NOTICE OF INTENT

149 West Boylston Drive

Worcester, Massachusetts

Prepared for:
City of Worcester
Department of Public Works and Parks
50 Skyline Drive
Worcester, MA 01605

Prepared by:
BEALS + THOMAS
BEALS AND THOMAS, INC.
Reservoir Corporate Center
144 Turnpike Road
Southborough, MA 01772-2104

Submitted in Compliance with the Massachusetts Wetlands Protection Act and the City of Worcester Wetlands Protection Ordinance and Wetlands Protection Regulations

April 29, 2020
April 29, 2020

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

Via: email: planning@worcesterma.gov

Reference:
Notice of Intent
149 West Boylston Drive
Worcester, Massachusetts
B+T Project No. 2407.05

Dear Commissioners:

On behalf of the City of Worcester Department of Public Works and Parks (WDPW&P or the Applicant), Beals and Thomas, Inc. (B+T) respectfully submits this Notice of Intent (NOI) for vegetative management within Bordering Land Subject to Flooding and the local and state 100-foot buffer zones to Bank and Bordering Vegetated Wetland (BVW) at the 149 West Boylston Drive property.

This filing is submitted in accordance with the Massachusetts Wetlands Protection Act, MGL, Chapter 131, Section 40 and associated Regulations at 310 CMR 10.00 (collectively referred to as the Act) and the City of Worcester Wetlands Protection Ordinance and Wetlands Protection Regulations (collectively referred to as the Ordinance).

As required, this NOI is being submitted electronically. The following information is included for your review:

Section 1: Notice of Intent Forms
Section 2: Project Narrative
Section 3: Abutter Information
Section 4: Wetland Boundary Documentation
Section 5: Plans.

As required, a copy of this filing has been provided to the Central Regional Office of the Department of Environmental Protection (MassDEP). Pursuant to requirements of the Act and Ordinance, abutters within 100 feet of the subject property have been notified via certified mail concurrent with the date of this submission that this NOI has been filed with the Worcester Conservation Commission.
The Applicant requests that the Commission waive the requirements of Section 7.2 Fees of the Ordinance as the Applicant is the City of Worcester. We understand that the Commission will publish the notice of public hearing in the Worcester Telegram and Gazette.

Should you have any questions regarding this matter or require additional information, please contact us at (508) 366-0560. We thank you for your consideration of this NOI and look forward to meeting with the Commission at the next available public hearing.

Very truly yours,

BEALS AND THOMAS, INC.

David J. LaPointe, RLA
Principal

Stacy H. Minihane, PWS
Senior Associate

Enclosures

cc: Stefanie Covino, Conservation Planner (via email: CovinoS@worcesterma.gov)
Worcester City Clerk (via email: clerk@worcesterma.gov)
Commonwealth of Massachusetts Highway Department (1 copy via Certified Mail)
MassDEP Central Regional Office (1 copy via Certified Mail and email:
CERO_NOI@mass.gov)
Cesar Valiente, Worcester Department of Public Works and Parks (1 copy via email)

SHM/djl/aak/240705NI001
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Section 1.0
Notice of Intent Forms
Notice of Intent (WPA Form 3)
Wetland Fee Transmittal Form
**A. General Information**

1. **Project Location** *(Note: electronic filers will click on button to locate project site):*
   - 149 West Boylston Drive
   - Worcester 01606
   - Latitude and Longitude: 42.298364° -71.799319°
   - f. Assessors Map-Block-Lot

2. **Applicant:**
   - Robert Antonelli, Jr.
   - a. First Name
   - City of Worcester Department of Public Works and Parks
   - b. Last Name
   - c. Organization
   - 50 Skyline Drive
   - d. Street Address
   - Worcester MA 01605
   - e. City/Town
   - f. State
   - g. Zip Code
   - h. Phone Number
   - i. Fax Number
   - j. Email Address

3. **Property owner (required if different from applicant):**
   - a. First Name
   - Commonwealth of Massachusetts Highway Department
   - b. Last Name
   - c. Organization
   - 10 Park Plaza Room 6160
   - d. Street Address
   - Boston MA 02116
   - e. City/Town
   - f. State
   - g. Zip Code
   - h. Phone Number
   - i. Fax Number
   - j. Email address

4. **Representative (if any):**
   - David LaPointe
   - a. First Name
   - Beals and Thomas, Inc.
   - b. Last Name
   - c. Company
   - 144 Turnpike Road
   - d. Street Address
   - Southborough MA 01772
   - e. City/Town
   - f. State
   - g. Zip Code
   - (508) 366-0560
   - dlapointe@bealsandthomas.com
   - h. Phone Number
   - i. Fax Number
   - j. Email address

5. **Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):**
   - NA- exempt as municipality
   - a. Total Fee Paid
   - b. State Fee Paid
   - c. City/Town Fee Paid
A. General Information (continued)

6. General Project Description:
   Removal of existing early successional and invasive trees and shrubs and replacement with meadow habitat

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. [x] Other: Recreational

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  [x] 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
   5401
   b. Certificate # (if registered land)
   436
   c. Book
   d. Page Number

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

1. [ ] Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2. [x] 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  

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

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

<table>
<thead>
<tr>
<th>Resource Area</th>
<th>Size of Proposed Alteration</th>
<th>Proposed Replacement (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Bank</td>
<td>1. linear feet</td>
<td>2. linear feet</td>
</tr>
<tr>
<td>b. Bordering Vegetated Wetland</td>
<td>1. square feet</td>
<td>2. square feet</td>
</tr>
<tr>
<td>c. Land Under Waterbodies and Waterways</td>
<td>1. square feet</td>
<td>2. square feet</td>
</tr>
<tr>
<td></td>
<td>3. cubic yards dredged</td>
<td></td>
</tr>
<tr>
<td>d. Bordering Land Subject to Flooding</td>
<td>131,000 sf</td>
<td>n/a - Temporary disturbance</td>
</tr>
<tr>
<td></td>
<td>1. square feet</td>
<td>2. square feet</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>4. cubic feet replaced</td>
</tr>
<tr>
<td></td>
<td>3. cubic feet of flood storage lost</td>
<td>0</td>
</tr>
<tr>
<td>e. Isolated Land Subject to Flooding</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. cubic feet of flood storage lost</td>
<td>3. cubic feet replaced</td>
</tr>
<tr>
<td>f. Riverfront Area</td>
<td>1. Name of Waterway (if available) - specify coastal or inland</td>
<td></td>
</tr>
</tbody>
</table>

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.

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 ☐

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

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

<table>
<thead>
<tr>
<th>Resource Area</th>
<th>Size of Proposed Alteration</th>
<th>Proposed Replacement (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Designated Port Areas</td>
<td>Indicate size under Land Under the Ocean, below</td>
<td></td>
</tr>
<tr>
<td>b. Land Under the Ocean</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. cubic yards dredged</td>
<td></td>
</tr>
<tr>
<td>c. Barrier Beach</td>
<td>Indicate size under Coastal Beaches and/or Coastal Dunes below</td>
<td></td>
</tr>
<tr>
<td>d. Coastal Beaches</td>
<td>1. square feet</td>
<td>2. cubic yards beach nourishment</td>
</tr>
<tr>
<td>e. Coastal Dunes</td>
<td>1. square feet</td>
<td>2. cubic yards dune nourishment</td>
</tr>
<tr>
<td>f. Coastal Banks</td>
<td>1. linear feet</td>
<td></td>
</tr>
<tr>
<td>g. Rocky Intertidal Shores</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td>h. Salt Marshes</td>
<td>1. square feet</td>
<td>2. sq ft restoration, rehab., creation</td>
</tr>
<tr>
<td>i. Land Under Salt Ponds</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. cubic yards dredged</td>
<td></td>
</tr>
<tr>
<td>j. Land Containing Shellfish</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td>k. Fish Runs</td>
<td>Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. cubic yards dredged</td>
<td></td>
</tr>
<tr>
<td>l. Land Subject to Coastal Storm Flowage</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td>4. Restoration/Enhancement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. square feet of BVW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. square feet of Salt Marsh</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Project Involves Stream Crossings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. number of new stream crossings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. number of replacement stream crossings</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

   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

      MassGIS viewed 4/24/20

      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).

2. ☐ Submit Supplemental Information for Endangered Species Review*

   1. Percentage/acreage of property to be altered:

      ☐ within wetland Resource Area percentage/acreage

      ☐ 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 **

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

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

(c) ☐ MESA filing fee (fee information available at http://www.mass.gov/dfwle/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/dfwle/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

   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

   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.
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 

   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

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.

   149 West Boylston Drive
   a. Plan Title
   Beals and Thomas, Inc.
   b. Prepared By
   David J. LaPointe, RLA
   c. Signed and Stamped by
   4/28/2020
   d. Final Revision Date
   1”=30’
   e. Scale
   Notice of Intent narrative and attachments
   4/29/20
   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


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:

   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
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
   [Signature]

3. Signature of Property Owner (if different)
   [Signature]

5. Signature of Representative (if any)
   [Signature]

2. Date
   5/13/2020

4. Date
   4/28/20

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

A. Applicant Information

1. Location of Project:
   149 West Boylston Drive
   a. Street Address
   b. City/Town: Worcester
   NA- exempt as municipality
c. Check number
d. Fee amount

2. Applicant Mailing Address:
   Robert Antonelli, Jr.
a. First Name
b. Last Name
   City of Worcester Department of Public Works and Parks
c. Organization
   50 Skyline Drive
d. Mailing Address
   Worcester E. MA 01605
   f. State
   g. Zip Code
   (508) 799-1190
   h. Phone Number
   i. Fax Number
   antonelli.r@worcesterma.gov
   j. Email Address

3. Property Owner (if different):
a. First Name
b. Last Name
   Commonwealth of Massachusetts Highway Department
c. Organization
   10 Park Plaza Room 6160
d. Mailing Address
   Boston E. MA 02116
   f. State
   g. Zip Code
   h. Phone Number
   i. Fax Number
   j. Email Address

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.
### B. Fees (continued)

<table>
<thead>
<tr>
<th>Step 1/Type of Activity</th>
<th>Step 2/Number of Activities</th>
<th>Step 3/Individual Activity Fee</th>
<th>Step 4/Subtotal Activity Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA – exempt as municipality</td>
<td></td>
<td></td>
<td></td>
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**Step 5/Total Project Fee:**

**Step 6/Fee Payments:**

- **Total Project Fee:**
  - a. Total Fee from Step 5
- **State share of filing Fee:**
  - b. 1/2 Total Fee less $12.50
- **City/Town share of filing Fee:**
  - c. 1/2 Total Fee plus $12.50

### C. Submittal Requirements

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

Department of Environmental Protection
Box 4062
Boston, MA 02211

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

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

2.1 Introduction
The subject property is an approximately 4.2 acre undeveloped but historically disturbed site situated between the eastern shore of Indian Lake and Interstate 190, with Mattson Avenue and associated residences to the south. A manmade retaining wall extends along much of the property’s boundary with Indian Lake.

The property is owned by the Commonwealth of Massachusetts Highway Department and is leased by the City of Worcester. WDPW&P intends to clear the existing thick brush from the property and replace it with a meadow habitat that can be mowed approximately one to two times per year.

2.2 Existing Conditions
An existing access path enters the property from the southeast, extends north for a short distance and then turns westerly to Indian Lake. Outside of this path, the property is comprised of multiple vegetative communities which vary in density and composition. Non-native, invasive species such as Japanese knotweed (*Fallopia japonica*), multiflora rose (*Rosa multiflora*), and Asiatic bittersweet (*Celastrus orbiculatus*), among others, are prevalent throughout the property. The areas to the north of the existing path are similar to that of the south with the exception that the understory of the wooded area to the north was more densely vegetated with shrub growth than the area near the adjacent residential development.

During the site visit, an evaluation was undertaken to identify potentially significant trees, with particular attention to the presence of any that were approximately twenty feet in height or greater. Generally, these larger trees include eastern red cedar (*Juniperus virginiana*), tree-of-heaven (*Ailanthus altissima*, invasive), pin cherry (*Prunus pensylvanica*), and cottonwood (*Populus deltoides*), among others. However, each tree was either an invasive species (i.e., large stands of tree-of-heaven) or were encapsulated by multiflora rose (*Rosa multiflora*) and bittersweet (*Celastrus orbiculatus*) growth.

The table on the following page provides an overview of the vegetation throughout the property.
### Common Name | Botanical Name
--- | ---
**Trees and Shrubs**
Quaking aspen & *Populus tremuloides*
Autumn olive* & *Elaeagnus umbellata*
Multiflora rose* & *Rosa multiflora*
Japanese barberry* & *Berberis thunbergii*
Black locust* & *Robinia pseudoacacia*
Staghorn sumac & *Rhus hirta*
Silky dogwood (isolated) & *Cornus amomum*
Catalpa* & *Catalpa speciosa*
Morrow’s honeysuckle* & *Lonicera morrowii*
Eastern red cedar & *Juniperus virginiana*
Black cherry & *Prunus serotina*
Pin Cherry & *Prunus pensylvanica*
Hawthorn & *Crataegus spp.*
Cottonwood & *Populus deltoides*
Tree-of-heaven* & *Ailanthus altissima*
Sassafras & *Sassafras albidum*
Black birch & *Betula lenta*
Northern red oak & *Quercus rubrum*
Scarlet oak & *Quercus coccinea*
Red maple & *Acer rubrum*
Crab apple* & *Malus spp.*

**Vines/Lianas**
Asiatic bittersweet* & *Celastrus orbiculatus*
Poison ivy & *Toxicodendron radicans*
Black raspberry & *Rubus occidentalis*
Common strawberry & *Fragaria virginiana*

**Herbaceous**
Japanese knotweed* & *Fallopia japonica*
Garlic mustard* & *Alliaria petiolate*
Goldenrods (indiscernible) & *Solidago spp.*
Tall goldenrod & *Solidago altissima*
English plantain* & *Plantago lanceolata*
Mullein* & *Verbascum thapsus*
Pasture thistle & *Cirsium pumilum*
Common yarrow & *Achillea millefolium*
Common selfheal & *Prunella vulgaris*

*Denotes non-native and/or invasive species.
2.2.1 Wetland Resource Areas

A B+T Environmental Specialist conducted a site visit on April 7, 2020 to review the site and delineate wetland resource areas. Where wetland resource areas were identified, they were delineated in accordance with the Act, as well as the handbook entitled ‘Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act’ issued by the Massachusetts Department of Environmental Protection (MassDEP; 1995).

The City of Worcester’s Ordinance regulates all wetland resource areas, including the Bank and BVW described below. As no standalone delineation criteria is established in the definition of Bank or BVW in the Ordinance (other than situations where resource areas have been altered), the state and locally jurisdictional Bank and BVW boundaries are considered coincident.

Bank

Bank associated with Indian Lake bounds the property to the north and west. Solid blue flagging labeled BF-1 through BF-15 demarcates the boundary of this Bank, which largely consisted of the first observable break in slope, but did include areas based upon mean annual flood level in the approximate middle of the series. Where the flagging ends at BF-15, the flagged portion of the Bank transitions into a manmade retaining wall which extends to the southwest corner of the property. This retaining wall is also regulated as Bank.

Bordering Vegetated Wetland

Pink and black-striped flagging labeled WF-A1 through WF-A6 delineates the boundary of a BVW associated with Indian Lake. In all but one area, these wetland flags are coincident with Bank flagging as indicated in the table below. This BVW is dominated by common reed (*Phragmites australis*) closest to the water and by red maple (*Acer rubrum*), silver maple (*Acer saccharinum*), and silky dogwood (*Cornus amomum*) along the BVW boundary. Soils within the BVW were generally Oi root with thick root mass into organics.

Bordering Land Subject to Flooding

The 100-year base flood elevation for Indian Lake has been determined to be 541.85 feet based upon the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), Worcester County, Massachusetts, Panel 616 of 1075, Map Number 25027C0616E, effective date July 4, 2011. This flood zone is regulated by the Act and Ordinance as Bordering Land Subject to Flooding (BLSF).

Buffer Zone

A 100-foot state-regulated buffer zone extends from the above-described Bank and BVW. The additional local 15-, 30-, and 50-foot setbacks from Bank and BVW are depicted on the enclosed plans.
2.2.2 Site Photographs
Typical views of site conditions. April 7, 2020.
Typical views of site conditions. April 7, 2020. (cont.)

Staghorn sumac (Rhus hirta) and sparse silky dogwood (Cornus amomum) facing south towards residential development from access path. April 7, 2020.

Japanese knotweed (Fallopia japonica) cover at point where access path turns west. View facing northwest. April 7, 2020.
Existing path. April 7, 2020. View facing west and east, respectively.

2.3 Proposed Conditions

Existing vegetation within the site will be cleared and grubbed as depicted on the project plans. Based upon the site evaluation described in Section 2.2 herein, existing trees are generally impaired by invasive species, or are invasive species themselves.

The vegetative clearing will be undertaken during non-rain conditions. Trees and brush will be cut with stumps pulled.
The surface will be scarified as necessary to ensure good seed to soil contact, and the disturbed area will be seeded with a meadow mix as indicated on the project plans to promote pollinator and wildlife habitat as well as passive public recreation. Specifically, New England Conservation/Wildlife Mix from New England Wetland Plants, Inc. or equivalent will be used. New paths are not proposed, but the existing path to the water will remain. A minimum 15-foot buffer to the southerly residential lots will be maintained.

2.3.1 Work within Wetland Resource Areas

No work will occur within BVW or Bank. Although work will occur within BLSF, there will be no impact to the flood storage capacity of the property as existing grades will be maintained, and flood flows will not be restricted. Furthermore, the project will maintain and likely improve habitat conditions on-site by removing invasive species and creating a pollinator friendly meadow habitat.

Additionally, the project complies with the performance standards for work in the buffer zone. Specifically:
- No structures are proposed within 30 feet of Bank or BVW
- No work is proposed within 15 feet of Bank or BVW

2.4 Interests of the Massachusetts Wetlands Protection Act and the Ordinance

The following is a discussion of the relationship of the project site to the interests of the Act as defined by 310 CMR 10.01(2) and the values of the Ordinance as defined in Section 1.

2.4.1 Protection of Public and Private Water Supply and Ground Water Supply

The property does not lie within a Zone II or a Zone III. Although the property is located within a medium yield aquifer, the tree and shrub clearing and replacement with a meadow habitat will not negatively impact ground water supply.

Therefore, the public and private water supply and groundwater supply protection interests of the Act and values of the Ordinance will be upheld.

2.4.2 Flood Control, Storm Damage Prevention, and Erosion and Sedimentation Control

As detailed herein, the proposed work to create a meadow habitat within BLSF will not impact this resource area’s ability to provide flood control and storm damage prevention, and the applicable performance standards are met.
Erosion and sedimentation control will be established in accordance with Section 3.2.3 of the Wetlands Protection Regulations. Specifically, sedimentation barriers consisting of straw wattles will be installed and maintained around the limit of clearing as depicted on the project plans to protect the resource areas associated with Indian Lake. The site will be stabilized by meadow vegetation upon completion of the project.

Therefore, the flood control, storm damage prevention, and erosion and sedimentation control interests of the Act and values of the Ordinance will be maintained.

2.4.3 Prevention of Pollution, including Water Pollution
Due to the nature of the project, potential pollution is limited to potential construction period impacts. Erosion and sedimentation control measures will be implemented as described in Section 2.4.2. Additionally, the work will be subject to the United States Environmental Protection Agency’s Construction General Permit as land disturbance greater than one acre will occur, and an associated Stormwater Pollution Prevention Plan will be prepared.

Therefore, the pollution interests of the Act and values of the Ordinance will be upheld.

2.4.4 Protection of Fisheries, Shellfisheries and Wildlife Habitat
The property does not contain Natural Heritage & Endangered Species Program (NHESP) mapped priority or estimated habitats or certified or potential vernal pools, nor is it mapped as BioMap Core Habitat. The removal of the existing early successional and in many cases invasive trees and shrubs on-site and replacement with a meadow habitat will provide open habitat to support a variety of pollinator species. Furthermore, the state performance standards for work in BLSF and the local performance standards for work in the buffer zone have been met.

Therefore, the fisheries, shellfisheries, and wildlife habitat interests of the Act and values of the Ordinance will be protected.
Section 3.0
Abutter Information
Certified List of Abutters
Affidavit of Service
Notification to Abutters
### Certified Abutters List

A list of 'parties in interest' shall be attached to the application form and shall include the names and addresses. All such names and addresses shall be obtained from the most recent applicable tax list maintained by the City’s Assessing Department. The Assessing Department certifies the list of names and addresses.

**Total Count: 14**

<table>
<thead>
<tr>
<th>Abutters</th>
<th>14</th>
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</table>

**Owner:** Comm of Mass Highway Dept.

**Owner Mailing:**
10 Park Plaza Room 6160
Boston, MA 02116

**Petitioner (if other than owner):** Cesar Valiente

**Petitioner Mailing Address:***

**Petitioner Phone:** 508-799-297

**Parcel Address:** 149 West Boylston Drive

**Assessor’s Map-Block-Lot(s):** 13-035-0001A

**Variance:**

<table>
<thead>
<tr>
<th><strong>Variance</strong></th>
<th><strong>ConComm</strong></th>
<th><strong>Planning</strong></th>
<th><strong>Definitive Plan</strong></th>
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<tbody>
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<td>Liquor</td>
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<td>Planning</td>
<td>Definitive Plan</td>
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### Addresses

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<tr>
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<tr>
<td>13-005-0002-A</td>
<td>RIVERA ISABEL</td>
<td>0002 STOWELL AVE WORCESTER MA 01606</td>
</tr>
<tr>
<td>13-005-0002-B</td>
<td>DONKOR VICTORIA</td>
<td>002B STOWELL AVE WORCESTER MA 01606</td>
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<tr>
<td>13-005-00040</td>
<td>WILLIAMS RICHARD L JR + KIMBERLY J</td>
<td>0020 MATTSON AVE WORCESTER MA 01606</td>
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<tr>
<td>13-005-00041</td>
<td>HALL DONNY C + LINDA S</td>
<td>0018 MATTSON AVE WORCESTER MA 01606</td>
</tr>
<tr>
<td>13-005-00022</td>
<td>AMETAJ ARTAN TRUSTEE</td>
<td>0800 PLEASANT ST WORCESTER MA 01602</td>
</tr>
<tr>
<td>13-005-00030</td>
<td>MACLEAN DUNCAN P</td>
<td>0009 MATTSON AVE WORCESTER MA 01606</td>
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<tr>
<td>13-005-00033</td>
<td>CALLAHAN ANTHONY C</td>
<td>0131 CHESTNUT ST MARLBOROUGH MA 01752</td>
</tr>
<tr>
<td>13-005-0014A</td>
<td>LAJOIE DAVID A +</td>
<td>0004 STOWELL AVE WORCESTER MA 01606</td>
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<tr>
<td>13-035-0001A</td>
<td>COMM OF MASS HIGHWAY DEPT</td>
<td>403 BELMONT STREET WORCESTER MA 01605</td>
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<tr>
<td>13-005-19+20</td>
<td>SULLIVAN TIMOTHY J JR + VIRGINIA A</td>
<td>16 MATTSON AVE WORCESTER MA 01606</td>
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<tr>
<td>13-005-00028</td>
<td>ZAROZNY WAYNE H</td>
<td>14 JASPER ST WESTBORO MA 01581</td>
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<td>13-005-00021</td>
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<td>COMM OF MASS HIGHWAY DEPT</td>
<td>10 PARK PLAZA BOSTON MA 02116</td>
</tr>
<tr>
<td>MA-DEP-INDIA</td>
<td>INDIAN LAKE WATERSHED ASSOCIATION</td>
<td>PO Box 60244 WORCESTER MA 01606</td>
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</tbody>
</table>

This is to certify that the above is a list of abutters to Assessor's Map-Block-Lot(s) **13-035-0001A** as cited above.

**Certified by:**

---

Signature: **John H. Valade**

Date: 4/22/2020
149 West Boylston Drive Abutters Map
AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act
and the City of Worcester Wetlands Protection Ordinance

I, Stacy H. Minihane, hereby certify under the pains and penalties of perjury that on April 29, 2020, I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by the City of Worcester Department of Public Works and Parks with the Worcester Conservation Commission on April 29, 2020 for property located at 149 West Boylston Drive.

The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.

Stacy H. Minihane
Name

4/29/20
Date
Notification to Abutters Under the
Massachusetts Wetlands Protection Act
and the City of Worcester Wetlands Protection Ordinance
and Wetlands Protection Regulations

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

A. The name of the applicant is _Worcester Department of Public Works and Parks________

B. The applicant has filed a Notice of Intent with the Conservation Commission for the municipality of Worcester seeking permission to remove, fill, dredge, or alter an Area Subject to Protection Under the Wetlands Protection Act (General Laws Chapter 131, Section 40). The project entails vegetative management to create a meadow.

C. The address of the lot where the activity is proposed is _149 West Boylston Drive, Worcester, MA______

D. For more information concerning this application, to view application materials, to obtain information regarding the hearing, or to submit written comments in advance of the hearing, contact the Planning Division by email (preferred) at planning@worcesterma.gov or phone at (508) 799-1400 x 31440.

E. Copies of the Notice of Intent may be obtained from the applicant’s representative, by calling David LaPointe, Beals and Thomas, Inc. at this telephone number (508) 416-4857 and leaving a message indicating your name and telephone number.

F. Pursuant to Governor Baker’s March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §18, and the Governor’s March 23, 2020 Order, as amended, imposing strict limitation on the number of people that may gather in one place, the hearing of the Worcester Conservation Commission for this project will be conducted via remote participation to the greatest extent possible. For this meeting, members of the public may livestream from the City Website at www.worcesterma.gov/video-on-demand (with instructions on how to participate) or view on the local government cable channel (Spectrum Channel 192).

Note: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the _Worcester Telegram & Gazette_.

The agenda for the public hearing, including its date, time, and place, will be posted on the City website (http://www.worcesterma.gov/city-clerk/agendas-minutes/boards-commissions) not less than 48 hours prior to the hearing.

Note: You may also contact the Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact MassDEP, call or email: Central Region: 508-792-7650, CERO_NOI@mass.gov and kimberly.roth@mass.gov

DJI/2407.05NI001
Section 4.0

Wetland Boundary Documentation

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

Applicant: City of Worcester. Prepared by: Andrew Gorman, Beals and Thomas, Inc. Project location: 149 West Boylston Street, Worcester

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.

Layer | Vegetation | Observation Plot Number: Wet | Transect Number: WF-A3 | Date of Delineation: April 7, 2020
--- | --- | --- | --- | ---
Herbaceous/ Groundcover | 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*
--- | --- | --- | --- | --- | ---
Common reed/Phragmites australis | 38% | 100% | Yes | FACW*

Shrub

Silky dogwood/Cornus amomum | 10.5% | 100% | Yes | FACW*

Climbing Vines

Tree

Silver maple/Acer saccharinum
Red maple/Acer rubrum | 20.5% | 66% | Yes | FACW*
10.5% | 34% | Yes | FAC*

* 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

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
title/date: NRCS Web Soil Survey/MassGIS Used
map number: NRCS Web Soil Survey/MassGIS Used
soil type mapped: Water
hydric soil inclusions: N/A

Are field observations consistent with soil survey? N/A

Remarks: BVW smaller than NRCS unit map boundaries.

2. Soil Description

<table>
<thead>
<tr>
<th>Horizon</th>
<th>Depth</th>
<th>Matrix Color</th>
<th>Mottles Color</th>
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<tbody>
<tr>
<td>Oi</td>
<td>12-6&quot;</td>
<td>Root masses</td>
<td></td>
</tr>
<tr>
<td>Oa</td>
<td>6-0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>0-2&quot;</td>
<td>10YR 2/1</td>
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<tr>
<td>Bg</td>
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<td>10YR 6/2</td>
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</table>

Remarks:

3. Other:

Conclusion: Is soil hydric? Yes

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

- Site Inundated: Area floods from Indian Lake
- 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): _________________________________
- Other:

Vegetation and Hydrology Conclusion

<table>
<thead>
<tr>
<th>Number of wetland indicator plants</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; # of non-wetland indicator plants</td>
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<td></td>
</tr>
</tbody>
</table>

Wetland hydrology present:

- Hydric soil present X _____________________________
- Other indicators of hydrology present X _____________________________

Sample location is in a BVW X _____________________________

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: City of Worcester  
Prepared by: Andrew Gorman, Beals and Thomas, Inc.  
Project location: 149 West Boylston Street, Worcester  

DEP File #: ___________

Check all that apply:

- [ ] Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- [x] 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.

<table>
<thead>
<tr>
<th>Layer</th>
<th>Vegetation</th>
<th>Observation Plot Number: Upland</th>
<th>Transect Number: WF-A3</th>
<th>Date of Delineation: April 7, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A. Sample Layer &amp; Plant Species</td>
<td>B. Percent Cover (or basal Area)</td>
<td>C. Percent Dominance</td>
<td>D. Dominant Plant (yes or no)</td>
</tr>
<tr>
<td></td>
<td>Herbaceous/ Groundcover</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Japanese knotweed / <em>Fallopia japonica</em></td>
<td>10.5%</td>
<td>100%</td>
<td>Yes</td>
</tr>
<tr>
<td>Shrub</td>
<td>Morrow’s honeysuckle / <em>Lonicera morrowii</em></td>
<td>10.5%</td>
<td>33%</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Black cherry / <em>Prunus serotina</em></td>
<td>10.5%</td>
<td>33%</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Burnin bush / <em>Euonymus alatus</em></td>
<td>10.5%</td>
<td>33%</td>
<td>Yes</td>
</tr>
<tr>
<td>Climbing Vines</td>
<td>Asiatic bittersweet / <em>Celastrus orbiculatus</em></td>
<td>38%</td>
<td>93%</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Foxgrape / <em>Vitis labrusca</em></td>
<td>3%</td>
<td>7%</td>
<td>No</td>
</tr>
<tr>
<td>Tree</td>
<td>Scarlet oak / <em>Quercus coccinea</em></td>
<td>20.5%</td>
<td>66%</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Red maple / <em>Acer rubrum</em></td>
<td>10.5%</td>
<td>34%</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* 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:  1  
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?  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
Title/date: NRCS Web Soil Survey/MassGIS Used
Map number: NRCS Web Soil Survey/MassGIS Used
Soil type mapped: Urban land
Hydric soil inclusions: N/A

Are field observations consistent with soil survey? Yes

Remarks: Weak to no A horizon formation upgradient of BVW/Bank. ^A/^Ap present in other upland areas.

2. Soil Description

<table>
<thead>
<tr>
<th>Horizon</th>
<th>Depth</th>
<th>Matrix Color</th>
<th>Mottles Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oi</td>
<td>2-0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>^Bw1</td>
<td>0-4&quot;</td>
<td>10YR 3/4</td>
<td></td>
</tr>
<tr>
<td>^Bw2</td>
<td>4-12&quot;</td>
<td>10YR 5/4</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

3. Other:

Conclusion: Is soil hydric? 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 BVW: __________________
- 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 BVW

Submit this form with the Request for Determination of Applicability or Notice of Intent.
Section 5.0

Plans

USGS Locus Map

Aerial Map

Entitled 149 West Boylston Drive Worcester, Massachusetts (Worcester County)
Prepared by Beals and Thomas, Inc.
In 6 Sheets
Dated April 28, 2020
Digital orthophotograph, dated 2019, provided by the Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services.

Scale: 1" = 200'

Aerial Map
Figure 2

Scale: 1" = 200'
Date: 04/24/2020

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