

**EcoTec, Inc.**  
**ENVIRONMENTAL CONSULTING SERVICES**  
102 Grove Street  
Worcester, MA 01605-2629  
508-752-9666 – Fax: 508-752-9494

July 15, 2020

Worcester Conservation Commission  
City of Worcester  
Planning & Regulatory Services Division  
455 Main Street, Room 404  
Worcester, MA 01608

RE: Notice of Intent under the Massachusetts Wetlands Protection Act and Worcester Wetlands Protection Ordinance: Proposed Parking Expansion; Assumption University, 500 Salisbury Street, Worcester, Massachusetts

To the Commission:

Enclosed please find three (3) copies (detailed below) of the Notice of Intent (“NOI”) filed under the Massachusetts Wetlands Protection Act (the “Act”) and the Worcester Wetlands Protection Ordinance for the above-referenced project. Also enclosed please find a check in the amount of \$262.50 to cover the Wetlands Protection Act NOI filing fee, Check in the amount of 200.00 to cover the Ordinance filing fee, and a check for \$25.00 to cover the Legal Advertisement fee. The \$237.50 state portion of the filing fee has been sent to the DEP lockbox. The work area and project are described in the attached plans, Hydrology and Stormwater Management Report, and Project Narrative.

This filing is comprised of:

1. This cover letter;
2. The Notice of Intent Form with all required Appendices and Attachments, including fee transmittal form and abutter notice information;
3. Wetland Resource Evaluation Report by EcoTec, Inc dated August 11, 2019;
4. Copies of “*Definitive Parking Plan- Assumption University*” (2 full size and 1 reduced) prepared by Quinn Engineering, dated May 1, 2020; and
5. Two (2) copies: *Hydrology and Stormwater Management Report* by Quinn Engineering, dated May 1, 2020.

The proposed project consists of the construction of paved parking spaces and associated stormwater management system, with related site work and stabilization. Wetland resource areas will be protected during construction by utilizing erosion control barrier consisting of silt fence and straw wattles. This will be monitored and maintained until the project has been completed.

**NOTE Re Abutter Notification Requirements:**

Abutter notifications are not required as stated in the abutter notification requirements at 310 CMR 10.05, which states:

*“An applicant who proposes work solely within Land under Water Bodies or Waterways, or solely within a Lot with an area greater than 50 acres, is required to provide notification only to Abutters whose Lot is within one hundred feet from the Project Site.”*

The Assumption University property exceeds 140-acres (see attached Assessor’s information) and no work is proposed within 100-feet of the property limits. Therefore, no abutter notification is required.

July 15, 2020

Worcester Conservation Commission

RE: NOI: Proposed Parking Expansion; Assumption University, 500 Salisbury Street, Worcester, Massachusetts

Page 2 of 2

We look forward to meeting with the Commission regarding this filing. If you have any questions or require any additional information, please feel free to contact me at any time.

Cordially,  
ECOTEC, INC.

A handwritten signature in blue ink that reads "Paul J. McManus". The signature is written in a cursive, flowing style.

Paul J. McManus., PWS  
President

C: MassDEP, CRO  
Todd Derderian, Director of Business - Assumption College  
Kevin Quinn, PE; Chris Keenan, Quinn Engineering

**Property Data:**

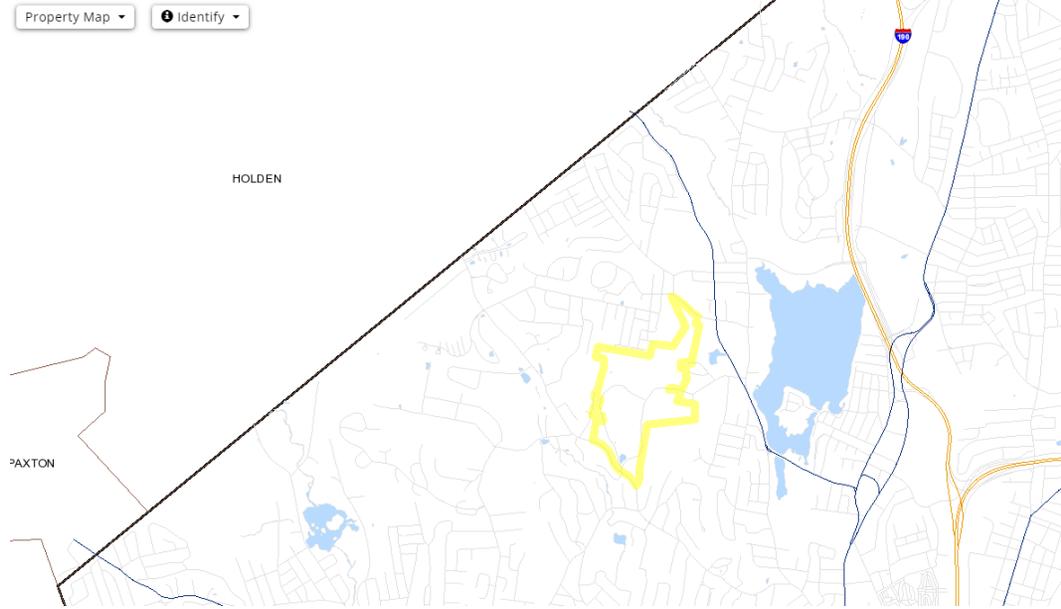
**MBL** 55-004-00001  
**Address** 500 SALISBURY ST  
**Area** 149.4200 Ac / 6508735 SqFt  
**Building(s)**  
**Use Code** 942  
**Zoning** IN-S  
**Description** COLLEGES AND UNIVERSITIES  
**Property Record** [Click here](#)

**Owner Information:**

**Name(s)** ASSUMPTION COLLEGE  
**Address** 500 SALISBURY ST  
**City, State, Zip** WORCESTER, MA 01609-1232

**Related Selections:**

- [All Properties on SALISBURY ST](#)
- [All IN-S Zones](#)



**Details >**

Property

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## 10.05: continued

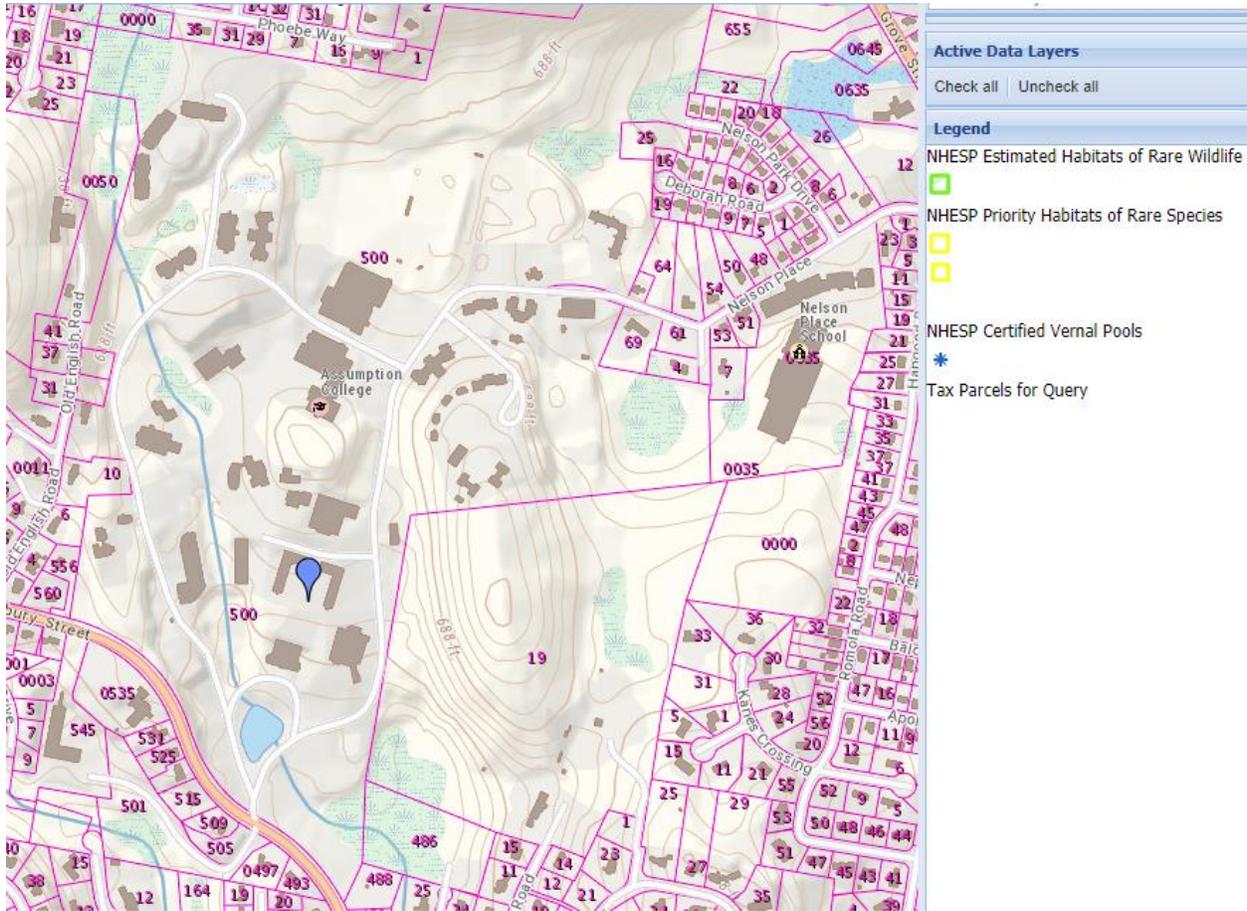
Concurrent with the filing of the Notice of Intent, the applicant shall provide notification to all Abutters. Notwithstanding the foregoing, the requirement to provide Abutter notification is subject to the following limits. An applicant is required to provide notification to an Abutter whose Lot is separated from the Project Locus by a public or private street or body of water only if the Abutter's Lot is within 100 feet from the property line of the Project Locus. An applicant who proposes work solely within Land under Water Bodies or Waterways, or solely within a Lot with an area greater than 50 acres, is required to provide notification only to Abutters whose Lot is within one hundred feet from the Project Site. An applicant proposing a Linear-shaped Project greater than 1,000 feet in length is required to provide notification only to Abutters whose Lot is within 1,000 feet from the Project Site. Abutter notification is not required for projects proposed by the Massachusetts Department of Transportation Highway Division pursuant to St. 1993, c. 472 as approved on January 13, 1994. The applicant shall provide notification at the mailing addresses shown on the most recent applicable tax list from the municipal assessor. Notification shall be at the applicant's expense. The notification shall state where within the municipality copies of the Notice of Intent may be examined or obtained and where information on the date, time, and location of the public hearing may be obtained. To ensure compatibility with local procedures, applicants must comply with any rules of the local conservation commission pertaining to the location for examining or obtaining the Notice of Intent and information about the hearing. The applicant shall provide written notification to all Abutters required to be notified by hand delivery or certified mail, return receipt requested, or by certificates of mailing. Mailing at least seven days prior to the public hearing shall constitute timely notice. The applicant shall present either the certified mail receipts or certificate of mailing receipts for all Abutters at the beginning of the public hearing. The presentation of the receipts for all abutters required to be notified as identified on the tax list shall constitute compliance with Abutter notification requirements. The conservation commission shall determine whether the applicant has complied with Abutter notification requirements. The Department will dismiss Requests for Action based on allegations of failure to comply with Abutter notification requirements, absent a clear showing by an Abutter seeking Department action that the applicant failed to notify the Abutter. An applicant submitting a Notice of Intent for a project that is also subject to 310 CMR 9.00: *Waterways* and/or 314 CMR 9.00: *401 Water Quality Certification for Discharge of Dredged or Fill Material, Dredging, and Dredged Material Disposal in Waters of the United States Within the Commonwealth* may provide joint public notice by appending to the public notice required by 310 CMR 9.13: *Public Notice and Participation Requirements* and/or 314 CMR 9.05: *Submission of an Application*, as applicable, notification that a Notice of Intent is pending before the issuing authority, provided the notification complies with 310 CMR 10.05(4). An applicant may provide a joint public notice, even if the Notice of Intent is not a Combined Application.

(b) For certain purposes, other forms of Notices may be used.

1. For certain projects, applicants may at their option use the Abbreviated Notice of Intent. This latter form may only be used when all three of the following circumstances exist:

- a. the proposed work is within the Buffer Zone, as defined in 310 CMR 10.04, or within Land Subject to Flooding, as defined in 310 CMR 10.57(2) or within the Riverfront Area, as defined in 310 CMR 10.58.
- b. the proposed work will disturb less than 1,000 square feet of surface area within the Buffer Zone and/or Land Subject to Flooding or less than 1000 square feet of riverfront area, provided the work conforms to 310 CMR 10.58(4)(c)2.a.
- c. the proposed work will not require U.S. Army Corps of Engineer Section 10 or

# Natural Heritage Atlas 7/15/2020







Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Worcester, MA

City/Town

## A. General Information (continued)

6. General Project Description:

Construction of additional parking spaces along the existing paved campus driveway, with stormwater management and associated grading and stabilization.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

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

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

- 1.  Yes  No      If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

Worcester

a. County

6889

c. Book

b. Certificate # (if registered land)

98

d. Page Number

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

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

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



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet	2. square feet
	3. cubic yards dredged	

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - <b>specify coastal or inland</b>	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: \_\_\_\_\_ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
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5. Has an alternatives analysis been done and is it attached to this NOI?  Yes  No

6. Was the lot where the activity is proposed created prior to August 1, 1996?  Yes  No

3.  Coastal Resource Areas: (See 310 CMR 10.25-10.35)

**Note:** for coastal riverfront areas, please complete **Section B.2.f.** above.



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

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

Online Users:  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	_____	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings



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### C. Other Applicable Standards and Requirements

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

#### Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

- a.  Yes  No **If yes, include proof of mailing or hand delivery of NOI to:**

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

7/15/2020 on-line

b. Date of map

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

- c. Submit Supplemental Information for Endangered Species Review\*

1.  Percentage/acreage of property to be altered:

(a) within wetland Resource Area

\_\_\_\_\_ percentage/acreage

(b) outside Resource Area

\_\_\_\_\_ percentage/acreage

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

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

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

(b)  Photographs representative of the site

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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

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

- (c)  MESA filing fee (fee information available at [http://www.mass.gov/dfwele/dfw/nhesp/regulatory\\_review/mesa/mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm)). Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

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

- (d)  Vegetation cover type map of site
- (e)  Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following
1.  Project is exempt from MESA review.  
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, [http://www.mass.gov/dfwele/dfw/nhesp/regulatory\\_review/mesa/mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm); the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)
  2.  Separate MESA review ongoing. \_\_\_\_\_ a. NHESP Tracking # \_\_\_\_\_ b. Date submitted to NHESP
  3.  Separate MESA review completed.  
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
- a.  Not applicable – project is in inland resource area only      b.  Yes     No

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

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
836 South Rodney French Blvd.  
New Bedford, MA 02744  
Email: [DMF.EnvReview-South@state.ma.us](mailto:DMF.EnvReview-South@state.ma.us)

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -  
North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930  
Email: [DMF.EnvReview-North@state.ma.us](mailto:DMF.EnvReview-North@state.ma.us)

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



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Worcester, MA
City/Town

**Online Users:**  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

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

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?  
 a.  Yes  No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.  
 b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?  
 a.  Yes  No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?  
 a.  Yes  No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?  
 a.  Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:  
 1.  Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)  
 2.  A portion of the site constitutes redevelopment  
 3.  Proprietary BMPs are included in the Stormwater Management System.  
 b.  No. Check why the project is exempt:  
 1.  Single-family house  
 2.  Emergency road repair  
 3.  Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

**D. Additional Information**

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

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

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

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



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

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

Provided by MassDEP:
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## D. Additional Information (cont'd)

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

<u>Definitive Parking Plan- Assumption Univerity (Quinn Eng.)</u>	
a. Plan Title	
<u>Quinn Engineering</u>	<u>Kevin Quinn, PE</u>
b. Prepared By	c. Signed and Stamped by
<u>May 1, 2020</u>	<u>1' = 20'</u>
d. Final Revision Date	e. Scale
<u>Hydrology and Stormwater Management Report (Quinn Eng)</u>	<u>5/1/2020</u>
f. Additional Plan or Document Title	g. Date
- 5.  If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6.  Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7.  Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8.  Attach NOI Wetland Fee Transmittal Form
- 9.  Attach Stormwater Report, if needed.

## E. Fees

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

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

<u>20397 (+ 20396 Ordinance fee)</u>	<u>7/15/2020</u>
2. Municipal Check Number	3. Check date
<u>20398</u>	<u>7/15/2020</u>
4. State Check Number	5. Check date
<u>EcoTec Inc.</u>	
6. Payor name on check: First Name	7. Payor name on check: Last Name



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Bureau of Resource Protection - Wetlands

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

Provided by MassDEP:

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## F. Signatures and Submittal Requirements

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

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

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

4. Date

7/15/2020

5. Signature of Representative (if any)

6. Date

### For Conservation Commission:

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

### For MassDEP:

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

### Other:

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

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



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

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



**A. Applicant Information**

1. Location of Project:

500 Salisbury Street Worcester  
 a. Street Address b. City/Town  
 state: 20398/ local: 20397 (& Ordinance 20396) \$500.00 (+ \$200.00 ordinance)  
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Todd Derderian  
 a. First Name b. Last Name  
 Director of Business Services, Assumption University  
 c. Organization  
 500 Salisbury Street  
 d. Mailing Address  
 Worcester MA 01609  
 e. City/Town f. State g. Zip Code  
 508-767-7392 tderderi@assumption.edu  
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

a. First Name b. Last Name  
 c. Organization  
 d. Mailing Address  
 e. City/Town f. State g. Zip Code  
 h. Phone Number i. Fax Number j. Email Address

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

**B. Fees**

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

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

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

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

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

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

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



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

**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category II (Parking lot)	1	500.00	500.00
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<b>Step 5/Total Project Fee:</b>			<u>\$500.00 + \$200 local</u>
<b>Step 6/Fee Payments:</b>			
Total Project Fee:			<u>\$500.00 + \$200 local</u> a. Total Fee from Step 5
State share of filing Fee:			<u>\$237.50</u> b. 1/2 Total Fee <b>less</b> \$12.50
City/Town share of filing Fee:			<u>\$262.50 + \$200 local</u> c. 1/2 Total Fee <b>plus</b> \$12.50

**C. Submittal Requirements**

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

Department of Environmental Protection  
 Box 4062  
 Boston, MA 02211

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

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

**EcoTec, Inc.**  
**ENVIRONMENTAL CONSULTING SERVICES**  
102 Grove Street  
Worcester, MA 01605-2629  
508-752-9666 – Fax: 508-752-9494

August 11, 2019

Todd Derderian  
Assumption College  
500 Salisbury Street  
Worcester, MA 01615

RE: Wetland Resource Evaluation, 500 Salisbury Street, Worcester, Massachusetts

Dear Mr. Derderian:

On July 8, 2019, EcoTec, Inc. inspected the above-referenced property for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the “Act”) and its implementing regulations (310 CMR 10.00 *et seq.*; the “Regulations”); (2) the U.S. Clean Water Act (i.e., Section 404 and 401 wetlands); and (3) the City of Worcester Wetlands Protection Ordinance and regulations. Scott M. Morrison, PWS conducted the inspection.

The subject site consists of a 1-acre portion of the site located to the north of Wachusett Hall and south of North Hall on the Assumption campus. The upland portions of the site consist of residence halls, existing access road, parking areas, lawn, landscaping and undeveloped forest. Plant species observed include northern red oak (*Quercus rubra*), white oak (*Quercus alba*), eastern white pine (*Pinus strobus*), black cherry (*Prunus serotina*), red maple (*Acer rubrum*), shag-bark hickory (*Carya ovata*), and white ash (*Fraxinus Americana*) trees and/or saplings; poison ivy (*Toxicodendron radicans*) and oriental bitter-sweet (*Celastrus orbiculata*) climbing woody vines; American witch-hazel (*Hamamelis virginiana*), winged euonymus (*Euonymus alata*), autumn elaeagnus (*Elaeagnus umbellate*), honeysuckle (*Lonicera sp.*), multiflora rose (*Rosa multiflora*), shrubs; and hayscented fern (*Dennstaedtia punctilobula*), teaberry (*Gaultheria procumbens*), partridge-berry (*Mitchella repens*), feather false-Solomon’s-seal (*Smilacina racemosa*), wild-lily-of-the-valley (*Maianthemum canadense*) ground cover. The wetland resources observed on the site are described below.

**Methodology**

The site was inspected, and areas suspected to qualify as wetland resources were identified. The boundary of Bordering Vegetated Wetlands was delineated in the field in accordance with the definition set forth in the regulations at 310 CMR 10.55(2)(c). Section 10.55(2)(c) states that “The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated

conditions exist.” The methodology used to delineate Bordering Vegetated Wetlands is further described in: (1) the BVW Policy “*BVW: Bordering Vegetated Wetlands Delineation Criteria and Methodology*,” issued March 1, 1995; and (2) “*Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act: A Handbook*,” produced by the Massachusetts Department of Environmental Protection, dated March 1995. The plant taxonomy used in this report is based on the *National List of Plant Species that Occur in Wetlands: Massachusetts* (Fish and Wildlife Service, U.S. Department of the Interior, 1988). Federal wetlands were presumed to have boundaries conterminous with the delineated Bordering Vegetated Wetlands. One set of DEP Bordering Vegetated Wetland Delineation Field Data Forms completed for observation plots located in the wetlands and uplands near flag B-14 is attached. The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the delineated wetland resources.

Flag Numbers	Flag Type	Wetland Types and Locations
Start A1 to A28 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands located in the eastern portion of the site north of Wachusett Hall that is associated with an intermittent stream.
Start B1 to B17 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands located in the western portion of the site north of the Living/learning Center that is associated with an intermittent stream.
Start SB1 to SB7 Stop	Red Flags	Edge of a Stormwater Management Basin to the north of the B series wetland

### Findings

Wetland A and B (i.e., flags A1 to A28 and B1 to B17) consists of a forest swamp located in the central portion of the site that is associated with an intermittent stream. Plant species observed include red maple (*Acer rubrum*), yellow birch (*Betula alleghaniensis*), gray birch (*Betula populifolia*), and American elm (*Ulmus americana*) trees and/or saplings; poison ivy (*Toxicodendron radicans*) and common greenbrier (*Smilax rotundifolia*) climbing woody vines; highbush blueberry (*Vaccinium corymbosum*), common winterberry (*Ilex verticillata*), arrow-wood (*Viburnum dentatum*), northern spicebush (*Lindera benzoin*), speckled alder (*Alnus rugosa*), silky dogwood (*Cornus amomum*), glossy buckthorn (*Rhamnus frangula*), sweet pepper-bush (*Clethra alnifolia*), swamp azalea (*Rhododendron viscosum*), and American elderberry (*Sambucus canadensis*) shrubs; and bristly blackberry (*Rubus hispidus*), cinnamon fern (*Osmunda cinnamomea*), sensitive fern (*Onoclea sensibilis*), skunk-cabbage (*Symplocarpus foetidus*), and swamp Jack-in-the-pulpit (*Arisaema triphyllum*) ground cover. Evidence of wetland hydrology, including hydric soils, high groundwater, saturated soils, evidence of flooding, and drainage patterns, was observed within the delineated wetland. This vegetated wetland borders an intermittent stream; accordingly, the vegetated wetlands would be regulated as Bordering Vegetated Wetlands and the intermittent stream would be regulated as

500 Salisbury Street, Worcester

August 11, 2019

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Bank under the Act and Ordinance. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands under the Act and Ordinance.

With regard to the jurisdictional status of constructed stormwater basins under the Act, the 2014 revisions to the Regulations at 310 CMR 10.02(2)(c) state that *“Notwithstanding the provisions of 310 CMR 10.02(1) and (2)(a) and (b), stormwater management systems designed, constructed, installed, operated, maintained, and/or improved as defined in 310 CMR 10.04 in accordance with the Stormwater Management Standards as provided in the Stormwater Management Policy (1996) or 310 CMR 10.05(6)(k) through (q) do not themselves constitute Areas Subject to Protection under M.G.L. c. 131, § 40 or Buffer Zone provided that: (1) the system was designed, constructed, installed, and/or improved as defined in 310 CMR 10.04 on or after November 18, 1996; and (2) if the system was constructed in an Area Subject to Protection under M.G.L. c. 131, § 40 or Buffer Zone, the system was designed, constructed, and installed in accordance with all applicable provisions in 310 CMR 10.00.”* The two basins observed on the site (one partially flagged by SB1 through SB7 as well as the fenced basin in the southeastern portion of the site appear to be recently constructed and would appear to fall under this exemption.

Bordering Land Subject to Flooding is an area that floods due to a rise in floodwaters from a bordering waterway or water body. Where flood studies have been completed, the boundary of Bordering Land Subject to Flooding is based upon flood profile data prepared by the National Flood Insurance Program. Section 10.57(2)(a)3. states that *“The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm.”* Based upon a review of the Flood Insurance Rate Map, Worcester County, Massachusetts, Map Number 25027C0612E, Effective Date July 4, 2011, the site is mapped as Other Areas: Zone X, which is defined as areas located outside of the 0.2% annual chance flood (i.e., outside of 500-year floodplain). The project engineer should evaluate the most recent National Flood Insurance Program flood profile data to determine if Bordering Land Subject to Flooding occurs on the site. Bordering Land Subject to Flooding would occur in areas where the 100-year flood elevation is located outside of or upgradient of the delineated Bordering Vegetated Wetlands boundary. Bordering Land Subject to Flooding does not have a Buffer Zone under the Act.

The Massachusetts Rivers Protection Act amended the Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (i.e., Worcester North Quadrangle, dated 1983, attached) and observations made during the site inspection, a stream that is not shown on the USGS Map is located in the central portion of the site. The watershed area for this stream at the site was determined to be approximately 0.02 square miles, which is less than 0.5 square miles. It should be noted that the centerline of the stream is not available on StreamStats, therefore a calculated watershed is not available. As such, the stream would be designated intermittent under the Massachusetts Wetlands Protection Act regulations. Furthermore, based upon a review of the current USGS Map and observations

500 Salisbury Street, Worcester

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made during the site inspection, there are no other mapped or unmapped streams located within 25 feet of the site. Accordingly, Riverfront Area would not occur on the site. Riverfront Area does not have a Buffer Zone under the Act.

The Regulations require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, 14<sup>th</sup> edition, Priority Habitats and Estimated Habitats from the NHESP Interactive Viewer, valid from August 1, 2017, and Certified Vernal Pools from MassGIS, there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. A copy of this map is attached.

The reader should be aware that the regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. A brief description of my experience and qualifications is attached. If you have any questions, please feel free to contact me at any time.

Cordially,  
ECOTEC, INC.



Scott M. Morrison, PWS  
Senior Environmental Scientist

Attachments (6 8 pages)

17/E/WorcesterSalisbury500Report2019.7.11

# EcoTec, Inc.

## ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street

Worcester, MA 01605-2629

508-752-9666 – Fax: 508-752-9494

### **Scott M. Morrison, PWS, RPSS, SE** **Senior Environmental Scientist**

Scott Morrison is a Senior Environmental Scientist with EcoTec, Inc. Since joining EcoTec in 2000, Mr. Morrison's project experience include wetland resource evaluation, delineation, and permitting at the local, state, and federal levels; wildlife habitat evaluation; pond and stream evaluation; vernal pool evaluation, monitoring, and certification; wetland replacement, replication, and restoration area design, construction, and monitoring; soil evaluations to determine infiltration rates and seasonal high groundwater elevations for detention basin construction; environmental sampling and analysis tasks, including soil and groundwater sample collection and handling; and expert testimony preparation. He has conducted rare species habitat assessments for the eastern box turtle, wood turtle, Blanding's turtle, spotted turtle, and marbled salamander. He has participated in rare species studies for rare species including the marbled salamander, piping plover, eastern box turtle, and northern diamondback terrapin and developed mitigation strategies for the marbled salamander, spotted turtle, eastern box turtle and wood turtle. He has participated in visual preconstruction sweeps for the wood turtle and both preconstruction and research projects for the eastern box turtle. He has served as a consultant to municipalities, conservation commissions, engineering and survey firms. He has completed numerous wetland related projects including environmental impact assessments for proposed development, erosion control and environmental monitoring for subdivisions, commercial developments, golf courses and landfills. He has prepared Massachusetts Environmental Policy Act (MEPA) documentation, including Environmental Notification Forms (ENFs), Notice of Project Changes (NPCs), and Draft and Final Environmental Impact Reports (EIRs) including Green House Gas Assessments for various projects including subdivisions, commercial buildings, and dredging projects. Prior to joining EcoTec, Inc. Mr. Morrison worked for the Massachusetts Department of Environmental Management (currently the Department of Conservation and Recreation) where he was involved with the monitoring and protection of endangered species and rare old growth forest. He was an active member of the Spencer Conservation Commission from 1998 to 2000 where he provided oversight of proposed wetland replication projects and review of projects submitted for wetland permitting. His educational background includes courses in forestry, ecology, chemistry, soils, and natural resource policy. His prior research experience includes research on forest succession and field research on nesting piping plovers, an endangered coastal shore bird.

#### **Education:**

Graduate Soil Science Certificate Program  
University of Massachusetts at Amherst, 2006  
Bachelor of Science: Natural Resource Studies  
University of Massachusetts at Amherst, 1998  
Associate of Science: Business Administration  
Quinsigamond Community College, 1996

#### **Professional Affiliations:** Registered Professional Soil Scientist, Society of Soil Scientists of Southern New England (SSSSNE)

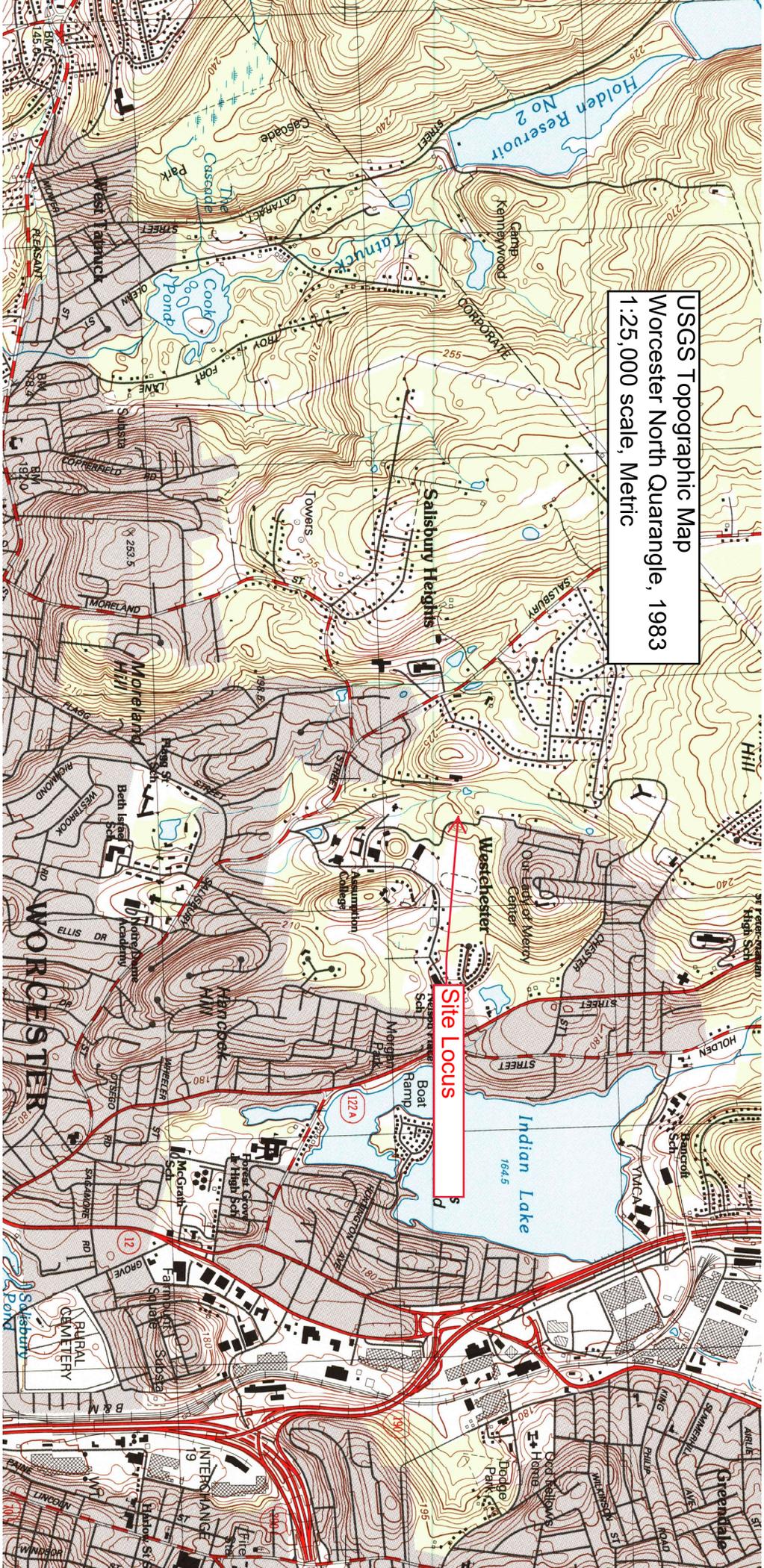
Massachusetts Association of Conservation Commissioners  
Association of Massachusetts Wetland Scientists  
Society of Wetland Scientists

#### **Certifications:**

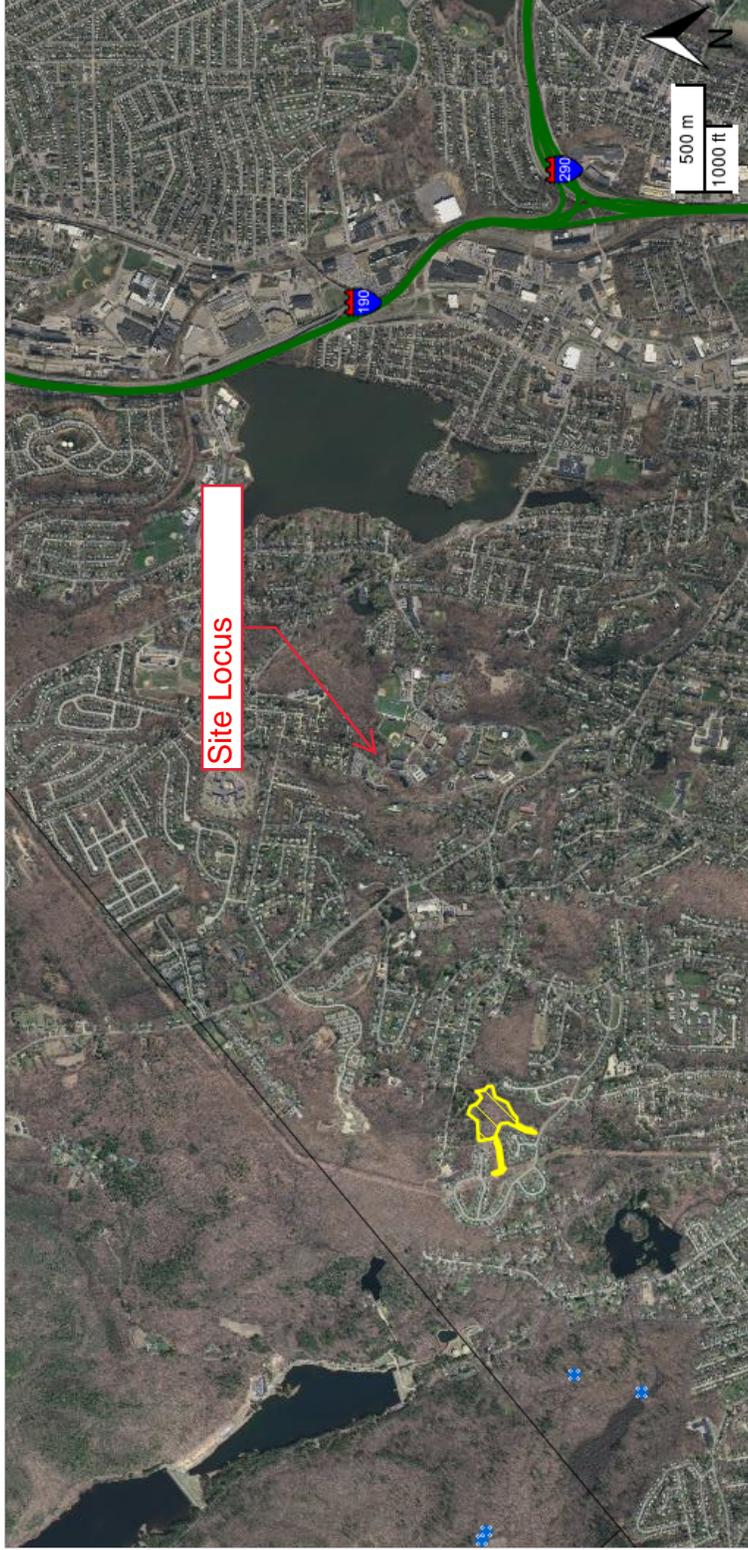
Society of Wetlands Scientists Professional Wetland Scientist,  
Certification Number 2583  
Massachusetts Department of Environmental Protection Soil Evaluator,  
Certification Number SE 13766  
OSHA Health and Safety Training, 40-Hour, 29 CFR 1910.120  
University of Massachusetts Extension, Invasive Species Management

USGS Topographic Map  
Worcester North Quadrangle, 1983  
1:25,000 scale, Metric

Site Locus



Natural Heritage Atlas Online Data Viewer Output 6.19.19



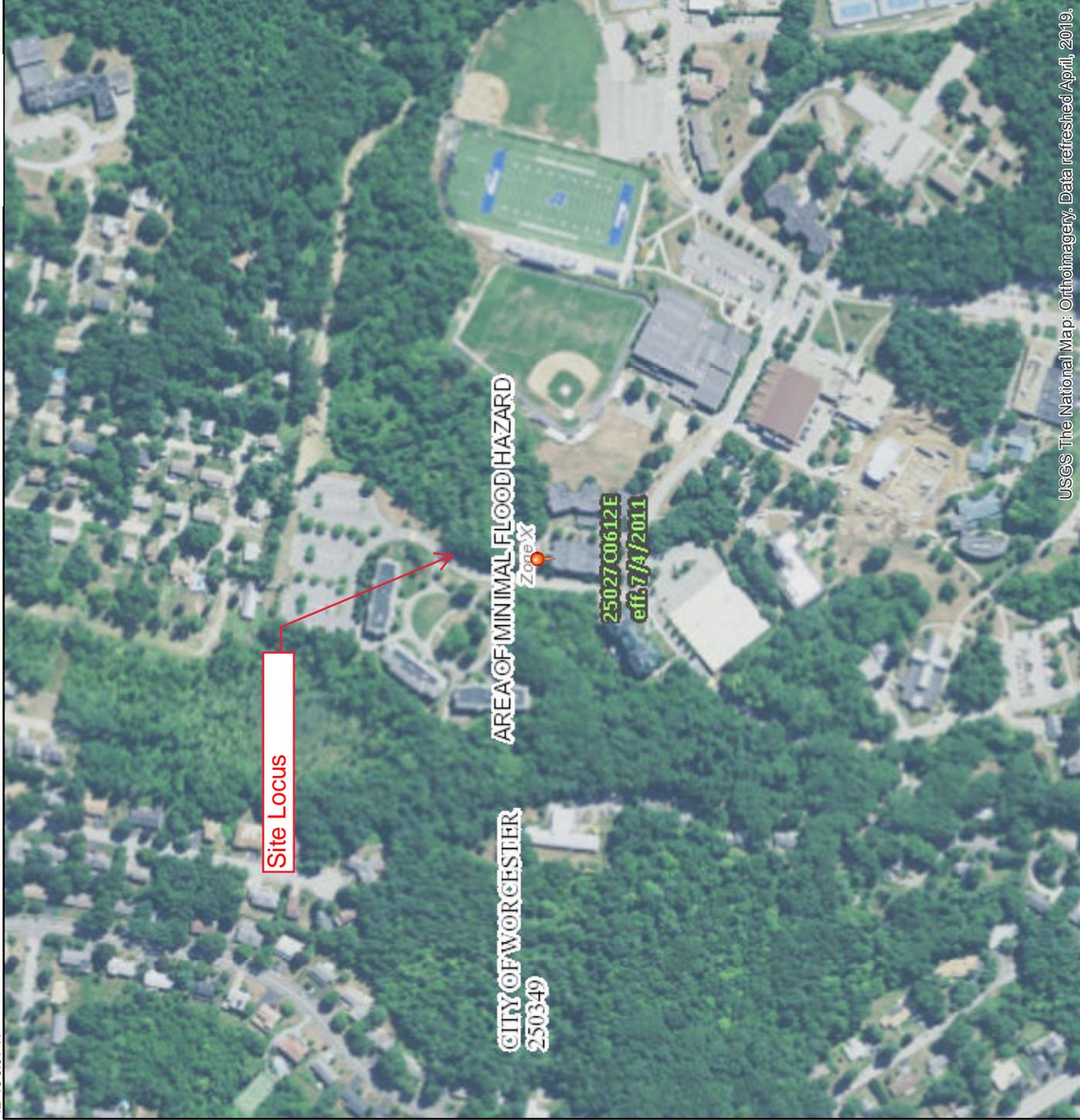
- NHESP Certified Vernal Pools \*
- Major MassDOT Routes
- Interstate Highways
- US Roads
- State
- Massachusetts Towns
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Priority Habitats of Rare Species
- Orthos 2013-2014
- 2013-2014 Color Orthos (USGS)

# National Flood Hazard Layer FIRMette



42° 180.37"N

71° 508.11"W



USGS The National Map: Orthoimagery. Data refreshed April, 2019.

42° 17'33.76"N

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

**SPECIAL FLOOD HAZARD AREAS**

Without Base Flood Elevation (BFE)  
Zone A, V, A99  
With BFE or Depth Zone AE, AO, AH, VE, AR  
Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone D

**OTHER AREAS OF FLOOD HAZARD**

NO SCREEN  
Area of Minimal Flood Hazard Zone X  
Effective LOMRS

Area of Undetermined Flood Hazard Zone D

**OTHER AREAS**

Channel, Culvert, or Storm Sewer  
Levee, Dike, or Floodwall

**GENERAL STRUCTURES**

20.2  
17.5  
Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

**OTHER FEATURES**

Digital Data Available

No Digital Data Available

Unmapped

**MAP PANELS**



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/19/2019 at 11:56:21 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

71° 49' 30.65" W



# DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Form

Applicant: \_\_\_\_\_ Prepared by: EcoTec, Inc Project Location: Salisbury St., Worcester DEP File # \_\_\_\_\_

Section I. Vegetation Number: Upland \_\_\_\_\_ Transect # B-14 Date of Delin: 7/8/2019

A. Sample layer and plant species (Enter largest to smallest % cover by layer)	Percent Cover (or basal area)	Percent Dominance	Dominant Plant?	Wetland Indicator Category
Tree				
red maple	20		25.0 YES	FAC *
red oak	40		50.0 YES	FACU-
white ash	20		25.0 YES	FACU
Sapling				
shagbark hickory	20		100.0 YES	FACU-
Shrub				
red maple	40		66.7 YES	FAC *
witch hazel	20		33.3 YES	FAC-
Ground				
black cherry	20		33.3 YES	FACU
cinnamon fern	40		66.7 YES	FACW *
Vine				

## Vegetation Conclusions

Number of dominant wetland indicator plants **3**

Number of dominant non-wetland indicator plants **5**

Is the number of dominant wetland plants equal or greater than the number of dominant non-wetland plants? **NO**

# DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Form

Applicant: [redacted] Prepared by: EcoTec, Inc Project Location: Salisbury St., Worcester DEP File # [redacted]  
 Section II. Indicators of Hydrology Number: Upland Transect # B-14 Date of Delin: 7/8/2019

### 1. Soil Survey

Is there a published soil survey for this site?

title/date  
map number  
soil type mapped  
hydric soil inclusions

Are field observations consistent with soil survey?

Remarks:

### 2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottle Color
A	0-6	10YR 2/1	
Bw	6-12+	10Yr4/6	

Remarks stony, fine sandy loam

### 3. Other

### Other Indicators of hydrology (check all that apply):

- 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 BVWs
- Oxidized rhizospheres
- Water stained leaves
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):
- Other:

### Vegetation and Hydrology Conclusion

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

Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
-----	--------------------------	----	-------------------------------------
- Wetland hydrology present:
  - Hydric soil present
  - Other indicators of hydrology present
- Sample Location is in a BVW

### Conclusion: Is the soil hydric?

No

# DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Form

Applicant: \_\_\_\_\_ Prepared by: EcoTec, Inc Project Location: Salisbury St., Worcester DEP File # \_\_\_\_\_

Section I. Vegetation Number: Wetland Transect # B-14 Date of Delin: 7/8/2019

A. Sample layer and plant species (Enter largest to smallest % cover by layer)	Percent Cover (or basal area)	Percent Dominance	Dominant Plant?	Wetland Indicator Category
Tree				
red maple	60		75.0 YES	FAC *
black locust	20		25.0 YES	FACU-
Sapling	20		100.0 YES	FACU-
shagbark hickory				
Shrub	30		100.0 YES	FACW+ *
winterberry				
Ground				
cinnamon fern	60		60.0 YES	FACW *
virginia creeper	20		20.0 YES	FACU
poison ivy	20		20.0 YES	FAC *
Vine				

Vegetation Conclusions	
Number of dominant wetland indicator plants	4
Is the number of dominant wetland plants equal or greater than the number of dominant non-wetland plants?	Number of dominant non-wetland indicator plants YES

# DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Form

Applicant: [redacted] Prepared by: EcoTec, Inc Project Location: Salisbury St., Worcester DEP File # [redacted]  
 Section II. Indicators of Hydrology Number: Wetland Transect # B-14 Date of Delin: 7/8/2019

**1. Soil Survey**

Is there a published soil survey for this site?  
 title/date [redacted]  
 map number [redacted]  
 soil type mapped [redacted]  
 hydric soil inclusions [redacted]

Are field observations consistent with soil survey?  
 [redacted]

Remarks: [redacted]

**2. Soil Description**

Horizon	Depth (inches)	Matrix Color	Mottle Color
O	0-10	[redacted]	[redacted]
R	10+	[redacted]	[redacted]

**Other Indicators of hydrology (check all that apply):**

- Site Inundated [redacted]
- Depth to free water in observation hole surface
- Depth to soil saturation in observation hole surface
- Water marks [redacted]
- Drift lines [redacted]
- Sediment Deposits [redacted]
- Drainage patterns in BVWs [redacted]
- Oxidized rhizospheres [redacted]
- Water stained leaves [redacted]
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): [redacted]
- Other: [redacted]

**Vegetation and Hydrology Conclusion**

Number of wetland indicator plants ≥ number of non-wetland indicator plants  
 Yes  No

Wetland hydrology present:  
 Hydric soil present   
 Other indicators of hydrology present

Sample Location is in a BVW

Remarks: [redacted]

**3. Other** [redacted]

**Conclusion: Is the soil hydric?** Yes