NOTICE OF INTENT

08/25/20

HEATHER LANE
764, 766, 768-768A, & 768B CHESTNUT ST.
NEEDHAM, MA

PREPARED BY:

KELLY ENGINEERING GROUP
civil engineering consultants
0 Campanelli Drive, Braintree, MA 02184
Phone: 781-843-4333 www.kellyengineeringgroup.com

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KELLY ENGINEERING GROUP
civil engineering consultants

August 25, 2020

Town of Needham
Conservation Commission
500 Dedham Avenue
Needham, MA 02492

Cc: Massachusetts Department of Environmental Protection Northeast Region
William Piersiak

RE: ***Notice of Intent***
Heather Lane
764, 766, 768-768A, & 768B Chestnut St.
Needham, MA 02492

Dear Members of the Commission;

Attached herewith are the following documents:

1. Two (2) copies of the "Plans to Accompany Notice of Intent", 2 Sheets dated 08/25/20 by Kelly Engineering Group, Inc.
2. Two (2) copies of the "Conservation Restriction Plan" dated 08/10/20 by Kelly Engineering Group, Inc.
3. Two (2) copies of the "Stormwater Management Report", dated 03/03/20 by Kelly Engineering Group, Inc.
4. Two (2) copies of the "Notice of Intent" dated 08/25/20 by Kelly Engineering Group, Inc.
5. One check in the amount of $750.00 made payable to the Town of Needham (Local Fee)
6. One check in the amount of $537.50 made payable to the Town of Needham (Local portion of State Fee)
   *Pdf copy of the submittal will be provided to the agent by email

The purpose of these documents is to respectfully request that the Commission issue an order of conditions under the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40) and its implementing regulations (310 CMR 10.00); and the Town of Needham General Bylaws Article 6 General Wetlands Protection and the Town of Needham Wetlands Protection Regulations for the above referenced project, as described in the enclosed documents.

Existing Site

The site is located on 764, 766, 768-768A, & 768B Chestnut St., totaling approximately 26.9 acres of land. The owners of these several properties are provided in the attached List of Property Owners. The existing driveway is approximately 12' wide and located within a 15' wide right of way easement. The site does not contain any stormwater management systems.

Resource Areas

Resource Areas on the site consists of the Charles River and its associated 200' Riverfront Area, Bordering Land Subject to Flooding ("BLSF"), Bordering Vegetated Wetlands ("BVW"), and Isolated Vegetated Wetlands

("IVW"). The site was inspected and the resource areas adjacent to the proposed project were delineated by John P. Rockwood, Ph.D., PWS of EcoTec, Inc. A description of the resource areas is included in the accompanying Wetland Resource Evaluation by EcoTec, Inc. We note that the EcoTec, report includes a description of all resource areas on the property that were previously delineated in connection with the subdivision lotting design. Only the delineation highlighted on page 2 of the EctoTec report (specifically flags highlighted as "refreshed" and GLM flags) are the subject of this Notice of Intent. The more conservative Town of Needham flood map's base flood plain elevation of 98 is shown on the Plans to Accompany Notice of Intent.

Project Description

The proposed project entails the construction of a 6 lot Definitive Subdivision roadway Heather Lane. On Lot 4 of the subdivision will be a 5 lot Residential Compound and a Definitive Subdivision roadway Heather Lane Extension. Definitive Subdivision Plans for Heather Lane and Heather Lane Extension has been approved by the Town of Needham Planning Board and are available on file at the Planning Department's office.

A portion of the proposed Heather Lane roadway will occur within the 100' Buffer Zone to Isolated Vegetated Wetlands. This wetlands line was previously delineated by GLM Engineering Consultants, Inc. and approved by the Conservation Commission. The proposed limit of work is approximately 52 feet from the Isolated Vegetated Wetlands and will occur outside the 25' Buffer Zone to the Isolated Vegetated Wetlands.

The existing site does not contain any stormwater management system or best management practices. The proposed project includes a stormwater management system designed in accordance with DEP's Stormwater Management Handbook. The Stormwater management system will incorporate many Best Management Practices (BMPs), which will include deep sump catch basins, a wet basin, a recharge basin, and a long term pollution prevention operations and maintenance program for the entire site. Test pits were conducted on August 25, 2020 within the proposed recharge basin. The proposed roadway will result in approximately 0.56 acres of impervious area. The impacts of the additional impervious areas will be offset by upgrades to the stormwater management system. Water quality treatment will be provided, stormwater peak runoff rates will be reduced, and recharge will be provided. See Stormwater Management Report dated 03/03/20 by Kelly Engineering Group, Inc. The Stormwater Management Report and Definitive Subdivision Plans were reviewed by the Town of Needham Department of Public Works.

The proposed stormwater basin will be constructed outside the resource areas and the 200' Riverfront Area. Bordering Vegetated Wetlands flags and the Mean Annual High Water Line of the Charles River that area adjacent to the stormwater basin has been refreshed by EcoTec, Inc. on August 10, 2020.

As requested by the Commission, the applicant has committed to providing a Conservation Restriction that generally follows along the Charles River's 200' Riverfront Area at the rear of Lots 4, 5, & 6. See Conservation Restriction Plan dated 08/10/20 by Kelly Engineering Group, Inc.

Performance Standards

Performance standards are listed in *italic* text and responses are in plain text.

TOWN OF NEEDHAM WETLANDS PROTECTION REGULATIONS

2.06 LAND WITHIN 100 FEET OF A WATER BODY, WATER WAY, BANK, OR VEGETATED WETLAND (THE BUFFER ZONE)

(3) Performance Standards

(a) No construction within 25 feet of the limit of Bank or Vegetated Wetland ("The 25-Foot Buffer Zone")

may be permitted. Construction is here defined to include (but not limited to) all new roadways, driveways, buildings, decks (except as in (b) below), clearing and grading, stormwater detention basins, and point-source discharges. Any construction within the Buffer Zone must be designed to preserve a minimum of 25 feet of undisturbed natural vegetation and soils adjacent to a Vegetated Wetland or Bank.

No construction is proposed within the 25 Foot Buffer Zone.

(b) Work within 25 feet of the limit of Bank or Vegetated wetland may be permitted when the work consists of:

- *removing existing structures;*
- *planting native tree, shrub, or herbaceous species;*
- *removing invasive plant species and restoring native vegetation;*
- *adding a deck or patio to an existing dwelling, where no new impervious surfaces are proposed and the work area is existing lawn.*

No work is proposed within the 25 Foot Buffer Zone.

(c) Where the Buffer Zone provides wildlife habitat (i.e., is forested, meadowland, or otherwise undeveloped except for lawful existing lawn and ornamental or vegetable gardens), no alteration of vegetation or construction within 50 feet of the limit of Vegetated Wetland or Bank (the "50-Foot Buffer Zone") is permitted.

No construction is proposed within the 50 Foot Buffer Zone.

(d) No construction may be permitted within 100 feet of a Vernal Pool, as defined in Section 1.04 above.

There are no mapped Certified Vernal Pools within the property and one mapped Potential Vernal Pool located within Wetland D in the southeast portion of the site. No work is proposed within 100' of the Potential Vernal Pool.

(e) No work within the Buffer Zone shall impair the water quality, water temperature, or wildlife habitat of the adjacent Water Body, Waterway, Bank, or Vegetated Wetland.

The proposed work within the Buffer Zone will not impair surrounding resource areas.

(f) Where new point-source discharges are proposed within the Buffer Zone, a comprehensive stormwater management system shall be designed that will not degrade the values or functions of the receiving or downstream Water Bodies, Waterways, or Vegetated Wetlands, surface water, or ground water. Such stormwater management systems shall employ Best Practical Measures. Any point-source discharge must be designed to discharge water at non-erosive velocities equal to 2 c.f.s (cubic feet per second) or less.

The new point-source discharge is located outside of resource areas and buffer zones. The stormwater management system has been designed in accordance with MassDEP Stormwater Management Regulations and BMPs are proposed.

(g) Where stormwater detention basins (including any infiltration or recharge basins) are proposed within the Buffer Zone, these shall be designed to be maintenance-free, self-cleaning, and to deter acts of vandalism. The inlet and outlet shall be designed to avoid scour and erosion of the basin bottom and discharge channel. The basin must be designed to avoid or minimize direct flows between the inlet and outlet, and to maximize the stormwater residence times.

There are no proposed stormwater detention basins within the Buffer Zone.

(h) Where proposed work within the Buffer Zone will increase impervious surfaces and reduce groundwater recharge, infiltration measures must be designed to maintain said groundwater recharge.

The stormwater management system on the property will include a recharge basin designed to recharge runoff from the proposed Heather Lane roadway. Groundwater recharge will fully meet MassDEP Stormwater Management Standards for recharge volumes.

(i) Erosion and sedimentation controls must be utilized for any construction within the Buffer Zone that will result in exposed soils. An erosion and sedimentation control plan must be prepared which provides specifications for temporary and permanent soil stabilization, using Best Practical Measures. No silt or sediment may be permitted to enter wetland resource areas during or subsequent to construction.

An erosion control line will be placed along the limit of work to ensure that surrounding resource areas are protected during construction of the project.

In summary the proposed project will have no adverse effects on the surrounding resource area; the project meets the performance standards for work within the 100' buffer zone. As described in the plans and accompanying documents the project will enhance the surrounding resource areas by incorporating a stormwater management system where none exists today and that fully complies with MassDEP Stormwater Management Regulations. With the addition of the above referenced BMP's, water quality of runoff discharged to resource areas will be enhanced, and the rate at which runoff leaves the site will be reduced.

Any future work that is proposed within the individual lots in the subdivision and within areas under jurisdiction of the Commission will be the subject of Notices of Intent for those lots. We look forward to meeting with you at your next scheduled meeting. If you have any questions or desire additional information please feel free to call the office at 781-843-4333.

Sincerely,

KELLY ENGINEERING GROUP, INC.

Brandon Li

Brandon Li, Project Engineer

KELLY ENGINEERING GROUP, INC.
0 Campanelli Drive-Braintree-MA 02184 Phone 781-843-4333

Attachment #1

Notice of Intent (WPA Form3)
Wetland Fee Transmittal Form
Application for a Permit Needham Article 6
Notice of Intent Application Checklist
List of Property Owners
Letter of Owner Authorization
Copies of the Checks

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

Needham
City/Town

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

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

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

764, 766, 768-768A, 768B Chestnut St. — a. Street Address
Needham — b. City/Town
02492 — c. Zip Code

Latitude and Longitude:
42.260600 — d. Latitude
-71.234350 — e. Longitude

204 — f. Assessors Map/Plat Number
4-1, 4-2, 5, 6 — g. Parcel /Lot Number

2. Applicant:

William — a. First Name
Piersiak — b. Last Name
c. Organization
768 Chestnut St. — d. Street Address
Needham — e. City/Town
MA — f. State
02492 — g. Zip Code
617-759-9820 — h. Phone Number
i. Fax Number
wpiersiak@comcast.net — j. Email Address

3. Property owner (required if different from applicant): ☒ Check if more than one owner

See attachment List of Property Owners — a. First Name
b. Last Name
c. Organization
d. Street Address
e. City/Town
f. State
g. Zip Code
h. Phone Number
i. Fax Number
j. Email address

4. Representative (if any):

Brandon — a. First Name
Li — b. Last Name
Kelly Engineerng Group, Inc. — c. Company
0 Camanelli Drive — d. Street Address
Braintree — e. City/Town
MA — f. State
02184 — g. Zip Code
781-843-4333 — h. Phone Number
i. Fax Number
bli@kellyengingeeringgroup.com — j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

$1,050.00 — a. Total Fee Paid
$512.50 — b. State Fee Paid
$537.50 — c. City/Town Fee Paid

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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A. General Information (continued)

6. General Project Description:

Construction of subdivision roadway Heather Lane with associated utilities and stormwater management system.

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:

Norfolk	
a. County	b. Certificate # (if registered land)
See attachment List of Property Owners	
c. Book	d. Page Number

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

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

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

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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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. ☐ Bank	1. linear feet	2. linear feet
b. ☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c. ☐ Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. ☐ Bordering Land Subject to Flooding	1. square feet 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. ☐ Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced

f. ☐ Riverfront Area

1. Name of Waterway (if available) **- specify coastal or inland**

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

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.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. ☐ Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. ☐ Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment

	Size of Proposed Alteration	Proposed Replacement (if any)
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. ☐ Land Under Salt Ponds	1. square feet 2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ 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. ☐ Land Subject to Coastal Storm Flowage	1. square feet	

4. ☐ 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. ☐ 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.

   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

   August 1, 2017
   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

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* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see https://www.mass.gov/ma-endangered-species-act-mesa-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.

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

(c) ☐ MESA filing fee (fee information available at https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review).
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, https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat; 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@mass.gov

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@mass.gov

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

c. ☐ Is this an aquaculture project? d. ☐ Yes ☐ No

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

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

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

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

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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.

Plans to Accompany Notice of Intent - Heather Lane
a. Plan Title

Kelly Engineering Group, Inc.
b. Prepared By

David N. Kelly
c. Signed and Stamped by

08/25/20
d. Final Revision Date

1"=40'
e. Scale

Stormwater Management Report
f. Additional Plan or Document Title

03/03/20
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:

8367
2. Municipal Check Number

08/18/20
3. Check date

8366
4. State Check Number

08/18/20
5. Check date

Chestnut Builders, LLC
6. Payor name on check: First Name

William Piersiak
7. Payor name on check: Last Name

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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City/Town

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 8/18/2020
3. Signature of Property Owner (if different) Brandon Li	4. Date 08/19/20
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.

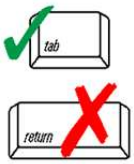
The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

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:

764, 766, 768-768A, 768B Chestnut St.
a. Street Address

Needham
b. City/Town

8366
c. Check number

$512.50
d. Fee amount

2. Applicant Mailing Address:

William
a. First Name

Piersiak
b. Last Name

c. Organization

768 Chestnut St.
d. Mailing Address

Needham
e. City/Town

MA
f. State

02492
g. Zip Code

617-759-9820
h. Phone Number

i. Fax Number

wpiersiak@comcast.net
j. Email Address

3. Property Owner (if different):

See attachment List of Property Owners
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 3 c) road construction	1	$1,050	$1,050

Step 5/Total Project Fee: $1,050

Step 6/Fee Payments:

Total Project Fee:	$1,050 a. Total Fee from Step 5
State share of filing Fee:	$512.50 b. 1/2 Total Fee **less** $12.50
City/Town share of filling Fee:	$537.50 c. 1/2 Total Fee **plus** $12.50

C. Submittal Requirements

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

Department of Environmental Protection
Box 4062
Boston, MA 02211

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

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

Conservation Department Use Only	
WPA Town Filing Fee	**$**
NGWP Town Filing Fee	**$**
Waiver Fee	**$**

APPLICATION FOR A PERMIT
NEEDHAM GENERAL WETLANDS PROTECTION BYLAW
ARTICLE 6

☒ **Notice of Intent** ☐ **Request for Determination of Applicability**

Description of Project Construction of subdivision roadway Heather Lane with associated utilities and stormwater management system.

Project Location **Street:** 764, 766, 768-768A, 768B Chestnut St.
Assessor's Map: 204 **Parcel:** 4-1, 4-2, 5, 6

Registry Information **Book:** See attachment **Page:** List of Property Owners

Applicant **Name:** William Piersiak
Address: 768 Chestnut St.
Needham, MA 02492

Owner (if different) **Name:** See attachment List of Property Owners
Address:

Date of Filing August 26, 2020

Resources within which work is proposed:

- ☐ **Bordering Vegetated Wetland**
- ☐ **Bank**
- ☐ **Bordering Land Subject to Flooding**
- ☐ **Isolated Land Subject to Flooding**
- ☒ **Buffer Zone**

This application ☐☒ **is** ☐☐ **is not** filed simultaneously with a NOI/RDA under the Massachusetts Wetlands Protection Act.

Statement of Applicant: I hereby certify under the penalties of perjury that this application and all supporting plans and documents are true and complete to the best of my knowledge, and that these have been prepared in conformance with the requirements of the Needham General Wetlands Bylaw and supporting regulations. I further certify that all abutters and other parties have been notified of this application as required by the Bylaw. I understand I may be asked to pay for a consultant to review my application for the Commission.

Signature: [signature] **Date:** 8/18/2020

NOTICE OF INTENT APPLICATION CHECKLIST
NEEDHAM CONSERVATION COMMISSION
NEEDHAM GENERAL WETLANDS BY-LAW – ARTICLE 6

THIS CHECKLIST MUST BE COMPLETED, SIGNED AND SUBMITTED WITH ANY NOTICE OF INTENT PERMIT APPLICATION. ALL REQUIRED INFORMATION AND NOTIFICATIONS MUST BE INCLUDED IN ORDER FOR THE APPLICATION TO BE CONSIDERED COMPLETE. BYLAW SECTION 1.05(4) LISTS THE REGULATORY REQUIREMENTS FOR AN APPLICATION.

NINE (9) PAPER COPIES AND ONE (1) ELECTRONIC COPY OF ALL MATERIALS MUST BE SUBMITTED AND CHECK(S) MADE OUT TO TOWN OF NEEDHAM FOR APPLICATION FEE (SEE FEE SCHEDULE)

ABUTTER NOTIFICATION (by certified mail, return receipt or hand delivery)

- ☒ List of all abutters within 300 feet of the property line.
- ☒ Copy of the Assessor's Map or Subdivision Plan showing abutting and adjacent lots within 300 feet of the parcel on which work is proposed.
- ☒ Copy of draft notification made to abutters including date and specific time of public hearing. (See Sample online)
- ☒ Proof of notification to abutters and Board of Selectmen, Planning Board, Board of Health, and Building Inspector (SUBMIT AT OR PRIOR TO HEARING).

PLANS (shall include the following)

- ☒ An 8.5" x 11" section of the U.S. Geologic Survey quadrangle or other map of the area.
- ☒ TITLE block clearly stating the name of the project.
- ☒ Street address, map and parcel numbers.
- ☒ Date of plan (and most recent revision).
- ☒ Scale (1"=20' or 1"=40" or metric equivalent).
- ☒ Stamped and signed by a Professional Engineer or Registered Land Surveyor.
- ☒ Shows existing conditions (grades, structures, roads, treelines, and limits of existing lawn).
- ☒ Clearly shows the boundaries of all regulated resource areas (Vegetated Wetland, Bank, BLSF, ILSF, Riverfront Area, Vernal Pools), including the 100-foot and 50- or 25-foot Buffer Zone limits as defined under the Wetlands Protection Act and the Needham General Wetlands By-Law and Regulations.
- ☒ Clearly shows the location and numbers of all wetland flags and method of survey.
- ☒ Show proposed limit of work, including but not limited to proposed grades, locations of all structures, roads, paths, utilities, drainage structures, trees to be removed, changes in lawn edges, plantings (including replacement trees per Town Guidelines), and proposed tree line.
- ☒ Shows the minimum distance between the limit of proposed work (erosion controls) and the edge of wetland
- ☒ Details of any subsurface drainage structure.
- ☒ Detail of any erosion and sedimentation control measures.

DOCUMENTS

- ☒ WPA Form 3 – Notice of Intent.
- ☒ Application for a Permit (Needham General Wetlands Protection Bylaw Article 6).
- ☒ Written Description of the work proposed, including a description of any excavation, proposed structures, and erosion and sedimentation controls.
- ☒ Drainage calculations and plans, for any project other than a single family residence, that would alter the flow of runoff to a wetland or have a direct discharge of stormwater within the buffer zone.
- ☒ Quantitative documentation to support the delineation of the vegetated wetland, with certification from the wetland scientist responsible for the delineation, stating the basis for the delineation and the date on which the delineation was performed. DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Forms must document both upland and wetland plots.
- ☐ Wildlife habitat assessment, where alterations to a wetland resource area or naturally-vegetated buffer zone are proposed.
- ☒ Soil test results where infiltration measures are proposed.
- ☐ Request for a waiver from compliance with the regulation (including proposed basis for request) if regulatory performance standards cannot be met.

☐ **Signature:** Brandon Li **Date:** 08/25/20

Owners	Property Addresses	Book and Page
William John Piersiak	768-768A Chestnut St (Lot 4A 8/22/00 Cheney Eng Plan, Plan 511 of 2000 Book 478)	36756/532
William J. Piersiak, Trustee Of The 768B Chestnut Street Realty Trust	768B Chestnut Street (Parcel A and Lot 1 8/22/00 Cheney Eng. Plan)	26628/469
William J. Piersiak, Trustee of The 768B Chestnut Street Realty Trust	764 Chestnut Street Matthews Plan No. 589 of 1940, recorded in Book 2997, Page 501	38112/280 & 577
Koby Kempel, Manager 766 Chestnut LLC	766 Chestnut Street Lot G1, Giunta plan 4/7/82 Plan No. 712, Plan Bk 298	36038/67

Koby Kempel
766 Chestnut LLC
766 Chestnut Street
Needham, MA 02492

August 18, 2020

Needham Conservation Commission
Public Services Administration Building
500 Dedham Avenue
Needham, MA 02492

Dear Sir/Madam:

As the Owner, Manger and authorized agent of 766 Chestnut LLC, which holds title to the property located at 766 Chestnut Street, Needham, I hereby authorize William John Piersiak of 768 Chestnut Street, Needham to file a Notice of Intent application on my behalf, which includes my property.

Respectfully,

KKempel

Koby Kempel, Manager
766 Chestnut LLC

Cc: William John Piersiak

KELLY ENGINEERING GROUP, INC.
0 Campanelli Drive-Braintree-MA 02184 Phone 781-843-4333

Attachment #2

Abutter Notification Form
Needham Abutters List
Dedham Abutters List
Westwood Abutters List
Dover Abutters List

Notification to Abutters Under the Massachusetts Wetland Protection Act & the Needham Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and Needham Wetlands Protection Bylaw (Article 6) you are hereby notified of the following:

The name of the applicant is **William Piersiak**.

The applicant has filed a **Notice of Intent** with the Conservation Commission for the municipality of Needham, MA for **Construction of subdivision roadway Heather Lane with associated utilities and stormwater management system.**

The address of the lot where the activity is proposed is **764, 766, 768-768A, 768B Chestnut St. Assessor's Map 204 Parcels 4-1, 4-2, 5, 6.**

The hearing will be on **September 10th** at **7:30 PM.**

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

The public may participate in this meeting via Remote Participation:

- From your computer, smart phone or tablet: https://us02web.zoom.us/j/82316889821
- Meeting ID: 823-1688-9821
- From your phone: Dial +1 646-558-8656; Meeting ID: 82316889821#

Copies of the application may be obtained digitally from the Conservation Commission Staff by emailing conservation@needhamma.gov. Alternatively, you may call our office at 781-455-7550 x222 and leave a message with your contact information and the project address and a Staff Member will return your call during regular business hours.

Notice of the public hearing, including its date, time and place, will be published at least five (5) days in advance in a newspaper of local distribution.

NOTE: You also may contact the nearest Department of Environmental Protection Regional Office for more information about this application or the MA Wetlands Protection Act. To contact the DEP, call the Northeast Region at 978-694-3200.

SAMPLE

COVID-19 Emergency Response:
Implementation of Governor's Order Suspending Certain Provisions of the Open Meeting Law

In light of the ongoing COVID-19 coronavirus outbreak, Governor Baker issued an emergency Order on March 12, 2020, allowing public bodies greater flexibility in utilizing technology in the conduct of meetings under the Open Meeting Law. The Needham Conservation Commission greatly values the participation of its citizens in the public meeting process, but given the current circumstances and recommendations at both the state and federal levels to limit or avoid public gatherings, including Governor Baker's ban on gatherings of more than 25 people, together with the present closure of Needham Town Hall and other public buildings to the public, The Town of Needham has decided to implement the "remote participation" procedures allowed under Governor Baker's emergency Order for all boards, committees, and commissions. This means that:

1. All or any of the members of the public body may choose to participate in a public meeting via remote access. Meetings may be virtual, in their entirety.
2. The public will be provided with alternative access through which they can watch or listen to meetings "in real time," and meeting notices will specify the manner in which members of the public may access audio or video of the meeting as it is occurring.
3. If, despite our best efforts, our technological capabilities do not adequately support public access to virtual or remote meetings, the Needham Conservation Commission will ensure that an audio or video recording, transcript, or other comprehensive record of the proceedings at the meeting is posted on the Town's website as soon as possible after the meeting.
4. Notices for public hearings will contain additional information about how the public may participate via electronic/technological means.
5. Where individuals have a right, or are required, to attend a public meeting or hearing, they will be provided with information about how to participate in the meeting/hearing remotely.
6. Meeting notices will still be posted at least 48 hours in advance (not counting Saturdays, Sundays, or legal holidays), unless it is an emergency meeting as defined under the Open Meeting Law (in which event, the meeting notice will be posted with as much advanced notice as is possible in the circumstances). Minutes will still be taken.

Please check individual meeting agendas on the calendar on the Town's website, located at www.needhamma.gov for the latest information regarding meetings. Each meeting may experience unique circumstances that may require last minute changes in protocol, including cancellation or rescheduling. We appreciate your patience as we undergo this shift in a significant aspect of how the Town of Needham conducts business.

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 15, 2020 Order imposing strict limitation on the number of people that may gather in one place, this meeting of the Needham Conservation Commission will be conducted via remote participation to the greatest extent possible. Specific information and the general guidelines for remote participation by members of the public and/or parties with a right and/or requirement to attend this meeting can be found on the Town of Needham website, at www.needhamma.gov. For this meeting, members of the public who wish to listen and/or watch the meeting may do so in the manner stated on the previous page by navigating to the Zoom Meeting via a web browser or by calling in by phone. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings in real time, via technological means. In the event that we are unable to do so, despite best efforts, we will post on the Needham Conservation Commission webpage an audio or video recording, transcript, or other comprehensive record of proceedings as soon as possible after the meeting.

SAMPLE

764-766-768A CHESTNUT STREET

OWNER NAME 1	OWNER NAME 2	MAILING ADDRESS	CITY	ST	ZIP	PARCEL ID	PROPERTY ADDRESS
JAY, KEVIN R. &	JAY, SARA M.	776 CHESTNUT ST	NEEDHAM	MA	02492	199204000010000	776 CHESTNUT ST
LANK, HARLEY, TR &	LANK, AUDRA, TR	5 WILLOW RD	WESTON	MA	02493	199204000020000	770 CHESTNUT ST
PIERSIAK, WILLIAM J, TR	C/O PIERSIAK, WILLIAM JOHN	768 CHESTNUT ST	NEEDHAM	MA	02492	199204000040001	768 CHESTNUT ST
PIERSIAK, WILLIAM J., TR		768B CHESTNUT ST	NEEDHAM	MA	02492	199204000040002	768 CHESTNUT ST
MALOOMIAN, EVELYN SOULE		32284 LAKESHORE DR	TAVARES	FL	32778	199204000050000	764 CHESTNUT ST
766 CHESTNUT LLC		292 NEWBURY ST PMB# 485	BOSTON	MA	02115	199204000060000	766 CHESTNUT ST
HASIOTIS, GEORGE K.		750 CHESTNUT ST	NEEDHAM	MA	02492	199204000070000	750 CHESTNUT ST
OBRIEN, CARLEEN A.		762 SOUTH ST	NEEDHAM	MA	02492	199204000090000	726 CHESTNUT ST
OBRIEN, JOHN F.		762 SOUTH ST	NEEDHAM	MA	02492	199204000100000	762 SOUTH ST
MEDALIE, SETH &	MEDALIE, LESLIE L.	758 SOUTH ST	NEEDHAM	MA	02492	199204000110000	758 SOUTH ST
OKONOW, DALE S. &	OKONOW, MARILYN L.	750 SOUTH ST	NEEDHAM	MA	02492	199204000120000	750 SOUTH ST
PALLADINO, PETER M. &	PALLADINO, CHRISTINE ANN	720 SOUTH ST	NEEDHAM	MA	02492	199204000130000	720 SOUTH ST
ALLEN, LAWSON PRINCE		710 SOUTH ST	NEEDHAM	MA	02492	199204000140000	710 SOUTH ST
GROSSMAN, SARAH &	GROSSMAN, EVAN T.	754 CHESTNUT ST	NEEDHAM	MA	02492	199204000250000	754 CHESTNUT ST
LANK, HARLEY &	LANK, AUDRA	5 WILLOW RD	WESTON	MA	02493	199204000320000	0 CHESTNUT ST
MURPHY, JOHN A, TR &	MURPHY, CLAIRE P. TR	63 RIVERBEND LN	NEEDHAM	MA	02492	199204000400000	63 RIVERBEND LN
GLYNN, NEIL G., TR		75 RIVERBEND LN	NEEDHAM	MA	02492	199204000410000	75 RIVERBEND LN
BASS, MICHAEL A. TR	CIRCLE ROSES TRUST	85 RIVERBEND LN	NEEDHAM	MA	02492	199204000420000	85 RIVERBEND LN
SCUDELLARI, CHRISTOPHER E. &	SCUDELLARI, GAIL T.	98 RIVERBEND LN	NEEDHAM	MA	02492	199204000430000	98 RIVERBEND LN
STEARNS, ROBERT W. TR.&	STEARNS, NAOMI M. TR	95 RIVERBEND LN	NEEDHAM	MA	02492	199204000470000	95 RIVERBEND LN

Certified as list of parties in interest under Mass. General Laws and Needham Zoning By-Law, to the Best of our knowledge for the Needham Board of Assessors.....

768A 768B CHESTNUT STREET

OWNER NAME 1	OWNER NAME 2	MAILING ADDRESS	CITY	ST	ZIP	PARCEL ID	PROPERTY ADDRESS
JAY, KEVIN R. &	JAY, SARA M.	776 CHESTNUT ST	NEEDHAM	MA	02492	199204000010000	776 CHESTNUT ST
LANK, HARLEY, TR &	LANK, AUDRA, TR	5 WILLOW RD	WESTON	MA	02493	199204000020000	770 CHESTNUT ST
PIERSIAK, WILLIAM J, TR	C/O PIERSIAK, WILLIAM JOHN	768 CHESTNUT ST	NEEDHAM	MA	02492	199204000040001	768 CHESTNUT ST
PIERSIAK, WILLIAM J., TR		768B CHESTNUT ST	NEEDHAM	MA	02492	199204000040002	768 CHESTNUT ST
MALOOMIAN, EVELYN SOULE		32284 LAKESHORE DR	TAVARES	FL	32778	199204000050000	764 CHESTNUT ST
766 CHESTNUT LLC		292 NEWBURY ST PMB# 485	BOSTON	MA	02115	199204000060000	766 CHESTNUT ST
HASIOTIS, GEORGE K.		750 CHESTNUT ST	NEEDHAM	MA	02492	199204000070000	750 CHESTNUT ST
OBRIEN, CARLEEN A.		762 SOUTH ST	NEEDHAM	MA	02492	199204000090000	726 CHESTNUT ST
OBRIEN, JOHN F.		762 SOUTH ST	NEEDHAM	MA	02492	199204000100000	762 SOUTH ST
MEDALIE, SETH &	MEDALIE, LESLIE L.	758 SOUTH ST	NEEDHAM	MA	02492	199204000110000	758 SOUTH ST
OKONOW, DALE S. &	OKONOW, MARILYN L.	750 SOUTH ST	NEEDHAM	MA	02492	199204000120000	750 SOUTH ST
PALLADINO, PETER M. &	PALLADINO, CHRISTINE ANN	720 SOUTH ST	NEEDHAM	MA	02492	199204000130000	720 SOUTH ST
ALLEN, LAWSON PRINCE		710 SOUTH ST	NEEDHAM	MA	02492	199204000140000	710 SOUTH ST
GROSSMAN, SARAH &	GROSSMAN, EVAN T.	754 CHESTNUT ST	NEEDHAM	MA	02492	199204000250000	754 CHESTNUT ST
LANK, HARLEY &	LANK, AUDRA	5 WILLOW RD	WESTON	MA	02493	199204000320000	0 CHESTNUT ST
BASS, MICHAEL A. TR	CIRCLE ROSES TRUST	85 RIVERBEND LN	NEEDHAM	MA	02492	199204000420000	85 RIVERBEND LN
SCUDELLARI, CHRISTOPHER E. &	SCUDELLARI, GAIL T.	98 RIVERBEND LN	NEEDHAM	MA	02492	199204000430000	98 RIVERBEND LN
PETRINI CORPORATION		187 ROSEMARY ST	NEEDHAM	MA	02492	199204000460000	0 RIVERBEND LN
STEARNS, ROBERT W. TR.&	STEARNS, NAOMI M. TR	95 RIVERBEND LN	NEEDHAM	MA	02492	199204000470000	95 RIVERBEND LN

Certified as list of parties in interest under Mass. General Laws and Needham Zoning By-Law, to the Best of our knowledge for the Needham Board of Assessors.....

43-1
235 WESTFIELD ST RLTY TR THE
GAY PAUL G & CAROLINE W TRS
235 WESTFIELD ST
NEEDHAM MA 02492-2733

43-2B
ANDERSON EDWARD T ETUX
CABOT LINDA N TE
185 WESTFIELD ST
WESTWOOD MA 02090

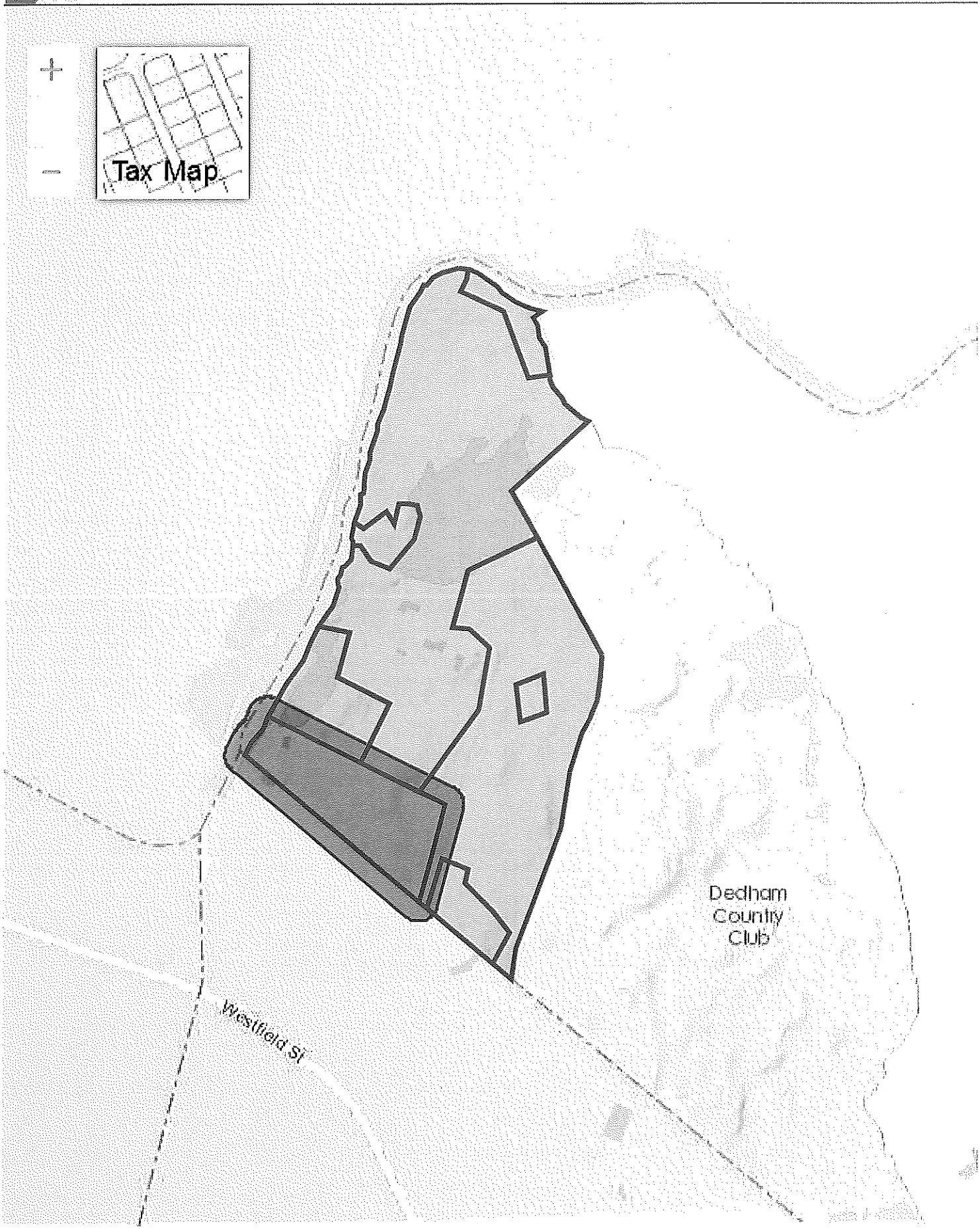
43-2
ANDERSON EDWARD T ETUX
CABOT LINDA N TE
185 WESTFIELD ST
WESTWOOD MA 02090

A TRUE COPY AT

NEEDHAM BOARD OF
APPEALS

8-19-2020

Public Notification...



Brandon Li

From: Janice Barba <jbarba@townhall.westwood.ma.us>
Sent: Wednesday, August 19, 2020 8:55 AM
To: Brandon Li
Cc: assessors@townhall.westwood.ma.us
Subject: RE: Westwood Certified Abutters List - 768 Chestnut St. Needham

Follow Up Flag: Follow up
Flag Status: Completed

Mr. Li – the abutter's list sent to Robert Smart on 3/9/20 has been double checked against all new property sales since March 2020, and no changes are needed to the certified list of abutters.

Best,
Janice Barba, Administrative Assistant
Assessor's Office
580 High Street, Westwood, MA 02090
781 326-1904

From: Brandon Li [mailto:bli@kellyengineeringgroup.com]
Sent: Tuesday, August 18, 2020 5:56 PM
To: Janice Barba
Cc: assessors@townhall.westwood.ma.us
Subject: Westwood Certified Abutters List - 768 Chestnut St. Needham

Hi Janice,

An abutters list was prepared for 768-768a-768B Chestnut St. in Needham MA in March of this year. See attached. I'm filing another application with the Town of Needham Conservation Commission. I need a 100' abutters list. Does this list need to be re-certified or is it still valid? If so, can you re-certify?
Thank you.

Brandon Li, Project Engineer
Kelly Engineering Group, Inc.
0 Campanelli Drive
Braintree, MA 02184
Phone: 781 843 4333
Fax: 781 843 0028
Mobile: (617) 817-8236
email: bli@kellyengineeringgroup.com
Come visit us at
https://kellyengineeringgroup.com/
I will be availing of our summer hours policy and will not be available Friday afternoons. Because our clients are important to us, we will ensure that team members are available when needed.

The Attorney General has determined that email correspondences are public records unless the content of the email falls with one of the stated exemptions under the Public Records Laws

The Attorney General has determined that email correspondences are public records unless the content of the email falls with one of the stated exemptions under the Public Records Laws

Gmail by Google

Robert Smart <bob@robertsmart.net>

RE: certified abutters list

1 message

Janice Barba <jbarba@townhall.westwood.ma.us> Tue, Mar 10, 2020 at 10:25 AM
To: Robert Smart <bob@robertsmart.net>

Sir – the direct abutter is:

THE 235 WESTFIELD STREET REALTY TRUST
PAUL G & CAROLINE W GAY TRUSTEES
235 WESTFIELD ST
WESTWOOD, MA 02090

Best,

Janice Barba, Administrative Assistant

Assessor's Office

580 High Street, Westwood, MA 02090

781 326-1904

From: Robert Smart [mailto:bob@robertsmart.net]
Sent: Tuesday, March 10, 2020 10:01 AM
To: Janice Barba
Subject: Re: certified abutters list

Ms. Barba: we need only the direct abutter(s) to the Needham parcel, not abutters to the abutter(s) on the Westfield side. Could you send a revised list? Bob

Robert T. Smart, Jr., Esq.

399 Chestnut Street

Needham, MA 02492

T 781-444-9344

FX 781-449-0242

bob@robertsmart.net

On Mon, Mar 9, 2020 at 4:13 PM Janice Barba <jbarba@townhall.westwood.ma.us> wrote:

Mr. Smart – please see attached.

Best,

Janice Barba, Administrative Assistant

Assessor's Office

580 High Street, Westwood, MA 02090

781 326-1904

From: Robert Smart [mailto:bob@robertsmart.net]
Sent: Monday, March 09, 2020 2:57 PM
To: assessors@townhall.westwood.ma.us
Subject: certified abutters list

Please see my letter and request for certified abutters list, attached. If there are questions, please call.

Robert T. Smart, Jr., Esq.

399 Chestnut Street

Needham, MA 02492

T 781-444-9344

FX 781-449-0242

bob@robertsmart.net

The Attorney General has determined that email correspondences are public records unless the content of the email falls with one of the stated exemptions under the Public Records Laws

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OFFICE OF
BOARD OF ASSESSORS
P.O. BOX 250
DOVER, MASSACHUSETTS 02030-0250
508-785-0032 EXT. 241

August 19, 2020

Brandon Li
Kelly Engineering Group, Inc.
0 Campanelli Drive
Braintree, MA 02184

Re: Certified List of Dover Direct Abutters to 768-768A-768B Chestnut Street, Needham, MA Property Line.

Dear Mr. Li:

Listed below are the Dover abutters to the property located at 768-768A-768B Chestnut Street, Needham, MA. This certification represents direct abutters to the property line, including those across a traveled way or across a body of water, according to our most recent tax list.

08-004 (Lot D, Dedham Street)
770 Chestnut Street LLC
130 Prospect Street
Cambridge, MA 02139

08-005
William S. Burhoe
344 Dedham Street
Dover, MA 02030

Respectfully,

Kristin Abraham
Assessor Clerk

KELLY ENGINEERING GROUP, INC.
0 Campanelli Drive-Braintree-MA 02184 Phone 781-843-4333

Attachment #3

Wetland Resource Evaluation
DEP BVW Delineation Field Data Form
National Flood Hazard Layer FIRMette
USGS Topographic Map
Natural Heritage Atlas
Needham Flood Map of Property

EcoTec, Inc.

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

September 24, 2015
Revised August 12, 2020

Mr. Bill Piersiak
768 Chestnut Street
Needham, MA 02494

Cc: David Kelly, P.E., Kelly Engineering Group, Inc.

RE: Revised Wetland Resource Evaluation, 768 Chestnut Street, Needham, Massachusetts

Dear Mr. Piersiak:

On July 31 and August 6 and 13, 2015, EcoTec inspected the property at 768 Chestnut Street 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 Town of Needham General Wetlands Bylaw (Article 6; the "Bylaw") and the Town of Needham Wetlands Protection Regulations (the "Bylaw Regulations"); and (3) the U.S. Clean Water Act. **On August 10, 2020, EcoTec reviewed certain sections of resource area boundaries that are located within 100 feet or 200 feet of the proposed roadway project or components of the roadway project (i.e., the proposed stormwater basin).** John P. Rockwood, Ph.D., SPWS conducted the above inspections.

The subject site consists of land located generally to the east of Chestnut Street and north and west of the Charles River in southeastern Needham, Massachusetts. The site is developed with several residential structures and outbuildings, in-ground swimming pool, paddock, ice skating rink, paved driveway and parking areas, various fences, and large areas of associated lawn and landscaping. Undeveloped portions of the site consist of upland forest and various wetland resources. Plant species observed in the upland forest include northern red oak (*Quercus rubra*), white oak (*Quercus alba*), eastern white pine (*Pinus strobus*), black cherry (*Prunus serotina*), red maple (*Acer rubrum*), Norway maple (*Acer platanoides*), shag-bark hickory (*Carya ovata*), American beech (*Fagus grandifolia*), white ash (*Fraxinus americana*), staghorn sumac (*Rhus typhina*), and American plum (*Prunus americana*) trees, saplings, and/or shrubs; poison ivy (*Toxicodendron radicans*), common greenbrier (*Smilax rotundifolia*), oriental bitter-sweet (*Celastrus orbiculata*), Virginia creeper (*Parthenocissus quinquefolia*), and grape (*Vitis sp*.) climbing woody vines and ground cover; highbush blueberry (*Vaccinium corymbosum*), American yew (*Taxus canadensis*), maple-leaf viburnum (*Viburnum acerifolium*), arrow-wood (*Viburnum dentatum*), eastern red cedar (*Juniperus virginiana*), winged euonymus (*Euonymus alata*), Japanese barberry (*Berberis thunbergii*), bramble (*Rubus sp*.), honeysuckle (*Lonicera sp*.), glossy buckthorn (*Rhamnus frangula*), common buckthorn (*Rhamnus cathartica*), and multiflora rose (*Rosa multiflora*) shrubs; and lowbush blueberry (*Vaccinium angustifolium*), wild sarsaparilla (*Aralia nudicaulis*), tree clubmoss (*Lycopodium obscurum*), trailing clubmoss (*Lycopodium complanatum*), bracken fern (*Pteridium aquilinum*), 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*), golden-rods (*Solidago sp*.), myrtle (*Vinca minor*), upland sedge (*Carex pensylvanica*), and grasses (Gramineae sp.) ground cover. A portion of the

upland forest in the southern portion of the site has an understory consisting largely of maintained grasses. The wetland resources observed on and near 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 or, in the absence of Bordering Vegetated Wetlands, Bank was delineated in the field in accordance with the definitions set forth in the regulations at 310 CMR 10.55(2)(c) and 310 CMR 10.54(2). 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." Section 10.54(2)(c) states that "The upper boundary of Bank is the first observable break in the slope or the mean annual flood level, whichever is lower." 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. Bylaw and federal wetlands were presumed to have boundaries conterminous with the delineated Bordering Vegetated Wetlands and Bank. Three sets of DEP Bordering Vegetated Wetland Delineation Field Data Forms completed for observation plots located in the wetlands and uplands near flags B4, C11, and D65 are 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 B1 to B14 Stop Start B21 to B25 Stop	Pink Flags	Boundary of Bordering Vegetated Wetlands associated with off-site Pond located in the northeastern portion of the site.
Start C1 to C24 Stop	Pink Flags	Boundary of Bordering Vegetated Wetlands associated with Charles River located in the eastern portion of the site.
Start D1 to D92 Connect to Prior Flag A1 to A3 **[A3 to A1 and D92 to D88]**	Pink Flags **[Refreshed by KEG with Pink Flags]**	Boundary of Bordering Vegetated Wetlands associated with Charles River located in the eastern and southern portions of the site.
GLM Flags placed in 2020 [20-204 to 20-206]	Pink Flags	Boundary of off-site Isolated Vegetated Wetland under Bylaw only located off-site to the north.
Start S1 to S51 Connect to Prior Flag R39 to R37 **[R37 to R39 and S51 to S41]**	Orange Flags **[Refreshed by KEG with Blue/White Striped Flags]**	MAHWL of the Charles River near the eastern and southern boundary of the site.

Note: Flag series/numbers in Bold in table above were reviewed by EcoTec on August 10, 2020 and were found to accurately reflect the associated resource area boundary.

Findings

Wetland C (i.e., Some A- and all C- and D-series flags) consists of a band of forested swamp with shrub swamp and wet meadow inclusions located in the eastern and southern portions of the site that are associated with the Charles River which is located along the eastern and southern site boundaries. Plant species observed in the forested swamp and shrub swamp inclusions include red maple (*Acer rubrum*), swamp white oak (*Quercus bicolor*), gray birch (*Betula populifolia*), American elm (*Ulmus americana*), and

willow (Salix sp.) trees, saplings, and/or shrubs; poison ivy (*Toxicodendron radicans*), common greenbrier (*Smilax rotundifolia*), and grape (*Vitis sp*.) climbing woody vines and ground cover; highbush blueberry (*Vaccinium corymbosum*), common winterberry (*Ilex verticillata*), arrow-wood (*Viburnum dentatum*), wither-rod (*Viburnum cassinoides*), speckled alder (*Alnus rugosa*), silky dogwood (*Cornus amomum*), glossy buckthorn (*Rhamnus frangula*), sweet pepper-bush (*Clethra alnifolia*), swamp azalea (*Rhododendron viscosum*), American elderberry (*Sambucus canadensis*), common buttonbush (*Cephalanthus occidentalis*), steeple-bush (*Spiraea tomentosa*), and broad-leaf meadow-sweet (*Spiraea latifolia*) shrubs; and bristly blackberry (*Rubus hispidus*), cinnamon fern (*Osmunda cinnamomea*), royal fern (*Osmunda regalis*), sensitive fern (*Onoclea sensibilis*), New York fern (*Thelypteris noveboracensis*), spinulose woodfern (*Dryopteris spinulosa*), skunk-cabbage (*Symplocarpus foetidus*), swamp Jack-in-the-pulpit (*Arisaema triphyllum*), spotted touch-me-not (*Impatiens capensis*), and sphagnum moss (*Sphagnum sp*.) ground cover. Plant species observed in the meadow inclusions include grasses (Gramineae sp.), sedges (Cyperaceae sp.), rushes (Juncaceae sp.), broad-leaf cattail (*Typha latifolia*), purple loosestrife (*Lythrum salicaria*), spotted touch-me-not (*Impatiens capensis*), golden-rods (*Solidago sp*.), fragrant-golden-rods (*Euthamia sp*.), sensitive fern (*Onoclea sensibilis*), bedstraw (*Gallium sp*.), butter-cup (*Ranunculus sp*.), blue vervain (*Verbena hastata*), skunk-cabbage (*Symplocarpus foetidus*), and spotted Joe-pye-weed (*Eupatoriadelphus maculatus*) ground cover. Evidence of wetland hydrology, including hydric soils, saturated soils, pore linings, and drainage patterns, was observed within the delineated wetland. This vegetated wetland borders a perennial stream; accordingly, the vegetated wetlands would be regulated as Bordering Vegetated Wetlands and the Charles River would be regulated as Bank and Land Under Water Bodies and Waterways under the Regulations and Bylaw/Bylaw Regulations. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands and Bank under the Regulations and Bylaw/Bylaw Regulations.

Wetland B (i.e., B-series flags) consists of a band of forested swamp located in the northeastern portion of the site that is associated with an intermittent stream and pond located off-site to the northeast. Plant species observed include red maple (*Acer rubrum*) and American elm (*Ulmus americana*) trees, saplings, and/or shrubs; poison ivy (*Toxicodendron radicans*) and common greenbrier (*Smilax rotundifolia*) *sp*.) climbing woody vines and ground cover; highbush blueberry (*Vaccinium corymbosum*), arrow-wood (*Viburnum dentatum*), silky dogwood (*Cornus amomum*), glossy buckthorn (*Rhamnus frangula*), and sweet pepper-bush (*Clethra alnifolia*), shrubs; and bristly blackberry (*Rubus hispidus*), cinnamon fern (*Osmunda cinnamomea*), royal fern (*Osmunda regalis*), sensitive fern (*Onoclea sensibilis*), New York fern (*Thelypteris noveboracensis*), spinulose woodfern (*Dryopteris spinulosa*), skunk-cabbage (*Symplocarpus foetidus*), swamp Jack-in-the-pulpit (*Arisaema triphyllum*), spotted touch-me-not (*Impatiens capensis*), and sphagnum moss (*Sphagnum sp*.) ground cover. Evidence of wetland hydrology, including hydric soils, high groundwater, saturated soils, pore linings, evidence of flooding, and drainage patterns, was observed within the delineated wetland. This vegetated wetland borders an off-site intermittent stream; accordingly, the vegetated wetlands would be regulated as Bordering Vegetated Wetlands; the intermittent stream would be regulated as Bank; and the pond would be regulated as Bank and Land Under Water Bodies and Waterways under the Regulations and Bylaw/Bylaw Regulations. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands and Bank under the Regulations and Bylaw/Bylaw Regulations.

Wetland GLM (i.e., GLM flags placed in 2020) consists of a pocket of isolated forested swamp located off-site to the north. Plant species observed include poison ivy (*Toxicodendron radicans*) climbing woody vines and ground cover; glossy buckthorn (*Rhamnus frangula*) shrubs; and royal fern (*Osmunda regalis*) and

spotted touch-me-not (*Impatiens capensis*) ground cover. Evidence of wetland hydrology, including hydric soils, pore linings, and evidence of short-term flooding, was observed within the delineated wetland. This vegetated wetland does not border a lake, pond, river, stream, or creek and would not be regulated as Bordering Vegetated Wetlands under the Regulations. This area is too small to be regulated as Isolated Land Subject to Flooding under the Regulations. This area would be regulated as an isolated Freshwater Wetland under the Bylaw/Bylaw Regulations and would have a 100-foot Buffer Zone that extends horizontally outward from the edge of the Freshwater Wetland under the Bylaw/Bylaw Regulations.

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, Norfolk County, Massachusetts, Map Number 25021C0038E, Effective Date July 17, 2012 (attached), there is a mapped Zone AE (i.e., 100-year floodplain) with a 100-year flood elevation of approximately 96 feet (NAVD 1988) located in the eastern and southern portions of the site. There is a band mapped as Other Flood Areas: Zone X, which is defined as areas located within the 0.2% annual chance flood (i.e., 500-year floodplain), located to the north and west of the 100-year floodplain. The 500-year floodplain does not have regulatory significance. The balance of 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 determine the extent of the 100-year flood elevation and the presence and extent of Bordering Land Subject to Flooding on the site based upon site specific topography at the proper datum with interpolation of the flood elevations as necessary from the Flood Profile. When present, Bordering Land Subject to Flooding would occur in areas where the 100-year floodplain is located outside of or upgradient of the delineated Bordering Vegetated Wetlands boundary. Bordering Land Subject to Flooding does not have a 100-foot Buffer Zone under the Regulations and Bylaw/Bylaw Regulations.

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., Boston South Quadrangle, dated 1987, attached), the Charles River is located along the eastern and southern boundaries of the site. The entire length and the width to the mean annual high-water line of the twenty-three major rivers, including the Charles River, are considered part of the river under the Regulations. Riverfront Area would extend 200 feet horizontally upgradient from the mean annual high-water line of the river. Section 10.58(2)(a)2. states that the "Mean annual high-water line of a river is the line that is apparent from visible markings or changes in the character of soils or vegetation due to prolonged presence of water and that distinguishes between predominantly aquatic and predominantly terrestrial land. Field indicators of bankfull conditions shall be used to determine the mean annual high-water line. Bankfull field indicators include but are not limited to: changes in slope, changes in vegetation, stain lines, top of pointbars, changes in bank materials, or bank undercuts." Section 10.58(2)(a)2.a. states that "In most rivers, the first observable break in slope is coincident with bankfull conditions and the mean annual high-water line." The mean annual high-water line of the stream was delineated in the field with R- and S-series flags based upon the above-referenced regulation. Furthermore, based upon a review of the current USGS Map and observations made during the site inspection, there are no other mapped or significant unmapped streams with a watershed area of 0.5 square miles or greater located on or within 200 feet of the site. Riverfront Area does not have a Buffer

Zone under the Act/Regulations but may overlap other wetland resources and their Buffer Zones. Riverfront Area is not a resource area specifically regulated under the Bylaw/Bylaw Regulations.

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*, 14th edition, Priority Habitats and Estimated Habitats from the NHESP Interactive Viewer, valid from August 1, 2017, and Certified and Potential Vernal Pools from MassGIS (attached), there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq*.)] or Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00 *et seq*.)] on or in the immediate vicinity of the site. There are no mapped Certified Vernal Pools located on or near the site and one mapped Potential Vernal Pool is located within Wetland D in the southeastern portion of the site. The site no longer contains mapped Estimated Habitat or mapped Priority Habitat associated with the Charles River as it did under the 13th edition of the NHESP Atlas. As such, there are presently no filing requirements with NHESP under either the Act or the Massachusetts Endangered Species Act: a copy of the complete Notice of Intent is not required to be submitted to the NHESP.

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.

John P. Rockwood

John P. Rockwood, Ph.D., SPWS
Chief Environmental Scientist

Attachments (5, 16 pages)

18/wr/NEEDHAM768CHESTNUTWRE2020

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

Applicant: Prepared by: EcoTec, Inc. Project location: 768 Chestnut Street, Needham DEP File # :

Check all that apply:

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

Section I. Vegetation

Observation Plot Number: B4 Transect Number: Up Date of Delineation: 7/31/2015

A. Sample Layer and Plant Species # (by common/scientific name)			B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category * #
Tree	Red Maple	*Acer rubrum*	40	44	Yes	FAC*
	Eastern White Pine	*Pinus strobus*	50	56	Yes	FACU
Sapling	Northern Red Oak	*Quercus rubra*	10	50	Yes	FACU-
	Eastern White Pine	*Pinus strobus*	10	50	Yes	FACU
Shrub	Northern Red Oak	*Quercus rubra*	10	22	Yes	FACU-
	Eastern White Pine	*Pinus strobus*	20	44	Yes	FACU
	Glossy Buckthorn	*Rhamnus frangula*	15	33	Yes	FAC*
Ground Cover	Lowbush Blueberry	*Vaccinium angustifolium*	15	27	Yes	FACU-
	Wild-lily-of-the-valley	*Maianthemum canadense*	30	55	Yes	FAC-
	Glossy Buckthorn	*Rhamnus frangula*	10	18	No	FAC*

Plant Taxonomy and Wetland Indicator Category from "National List of Plant Species that Occur in Wetlands: Massachusetts" (Fish & Wildlife Service, U.S. Department of the Interior, 1988) as required by 310 CMR 10.55(2)(c).

*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 conclusions:

Number of dominant wetland indicator plants: 2 Number of dominant non-wetland indicator plants: 7

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.

TRANSECT B4 UP (CONT.)

Section II. Indicators of Hydrology

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	0-2	10 YR 3/3 Loam	-
B1	2-6	10 YR 5/4 Loam	-
B2	6-16	10 YR 5/6 Sandy Loam	-

Remarks: **Terminated at 16 inches; groundwater not encountered.**

3. Other: -

Conclusion: Is soil Hydric? **No**

Other Indications of Hydrology: (check all that apply and 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 (stream, lake, or tidal gauge; aerial photo; other): _____
- ☐ Other: _____

Vegetation and Hydrology Conclusion

	yes	no
Number of wetland indicator plants ≥ number 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.

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

Applicant: Prepared by: EcoTec, Inc. Project location: 768 Chestnut Street, Needham DEP File # :

Check all that apply:

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

Section I. Vegetation

Observation Plot Number: B4 Transect Number: Wet Date of Delineation: 7/31/2015

A. Sample Layer and Plant Species # (by common/scientific name)			B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category * #
Tree	Red Maple	*Acer rubrum*	80	100	Yes	FAC*
Climbing Woody Vine	Poison Ivy	*Toxicodendron radicans*	10	100	Yes	FAC*
Sapling	Shag-bark Hickory	*Carya ovata*	10	33	Yes	FACU-
	American Plum	*Prunus americana*	10	33	Yes	FACU-
	Red Maple	*Acer rubrum*	10	33	Yes	FAC*
Shrub	Glossy Buckthorn	*Rhamnus frangula*	50	83	Yes	FAC*
	Eastern White Pine	*Pinus strobus*	10	17	No	FACU-
Ground Cover	Wild-lily-of-the-valley	*Maianthemum canadense*	30	27	Yes	FAC-
	Skunk-cabbage	*Symplocarpus foetidus*	40	36	Yes	OBL*
	Spotted Touch-me-not	*Impatiens capensis*	10	9	No	FACW*
	Woodfern	*Dryopteris sp.*	10	9	No	-
	Poison Ivy	*Toxicodendron radicans*	10	9	No	FAC*
	Sensitive Fern	*Onoclea sensibilis*	10	9	No	FACW*

Plant Taxonomy and Wetland Indicator Category from "National List of Plant Species that Occur in Wetlands: Massachusetts" (Fish & Wildlife Service, U.S. Department of the Interior, 1988) as required by 310 CMR 10.55(2)(c).

*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 conclusions:

Number of dominant wetland indicator plants: 5 Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

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.

TRANSECT B4 WET (CONT.)

Section II. Indicators of Hydrology

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	0-16	10 YR 2/1 Mucky Loam	-
B	16-20	10 YR 6/1 Sand	-

Remarks: **Terminated at 20 inches.**

3. Other: -

Conclusion: Is soil Hydric? **Yes**

Other Indications of Hydrology: (check all that apply and describe)

- ☐ Site inundated: _____
- ☑ Depth to free water in observation hole: **12 inches**
- ☑ Depth to soil saturation in observation hole: **8 inches**
- ☐ Water marks: _____
- ☐ Drift lines: _____
- ☐ Sediment deposits: _____
- ☐ Drainage patterns in BVW: _____
- ☐ Oxidized rhizospheres: _____
- ☑ Water-stained leaves: _____
- ☐ Recorded data (stream, lake, or tidal gauge; aerial photo; other): _____
- ☐ Other: _____

Vegetation and Hydrology Conclusion

	yes	no
Number of wetland indicator plants ≥ number 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.

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

Applicant: Prepared by: EcoTec, Inc. Project location: 768 Chestnut Street, Needham DEP File # :

Check all that apply:

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

Section I. Vegetation

Observation Plot Number: C11 Transect Number: Up Date of Delineation: 7/31/2015

A. Sample Layer and Plant Species # (by common/scientific name)			B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category * #
Tree	Red Maple	*Acer rubrum*	20	22	Yes	FAC*
	Eastern White Pine	*Pinus strobus*	40	44	Yes	FACU
	Black Cherry	*Prunus serotina*	10	11	No	FACU
	Northern Red Oak	*Quercus rubra*	20	22	Yes	FACU-
Sapling	Eastern White Pine	*Pinus strobus*	10	100	Yes	FACU
Shrub	Eastern White Pine	*Pinus strobus*	30	50	Yes	FACU
	Glossy Buckthorn	*Rhamnus frangula*	20	33	Yes	FAC*
	Highbush Blueberry	*Vaccinium corymbosum*	10	17	No	FACW-*
Ground Cover	Poison Ivy	*Toxicodendron radicans*	5	33	Yes	FAC*
	Glossy Buckthorn	*Rhamnus frangula*	5	33	Yes	FAC*
	Eastern White Pine	*Pinus strobus*	5	33	Yes	FACU

Plant Taxonomy and Wetland Indicator Category from "National List of Plant Species that Occur in Wetlands: Massachusetts" (Fish & Wildlife Service, U.S. Department of the Interior, 1988) as required by 310 CMR 10.55(2)(c).

*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 conclusions:

Number of dominant wetland indicator plants: 4 Number of dominant non-wetland indicator plants: 5

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.

TRANSECT C11 UP (CONT.)

Section II. Indicators of Hydrology

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	0-2	10 YR 3/2 Loam	-
B1	2-8	10 YR 5/4 Loam	-
B2	8-16	10 YR 5/6 Sandy Loam	-

Remarks: **Terminated at 16 inches; groundwater not encountered.**

3. Other: -

Conclusion: Is soil Hydric? **No**

Other Indications of Hydrology: (check all that apply and 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 (stream, lake, or tidal gauge; aerial photo; other): _____
- ☐ Other: _____

Vegetation and Hydrology Conclusion

	yes	no
Number of wetland indicator plants ≥ number 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.

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

Applicant: Prepared by: EcoTec, Inc. Project location: 768 Chestnut Street, Needham DEP File # :

Check all that apply:

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

Section I. Vegetation

Observation Plot Number: C11 Transect Number: Wet Date of Delineation: 7/31/2015

A. Sample Layer and Plant Species # (by common/scientific name)			B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category * #
Tree	Red Maple	*Acer rubrum*	20	67	Yes	FAC*
	Swamp White Oak	*Quercus bicolor*	10	33	Yes	FACW+*
Climbing Woody Vine	Poison Ivy	*Toxicodendron radicans*	20	67	Yes	FAC*
	Fox Grape	*Vitis labrusca*	10	33	Yes	FACU
Shrub	Glossy Buckthorn	*Rhamnus frangula*	60	86	Yes	FAC*
	American Elder	*Sambucus canadensis*	10	14	No	FACW-*
Ground Cover	Sensitive Fern	*Onoclea sensibilis*	40	47	Yes	FACW*
	Spotted Touch-me-not	*Impatiens capensis*	15	18	Yes	FACW*
	Poison Ivy	*Toxicodendron radicans*	15	18	Yes	FAC*
	Glossy Buckthorn	*Rhamnus frangula*	15	18	Yes	FAC*

Plant Taxonomy and Wetland Indicator Category from "National List of Plant Species that Occur in Wetlands: Massachusetts" (Fish & Wildlife Service, U.S. Department of the Interior, 1988) as required by 310 CMR 10.55(2)(c).

*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 conclusions:

Number of dominant wetland indicator plants: 8 Number of dominant non-wetland indicator plants: 1

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.

TRANSECT C11 WET (CONT.)

Section II. Indicators of Hydrology

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	0-4	10 YR 2/1 Loam	-
B	4-8	10 YR 5/4 Loam	-
Ob/A	8-16	10 YR 2/1 Muck/Mucky Loam	-
B	16-20	10 YR 5/2 Sandy Loam	10 YR 6/1 and 7.5 YR 5/6

Remarks: **Terminated at 20 inches.**

3. Other: -

Conclusion: Is soil Hydric? **Yes**

Other Indications of Hydrology: (check all that apply and describe)

- ☐ Site inundated: _____
- ☑ Depth to free water in observation hole: **12 inches**
- ☑ Depth to soil saturation in observation hole: **8 inches**
- ☐ Water marks: _____
- ☐ Drift lines: _____
- ☐ Sediment deposits: _____
- ☐ Drainage patterns in BVW: _____
- ☐ Oxidized rhizospheres: _____
- ☐ Water-stained leaves: _____
- ☐ Recorded data (stream, lake, or tidal gauge; aerial photo; other): _____
- ☐ Other: _____

Vegetation and Hydrology Conclusion

	yes	no
Number of wetland indicator plants ≥ number 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.

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

Applicant: Prepared by: EcoTec, Inc. Project location: 768 Chestnut Street, Needham DEP File # :

Check all that apply:

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

Section I. Vegetation

Observation Plot Number: D65 Transect Number: Up Date of Delineation: 7/31/2015

A. Sample Layer and Plant Species # (by common/scientific name)			B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category * #
Tree	Red Maple	*Acer rubrum*	20	20	Yes	FAC*
	Eastern White Pine	*Pinus strobus*	40	40	Yes	FACU
	Shag-bark Hickory	*Carya ovata*	30	30	Yes	FACU-
	American Elm	*Ulmus americana*	10	10	No	FACW-*
Sapling	Shag-bark Hickory	*Carya ovata*	10	50	Yes	FACU-
	Eastern White Pine	*Pinus strobus*	10	50	Yes	FACU
Shrub	Glossy Buckthorn	*Rhamnus frangula*	15	25	Yes	FAC*
	Eastern White Pine	*Pinus strobus*	25	42	Yes	FACU
	Black Cherry	*Prunus serotina*	5	8	No	FACU
	Common Winterberry	*Ilex verticillata*	15	25	Yes	FACW+*
Ground Cover	Maple-leaf Viburnum	*Viburnum acerifolium*	20	44	Yes	NL
	Virginia Creeper	*Parthenocissus quinquefolia*	5	11	No	FACU
	Feather False-Solomon's-seal	*Smilacina racemosa*	10	22	Yes	FACU-
	Glossy Buckthorn	*Rhamnus frangula*	5	11	No	FAC*
	Wild-lily-of-the-valley	*Maianthemum canadensis*	5	11	No	FAC-

Plant Taxonomy and Wetland Indicator Category from "National List of Plant Species that Occur in Wetlands: Massachusetts" (Fish & Wildlife Service, U.S. Department of the Interior, 1988) as required by 310 CMR 10.55(2)(c).

*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 conclusions:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 7

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.

TRANSECT D65 UP (CONT.)

Section II. Indicators of Hydrology

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	0-4	10 YR 3/2 Loam	-
B	4-16	10 YR 5/6 Silty Loam	-

Remarks: **Terminated at 16 inches; groundwater not encountered.**

3. Other: -

Conclusion: Is soil Hydric? **No**

Other Indications of Hydrology: (check all that apply and 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 (stream, lake, or tidal gauge; aerial photo; other): _____
- ☐ Other: _____

Vegetation and Hydrology Conclusion

	yes	no
Number of wetland indicator plants ≥ number 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.

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

Applicant: Prepared by: EcoTec, Inc. Project location: 768 Chestnut Street, Needham DEP File # :

Check all that apply:

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

Section I. Vegetation

Observation Plot Number: D65 Transect Number: Wet Date of Delineation: 7/31/2015

A. Sample Layer and Plant Species # (by common/scientific name)			B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category * #
Tree	Red Maple	*Acer rubrum*	50	71	Yes	FAC*
	American Elm	*Ulmus americana*	20	29	Yes	FACW-*
Climbing Woody Vine	Poison Ivy	*Toxicodendron radicans*	10	100	Yes	FAC*
Sapling	Shag-bark Hickory	*Carya ovata*	10	100	Yes	FACU-
Shrub	Arrow-wood	*Viburnum dentatum*	20	33	Yes	FAC*
	Glossy Buckthorn	*Rhamnus frangula*	30	50	Yes	FAC*
	Common Winterberry	*Ilex verticillata*	10	17	No	FACW+*
Ground Cover	Poison Ivy	*Toxicodendron radicans*	30	50	Yes	FAC*
	Arrow-wood	*Viburnum dentatum*	10	17	Yes	FAC*
	Glossy Buckthorn	*Rhamnus frangula*	10	17	Yes	FAC*
	Swamp Jack-in-the-pulpit	*Arisaema triphyllum*	5	8	No	FACW-*
	Sedge	*Carex sp.*	5	8	No	-

Plant Taxonomy and Wetland Indicator Category from "National List of Plant Species that Occur in Wetlands: Massachusetts" (Fish & Wildlife Service, U.S. Department of the Interior, 1988) as required by 310 CMR 10.55(2)(c).

*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 conclusions:

Number of dominant wetland indicator plants: 8 Number of dominant non-wetland indicator plants: 1

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.

TRANSECT D65 WET (CONT.)

Section II. Indicators of Hydrology

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	0-16	10 YR 2/1 Loam	-
B	16-20	10 YR 5/2 Sandy Loam	7.5 YR 5/6

Remarks: Terminated at 20 inches.

3. Other: -

Conclusion: Is soil Hydric? Yes

Other Indications of Hydrology: (check all that apply and describe)

- ☐ Site inundated: _____
- ☑ Depth to free water in observation hole: 16 inches (droughty)
- ☑ Depth to soil saturation in observation hole: 10 inches
- ☐ Water marks: _____
- ☐ Drift lines: _____
- ☐ Sediment deposits: _____
- ☐ Drainage patterns in BVW: _____
- ☐ Oxidized rhizospheres: _____
- ☐ Water-stained leaves: _____
- ☐ Recorded data (stream, lake, or tidal gauge; aerial photo; other): _____
- ☐ Other: _____

Vegetation and Hydrology Conclusion

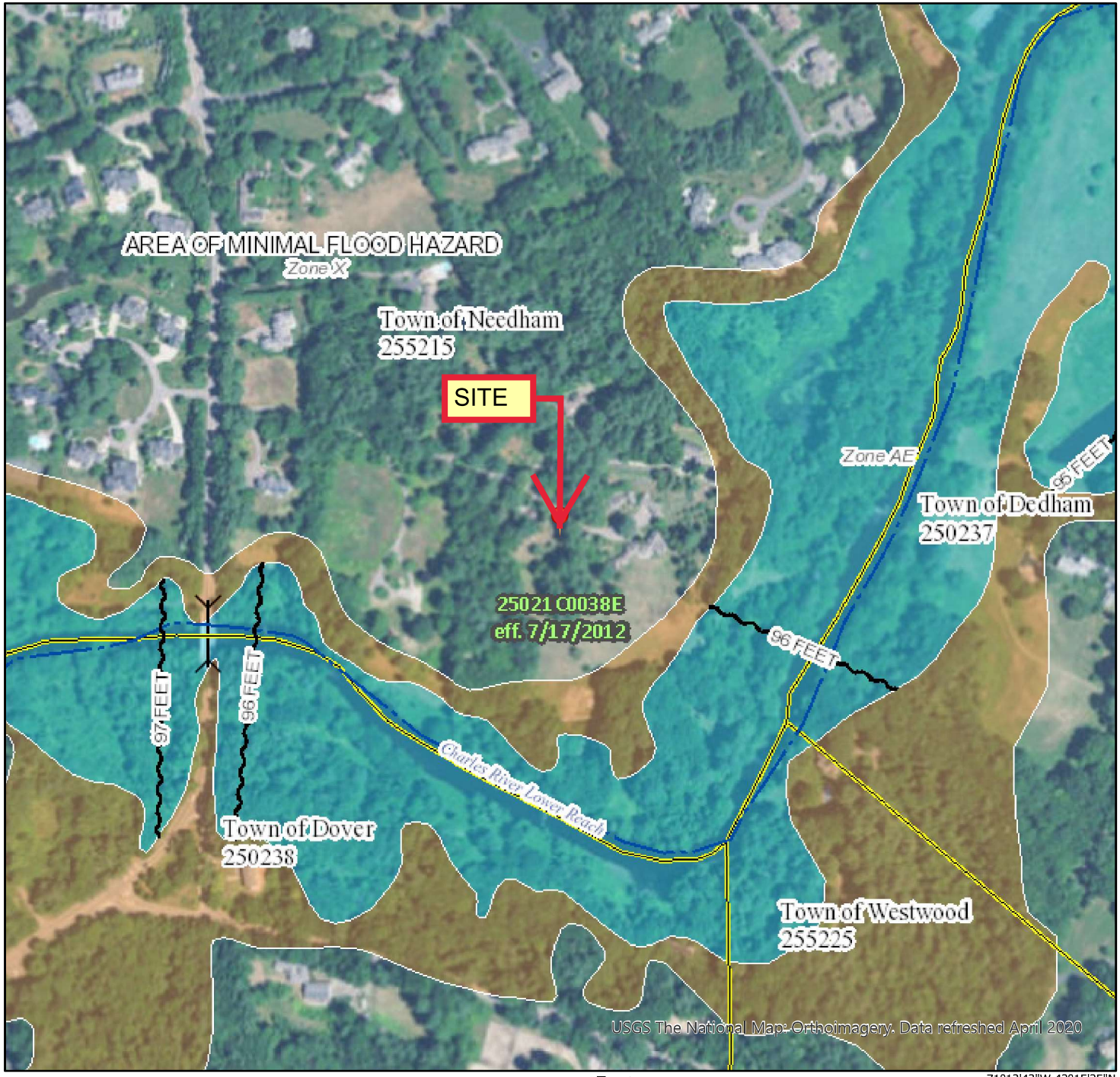
	yes	no
Number of wetland indicator plants ≥ number of non-wetland indicator plants	☑	☐
Wetland hydrology present:		
hydric soil present	☑	☐
other indicators of hydrology present	☑	☐
Sample location is in a BVW	☑	☐

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

National Flood Hazard Layer FIRMette

FEMA

71°14'21"W 42°15'51"N



71°13'43"W 42°15'25"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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

OTHER AREAS OF FLOOD HAZARD
- 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
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

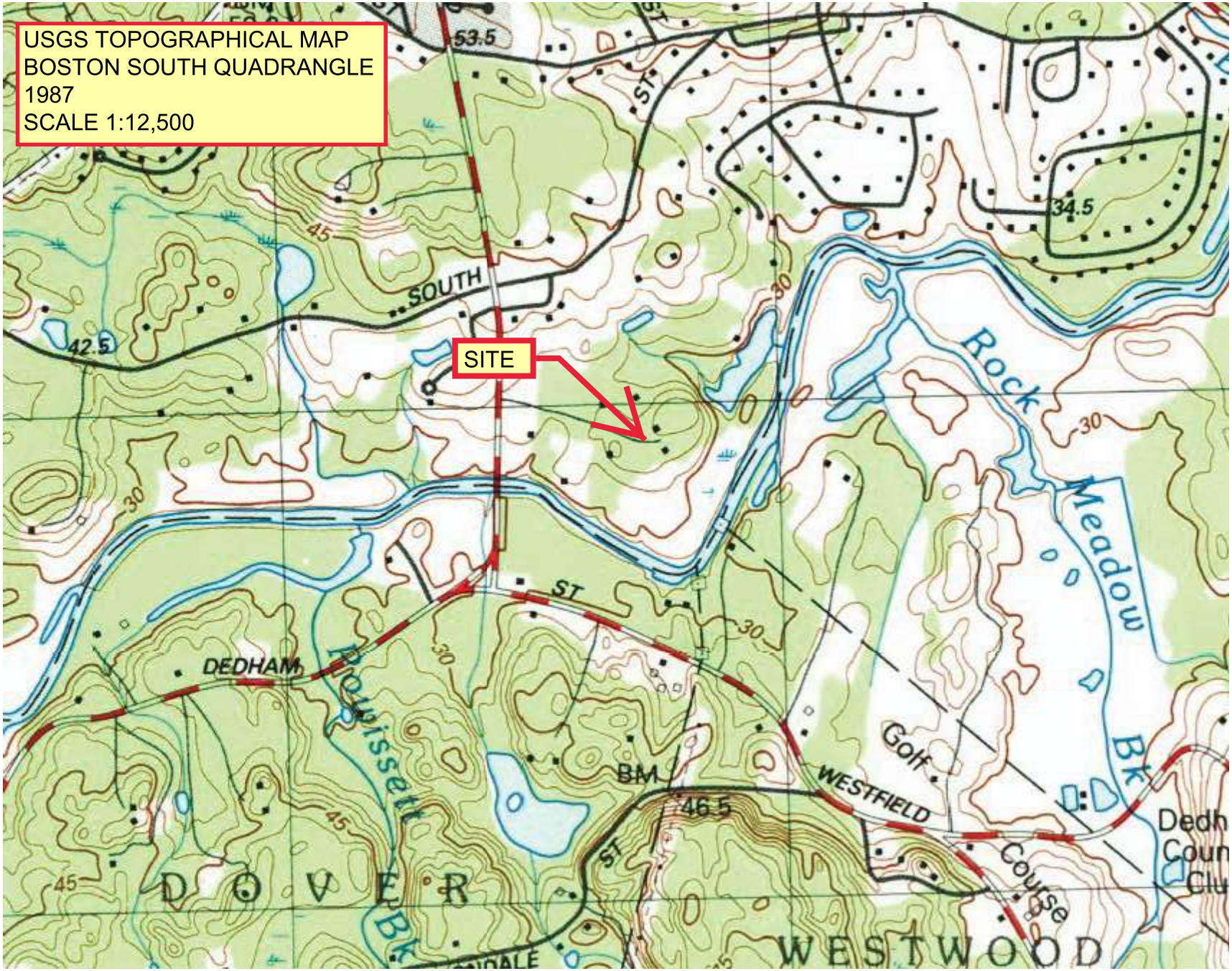
N

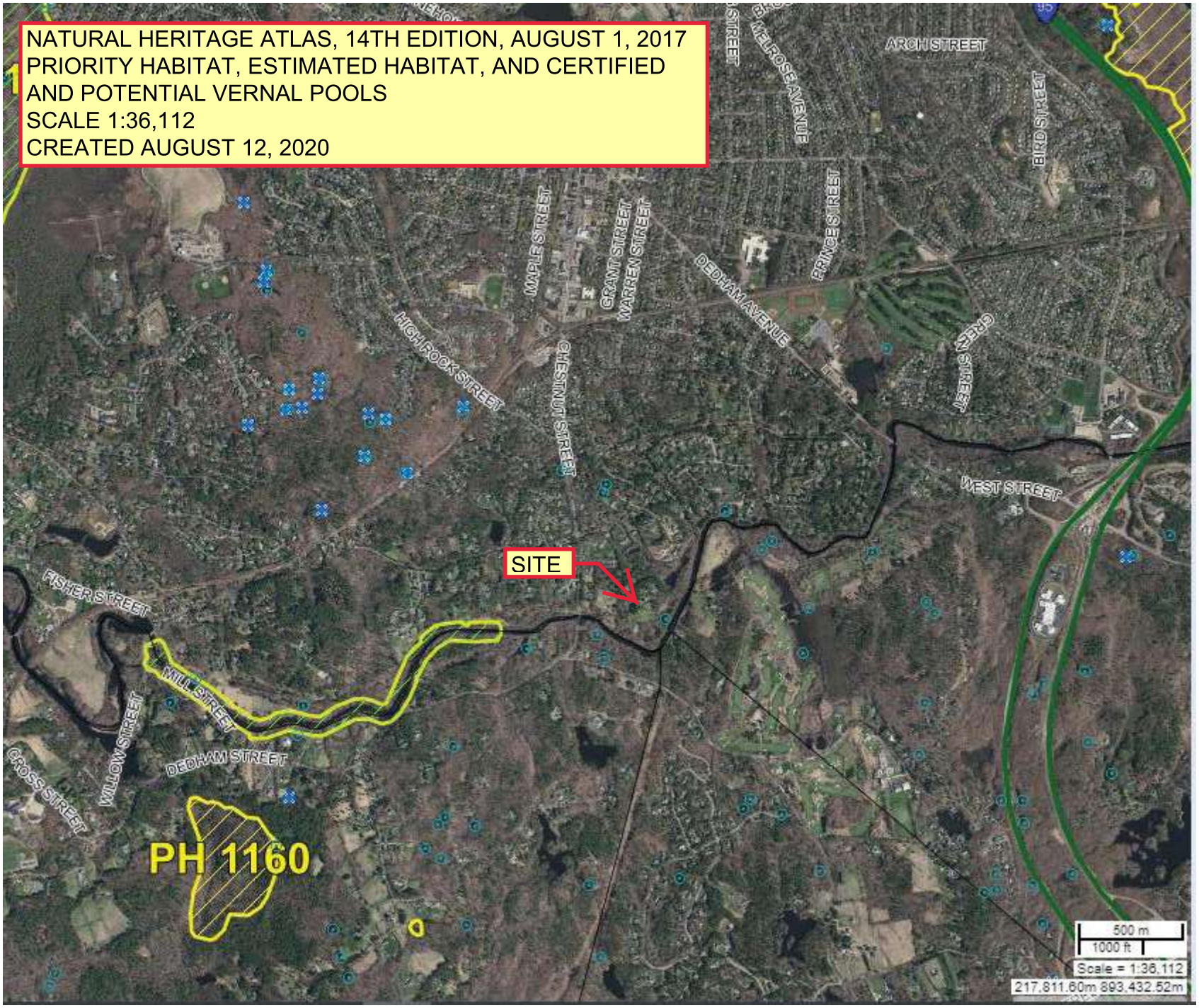
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 8/12/2020 at 10:30 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.


USGS TOPOGRAPHICAL MAP
BOSTON SOUTH QUADRANGLE
1987
SCALE 1:12,500
SITE
53.5
34.5
42.5
46.5
SOUTH
ST
DEDHAM
WESTFIELD
Rock
Meadow
Bk
Golf
Course
Powissett
Bk
BM
D O V E R
W E S T W O O D
45
30


NATURAL HERITAGE ATLAS, 14TH EDITION, AUGUST 1, 2017
PRIORITY HABITAT, ESTIMATED HABITAT, AND CERTIFIED
AND POTENTIAL VERNAL POOLS
SCALE 1:36,112
CREATED AUGUST 12, 2020
ARCH STREET
MELROSE AVENUE
BIRD STREET
PRINCE STREET
MAPLE STREET
GRANT STREET
WARREN STREET
DEDHAM AVENUE
HIGH ROCK STREET
CHESTNUT STREET
GREEN STREET
WEST STREET
SITE
FISHER STREET
MILL STREET
WILLOW STREET
DEDHAM STREET
CROSS STREET
PH 1160
500 m
1000 ft
Scale = 1:36,112
217,811.60m 893,432.52m

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

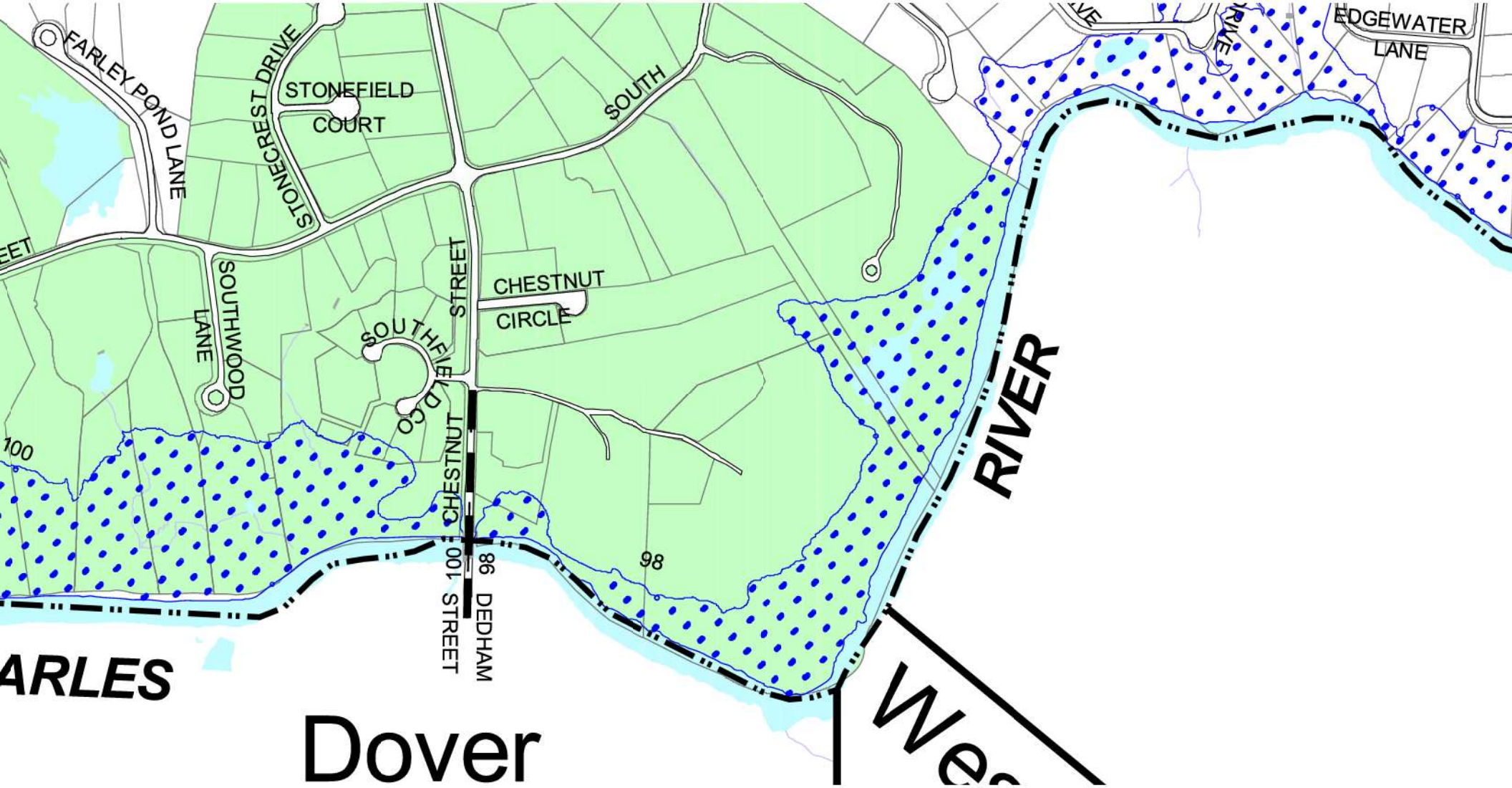
John P. Rockwood, Ph.D., SPWS
Chief Environmental Scientist

Dr. John P. Rockwood has been a Staff Scientist with EcoTec, Inc. since October 1999. He was previously a Chief Environmental Scientist at Sanford Ecological Services, Inc. of Southborough, Massachusetts from September 1990 to October 1999. Dr. Rockwood was certified in August 2002 and recertified in March 2008, January 2013, and June 2018 as a Professional Wetland Scientist (PWS) by the Society of Wetland Scientists Professional Certification Program (SWSPCP), and in April 2020, he was made a Senior Professional Wetland Scientist (SPWS) by the SWSPCP. His project experience includes wetland resource evaluation, delineation, and permitting at the local, state, and federal levels; wildlife habitat evaluation; pond and stream evaluation; vernal pool evaluation, certification, construction/replication, and monitoring; rare species habitat and impact assessment; wetland replacement, replication, and restoration area design, construction, and monitoring; invasive species removal and treatment protocols and monitoring; and expert testimony preparation. He has served as a consultant to municipalities, conservation commissions, the development community, engineering and survey firms, industry, and citizen's groups. He has managed and participated in a wide variety of wetlands-related projects ranging in scope from single-family house lots to subdivisions, commercial developments, mixed use developments, golf courses, a water park, MBTA commuter train station, and a regional mall. He has assessed the potential impacts of stormwater runoff, landfill leachate, and/or hazardous waste disposal sites on rare vertebrate and/or invertebrate species, and has conducted and/or directed surveys, delineated actual habitat, conducted habitat evaluations, and/or developed mitigation strategies necessary to protect rare vertebrate, invertebrate, and plant species and their habitats from proposed development-related impacts. He has designed and conducted drift fence studies for rare vertebrates. He has conducted and led preconstruction sweeps for the spotted turtle, wood turtle, and eastern box turtle. He has filed MESA Project Review Checklists and has prepared applications for Conservation and Management Permits and Amendments under MESA. He has submitted rare animal and plant observation forms to NHESP for several vertebrate, invertebrate, and plant species. He has conducted environmental impact assessments and has prepared MEPA documentation related to an office park, an MBTA commuter train station, water park, residential subdivisions, skating rink facility, landfill, and regional mall. Dr. Rockwood also has extensive experience in environmental site assessment related to possible oil and/or hazardous material contamination. He has conducted numerous environmental assessments, several including subsurface investigations, for sites located in Massachusetts, and has conducted preliminary environmental assessments for properties located in New York, New Hampshire, and Rhode Island. He has conducted ecological risk assessments (i.e., Stage I Environmental Screenings and Stage II Environmental Risk Characterizations) for a number of disposal sites in Massachusetts, including several disposal sites that had the potential to affect state-listed vertebrate and invertebrate species, and has utilized the EPA Rapid Bioassessment Protocol for macroinvertebrates to assess potential impacts of disposal sites and hazardous material releases on streams and rivers in Massachusetts and New York. He has served as the environmental contractor to the Franklin Consolidated Office of the Federal Deposit Insurance Corporation (FDIC-FCO) for 16 months, where he reviewed environmental reports, prepared scopes-of-work for site assessments, and provided technical advice to FDIC employees related to environmentally compromised assets. Dr. Rockwood has designed, conducted, and evaluated numerous surface water and groundwater monitoring programs. His prior research includes laboratory studies of the effects of low pH and aluminum on dragonfly nymphs and a field survey of the impact of chlorinated sewerage effluent on algal periphyton community dynamics. Dr. Rockwood is the co-author of a textbook on aquatic biology and is the principal author of three peer-reviewed research publications in the field of aquatic toxicology that address the effect of low pH and aluminum on nymphs of the dragonfly *Libellula julia*. Dr. Rockwood served as the as the Editor of the AMWS Newsletter from November 2004 to October 2010 and as Assistant Editor from May 2003 to November 2004 and October 2010 to January 2012. He served as President of the Association of Massachusetts Wetland Scientists from November 2013 to December 2015 and as Immediate Past President from December 2015 to December 2017. He was twice awarded by AMWS with their President's Award.

Education:
Doctor of Philosophy (Ph.D.): Aquatic Pollution Biology – Plant and Soil Sciences
University of Massachusetts at Amherst, 1989
Bachelor of Science (B.S.): Environmental Sciences, *Summa Cum Laude*
University of Massachusetts at Amherst, 1984

Professional Affiliations:
Society for Freshwater Science
Sigma Xi, Full Member
Association of Massachusetts Wetland Scientists, Voting Member
Society of Wetland Scientists
Massachusetts Association of Conservation Commissions

Certifications:
Society of Wetlands Scientists Senior Professional Wetland Scientist, Certification Number 1349
OSHA Health and Safety Training, 40-Hour Training, 29 CFR 1910.120
OSHA Health and Safety Training, 8-Hour Supervisor Training
OSHA Health and Safety Training, 8-Hour Refresher Training


FARLEY POND LANE
STONECREST DRIVE
STONEFIELD
COURT
SOUTH
EDGEWATER
LANE
SOUTHWOOD
LANE
SOUTHFIELD CO
STREET
CHESTNUT
CIRCLE
CHESTNUT
STREET
DEDHAM
100
98
RIVER
ARLES
Dover