

Notice of Intent

Under the Massachusetts Wetland Protection Act,
G.L. c. 131, s. 40 &
Town of Boxborough Wetlands Bylaw

for

**Town Map 15, Parcel 84
70 Summer Road
Boxborough, MA**

Applicant: Robert Doughty
70 Summer Road
Boxborough, MA 01719

Owners: Robert S. Doughty Investment Trust
Gertrude Ann Doughty Investment Trust
70 Summer Road
Boxborough, MA 01719

Date: January 15, 2025

Table of Contents

Project Narrative

Notice of Intent – WPA Form 3

Boxborough Wetland & Adjacent Land Resource Area Fee Calculation Worksheet

Abutters List / Affidavit / Abutter Notification

Attachments:

- A. U.S.G.S. Map
- B. Massachusetts Natural Heritage Atlas 13th edition, Effective: August 1, 2023
- C. FEMA Flood Insurance Rate Map
- D. Delineation Field Data Form
- E. Wetland Permitting Plan by Stamski and McNary, Inc.

Project Narrative

Project Narrative

Existing Conditions

The site is 1.48± acres and contains a single-family dwelling and appurtenances, including a detached garage, sheds, dirt driveway, concrete pavers, concrete walk, green house and lawn area. There is Bordering Vegetated Wetlands (BVW) east of the existing dwelling that project the 100-foot Buffer Zone onsite, also referred to as Adjacent Land Resource Area (ALRA) in the Bylaw Regulations. A portion of the existing dwelling, driveway and concrete pavers are located within the 100-foot buffer zone. The existing dwelling, dirt driveway, and sheds are located within the Buffer Zone/ALRA a minimum of 85'±, 61.2'±, and 67'± respectively from the edge of the BVW.

Project Description

Work proposed within the 100-foot Buffer Zone/Adjacent Land Resource Area (ALRA) is for the teardown of the existing single-family dwelling and construction of a new one. A new well is also proposed to serve the proposed dwelling. The existing concrete walk, concrete pavers, stone walk and a shed will be removed. The proposed dwelling and well are a minimum of 76'± and 84'± respectively from the Bordering Vegetated Wetlands. Additionally, 5 trees are proposed to be removed within the 100-foot Buffer Zone/ALRA, and the stumps will be left in place. The dirt driveway will be loamed and seeded, and a mitigation planting area is also proposed onsite.

The existing detached garage will also be torn down and replaced with the proposed bituminous concrete driveway outside the Buffer Zone/ALRA. A new sewage disposal system is proposed onsite and will also be located outside of 100-foot Buffer Zone/ALRA.

Current and proposed permanent alteration in the 100-foot Buffer Zone/ALRA is summarized in the following table:

	Disturbance in 100-foot Buffer Zone		
	Existing Disturbance (S.F.)	Proposed Disturbance	Change (S.F.)
Buildings	508	-508/+1,398	809
Concrete pavers, green house, concrete walk, concrete stone, retaining wall, and a shed	987	-932	55
Dirt Driveway	987	-987	0
Total	2,482	-1,029	

Resource Area Descriptions

The resource area is a Bordering Vegetated Wetland (BVW) located east of the existing dwelling. The BVW was delineated by B&C Associates in August 2024 and located by field survey.

Massachusetts Endangered Species Act Review:

The subject property is not located within an area of Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map dated August 1, 2023.

Compliance with General Performance Standards for BVW 310 CMR 10.55(4)(a-e):

The General Performance Standards for a Bordering Vegetated Wetland have been met since the proposed activity does not involve removing, filling, dredging, or altering of a BVW. The proposed siltation controls will prevent indirect alteration of wetlands during construction.

Compliance with Performance Standards under the Town of Boxborough Conservation Commission Regulations for the Wetland Bylaw:

2.3. Wetland Resource Areas

No work is proposed within any wetland resource areas.

2.4 Vernal Pools

There are no vernal pools located within 100 feet of the proposed work.

2.5. Adjacent Land Resource Area

2.5.3. Performance Standards

The proposed work includes construction of a single-family dwelling, well, and grading in the outer 25-feet furthest from the wetland. The proposed work also includes teardown of the existing dwelling. Additionally, 5 trees are proposed to be removed within the 100-foot Buffer Zone/ALRA, and the stumps will be left in place. The dirt driveway will be loamed and seeded, and a mitigation planting area is also proposed onsite. The proposed subsurface sewage disposal system and detached garage to be torn down are entirely outside the 100-foot Buffer Zone/ALRA.

2.5.3.1 In order to provide for the protection of this Adjacent Land Resource Area (lands within 100 feet) the following activities or uses are prohibited:

- Underground fuel storage;
- Underground or outside storage of hazardous materials;
- Parking lots;
- Dumpsters or refuse containers;
- Any part of a new sanitary waste disposal system including the grading required for these systems;
- Permanent structures including but not limited to buildings, barns, garages, or structures attached to same. The disturbance of any existing vegetation in the 50 feet of buffer zone closest to the wetlands.
- Stump pits or burial of any other type of construction refuse.
- Work in an adjacent land resource area which supports documented rare species.

Waiver requests are made for the proposed work within the 100-foot Buffer Zone/ALRA, including the new dwelling, well, and the removal of five trees.

2.5.3.2 The following activities or uses may be allowed only with appropriate conditions:

- The repair to an existing sanitary waste disposal system where concrete evidence is presented that shows no area outside the adjacent land resource area is available which meet the Board of Health regulations;
- Wells and waterlines only when it can be shown that no other location outside the Adjacent Land Resource Area zone is possible due to other town regulations;
- Grading required for roadways and house construction in the outer 25 feet furthest from the wetland.

- The construction and maintenance of a new roadway or driveway of minimum legal and practical width acceptable to the Planning Board where reasonable alternative access from a public way to an upland area of the same owner is unavailable. It shall be incumbent on the applicant to prove that the location of the roadway and driveway in the Adjacent Land Resource Area was not caused by the land division plan.
- Lawn in the outer 25 feet of the Adjacent Land Resource Area (furthest from wetland).
- Decks and enclosed porches without foundations in the outer 25 feet of the resource area.
- Dry wells for roof runoff in the outer 25 feet of this resource area.

The proposed dwelling, new well, and the existing single-family house to be torn down are within the outer 25 feet of the resource area. 3 of the 5 trees to be removed are located within 75 feet of the resource area.

2.6 Other

2.6.2. The presumptions for resource areas can be overcome only when the applicant demonstrates by a preponderance of credible evidence that:

- a. The State-of-the-art engineering solution proposed will protect the Bylaw interests, or
- b. The activity or use proposed will improve a resource area that has suffered degradation, or
- c. The resource area affected by the proposed use or activity is not significant to the Bylaw interests.

Waiver requests are made for the proposed work within the 100-foot Buffer Zone/ALRA, including the new dwelling, well, and the removal of five trees.

A portion of the existing dwelling, greenhouse, concrete pavers, sheds, retaining wall, dirt driveway, lawn, and stone/concrete walks are either partially or entirely within the 100-foot Buffer Zone/ALRA. The proposed dwelling is partially located within the outer 25 feet of the resource area to comply with the Zoning Board of Appeals' 40-foot front yard setback from Summer Road. The new well is proposed within the outer 25 feet of the ALRA to maintain the required 100-foot setback from the proposed septic tank, as specified by Boxborough's Board of Health Regulations Article I, Section 6. The well is proposed away from the existing 24-inch maple tree to avoid potential damage. Five trees are to be removed, with stumps left in place; two of these trees are within the outer 25 feet of the wetlands. The tree removals are necessary because one is too close to the proposed dwelling and others are dead.

Summary

The project has been designed to meet the General Performance Standards of Boxborough's Regulations for the Wetland Bylaw. Erosion controls have been proposed to prevent indirect alterations of the wetlands during construction.

Notice of Intent - WPA Form 3



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

Boxborough

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):

70 Summer Road

a. Street Address

Boxborough

b. City/Town

01719

c. Zip Code

Latitude and Longitude:

15

f. Assessors Map/Plat Number

d. Latitude

e. Longitude

84

g. Parcel /Lot Number

2. Applicant:

Robert

a. First Name

Doughty

b. Last Name

c. Organization

70 Summer Road

d. Street Address

Boxborough

e. City/Town

MA

f. State

01719

g. Zip Code

978-263-2636

h. Phone Number

i. Fax Number

gadoughty@hotmail.com

j. Email Address

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

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):

Montgomery

a. First Name

Nsamba

b. Last Name

Stamski and McNary, Inc.

c. Company

1000 Main St

d. Street Address

Acton

e. City/Town

MA

f. State

01720

g. Zip Code

978-263-8585

EXT207

i. Fax Number

mn@stamskiandmcnary.com

j. Email address

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

\$500.00

a. Total Fee Paid

\$237.50

b. State Fee Paid

\$262.50 + (\$1,199.00 Bylaw Fees)



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WPA Form 3 – Notice of Intent

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Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Boxborough

City/Town

A. General Information (continued)

6. General Project Description:

The project is for the tear down of the existing single-family dwelling and construction of a new single-family dwelling. Siltation controls to be provided. See narrative.

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

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> 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 CMR 10.24(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:

South Middlesex

a. County

53513

c. Book

b. Certificate # (if registered land)

301

d. Page Number

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

- ☒ 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.
- ☐ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

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



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Boxborough

City/Town

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

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

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

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



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

Boxborough

City/Town

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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	

4. ☐ 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



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

Boxborough

City/Town

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, 2023

b. Date of map

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

- c. Submit Supplemental Information for Endangered Species Review*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

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

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

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

(b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/mas-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.



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

Boxborough

City/Town

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 - Bourne to Rhode Island border, and the Cape & Islands:

North Shore - Plymouth to New Hampshire border:

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

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).



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

Boxborough

City/Town

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

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

D. Additional Information

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

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

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

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

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



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

Boxborough

City/Town

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.

Wetland Permitting Plan

a. Plan Title

Stamski and McNary, Inc.

George Dimakarakos, P.E.

b. Prepared By

c. Signed and Stamped by

January 15, 2025

1"=20'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☐ Attach Stormwater Report, if needed.

E. Fees

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

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

111

01/10/2025

2. Municipal Check Number

3. Check date

112

01/10/2025

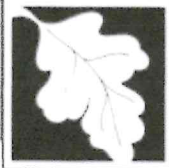
4. State Check Number

5. Check date

Robert S Doughty, Robert E Doughty

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number

Boxborough

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 requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line project location.

Robert S. Nampa

1. Signature of Applicant

Jan 9 2025

2. Date

Robert S. Nampa

3. Signature of Property Owner (if different)

Jan 8 2025

4. Date

Montgomery Nsamba

5. Signature of Representative (if any)

01/15/2025

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, a copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the Mass Regional Office (see Instructions) by certified mail or hand delivery.

Other:

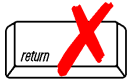
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that and the Instructions for additional submittal requirements.

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:

70 Summer Road

a. Street Address

112

c. Check number

Boxborough

b. City/Town

\$237.50

d. Fee amount

2. Applicant Mailing Address:

Robert

a. First Name

Doughty

b. Last Name

c. Organization

70 Summer Road

d. Mailing Address

Boxborough

e. City/Town

MA

f. State

01719

g. Zip Code

978-263-2636

h. Phone Number

i. Fax Number

gadoughty@hotmail.com

j. Email Address

3. Property Owner (if different):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

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.

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Construction of Single Family Dwelling	1	\$500	\$500

Step 5/Total Project Fee:

Step 6/Fee Payments:

Total Project Fee:	\$500.00
	a. Total Fee from Step 5
State share of filing Fee:	\$237.50
	b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:	\$262.50 + (\$1,199.00 Bylaw Fees)

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.)

Boxborough Wetland & Adjacent Land Resource Area Fee Calculations

Boxborough Wetland & Adjacent Land Resource Area Fee Calculation Worksheet

Notice of Intent Filings:

<u>Type of Service or Permit</u>	<u>Quantity</u>	<u>Fee</u>	<u>Total</u>
1) Permanent Structure Addition/Alteration - each filing	_____	\$250.00	_____
2) New Permanent Structure or SFH - each filing	<u>1</u>	\$500.00	\$500.00
3) Perm. St. or SFH - each sq. ft. of disturbance in Resource Area	<u>1,398 s.f.</u>	\$0.50	\$699.00
4) Subdivision Roads and Utilities only - each filing	_____	\$1,500.00	_____
5) Subdivision - each linear foot of road sideline in Resource Area	_____	\$3.00	_____
6) Multiple Family or Condominium Structure - each filing	_____	\$1,500.00	_____
7) Multi Fam/Condo - each unit all or part of which is within Resource Area	_____	\$500.00	_____
8) Commercial/Industrial Projects - each filing	_____	\$1,500.00	_____
9) Commercial/Ind. - each sq. ft. of disturbance in Resource Area	_____	\$0.25	_____
10) Test pits, test wells, subsurface borings, and/or other pre-development work	_____	\$100.00	_____
11) Other	_____	\$100.00	_____

Other:

12) ANRAD - each filing	_____	\$250.00	_____
13) ANRAD - per linear foot of delineation	_____	\$0.25	_____
14) Request for Determination of Applicability	_____	\$100.00	_____
15) Extension Permit	_____	\$100.00	_____
16) Amended Order of Conditions	_____	\$100.00	_____
17) Application for Partial Certificate of Compliance	_____	\$0.00	_____
18) Application for Certificate of Compliance	_____	\$0.00	_____
19) Other Miscellaneous ConsCom Documents	_____	\$100.00	_____

20) Total* **\$1,199.00**
(Not to exceed \$7, 500.00)

* Additional consultation fees may be necessary for projects when a more extensive Wetland Habitat Study is needed or if the work proposed will require a higher degree of monitoring.

Abutters List / Affidavit / Abutter Notification



TOWN OF BOXBOROUGH
Assessors
29 Middle Road
Boxborough, Massachusetts 01719
978-264-1721 • FAX 978-264-3127
assessor@boxborough-ma.gov

REQUESTER ☒
OFFICE ☐
TOWN BOARD ☐

REQUEST FOR ABUTTERS

DATE OF REQUEST:

11/14/24

DATE LIST NEEDED:

11/25/24

PROPERTY

LOCATION:

70 SUMMER ROAD

MAP

15

LOT

84

BLOCK

PROPERTY

OWNER:

ROBERT DOUGHTY

REASON FOR LIST

- ☒ CONSERVATION COMMISSION
☐ ZONING BOARD OF APPEALS
☐ PLANNING BOARD
☐ PRELIMINARY PLAN
☐ SITE PLAN
☐ DEFINITIVE PLAN
☐ SPECIAL PERMIT
☐ BOARD OF SELECTMEN
☐ OTHER

RECEIVED

NOV 14 2024

Assessors
Boxborough, MA

RADIUS OF 300 FEET WILL BE USED FOR ALL ABUTTERS' LIST REQUEST

REQUESTER INFORMATION

NAME

PAUL KIRCHNER

ADDRESS

1000 MAIN ST

ACTON, MA 01720

PHONE

978-263-8585 x 216

EMAIL

PFEK@STAMSKIANDMCNARY.COM

OFFICE USE ONLY

DATE LIST PREPARED:

11/14/2024

FEE CHARGED:

\$ 24

DATE PAID:

11/18/2024

AMOUNT PAID

\$ 23,013

☒

CHECK

\$ 24

☐

CASH

FEE SCHEDULE:

\$1.00 PER NAME IF THE LIST IS FOR CONSERVATION COMMISSION, \$2.00 PER NAME OTHERWISE
\$10.00 MINIMUM
\$30.00 MAXIMUM

LIST IS VALID FOR SIX (6) MONTHS. TOWN ASSESSOR IS ALLOWED TEN (10) BUSINESS DAYS FROM DATE OF REQUEST TO PROVIDE CERTIFIED LIST OF ABUTTERS.



Boxborough, MA

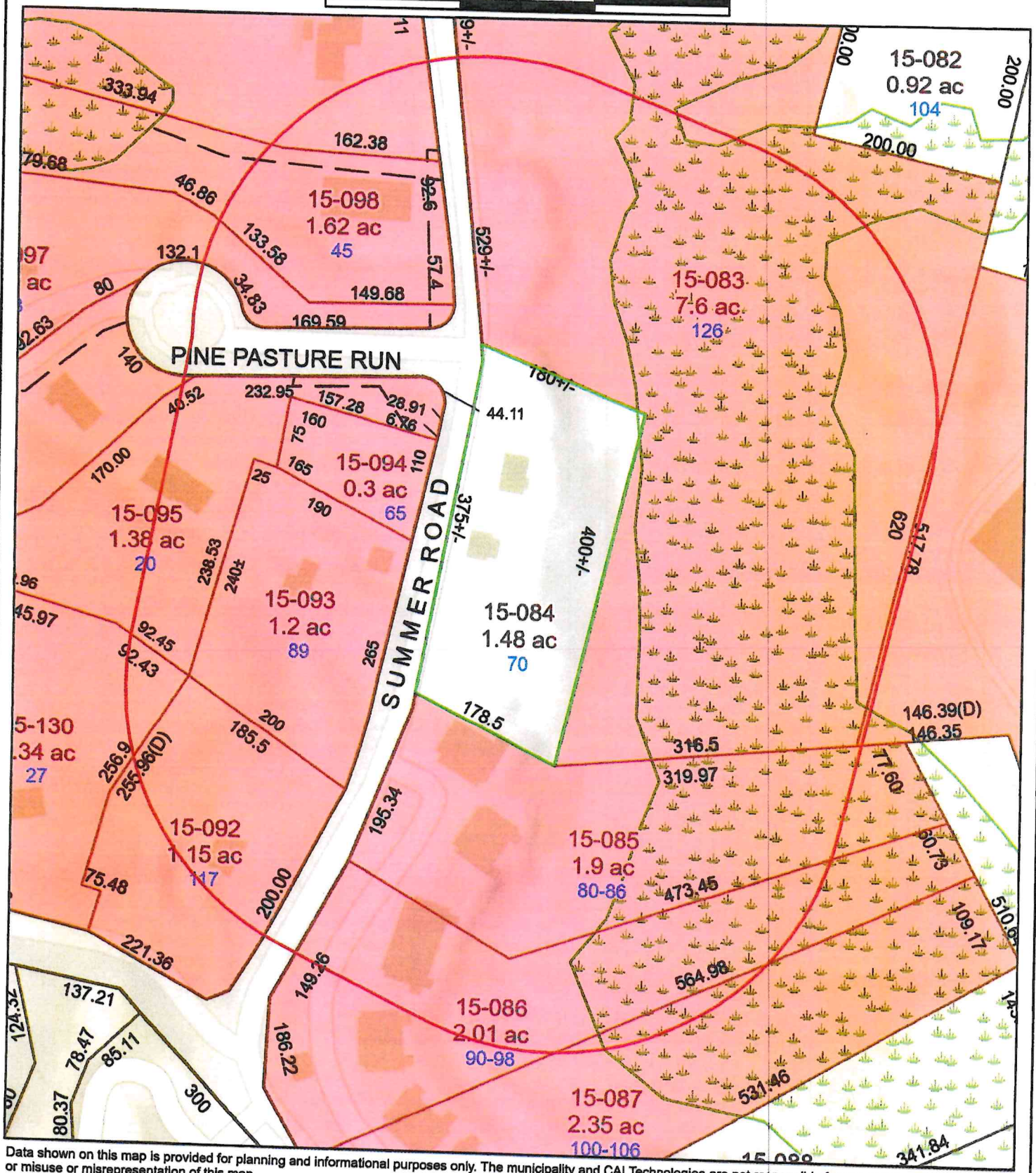
1 inch = 139 Feet



www.cai-tech.com

November 14, 2024

0 139 278 417



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.



300 feet Abutters List Report

Boxborough, MA
November 14, 2024

Subject Property:

Parcel Number: 15-084-000
CAMA Number: 15-084-000
Property Address: 70 SUMMER ROAD

Mailing Address: DOUGHTY ROBERT S, TRUSTEE
DOUGHTY GERTRUDE ANN, TRUSTEE
70 SUMMER ROAD
BOXBOROUGH, MA 01719

Abutters:

Parcel Number: 15-079-000
CAMA Number: 15-079-000
Property Address: 34 MASSACHUSETTS AVENUE

Mailing Address: OLYMPUS REALTY INC
PO BOX 645
ACTON, MA 01720

Parcel Number: 15-083-000
CAMA Number: 15-083-000
Property Address: 126 MASSACHUSETTS AVENUE

Mailing Address: VORCE RAYMOND M., JR C/O
RAYMOND VORCE III
PO BOX 854
NEW CASTLE, NH 03854

Parcel Number: 15-086-000
CAMA Number: 15-085-000
Property Address: SUMMER ROAD

Mailing Address: SUMMERFIELD COMMUNITY CORP
126 SUMMER ROAD
BOXBOROUGH, MA 01719

Parcel Number: 15-086-000
CAMA Number: 15-085-101
Property Address: 80 SUMMER ROAD

Mailing Address: SILVA ELEANOR
80 SUMMER ROAD
BOXBOROUGH, MA 01719

Parcel Number: 15-085-000
CAMA Number: 15-085-102
Property Address: 82 SUMMER ROAD

Mailing Address: NIELSEN OLE C NIELSEN CONNIE L
82 SUMMER ROAD
BOXBOROUGH, MA 01719

Parcel Number: 15-085-000
CAMA Number: 15-085-203
Property Address: 84 SUMMER ROAD

Mailing Address: DWYER WAYNE M. TTE DWYER-SHALE
FAMILY REVOCABLE TRUST
84 SUMMER ROAD UNIT 84
BOXBOROUGH, MA 01719

Parcel Number: 15-085-000
CAMA Number: 15-085-204
Property Address: 86 SUMMER ROAD

Mailing Address: BIEHL HENRIETTA M, TRUSTEE
HENRIETTA M BIEHL TRUST
86 SUMMER ROAD
BOXBOROUGH, MA 01719

Parcel Number: 15-085-000
CAMA Number: 15-086-306
Property Address: 92 SUMMER ROAD

Mailing Address: MACLEOD SHIRLEY A
92 SUMMER ROAD
BOXBOROUGH, MA 01719

Parcel Number: 15-086-000
CAMA Number: 15-086-307
Property Address: 94 SUMMER ROAD

Mailing Address: ANSALDI APRIL J.
94 SUMMER ROAD
BOXBOROUGH, MA 01719

Parcel Number: 15-086-000
CAMA Number: 15-086-408
Property Address: 96 SUMMER ROAD

Mailing Address: JEAN DURBANO FAMILY TRUST
DURBANO TODD S. TRUSTEE
96 SUMMER ROAD
BOXBOROUGH, MA 01719



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11/14/2024

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Page 1 of 3



300 feet Abutters List Report

Boxborough, MA
November 14, 2024

Parcel Number: 15-098-000
CAMA Number: 15-098-000
Property Address: 45 SUMMER ROAD

Mailing Address: ERICKSON DAVID C. ERICKSON JANICE
M.
2 MOHAWK DRIVE
ACTON, MA 01720

Parcel Number: 15-099-000
CAMA Number: 15-099-000
Property Address: 23-25 SUMMER ROAD

Mailing Address: SONNER KENNETH / KAREN SONNER
JOHN
23 SUMMER ROAD
BOXBOROUGH, MA 01719

Parcel Number: 15-130-000
CAMA Number: 15-130-000
Property Address: 27 PINE HILL ROAD

Mailing Address: PAVLOV ALEXEY PAVLOVA
ALEXANDRA
27 PINE HILL ROAD
BOXBOROUGH, MA 01719

THIS IS A CERTIFIED ABUTTERS LIST FROM THE
TOWN OF BOXBOROUGH. WE CERTIFY THAT ALL
THE NAMES AND ADDRESSES OF ALL
PROPERTY OWNERS ARE ACCURATE TO
THE BEST OF OUR KNOWLEDGE.

 11/14/2024
Office of the Board of Assessors Date



CAI Technologies

www.cai-tech.com

11/14/2024

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Page 3 of 3

ANSALDI APRIL J.
94 SUMMER ROAD
BOXBOROUGH, MA 01719

MACLEOD SHIRLEY A
92 SUMMER ROAD
BOXBOROUGH, MA 01719

VORCE RAYMOND M., JR
C/O RAYMOND VORCE III
PO BOX 854
NEW CASTLE, NH 03854

ASHOK ABHIMANYU
RAO SPURTHI
32 PINE PASTURE RUN
BOXBOROUGH, MA 01719

NIELSEN OLE C
NIELSEN CONNIE L
82 SUMMER ROAD
BOXBOROUGH, MA 01719

WELCH GAIL L.
WELCH MURRAY M., IV
33 PINE PASTURE RUN
BOXBOROUGH, MA 01719

BIEHL HENRIETTA M, TRUSTE
HENRIETTA M BIEHL TRUST
86 SUMMER ROAD
BOXBOROUGH, MA 01719

OLIVER DONALD S.
104 SUMMER ROAD
BOXBOROUGH, MA 01719

WU LINGHUA
XU GUANLUN
117 SUMMER ROAD
BOXBOROUGH, MA 01719

DWYER WAYNE M. TTE
DWYER-SHALE FAMILY REVOC
84 SUMMER ROAD
UNIT 84
BOXBOROUGH, MA 01719

OLYMPUS REALTY INC
PO BOX 645
ACTON, MA 01720

ZHANG EDDIE
98 SUMMER ROAD
BOXBOROUGH, MA 01719

ERICKSON DAVID C.
ERICKSON JANICE M.
2 MOHAWK DRIVE
ACTON, MA 01720

PAVLOV ALEXEY
PAVLOVA ALEXANDRA
27 PINE HILL ROAD
BOXBOROUGH, MA 01719

FROMER DOLORES E.
106 SUMMER ROAD
BOXBOROUGH, MA 01719

RAKAUSKAS PETER F
RAKAUSKAS LAURA L
89 SUMMER ROAD
BOXBOROUGH, MA 01719

HEALY THERESA
102 SUMMER ROAD
Boxborough, MA 01719

SEIZ APRIL
112 SUMMER ROAD
BOXBOROUGH, MA 01719

HOLT LISA M.
HOLT TIMOTHY D.
20 PINE PASTURE RUN
BOXBOROUGH, MA 01719

SILVA ELEANOR
80 SUMMER ROAD
BOXBOROUGH, MA 01719

JEAN DURBANO FAMILY TRUST
DURBANO TODD S. TRUSTEE
96 SUMMER ROAD
BOXBOROUGH, MA 01719

SONNER KENNETH / KAREN
SONNER JOHN
23 SUMMER ROAD
BOXBOROUGH, MA 01719

LARSON LINDA M.
100 SUMMER ROAD
BOXBOROUGH, MA 01719

SUMMERFIELD COMMUNITY COR
126 SUMMER ROAD
BOXBOROUGH, MA 01719

**Notification to Abutters Under the
Massachusetts Wetlands Protection Act
and
The Boxborough Wetlands By-Law**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the Boxborough Wetlands By-Law you are hereby notified of the following:

- A. The name of the applicant is Robert Doughty
- B. The applicant has filed a Notice or Request with the Boxborough Conservation Commission seeking permission to remove, fill, dredge, alter, or delineate an area subject to protection under the Wetlands Protection Act (General Laws, Chapter 131, section 40) and the Boxborough Wetlands By-Law.
- C. The address of the lot where the activity is proposed is 70 Summer Road, Boxborough MA, 01791

Description of Project The project is for teardown of the existing single-family dwelling and construction of a single family dwelling. Siltation controls are provided to prevent indirect alteration of the wetlands.

- D. Copies of the Notice or Request may be examined at the Boxborough Town Hall, 29 Middle Rd., Boxborough, MA 01719 between the hours of 9:00 a.m. and 4:00 p.m. Monday, Tuesday, and Wednesday (excluding holidays). For more information call 978.264.1722.
- E. Copies of the Notice or Request may be obtained from either (circle one) the applicant or the applicant's representative, by calling this telephone number (978) 263 8585X207 between the hours of 7:30 AM and 4:00 PM on the following days of the week: Monday - Friday.
- F. Information regarding the date, time, and place of the public hearing may be obtained from the Boxborough Conservation Commission by calling this number 978.264.1722 between the hours of 9:00 a.m. and 4:00 p.m. Monday, Tuesday, and Wednesday.

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

Note: Notice of the public hearing, including its date, time, and place, will be posted in the Town Hall and on the Town web site <https://www.boxborough-ma.gov> not less than forty-eight (48) hours in advance.

Note: You also may contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call: Central Regional Office at 508-792-7650

AFFIDAVIT OF SERVICES

Under the Massachusetts Wetlands Protection Act
(to be submitted to the Massachusetts Department of
Environmental Protection and the Conservation Commission
when filing a Notice of Intent)

I, Debbi-Ann Sebastian, hereby certify under the pains and penalties of perjury that on ____ / ____ / ____ I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

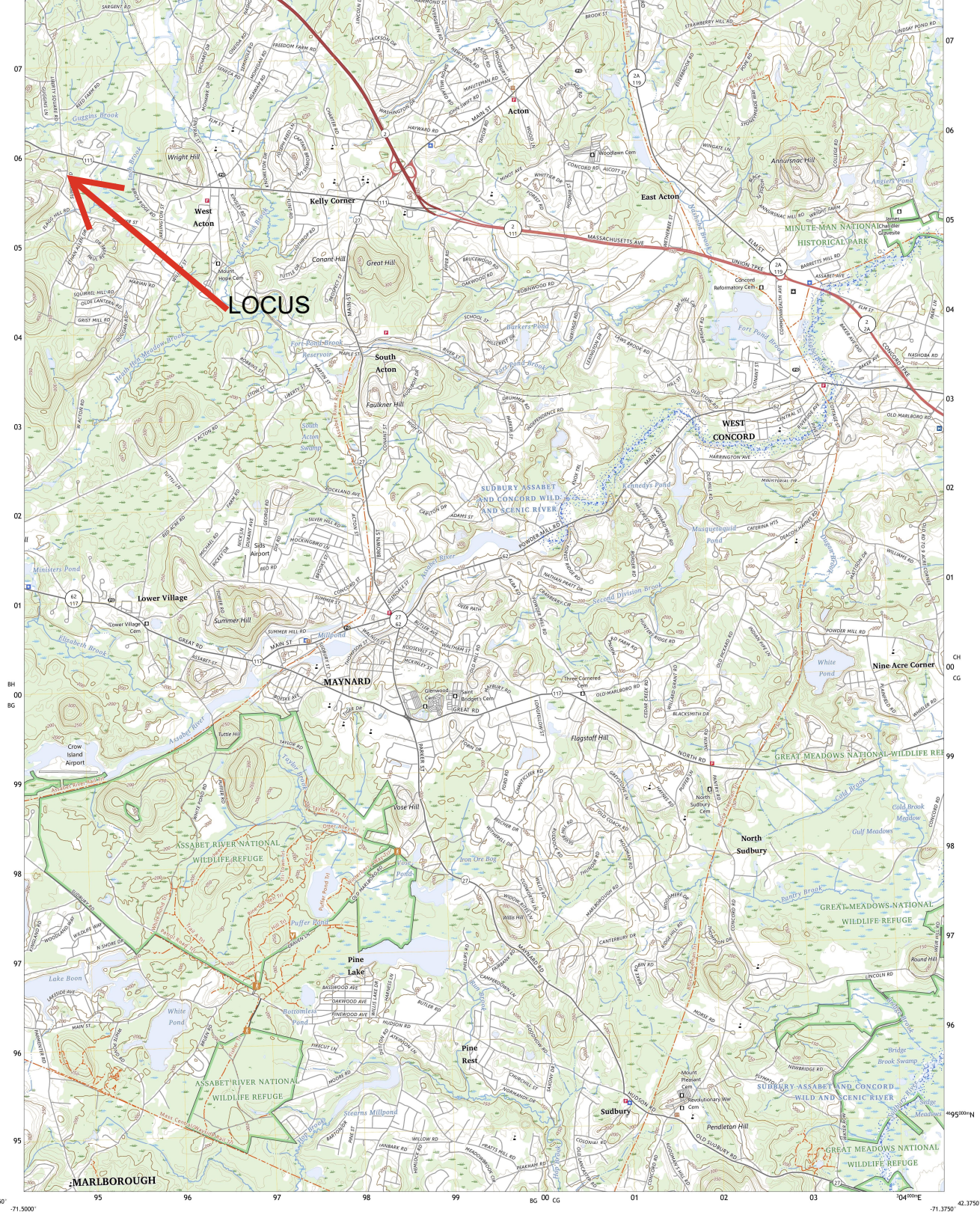
A Notice of Intent filed under the Massachusetts Wetlands Protection Act by Robert Doughty with the Boxborough Conservation Commission for property located at 70 Summer Road, Map 15, parcel 84.

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

Name: _____

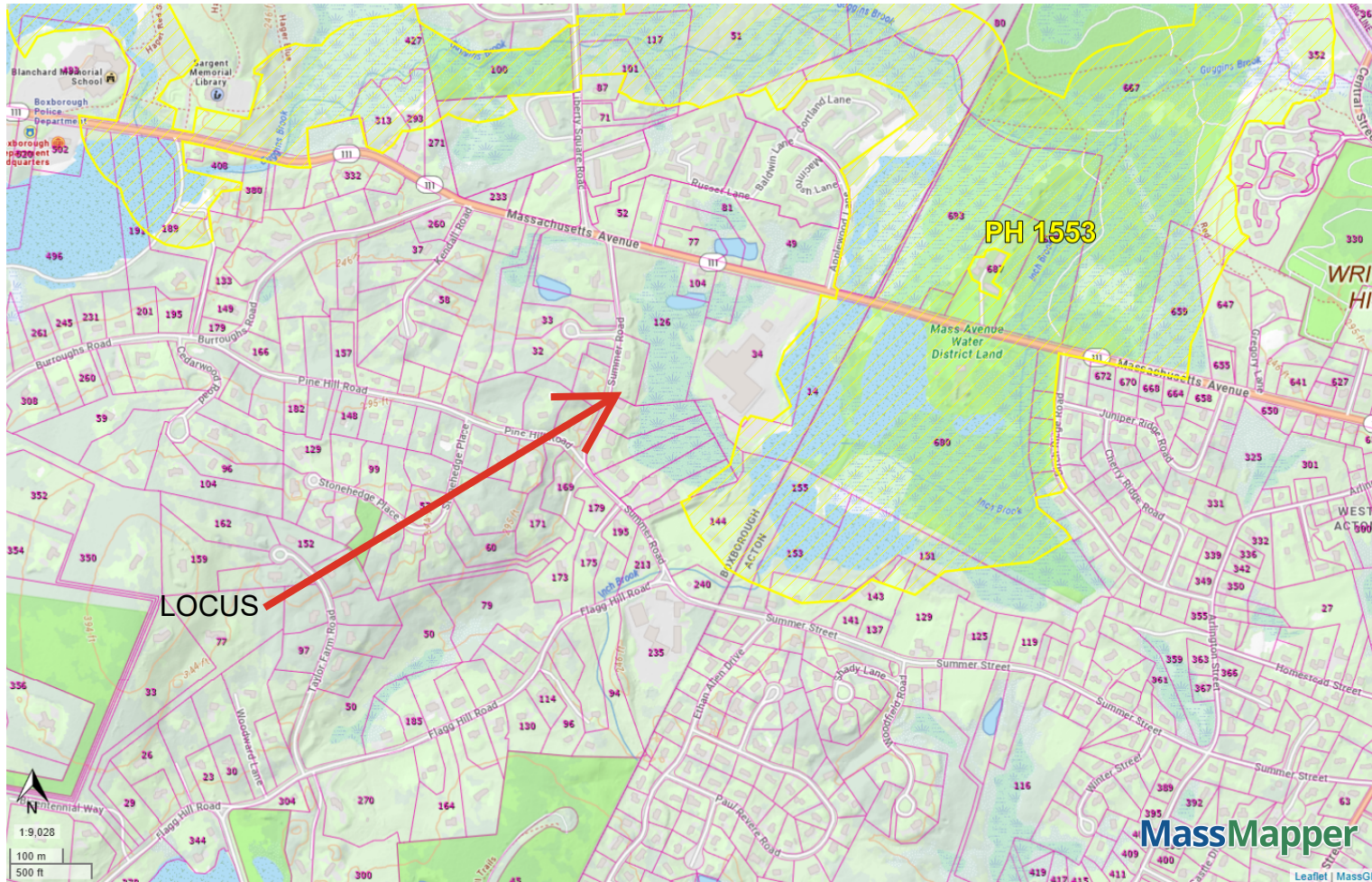
Date: _____

Attachment A
U.S.G.S. Map



Attachment B
Massachusetts Natural Heritage Atlas 13th Edition

70 Summer Road



NHESP Priority Habitats of Rare Species



NHESP Certified Vernal Pools



NHESP Natural Communities



NHESP Estimated Habitats of Rare Wildlife



Property Tax Parcels

Attachment C
FEMA Flood Insurance Rate Map

National Flood Hazard Layer FIRMMette



71°29'57"W 42°28'52"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap Imagery Source: USGS National Map 2023

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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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 **12/13/2024 at 2:56 PM** 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.

Attachment D
Delineation Field Data Form

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 70 Summer Road City/Town: Boxborough Sampling Date: 8/02/2024
 Applicant/Owner: _____ Sampling Point or Zone: A1
 Investigator(s): David Crossman - B & C Associates Inc. Latitude / Longitude: 42° 28' 38.172" N 71° 29' 38.652" W
 Soil Map Unit Name: Hinckley loamy sand NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? (If yes, explain in Remarks)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils criterion met?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:		

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
<input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u> Plot size <u>30 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Norway Maple	Acer platanoides	UPL	58.0	Yes	No
2. Red Maple	Acer rubrum	FAC	42.0	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
<u>100.0</u> = Total Cover					
<u>Shrub/Sapling Stratum</u> Plot size <u>15 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Norway Maple	Acer platanoides	UPL	46.0	No	No
2. Mapleleaf Viburnum	Viburnum acerifolium	UPL	24.0	Yes	No
3. European Buckthorn	Rhamnus frangula	FAC	24.0	Yes	Yes
4. Black Cherry	Prunus serotina	FACU	4.0	No	No
5.					
6.					
7.					
8.					
9.					
<u>98.0</u> = Total Cover					
<u>Herb Stratum</u> Plot size <u>6 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Swamp Dewberry	Rubus hispidus	FACW	50.0	No	Yes
2. Spinulose Woodfern	Dryopteris spinulosa	FACW	50.0	No	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
<u>100.0</u> = Total Cover					

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30 feet</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name			
1. Oriental Bittersweet	Celastrus orbiculatus	UPL	100.0	Yes	No
2.					
3.					
4.					
			<u>100.0</u>	= Total Cover	

<u>Rapid Test:</u> Do all dominant species have an indicator status of OBL or FACW? Yes <input type="checkbox"/> No <input type="checkbox"/>				
<u>Dominance Test:</u>	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	6	2		
<u>Prevalence Index:</u>		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	= 0.00
	FACW species		X 2	= 0.00
	FAC species		X 3	= 0.00
	FACU species		X 4	= 0.00
	UPL species		X 5	= 0.00
	Column Totals	(A) 0		(B) 0
Prevalence Index		B/A = 0.00		Is the Prevalence Index ≤ 3.0? Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Wetland vegetation criterion met?</u> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				

Definitions of Vegetation Strata

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ²Location: PL=Pore Lining, M=Matrix

Restrictive Layer (if observed)	Type:	Depth (inches):
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Remarks: Soil sample located 10' 5" from wetland flag #3 and 9' 6" from wetland flag #12

Hydric Soils criterion met? Yes ☐ No ☒

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 70 Summer Road City/Town: Boxborough Sampling Date: 8/02/2024
 Applicant/Owner: _____ Sampling Point or Zone: A2
 Investigator(s): David Crossman - B & C Associates Inc. Latitude / Longitude: 42° 28' 38.172" N 71° 29' 38.652" W
 Soil Map Unit Name: Freetown muck NWI or DEP Classification: Freshwater Forested/Shrub Wetland
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks)
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? (If yes, explain in Remarks)
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soils criterion met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetlands hydrology present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:		

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches) <u>20.00</u>
Saturation Present (including capillary fringe)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches) <u>0.00</u>
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
<input checked="" type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input checked="" type="checkbox"/> Free water in a soil test hole <input checked="" type="checkbox"/> Saturated soil <input checked="" type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input checked="" type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u> Plot size <u>30 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Norway Maple	Acer platanoides	UPL	55.0	Yes	No
2. Red Maple	Acer rubrum	FAC	45.0	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
<u>100.0</u> = Total Cover					
<u>Shrub/Sapling Stratum</u> Plot size <u>15 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Norway Maple	Acer platanoides	UPL	16.0	No	No
2. Mapleleaf Viburnum	Viburnum acerifolium	UPL	5.0	No	No
3. European Buckthorn	Rhamnus frangula	FAC	32.0	Yes	Yes
4. American Elm	Ulmus americana	FACW	32.0	Yes	Yes
5. Red Maple	Acer rubrum	FAC	16.0	No	Yes
6.					
7.					
8.					
9.					
<u>101.0</u> = Total Cover					
<u>Herb Stratum</u> Plot size <u>6 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Skunk Cabbage	Symplocarpus foetidus	OBL	43.0	Yes	Yes
2. Spinulose Woodfern	Dryopteris spinulosa	FACW	6.0	No	Yes
3. Cinnamon Fern	Osmunda cinnamomea	FACW	22.0	Yes	Yes
4. Marsh Fern	Thelypteris palustris	FACW	22.0	Yes	Yes
5. Sensitive Fern	Onoclea sensibilis	FACW	6.0	No	Yes
6.					
7.					
8.					
9.					
10.					
11.					
12.					
<u>99.0</u> = Total Cover					

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30 feet</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name			
1.	Oriental Bittersweet	Celastrus orbiculatus	UPL	100.0	Yes
2.					
3.					
4.					
			100.0 = Total Cover		

<u>Rapid Test:</u> Do all dominant species have an indicator status of OBL or FACW? Yes <input type="checkbox"/> No <input type="checkbox"/>				
<u>Dominance Test:</u>	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up $\geq 50\%$ of dominant plant species? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	8	6		
<u>Prevalence Index:</u>		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	= 0.00
	FACW species		X 2	= 0.00
	FAC species		X 3	= 0.00
	FACU species		X 4	= 0.00
	UPL species		X 5	= 0.00
	Column Totals	(A) 0		(B) 0
Prevalence Index		B/A = 0.00		Is the Prevalence Index ≤ 3.0 ? Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Wetland vegetation criterion met?</u> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

Definitions of Vegetation Strata

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¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ²Location: PL=Pore Lining, M=Matrix

Restrictive Layer (if observed) Type: _____ Depth (inches): _____

Remarks: Soil sample located 11' 7" from wetland flag #3, 15' 9" from wetland flag #12 and 14' 6" downgradient from Sample Point A1.

Hydric Soils criterion met? Yes ☒ No ☐

Attachment E
Wetland Permitting Plan
By
Stamski and McNary, Inc.