



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

Sturbridge

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):

38-40 Wallace Road

a. Street Address

Sturbridge

b. City/Town

01566

c. Zip Code

Latitude and Longitude:

665-3932 and 665-03931

f. Assessors Map/Plat Number

42 04'58"N

d. Latitude

72 03'46"W

e. Longitude

38 and 40

g. Parcel /Lot Number

2. Applicant:

Edward

a. First Name

Cloutier

b. Last Name

c. Organization

38 Wallace Road

d. Street Address

Sturbridge

e. City/Town

MA

f. State

01566

g. Zip Code

h. Phone Number

i. Fax Number

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):

Scott

a. First Name

Jordan

b. Last Name

EcoTec, Inc.

c. Company

102 Grove Street

d. Street Address

Worcester

e. City/Town

MA

f. State

01605

g. Zip Code

508-752-9666 x226

h. Phone Number

i. Fax Number

sjordan@ecotecinc.com

j. Email address

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

\$165

a. Total Fee Paid

\$70

b. State Fee Paid

\$95

c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

The applicant proposes to repair a failing septic system within the Riverfront Area and Buffer Zone. The project has been located as far from the resource area as possible while maintaining the required offsets to surrounding drinking water wells. The project shall be contained with a sediment barrier and the sideslopes immediately stabilized with 3"-5" rip rap armoring.

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:

Worcester

a. County

07548 and 07616

c. Book

b. Certificate # (if registered land)

0257 and 0306

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. ☒ 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: 33,656
square feet

4. Proposed alteration of the Riverfront Area:

<u>4,569</u>	<u>3,994</u>	<u>575</u>
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☒ Yes ☐ No

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

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

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



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

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

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

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



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

- 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

2017

b. Date of map _____

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

- c. Submit Supplemental Information for Endangered Species Review*

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

(a) within wetland Resource Area

percentage/acreage _____

(b) outside Resource Area

percentage/acreage _____

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

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

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

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

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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



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

- (c) ☐ MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

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

- (d) ☐ Vegetation cover type map of site
- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

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

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

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

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

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

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

North Shore - Hull 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).



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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.

Septic System Plan Repair - 38 Wallace Road, Sturbridge, MA 01566

a. Plan Title

DC Engineering and Survey

Jason Dubois, PE

b. Prepared By

c. Signed and Stamped by

9/23/20

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:

20544

2. Municipal Check Number

10/20/20

3. Check date

20545

4. State Check Number

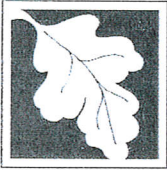
10/20/20

5. Check date

EcoTec, Inc.

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.

Edward J. Vetter
1. Signature of Applicant

10-15-20
2. Date

3. Signature of Property Owner (if different)

Scott Jordan, Ecotec, Inc.
5. Signature of Representative (if any)

4. Date

10/15/20
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.

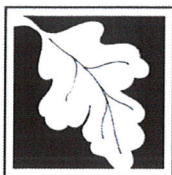
For MassDEP:

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.



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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:

38-40 Wallace Road

a. Street Address

20545 (state)

c. Check number

Sturbridge

b. City/Town

\$70

d. Fee amount

2. Applicant Mailing Address:

Edward

a. First Name

Cloutier

b. Last Name

c. Organization

38 Wallace Road

d. Mailing Address

Sturbridge

e. City/Town

MA

f. State

01566

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

3. Property Owner (if different):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

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).



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B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 1.a.	1	\$165	\$165

Step 5/Total Project Fee: \$165

Step 6/Fee Payments:

Total Project Fee:	\$165
	a. Total Fee from Step 5
State share of filing Fee:	\$70
	b. 1/2 Total Fee less \$12.50
City/Town share of filling Fee:	\$95
	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 Sturbridge

Conservation Commission

Filing Fee Worksheet

Under M.G.L. c 131, § 40 and the Town of Sturbridge Wetland Bylaw

Applicant Edward Cloutier

Applicant Representative Scott Jordan, EcoTec

Project location 38-40 Wallace Road

TOTAL STATE FEE REQUIRED FOR PROJECT

(Only subject to NOI and ANRAD filings—See Wetland Fee Transmittal Form):

State Fee Category(s) Cat. 1.a.

Total State Fee for project (include Riverfront Area adjustment if applicable) \$165

State share of State Fee \$70

Local share of State Fee \$95

TOTAL ADDITIONAL LOCAL FEE REQUIRED FOR PROJECT*:

(See Sturbridge Wetland Bylaw Regulations Section 4.17)

- ☒ Standard NOI Fee = \$50.00 \$50 (check if applicable)
- ☐ Standard RDA Fee = \$25.00 _____ (check if applicable)
- ☐ Standard ANRAD Fee = \$00.10 per foot for resource area delineation _____ (check if applicable).
feet _____ x \$00.10 = \$ _____
- ☐ Standard DELINEATION Fee = \$00.10 per foot for resource area delineation _____ (for all projects).
feet _____ x \$00.10 = \$ _____
- (for all projects that do not include an approved wetland delineation boundary by the Commission within 3 years prior to application submittal)
- ☐ REPLICATION Monitoring Fee = \$200.00 _____ (check if applicable)
(for all projects that include wetland alteration and wetland replication)

CUMULATIVE TOTAL FEES:

Total State Fee: \$165

Total Town Share of State Fee: \$95

Total Local Fee: \$50

*Please Note:

For each NOI and ANRAD filing, please submit two (2) checks to the Town of Sturbridge, one for the town's portion of the state fee and one for the local fee(s). RDA filings only have a Local Fee at this time.

The advertising fee is not included in the calculation. The Applicant will pay the Southbridge News directly.



Town of Sturbridge

Conservation Commission

Notice of Intent Application Checklist – Form B

Applicant / Property Owner Edward Cloutier
Representative Scott Jordan, Ecotec, Inc.
Project Location 38-40 Wallace Rd.
Assessor's Information Map 665-3932-38 and 665-3931-40
Date NOI filed with Conservation 10/27/2020
Date NOI filed with MA DEP Central Region 10/27/2020

- ☒ Complete most recent WPA Form 3 (Notice of Intent Application) and necessary attachments (2 copies)
- ☒ Plans and calculations clearly describing the location and nature of the work including all necessary Stormwater documents if applicable (2 copies)
- ☒ An 8.5 x 11 color section of the USGS Quadrangle (topo) identifying the locus and with a scale
- ☒ An 8.5 x 11 copy of the most recent Natural Heritage Map with WH, PH and VP data identifying the locus and with a scale
- ☒ An 8.5 x 11 copy of the FIRM Map identifying the locus and with a scale
- ☐ Confirmation that a copy of the NOI was sent to NHESP (if applicable)
- ☒ Copy of the Certified Abutters List (to include all abutters within 200-feet of the subject property) and a copy of the completed Abutter Certification Form
- ☒ Signed Affidavit of Service for Abutter Notification
- ☒ Completed Local Filing Fee Worksheet and NOI Wetland Transmittal Form
- ☒ Filing fee checks, one of the town's portion of the state fee and one for the local fee – both made out to the Town of Sturbridge (See Local Filing Fee Worksheet)
- ☒ Copy of State filing fee check made out to the Commonwealth of MA (1 copy)
- ☒ Tax Form signed by the Sturbridge Tax Collector, notifying the Conservation Commission that the property taxes are paid-to-date (1 copy)
- ☒ Confirmation that a copy of the NOI was sent to DEP

This Check list is to be filled out and submitted to the Sturbridge Conservation Commission at the time of filing the Notice of Intent Application.

Please contact me if you have any questions (508)-347-2506 or via email at rgendreau@town.sturbridge.ma.us.

Conservation Agent



Town of Sturbridge

Conservation Commission

Notification to Abutters under the MA Wetlands Protection Act and the Town of Sturbridge Wetland Bylaw Regulations

In accordance with the second paragraph of Massachusetts General Laws, Chapter 131, § 40, as well as the Town of Sturbridge Wetland Bylaws, you are hereby notified of the following permit application for work within a wetland resource area and/or within the 200-foot buffer zone to a resource area:

- A. The name of the applicant is: Edward Cloutier
- B. The address of the lot(s) where the activity is proposed is: 38-40 Wallace Road
- C. The nature of the activity proposed includes: septic system repair
- D. The applicant has filed the following in accordance with the Wetlands Protection Act (MGL c. 131, § 40), and/or the Town of Sturbridge Wetland Bylaws.
- ☒ Notice of Intent seeking permission to conduct work within a wetland, water body or resource area
 - ☐ Request for Determination seeking permission to conduct work within a buffer zone to a wetland, waterbody or resource area
 - ☐ Abbreviated Notice of Resource Area Delineation seeking to confirm the wetland resource area boundaries.
 - ☐ Request to amend an existing Order of Conditions for DEP File #300-_____
- E. Copies of the application may be examined on the Sturbridge Conservation Commission webpage under Recent Filings on the Town of Sturbridge Website www.sturbridge.gov. For additional questions regarding availability contact us at (508)347-2506
- F. Copies of the application may be obtained from either ☐ the applicant: _____ or ☒ the applicant's representative: Scott Jordan, by calling telephone # 508-752-9666 on the following days of the week: M-F between the hours of 9:00 and 5:00.

The Public Hearing for this application will be held in the Sturbridge Town Hall, Veterans Hall, 308 Main Street, 2nd Floor on Nov. 17, 2020 at 8:15 pm.

Pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting law, G.L. c. 30A Section 18, and the Governor's March 15, 2020 Order imposing strict limitations on the number people that may gather in one place, this meeting of the Sturbridge Conservation Commission will be conducted via remote participation to the greatest extent possible. Specific information and the general guidelines for remote participation can be found on the Town's website at <https://www.sturbridge.gov/town-administrator/pages/how-access-virtual-meeting>. For this meeting, members of the public who wish to listen and or watch the meeting may do so either online via the Town's on demand video broadcast, on cable television on channel 191, or dial into the meeting at 774-304-1455, enter 1428# for the meeting number and 12345 for the access code. (This phone number is only active for the public during public meetings). No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings in real time, via technological means. In the event that we are unable to do so, despite best efforts, we will post of the Town's website an audio or video recording, transcript, or other comprehensive record of the proceedings as soon as possible after the meeting.


PLEASE NOTE: Notice of this Public Hearing will be published as follows:

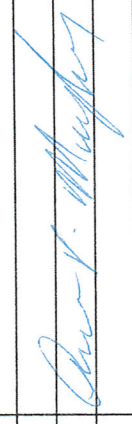
- In The Southbridge Evening News at least five days in advance of the hearing
- In the Town Hall at the Town Clerks office, not less than 48 hours in advance of the hearing
- On the Town's Meeting Calendar not less than 48 hours in advance of the hearing (www.town.sturbridge.ma.us)
- On the Conservation Commission webpage not less than 48 hours in advance of the hearing

You may contact the Sturbridge Conservation Commission Office (508) 347-2506 or the Department of Environmental Protection Central Regional Office at 508-792-7650 with questions in regards to the Notice of Intent application process or the Wetlands Protection Act.

Town Hall
308 Main Street
Sturbridge, MA 01566

508-347-2506
(t) 508-347-5886

Parcel ID	Owner	Owner Address	Owner City	State	Zip	Property Address
665-03932-043	BELL MITCHELL A	43 WALLACE ROAD	STURBRIDGE	MA	01566	43 WALLACE ROAD
665-03931-040	CLOUTIER EDWARD J	38 WALLACE ROAD	STURBRIDGE	MA	01566	40 WALLACE ROAD
665-03921-028	GARIERI SCOTT A	28 WALLACE ROAD	STURBRIDGE	MA	01566	28 WALLACE ROAD
665-03932-029	KELLEY KEVIN J	29 WALLACE ROAD	STURBRIDGE	MA	01566	29 WALLACE ROAD
665-03932-036	MCNULTY DANIEL M	36 WALLACE ROAD	STURBRIDGE	MA	01566	36 WALLACE ROAD
665-03931-034	QUATTROCELLI GLORIA	34 WALLACE ROAD	STURBRIDGE	MA	01566	34 WALLACE ROAD
665-03922-025	REYNGOUDT KELLI L	25 WALLACE ROAD	STURBRIDGE	MA	01566	25 WALLACE ROAD
665-03922-027	SULLIVAN MICHELLE D	27 WALLACE ROAD	STURBRIDGE	MA	01566	27 WALLACE ROAD
665-03952-081	U S ARMY CORPS OF ENGINEERS	696 VIRGINIA ROAD	CONCORD	MA	01742	81 WALLACE ROAD
665-03932-045	WALKER LEMUEL N	45 WALLACE RD	STURBRIDGE	MA	01566	45 WALLACE ROAD
665-03932-046	ZACEK MARIE	46 WALLACE ROAD	STURBRIDGE	MA	01566	46 WALLACE ROAD
	BOARD OF ASSESSORS					
Above persons listed are record owners as they appear on the most recent applicable tax list.						
Assessors are not responsible for errors or omissions. RE: M.G.L. - Chapter 40A, Section 11						
Abutters List -	Conservation Commission - 200'					
RE: 38 WALLACE ROAD						
Certified Copy						
Assessor:						
Date:	9-29-2020					

Parcel ID	Owner	Owner Address	Owner City	State	Zip	Property Address
575-03848-149	BECK WILLIAM E	149 SHEPARD ROAD	STURBRIDGE	MA	01566	149 SHEPARD ROAD
665-03932-043	BELL MITCHELL A	43 WALLACE ROAD	STURBRIDGE	MA	01566	43 WALLACE ROAD
665-03932-038	CLOUTIER EDWARD	38 WALLACE RD	STURBRIDGE	MA	01566	38 WALLACE ROAD
575-03848-151	CLOUTIER EDWARD J	38 WALLACE ROAD	STURBRIDGE	MA	01566	151 SHEPARD ROAD
665-03932-050	CLOUTIER MARK E	50 WALLACE ROAD	STURBRIDGE	MA	01566	50 WALLACE ROAD
665-03921-028	GARIERI SCOTT A	28 WALLACE ROAD	STURBRIDGE	MA	01566	28 WALLACE ROAD
665-03941-076	SMITH ASHLEY NICOLE	76 WALLACE ROAD	STURBRIDGE	MA	01566	76 WALLACE ROAD
665-03932-029	KELLEY KEVIN J	29 WALLACE ROAD	STURBRIDGE	MA	01566	29 WALLACE ROAD
665-03932-036	MCNULTY DANIEL M	36 WALLACE ROAD	STURBRIDGE	MA	01566	36 WALLACE ROAD
665-03931-034	QUATTROCELLI GLORIA	34 WALLACE ROAD	STURBRIDGE	MA	01566	34 WALLACE ROAD
665-03922-027	SULLIVAN MICHELLE D	27 WALLACE ROAD	STURBRIDGE	MA	01566	27 WALLACE ROAD
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	BOARD OF ASSESSORS					
Above persons listed are record owners as they appear on the most recent applicable tax list.						
Assessors are not responsible for errors or omissions. RE: M.G.L. - Chapter 40A, Section 11						
Abutters List -	Conservation Commission - 200'					
RE: 40 WALLACE ROAD						
Certified Copy						
Assessor:						
Date:	10.22.2020					



Town of Sturbridge

Conservation Commission

STURBRIDGE CONSERVATION COMMISSION AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act and the Town of Sturbridge Wetland Bylaws

I, Scott Jordan, Ecotec, Inc., hereby certify under the pains and penalties of perjury that on (date) 10/27/2020, I gave notification to abutters in compliance with the second paragraph of the Massachusetts General Laws Chapter 131, § 40, and the DEP Guide to Abutter Notification as well as the Town of Sturbridge Wetland Bylaws, in connection with the following matter:

- ☒ A Notice of Intent OR
☐ A Request for Determination OR
☐ An Abbreviated Notice of Resource Area Delineation

that was filed under the Massachusetts Wetlands Protection Act and the Town of Sturbridge Bylaws, by Edward Cloutier with the Sturbridge Conservation Commission on (date) 10/27/2020 for the property located at

38 Wallace Road.

The form of the Notification and a list of abutters to whom it was given and their addresses are included in the application file.

Scott Jordan, Ecotec, Inc., 10/27/2020
 (signature of applicant) (date)
 for: Edward Cloutier

Edward Cloutier
 (name of applicant-printed or typed)



Town of Sturbridge

Barbara A. Barry, Finance Director

Department/Board/Committee: Conservation Comm.

Please verify outstanding tax/fee status for the following property owner:

Property Owner: Cloutier, Edward

Property Location: 38 Wallace Rd.

☒ The license/permit may be released.

☐ The license/permit may not be released.

Sandi Sears - Asst. Treas/Coll

10/13/2020

For: Finance Director

Date

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

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

Alternatives Analysis

Proposed: Septic Repair at 38-40 Wallace Road, Sturbridge

Prepared for: Edward Cloutier
38 Wallace Road
Sturbridge, MA 01566

The following Alternatives Analysis has been prepared to supplement the Notice of Intent filed on behalf of the applicant under the Town of Sturbridge Wetland Bylaw and the Massachusetts Wetlands Protection Act (WPA). The proposed project includes the repair of a failing septic system associated with the existing single family home located at 38 Wallace Road. The proposed new septic system shall include a new tank located at 38 Wallace Road and a new leach field to be located at the adjacent parcel at 40 Wallace Road, under the same ownership. The leach field is proposed to alter approximately 4,569 square feet of the Riverfront Area, including 3,994 square feet of the inner riparian zone and 575 square feet of the outer riparian zone, and is located within the WPA 100-foot Buffer Zone and the Sturbridge 200-foot Buffer Zone. The existing failing septic system was in existence prior to the promulgation of the Rivers Protection Act in 1996, and therefore the project is grandfathered from the Riverfront requirements of the Regulations at 310 CMR 10.58(6) which states that:

(6) Notwithstanding the Provisions of 310 CMR 10.58(1) through (5), Certain Activities or Areas Are Grandfathered or Exempted from Requirements for the Riverfront Area:

(c) On-site sewage disposal systems in existence on August 7, 1996 and the repair or upgrade of existing systems in compliance with 310 CMR 15.000: The State Environmental Code, Title 5: Standard Requirements for the Siting, Construction, Inspection, Upgrade and Expansion of On-site Sewage Treatment and Disposal Systems and for the Transport and Disposal of Septage. New construction of a system under 310 CMR 15.000 must comply with 310 CMR 10.58, subject to the presumption for the siting of systems in 310 CMR 10.03.

Notwithstanding the above provision, the project has been designed to minimize impacts to the Riverfront Area and Buffer Zone to the extent feasible. The proposed leach field is located approximately 56.9 feet at its closest point from the resource area on the site. The system has been designed to be located as far from the resource area as possible while maintaining setbacks to drinking water wells located on, and proximate to the site. These setbacks are shown on the site plans filed under the Notice of Intent. Additional consideration has been given to erosion and sediment control during construction. The proposed work area shall be confined with a staked hay bale and silt fence sediment barrier and the proposed side slopes of the leach field shall be immediately armored with 3"-5" rip rap to provide immediate stabilization.

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

September 16, 2020

Jason Dubois, PE
DC Engineering
32 Cranberry Meadow Road
Charlton, MA 01507

RE: Wetland Resource Evaluation, 38 Wallace Road, Sturbridge, Massachusetts

Dear Mr. Dubois:

On August 28, 2020, EcoTec, Inc. inspected the above-referenced property for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the “Act”) and its implementing regulations (310 CMR 10.00 *et seq.*; the “Regulations”); (2) the Town of Sturbridge Wetlands Protection Bylaw and its implementing regulations; and (3) the U.S. Clean Water Act (i.e., Section 404 and 401 wetlands). Scott Jordan, CPESC conducted the inspection.

The subject site consists of the area within the vicinity of a proposed septic repair in the southeastern portion of the property located at 38 Wallace Road in Sturbridge. The upland portions of the site consist of an existing house, barn, shed, driveways, maintained lawn area and upland field in the southern portion. Plant species observed include staghorn sumac (*Rhus typhina*) trees and/or saplings and Japanese knotweed (*Polygonum cuspidatum*) ground cover. The wetland resources observed on the site are described below.

Methodology

The site was inspected, and areas suspected to qualify as wetland resources were identified. Upon inspection, it was determined that no Bordering Vegetated Wetland (BVW) was present on the site as defined at 310 CMR 10.55(2)(c). Section 10.55(2)(c) states that “The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.” In the absence of Bordering Vegetated Wetlands, Bank was delineated in the field in accordance with the definitions set forth in the regulations at and 310 CMR 10.54(2). S Section 10.54(2)(c) states that “The upper boundary of Bank is the first observable break in the slope or the mean annual flood level, whichever is lower.” Federal wetlands were presumed to have boundaries conterminous with the delineated Bank. One DEP Bordering Vegetated Wetland Delineation Field Data Form completed for an observation plot documenting the absence of BVW located in a low-lying area of the uplands near flag R13 is attached (Note: because no BVW is present, no wetland observation plot is provided). The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the delineated wetland resources.

Flag Numbers	Flag Type	Wetland Types and Locations
Start R1 to R22 Stop	Red Flags	Upper boundary of Bank and Mean Annual High-water Line (MAHWL) of mapped perennial stream located off site to the south.

Findings

Bordering Land Subject to Flooding is an area that floods due to a rise in floodwaters from a bordering waterway or water body. Where flood studies have been completed, the boundary of Bordering Land Subject to Flooding is based upon flood profile data prepared by the National Flood Insurance Program. Section 10.57(2)(a)3. states that “The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm.” The project engineer should evaluate the most recent National Flood Insurance Program flood profile data to determine if Bordering Land Subject to Flooding occurs on the site. Bordering Land Subject to Flooding would occur in areas where the 100-year flood elevation is located outside of or upgradient of the delineated Bank boundary. Bordering Land Subject to Flooding does not have a Buffer Zone under the Act, but has a 200-foot Buffer Zone under the Bylaw/Bylaw Regulations.

The Massachusetts Rivers Protection Act amended the Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (i.e., Southbridge Quadrangle, dated 1982, attached), a stream that is shown as perennial is located off site to the south. Streams that are shown as perennial on the current USGS map are designated perennial under the Massachusetts Wetlands Protection Act regulations. Unless this perennial designation is overcome, Riverfront Area is presumed to extend 200 feet horizontally upgradient from the mean annual high-water line of the stream. Section 10.58(2)(a)2. states that the “Mean annual high-water line of a river is the line that is apparent from visible markings or changes in the character of soils or vegetation due to prolonged presence of water and that distinguishes between predominantly aquatic and predominantly terrestrial land. Field indicators of bankfull conditions shall be used to determine the mean annual high-water line. Bankfull field indicators include but are not limited to: changes in slope, changes in vegetation, stain lines, top of pointbars, changes in bank materials, or bank undercuts.” Section 10.58(2)(a)2.a. states that “In most rivers, the first observable break in slope is coincident with bankfull conditions and the mean annual high-water line.” The mean annual high-water line of the stream, and the upper boundary of the Bank, was delineated in the field with flags R1 to R22 based upon the above-referenced regulation. Furthermore, based upon a review of the current USGS Map and observations made during the site inspection, there are no other mapped or unmapped streams located within 200 feet of the site. Accordingly, except as noted above, Riverfront Area would not occur on the site. Riverfront Area does not have a Buffer Zone under the Act, but may overlap other wetland resources and their Buffer Zones.

The Regulations require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, 14th

38 Wallace Rd., Sturbridge
September 16, 2020
Page 3.

edition, Priority Habitats and Estimated Habitats from the NHESP Interactive Viewer, valid from 2017, and Certified Vernal Pools from MassGIS, there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. A copy of this map is attached.

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

Cordially,
ECOTEC, INC.

A handwritten signature in cursive script that reads "Scott Jordan".

Scott Jordan, CPESC
Senior Environmental Scientist

Attachments (6 pages)

11/W/SturbridgeWallaceRd38Report

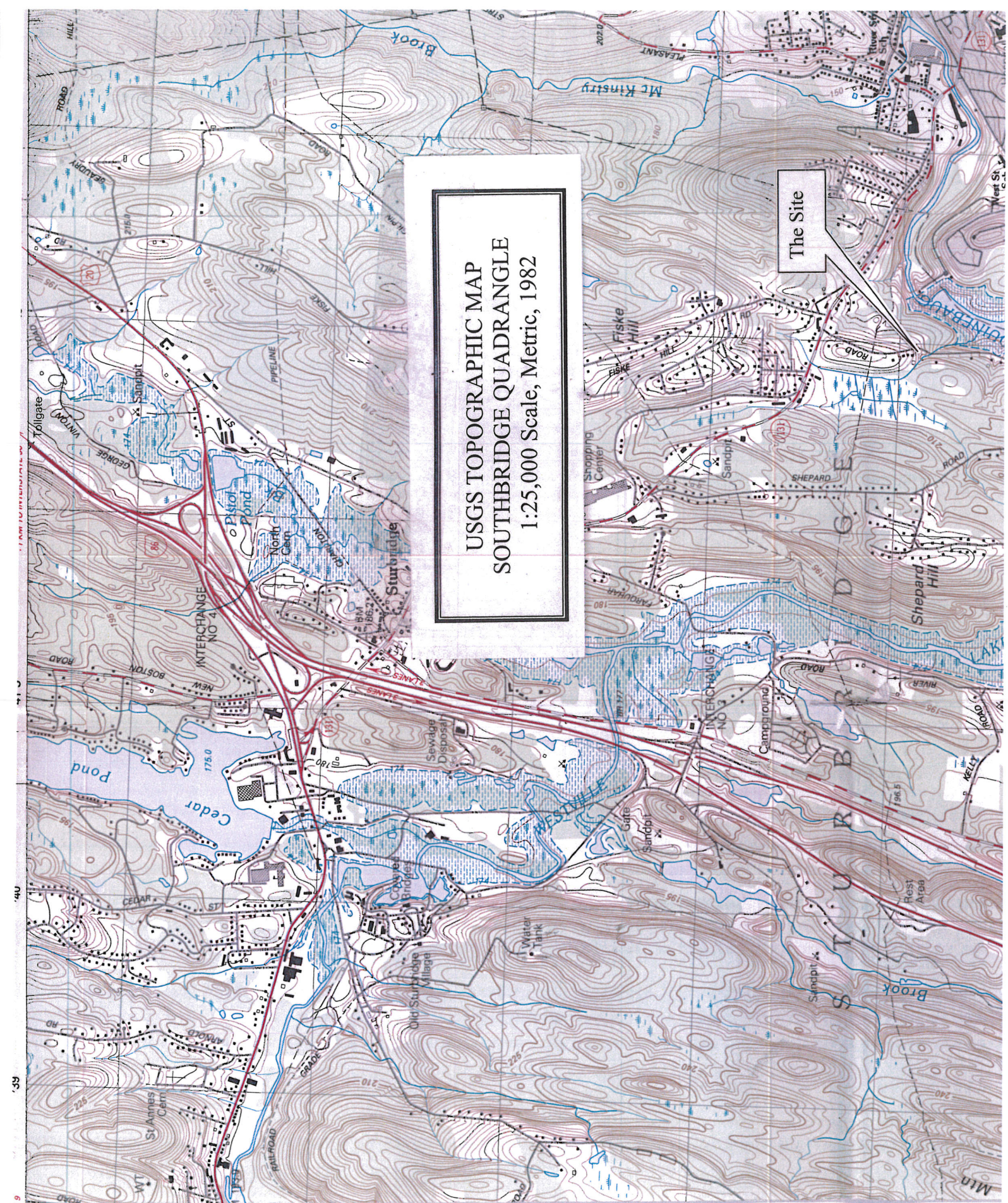
DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Form

Applicant	Prepared by: EcoTec, Inc	Project Location: 38 Wallace Rd., Sturbridge	DEP File #
Section I. Vegetation	Number: TPU @ R13	Transect # Upland	Date of Delin: 8/28/2020

A. Sample layer and plant species (Enter largest to smallest % cover by layer)			Percent Cover (or basal area)	Percent Dominance	Dominant Plant?	Wetland Indicator Category
Tree	None					
Sapling	None					
Shrub	Northern spicebush	Lindera benzoin	25		100.0 YES	FACW- *
Ground	Japanese knotweed Jewelweed	Polygonum cuspidatum Impatiens capensis	100 10		90.9 YES 9.1 NO	FACU- FACW *
Vine	Grape	Vitis. Spp.	10		100.0 YES	UPL

Vegetation Conclusions		
Number of dominant wetland indicator plants	2	Number of dominant non-wetland indicator plants
Is the number of dominant wetland plants equal or greater than the number of dominant non-wetland plants?		YES

The Site



National Flood Hazard Layer FIRMette

72°44'W 42°51'0"N



Legend

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

Without Base Flood Elevation (BFE)
Zone A, V, AE, AO, AH, VE, AR

With BFE or Depth *Zone AE, AO, AH, VE, AR*

Regulatory Floodway

SPECIAL FLOOD HAZARD AREAS

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

Future Conditions 1% Annual Chance Flood Hazard *Zone X*

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

Area with Flood Risk due to Levee *Zone D*

OTHER AREAS OF FLOOD HAZARD

NO SCREEN

Area of Minimal Flood Hazard *Zone X*

Effective LOMRs

Area of Undetermined Flood Hazard *Zone C*

OTHER AREAS

Channel, Culvert, or Storm Sewer

Levee, Dike, or Floodwall

GENERAL STRUCTURES

Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

OTHER FEATURES

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

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

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

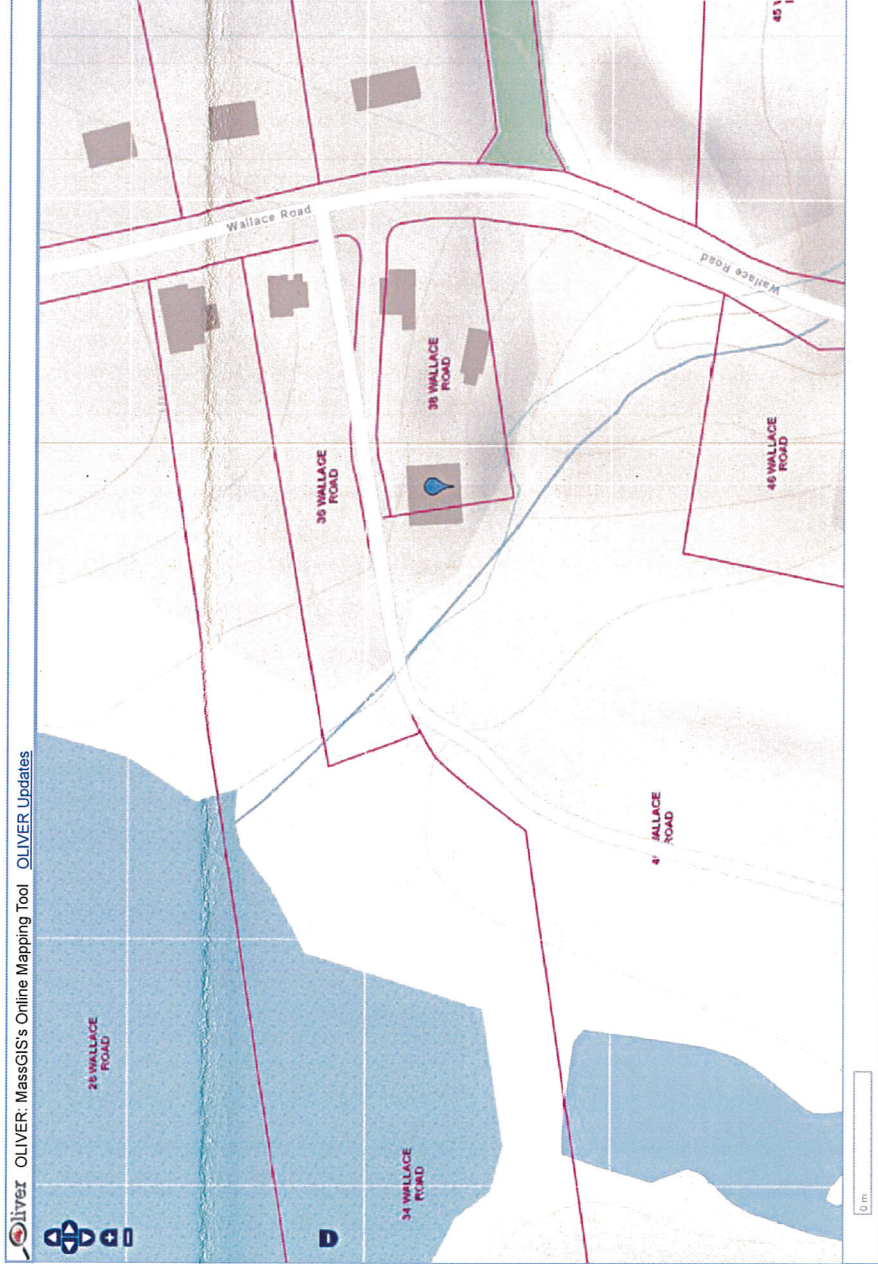
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/1/2020 at 2:37 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new 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.



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

72°32'W 42°44'N



Available Data Layers

Search data layers

Tiled Layers

- State Facilities
- Census 1990
- Census 2000
- Census 2010
- Coastal and Marine Features
- Conservation / Recreation
- Areas of Critical Environmental
- Areas of Critical Environment
- Community Preservation Act
- Natural Heritage Data
- BioMap2
- NHESP Ecoregions
- NHESP Certified Vernal Pools

Active Data Layers

Check all Uncheck all

- ☐ 2019 Color Orthos (USGS)
- ☒ DEP Wetlands Hydrologic Co
- ☒ Potential Vernal Pools
- ☒ NHESP Priority Habitats of R
- ☒ NHESP Estimated Vernal Pools
- ☒ NHESP Certified Vernal Pools
- ☒ Areas of Critical Environment

Legend

- DEP Wetlands Hydrologic Connections
- Potential Vernal Pools
- NHESP Priority Habitats of Rare Species

NHESP Ratched Habitats of Rare Species

NHESP Certified Vernal Pools

Areas of Critical Environmental Concern

153,607,11m 870,462,52m

MassGIS Topographic Features Basemap

Basemaps

True Position Box Query

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

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

Scott Jordan, CPESC Senior Environmental Scientist

Scott Jordan is an Environmental Scientist with EcoTec, Inc. Since joining EcoTec in 2000, Mr. Jordan's duties have included wetland resource evaluation and delineation; erosion and sediment control planning and monitoring, environmental monitoring, including water quality analysis, sediment analysis and wildlife habitat impact analysis; environmental permitting at local, state, and federal level; pond and stream evaluation; wildlife habitat evaluation, vernal pool evaluation; and wetland restoration and replication design and oversight. He has served as an environmental consultant to the development community, engineering firms, municipalities, and conservation commissions. Prior to joining EcoTec, Mr. Jordan was the Senior Laboratory Technician for GeoComp Corporation where he performed numerous physical properties analysis of soils and geosynthetic materials in accordance with ASTM, and AASHTO specifications. His approximately seven years experience evaluating New England soils includes soil analysis and classification of site-remediated soils with oil and hazardous material contamination. His educational background includes courses in organic and inorganic chemistry, biology, botany and comparative vertebrate physiology, with extensive coursework in ecology and wildlife biology; and he has completed several professional training seminars including erosion and sediment control, soil evaluation, wildlife habitat evaluation, wetland mitigation, vernal pool evaluation, water quality assessment using macro-invertebrates, and river morphology and functions. He has participated in several rare species and wildlife monitoring and inventory projects, including marsh bird surveys, marbled salamander (*Ambystoma opacum*) survey, great laurel (*Rhododendron maximum*) survey, wood turtle (*Glyptemys insculpta*) habitat assessments and sweeps, eastern box turtle (*Terrapene carolina*) habitat assessments, and greater black-backed gull (*Larus marinus*) inventory. His prior research experience includes behavioral and acoustic studies of the common loon (*Gavia immer*) in northwestern Maine.

Education: Bachelor of Science: Biology - Wildlife and Environmental, *Cum Laude*
Framingham State College, 2000
Biotechnology Certificate
Middlesex Community College, 1994

Professional

Affiliations: Certified Professional in Erosion and Sediment Control (Cert. #3644)
Massachusetts Association of Conservation Commissioners
Association of Massachusetts Wetland Scientists
Society of Wetland Scientists
Society of Soil Scientists of Southern New England