



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
Boxford
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):

<u>3 Rock Brook Way</u>	<u>Boxford</u>	<u>01929</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>10-2</u>	<u>42 42' 41.292"N</u>	<u>71 02' 34.512"W</u>
f. Assessors Map/Plat Number	d. Latitude	e. Longitude
	<u>21-1</u>	
	g. Parcel /Lot Number	

2. Applicant:

<u>Joseph</u>	<u>Alberta</u>	
a. First Name	b. Last Name	
c. Organization		
<u>3 Rock Brook Way</u>		
d. Street Address		
<u>Boxford</u>	<u>MA</u>	<u>01921</u>
e. City/Town	f. State	g. Zip Code
	<u>joseph_alberta@yahoo.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

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

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

4. Representative (if any):

<u>Mary</u>	<u>Rimmer</u>	
a. First Name	b. Last Name	
<u>Rimmer Environmental Consulting, LLC</u>		
c. Company		
<u>57 Boston Road</u>		
d. Street Address		
<u>Newbury</u>	<u>MA</u>	<u>01951</u>
e. City/Town	f. State	g. Zip Code
<u>978-463-9226</u>	<u>978-463-8716</u>	<u>mrimmer@rimmerenv.com</u>
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$110</u>	<u>\$42.50</u>	<u>\$67.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

Construction of garage, driveway extension, walkway, patio, plantings, retaining wall and site grading.

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:

<u>Essex</u>	_____
a. County	b. Certificate # (if registered land)
<u>27765</u>	<u>507</u>
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.



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

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - 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.
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5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

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

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

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



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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4. 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 Notice of Intent – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

- a. Yes No

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

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

MassGIS _____

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 0
percentage/acreage

(b) outside Resource Area 10%/0.29acres
percentage/acreage

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

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

- (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
- (b) Photographs representative of the site

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

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



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

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

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

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/mesa/mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only b. Yes No

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

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

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

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

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



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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.



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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.

Proposed Plan 3 Rock Brook Way - Boxford MA

a. Plan Title

Donohoe Survey

Adam Donohoe

b. Prepared By

c. Signed and Stamped by

Aug 22, 2017

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:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



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F. Signatures and Submittal Requirements

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

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

_____ 1. Signature of Applicant	_____ 2. Date
_____ 3. Signature of Property Owner (if different)	_____ 4. Date
_____ 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:

3 Rock Brook Way Boxford
 a. Street Address b. City/Town
\$110
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Joseph Alberta
 a. First Name b. Last Name
 c. Organization
3 Rock Brook Way
 d. Mailing Address
Boxford MA 01921
 e. City/Town f. State g. Zip Code
_____ _____ _____
 h. Phone Number i. Fax Number joseph_alberta@yahoo.com

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
2a addition to single family home	1	110	110
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			110.
Step 6/Fee Payments:			
Total Project Fee:			110.
State share of filing Fee:			\$42.50
City/Town share of filing Fee:			\$67.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee less \$12.50
			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.)

TOWN OF BOXFORD
 ABUTTER LIST
 PARCEL # 10-02-17.1 ~ 3 ROCK BROOK WAY ~ CONSERVATION COMMISSION

Map/Lot	Location	Owner	Owner 2	Owner Address	Owner City/Town	Owner State	Zip Code
(10-02-27-1)	3 ROCK BROOK WAY	ALBERTA JOSEPH	ALBERTA KIMBERLY JACKSON	3 ROCK BROOK WAY	BOXFORD	MA	01921
(10-02-27)	WILLOW RD	BUSBY SR PHILIP A	MARIE W BUSBY	9 POND LANE	ATKINSON	NH	03811
(10-02-36)	60 WILLOW RD	CORDEIRO EDWARD	CORDEIRO KIM A	60 WILLOW RD	BOXFORD	MA	01921
(10-02-35)	56 WILLOW RD	D'AVOLIO CHARLES A	D'AVOLIO FLORENCE P	56 WILLOW RD	W BOXFORD	MA	01885
(10-02)	WILLOW RD	ESSEX COUNTY GREENBELT ASSOC		82 EASTERN AVE	ESSEX	MA	01929
(10-02-31)	57 WILLOW RD	GATEWOOD MICHAEL		57 WILLOW RD	BOXFORD	MA	01921
(10-02-30)	10 ROCK BROOK WAY	KACANDES CHRISTOPHER H		10 ROCK BROOK WAY	BOXFORD	MA	01921
(10-02-27-2)	9A ROCK BROOK WAY	KONTOS KEVIN E		9A ROCK BROOK WAY	BOXFORD	MA	01921
(10-02-27-3)	9B ROCK BROOK WAY	KONTOS KEVIN E		9A ROCK BROOK WAY	BOXFORD	MA	01921
(10-02-32)	3 WHITTIER TER	REED EDWARD SCOTT	REED KATHERINE R	3 WHITTIER TER	BOXFORD	MA	01921
(10-02-34)	2 WHITTIER TER	WORTH CLAUDIA J	WORTH PAUL E	2 WHITTIER TER	BOXFORD	MA	01921

CERTIFIED COPY

Jan Silva

August 10, 2017

NOTICE OF INTENT
Proposed Garage and Landscape Improvements
3 Rock Brook Way
Boxford, MA

Project Location

The project site is an approximately 2.9 acre residential parcel located at the intersection of Rock Brook Way and Willow Road as indicated in Figure 1 below. The site contains an existing single family home constructed in 2008 under an Order of Conditions issued in 2007 (DEP 114-1038) and issued a Certificate of Compliance on September 8, 2009.

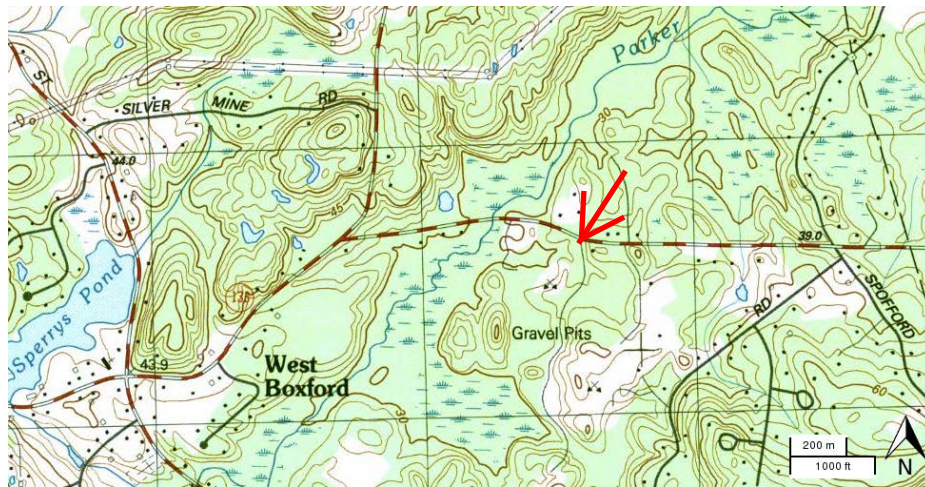


Fig. 1: USGS Topographic Quadrangle Site Locus

Project Description

The applicant proposes to extend the existing paved driveway and construct a 1-bay garage. Additional plan elements include a walkway to a patio at the rear of the dwelling. The patio will contain a firepit, small water feature (waterfall) and may include a small pool or hot tub. The patio is proposed to be surrounded by a planting area. To the west of the planting area, a boulder retaining wall ranging from 1-5 feet in height is proposed. This retaining wall will replace portions of an existing retaining wall higher on the slope in the rear yard area which will create a larger usable yard area. The area below the new retaining wall is proposed to be cleared and re-graded to a 3:1 slope. The extent of clearing is outside of the 25-foot No Disturb Zone from the wetland boundary. The new slope is proposed to be seeded with grass.

Wetland Resources

Wetland resources were delineated by Rimmer Environmental Consulting (REC) on June 17, 2017 in accordance with the procedures established in the Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00) and the Town of Boxford Wetlands Bylaw Regulations. Numbered sequences of flags were placed in the field to delineate the boundary between upland and wetland resources, based upon

the presence of 50% or more wetland plant species and other hydrological indicators, including presence of hydric soils. Mass. DEP Bordering Vegetated Wetland Delineation Field Data Forms are included as an attachment and provide additional documentation of the wetland boundary.

The site contains a forested swamp adjacent to an intermittent stream. This swamp qualifies as Bordering Vegetated Wetland (BVW) under both state and local wetland regulations and was delineated by flags A1-A30 as shown on the attached site plan. The wetland typically contains an overstory of red maple (*Acer rubrum*) and black birch (*Betula lenta*), with a moderate understory of highbush blueberry (*Vaccinium corymbosum*), winterberry (*Ilex verticillata*) and glossy buckthorn (*Frangula alnus*). Soils consist of organic muck to depths of 16-18 inches. The adjacent upland contains primarily white pine (*Pinus strobus*) and red oak (*Quercus rubra*), with occasional sapling hophornbeam (*Ostrya virginiana*).

Portions of the project site are also located within Estimated Habitat of Rare Wetlands Wildlife and Priority Habitat, as determined by reference to the Division of Fish and Wildlife, Natural Heritage and Endangered Species Program (NHESP) mapping available on MassGIS and as indicated in Figure 2 below. A copy of this NOI is being provided to NHESP for its review under the Mass. Wetlands Protection Act and the Mass. Endangered Species Act.

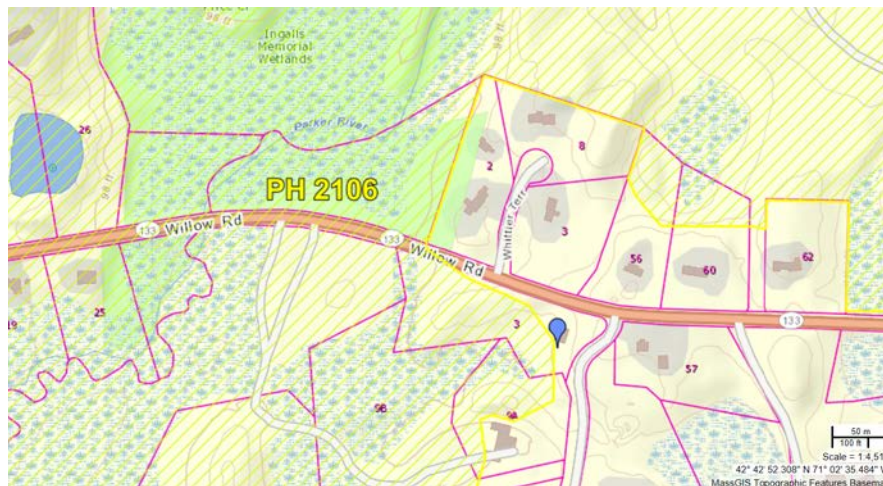


Fig. 2: Estimated and Priority Habitat Mapping - MassGIS

Performance Standards and Mitigation Measures

The proposed project will not result in any direct impact to wetland resources. It is located in part within the 100-foot Buffer Zone to Bordering Vegetated Wetlands. No portion of the proposed work is located closer than 25 feet from the existing wetland boundary. It is estimated that the project will result in loss of 16.7% of total overstory trees on the nearly 3-acre parcel.

An erosion control barrier consisting of staked and entrenched siltation fencing is proposed along the limit of work to minimize the potential migration of sediment toward the wetland during construction. Upon completion of work, all exposed soil areas will be stabilized with a durable vegetative cover. Jute netting is proposed to be installed on the slope in areas needed to provide additional stabilization during the revegetation process.

The proposed project complies with the performance standards for construction within the 100-foot Buffer Zone under both the state and local wetland protection regulations.

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

Applicant: Alberta, J Prepared by: REC Project location: 3 Rock Brook Way, Boxford DEP File #: _____

Check all that apply:

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

Section I. Vegetation: Observation plot Number: A9 Transect number: wet Date of delineation: 6/17/17

A. Sample layer and plant species (by common name/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	20.5	50	Y	FAC*
black birch/Betula lenta	20.5	50	Y	FACU
Sapling				
white pine/Pinus strobus	10.5	100	Y	FACU
Shrub				
highbush blueberry/Vaccinium corymbosum	20.5	100	Y	FACW*
Herb				
cinnamon fern/Osmunda cinnamomea	20.5	50	Y	FACW*
canada mayflower/Maianthemum canadense	20.5	50	Y	FACU

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

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

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site?

Title/date:

Map number:

Soil type mapped:

Hydric soil inclusions:

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil description

Horizon	Depth	Matrix Color	Mottles Color
A	0-17	10YR 2/1	
B	17-20	1YR 4/2	

Remarks

3. Other Mucky A to Organic

Conclusion: Is soil hydric? yes no

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

- Site inundated: _____
- Depth to free water in observation hole: _18"_____
- 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:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present: Hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other indicators of hydrology present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Applicant: Alberta, J Prepared by: REC Project location: 3 Rock Brook Way, Boxford DEP File #: _____

Check all that apply:

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

Section I. Vegetation: Observation plot Number: A9 Transect number: up Date of delineation: 6/17/17

A. Sample layer and plant species (by common name/scientific name)	B. Percent cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree				
white pine/ <i>Pinus strobus</i>	38	50	Y	FACU
red oak/ <i>Quercus rubra</i>	38	50	Y	FACU
Sapling				
hop hornbeam/ <i>Ostrya virginiana</i>	10.5	100	Y	FACU
Shrub				
highbush blueberry/ <i>Vaccinium corymbosum</i>	10.5	100	Y	FACW*
Herb				
cinnamon fern/ <i>Osmunda cinnamomea</i>	20.5	26	Y	FACW*
canada mayflower/ <i>Maianthemum canadense</i>	38	48	Y	FACU
partridgeberry/ <i>Mitchella repens</i>	20.5	26	Y	FACU

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

Vegetation conclusion:
Number of dominant wetland indicator plants: 2 **Number of dominant non-wetland plants: 5**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site?

Title/date:

Map number:

Soil type mapped:

Hydric soil inclusions:

Are field observations consistent with soil survey? yes no

Remarks:

2. Soil description

Horizon	Depth	Matrix Color	Mottles Color
A	0-10	10YR 2/1	
B	10-18	7.5YR 3/4	
B2	18-20+	7.5YR 4/4	

Remarks

3. Other

Conclusion: Is soil hydric? yes no

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

- Site inundated: _____
- Depth to free water 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:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wetland hydrology present: Hydric soil present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other indicators of hydrology present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample location is in a BVW	<input type="checkbox"/>	<input checked="" type="checkbox"/>