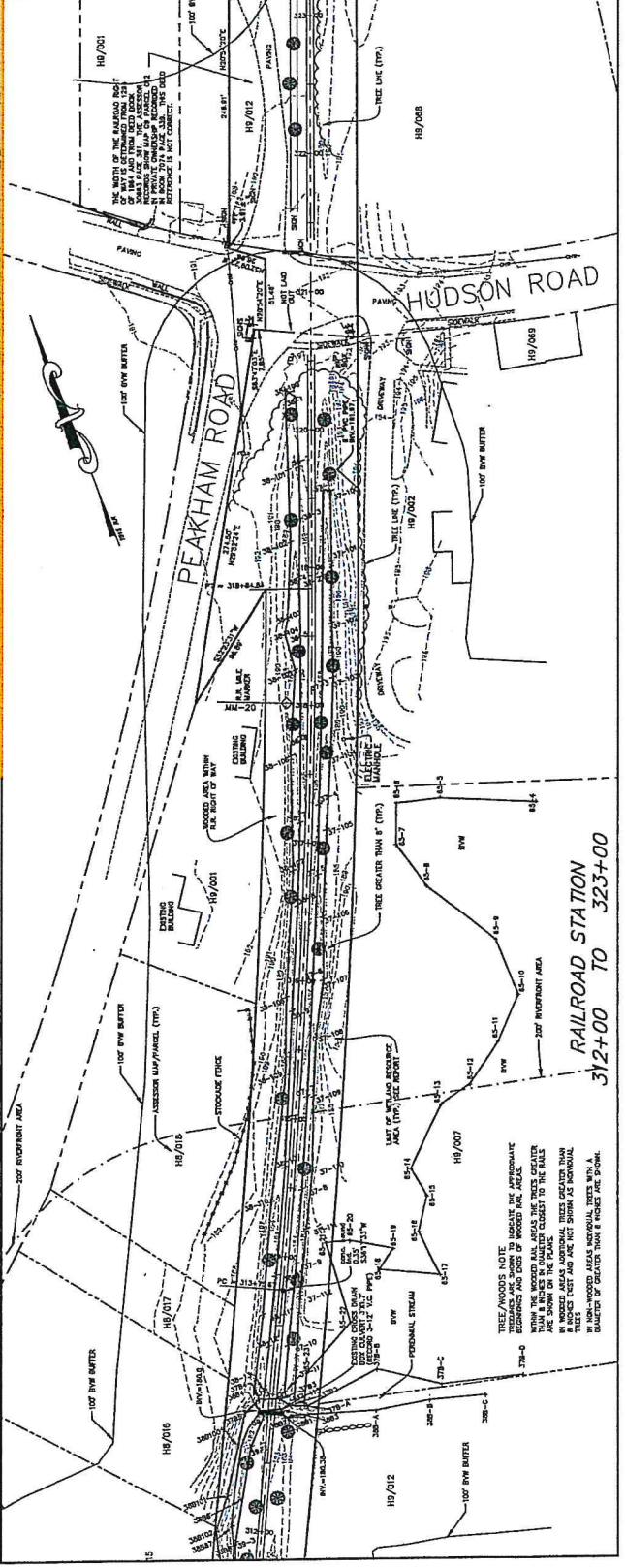
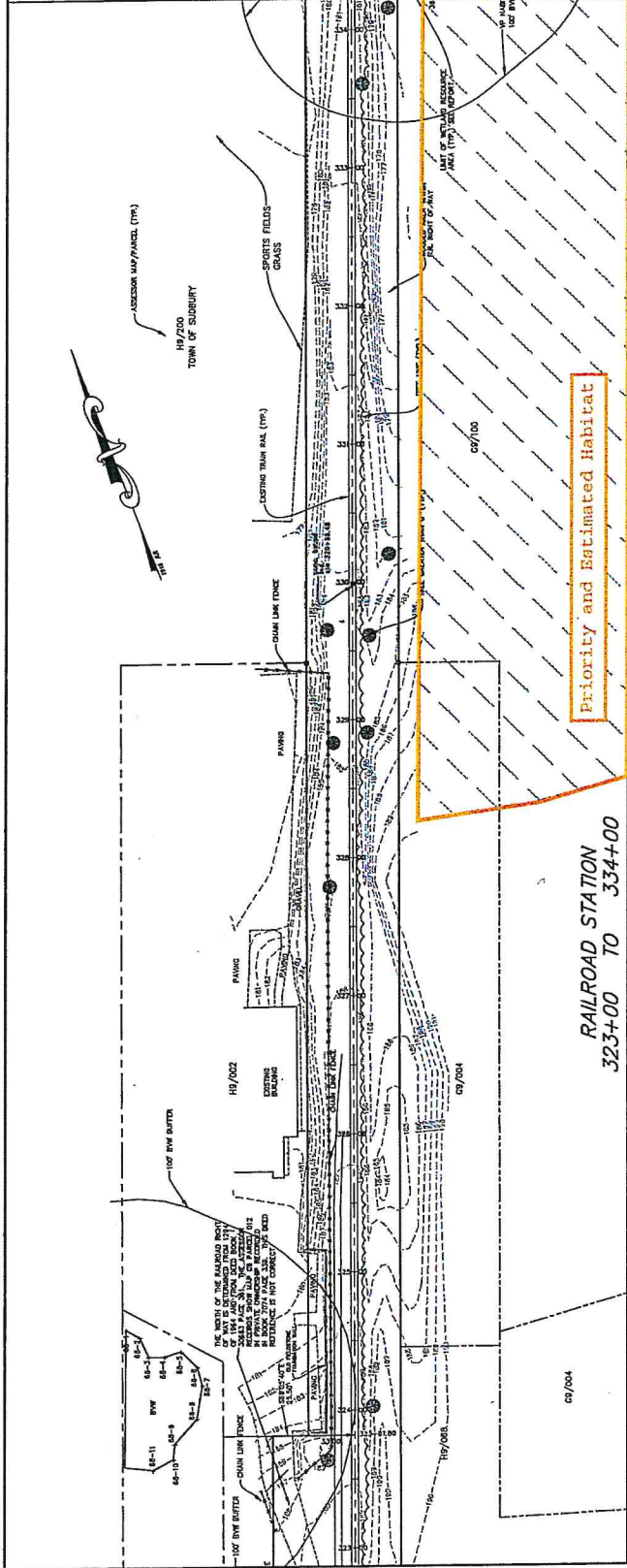
EXISTING CONDITIONS SURVEY PLAN
AT
PROPOSED RAIL TRAIL
IN
SUBBURY, MASS.

PREPARED FOR: TOWN OF SUBBURY
275 OLD LANCASTER ROAD
SUBBURY, MA 01776

DATE: JUNE 30, 2008 (1ST SUBMISSION)

NO.	DATE	DESCRIPTION
1	6/30/08	ISSUE FOR PERMIT
2	7/21/08	ISSUE FOR PERMIT
3	7/21/08	ISSUE FOR PERMIT
4	7/21/08	ISSUE FOR PERMIT

Scale: 1" = 40'



RAILROAD STATION 323+00 TO 334+00

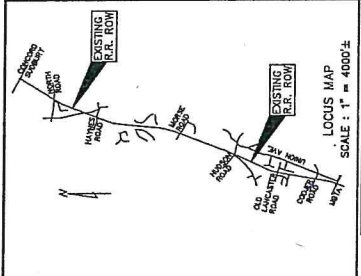
Priority and Estimated Habitat

RAILROAD STATION 312+00 TO 323+00

TREE/WOODS NOTE
378-0
WITHIN THE WOODS ARE AREAS OF GREATER HABITAT VALUE. THESE AREAS ARE SHOWN ON THE PLANS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND OFFICIALS.

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LOCUS MAP
SCALE: 1" = 4000'±

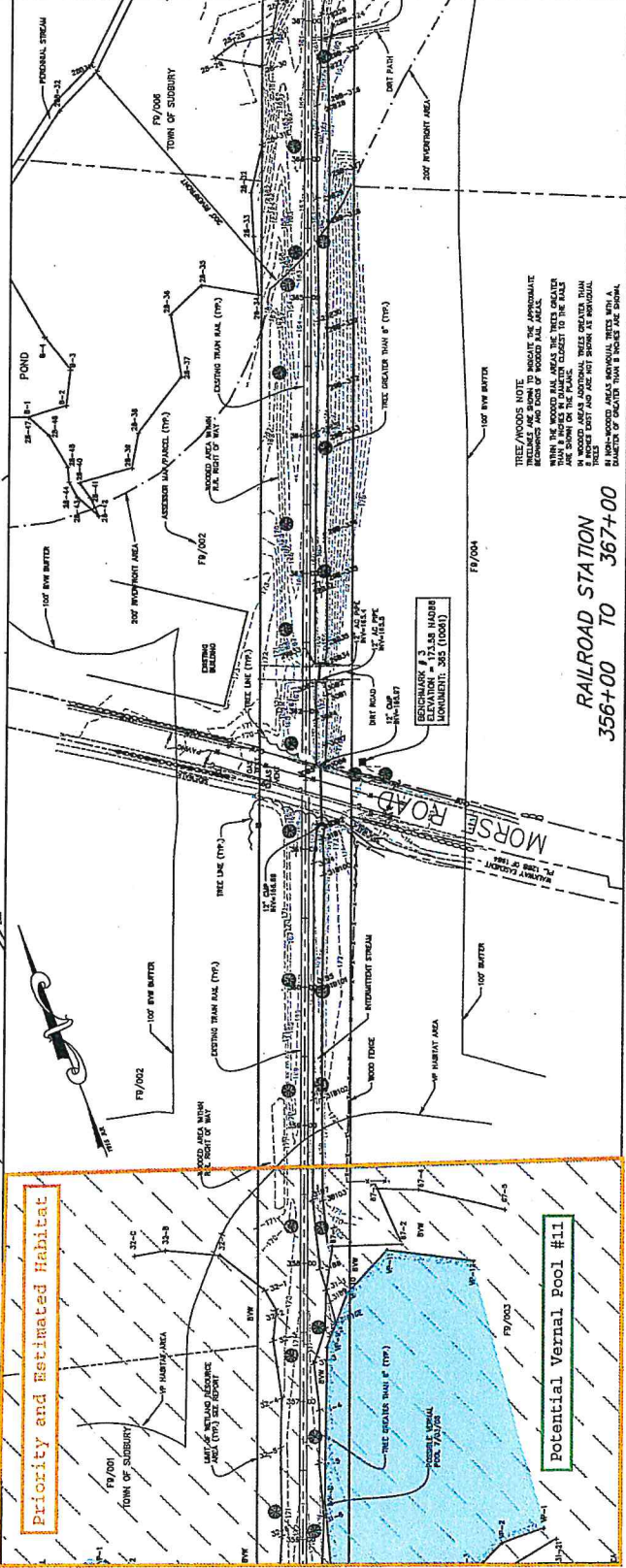
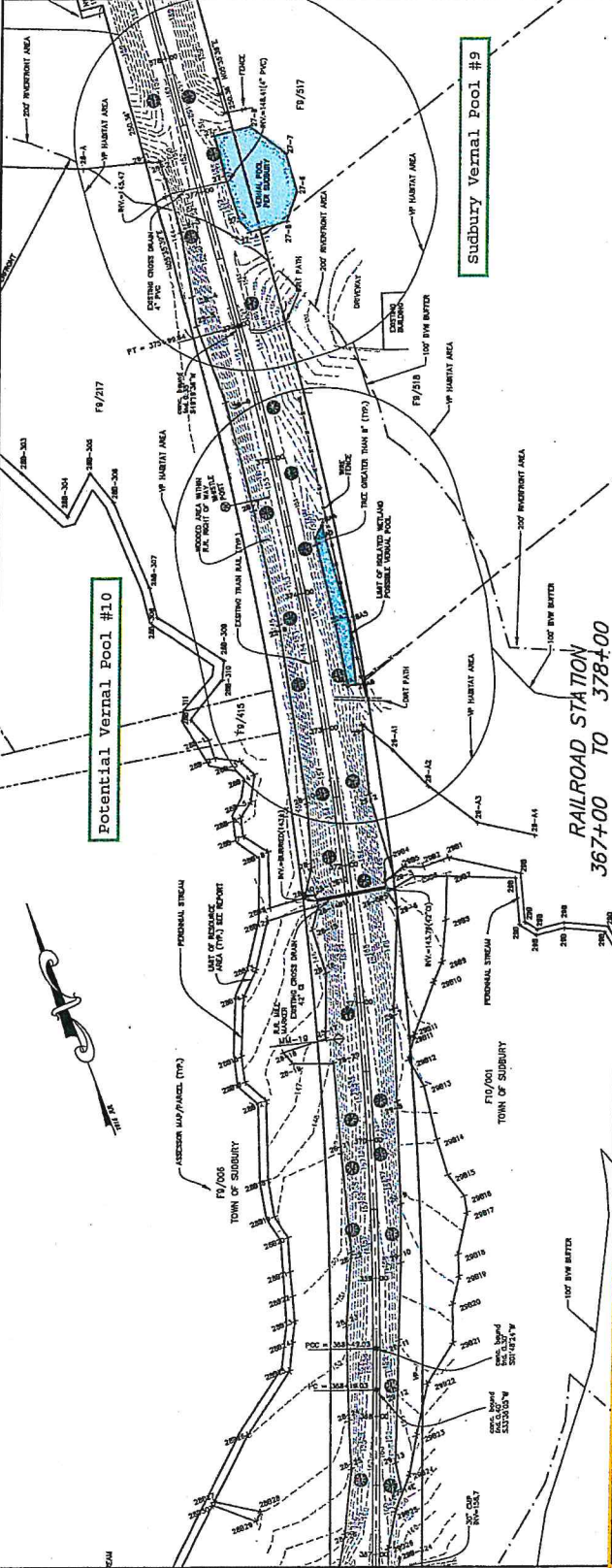
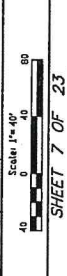
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EXISTING CONDITIONS SURVEY PLAN AT PROPOSED RAIL TRAIL IN SUDBURY, MASS.

PREPARED FOR: TOWN OF SUDBURY
275 OLD LANCASTER ROAD
SUDBURY, MA 01776

DATE: JUNE 30, 2008 (ST SUBMISSION)
SUBMITTED: 6/30/08
REVISED: 7/23/2008 (REV. PLAN, PLAN, TOWN)
3 3/24/2009 (REVISED)
4 7/22/2009 (REVISED)



TREE/WOODS NOTE
EXISTING WOODS ARE SHOWN BY THE SHADING AND THE DOTS OF WOODS ARE SHOWN ON THE PLAN. THE WOODS ARE SHOWN BY THE SHADING AND THE DOTS OF WOODS ARE SHOWN ON THE PLAN. THE WOODS ARE SHOWN BY THE SHADING AND THE DOTS OF WOODS ARE SHOWN ON THE PLAN.

RAILROAD STATION
356+00 TO 367+00

Priority and Estimated Habitat

Potential Vernal Pool #11

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