

Notice of Intent Application Proposed Solar Array – Parcel 1



April 13, 2023

Subject Property

160 Maple Street, 0 Maplegate, 0 Mine Brook
(Assessor's Parcels 237-036, 237-036-037,
239-009, 239-010 and 239-012)
Franklin, MA 02038

Property Owners

Maple Gate Realty Trust
c/o Brown Legal PLLC
10 Liberty Square, 6th Floor
Boston, MA 02109

Applicant

NextGrid Mescalbean, LLC
P.O. Box 775 #73069
San Francisco, CA 94120

Prepared by

LEC Environmental Consultants, Inc.
380 Lowell Street, Suite 101
Wakefield, MA 01880
781-245-2500

www.lecenvironmental.com



April 13, 2023

Federal Express and Email

Franklin Conservation Commission
355 East Central Street
Franklin, MA 02038

Re: Notice of Intent Application

[LEC File #: BoE\22-015.04]

Proposed Solar Array

160 Maple Street, 0 Maplegate & 0 Mine Brook

Assessor's Parcels 237-036, 237-036-037, 239-009, 239-010 and 239-012

Franklin, Massachusetts

Dear Members of the Commission:

On behalf of the Applicant, NextGrid Mescalbean, LLC, LEC Environmental Consultants, Inc., (LEC) is submitting this Notice of Intent (NOI) Application for the "Proposed Solar Array – Parcel 1" project on the above-referenced subject parcels. Proposed work activities occur within the 100-foot Buffer Zone to Bordering Vegetated Wetlands (BVW) protected under the *Massachusetts Wetlands Protection Act* (M.G.L., c. 131, s. 40, the *WPA*), its implementing *Regulations* (310 CMR 10.00, *WPA Regulations*), and the *town of Franklin Wetlands Protection Bylaw* ("Bylaw"; Chapters 181 & 271) and its implementing *Regulations* ("Bylaw Regulations"). Details of the proposed project are depicted on the *Proposed Site Plan*, prepared by Bohler Engineering, dated April 13, 2023 (Attachment; provided under separate cover).

Enclosed please find a check payable to the Town of Franklin for \$862.50 which includes the town portion of the *WPA* filing fee (\$262.50) and the *Bylaw* fee (\$600.00). The state portion of the *WPA* filing fee (\$237.50) has been paid electronically via eDEP.

Thank you for your consideration of this Application. We look forward to discussing the project at the May 4, 2023 Public Hearing. If you should have any questions or require additional information, please do not hesitate to contact me in our Wakefield Office at 781-245-2500 or at dwells@lecenvironmental.com.

Sincerely,

LEC Environmental Consultants, Inc.

Dan Wells
Senior Wildlife/Wetland Scientist

cc: DEP CERO; NextGrid Mescalbean, LLC; Maple Gate Realty Trust

LEC Environmental Consultants, Inc.

www.lecenvironmental.com

12 Resnik Road
Suite 1
Plymouth, MA 02360
508.746.9491

380 Lowell Street
Suite 101
Wakefield, MA 01880
781.245.2500

100 Grove Street
Suite 302
Worcester, MA 01605
508.753.3077

P.O. Box 590
Rindge, NH 03461
603.899.6726

680 Warren Avenue
Suite 3
East Providence, RI 02914
401.685.3109

PLYMOUTH, MA

WAKEFIELD, MA

WORCESTER, MA

RINDGE, NH

EAST PROVIDENCE, RI

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Appendix A

Locus Maps

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Figure 2: Orthophoto Map

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Appendix B

MassDEP Bordering Vegetated Wetland Field Data Forms

Attachments

Proposed Site Plan, prepared by Bohler Engineering, dated April 13, 2023

Drainage Report, prepared by Bohler Engineering, dated April 13, 2023



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

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Franklin

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):

160 Maple Street, 0 Maplegate, 0 Mine Brook

a. Street Address

Franklin

b. City/Town

02038

c. Zip Code

Latitude and Longitude:

42.11040

d. Latitude

-71.44263

e. Longitude

237-036, 237-036-037, 239-009, 239-010 and
239-012

g. Parcel /Lot Number

2. Applicant:

Daniel

a. First Name

Serber

b. Last Name

NextGrid Mescalbean, LLC

c. Organization

P.O. Box 775 #73069

d. Street Address

San Francisco

e. City/Town

CA

f. State

94120

g. Zip Code

559-731-4645

h. Phone Number

i. Fax Number

daniel@nextgrid.com

j. Email Address

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

Sally

a. First Name

Winters, Trustee

b. Last Name

Maple Gate Realty Trust, c/o Brown Legal PLLC

c. Organization

10 Liberty Square, 6th Floor

d. Street Address

Boston

e. City/Town

MA

f. State

02109

g. Zip Code

617-463-9133

h. Phone Number

i. Fax Number

brown@brownlegalllc.com

j. Email address

4. Representative (if any):

Dan

a. First Name

Wells

b. Last Name

LEC Environmental Consultants, Inc.

c. Company

380 Lowell Street, Suite 101

d. Street Address

Wakefield

e. City/Town

MA

f. State

01880

g. Zip Code

781-245-2500

h. Phone Number

i. Fax Number

dwells@lecenvironmental.com

j. Email address

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

\$500.00

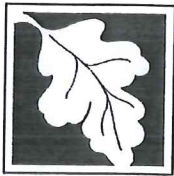
a. Total Fee Paid

\$237.50

b. State Fee Paid

\$262.50

c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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A. General Information (continued)

6. General Project Description:

Construction of a 15,000 KW solar array in Buffer Zone.

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

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Norfolk

a. County

9390; 8149

c. Book

b. Certificate # (if registered land)

162; 336

d. Page Number

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

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

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



**Massachusetts Department of Environmental Protection
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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.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
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

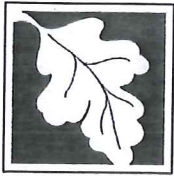
- f. Riverfront Area
1. Name of Waterway (if available) - **specify coastal or inland** _____
2. Width of Riverfront Area (check one):
- 25 ft. - Designated Densely Developed Areas only
 - 100 ft. - New agricultural projects only
 - 200 ft. - All other projects
3. Total area of Riverfront Area on the site of the proposed project: _____ square feet
4. Proposed alteration of the Riverfront Area:
- a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

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

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

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

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



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

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

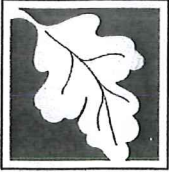
Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<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

8/1/2021

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 **

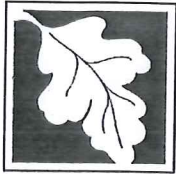
(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(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/mass-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

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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).



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:
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City/Town

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

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.

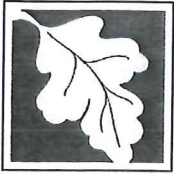
D. Additional Information

- 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.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

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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 Site Plan

a. Plan Title

Bohler Engineering

John A. Kucich

b. Prepared By

c. Signed and Stamped by

April 13, 2023

1"=40'

d. Final Revision Date

e. Scale

Drainage Report, prepared by Bohler Engineering

4/13/23

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:

1728

3/24/2023

2. Municipal Check Number

3. Check date

Paid via eDEP

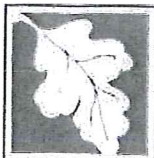
4. State Check Number

5. Check date

Brown Legal, PLLC

6. Payor name on check: First Name

7. Payor name on check: Last Name



**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
Town of Franklin Wetlands Bylaw (Chapters 181 & 271) and Regulations

Provided by MassDEP:

MassDEP File Number

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Franklin
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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.

Daniel Serber

1. Signature of Applicant

03/24/2023

2. Date

Signature

3. Signature of Property Owner (if different)

Apr 6, 2023

4. Date

Signature

5. Signature of Representative (if any)

4/10/23

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.

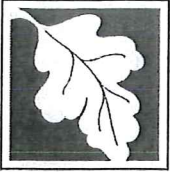
For MassDEP:

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:

160 Maple Street, 0 Maplegate, 0 Mine Brook Franklin
 a. Street Address b. City/Town
 Paid via eDEP \$237.50
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Daniel Serber
 a. First Name b. Last Name
 NextGrid Mescalbean, LLC
 c. Organization
 P.O. Box 775 #73069
 d. Mailing Address
 San Francisco CA 94120
 e. City/Town f. State g. Zip Code
 559-731-4645
 h. Phone Number i. Fax Number daniel@nextgrid.com
 j. Email Address

3. Property Owner (if different):

Sally Winters, Trustee
 a. First Name b. Last Name
 Maple Gate Realty Trust, c/o Brown Legal PLLC
 c. Organization
 10 Liberty Square, 6th Floor
 d. Mailing Address
 Boston MA 02109
 e. City/Town f. State g. Zip Code
 617-463-9133
 h. Phone Number i. Fax Number brown@brownlegalllc.com
 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.

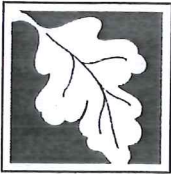
Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

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
2.j.) Other activity: solar farm	1	\$500.00	\$500.00

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee:	\$500.00
State share of filing Fee:	\$237.50
City/Town share of filling Fee:	\$262.50
	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 Franklin Conservation Commission

LOCAL FILING FEE CALCULATION WORKSHEET

1. NOTICE OF INTENT (NOI)

1.1. New Individual Single Family Home (SFH) \$200.00 _____
This includes all projects associated with a SFH

1.2. Work Associated with Existing Residential Property \$50.00 _____
Above-ground pools, fences or other incidental projects involving land disturbance that are not covered by the MBZA

1.3. Control of Nuisance Vegetation \$50.00 _____
This category shall not apply to any non-natural deposition of material e.g. vegetative debris

1.4. Subdivisions

Base Fee \$600.00 _____
Infrastructure in Buffer Zone or Resource Area
Roads _____ linear feet x \$2.00 = _____
*Drainage Structures _____ X \$10.00 each = _____
Wetland Resource Area Disturbed _____ square feet x \$0.50= _____

(If single family homes are proposed as part of a subdivision application, for each house in jurisdiction, individual NOI fees will apply.)

1.5. Multifamily Dwellings, including Condominium Units:
_____ MFDU x \$100.00 _____

1.6. Commercial/Industrial

Base Fee \$600.00 \$600
Infrastructure in Buffer Zone or Resource Area

Roads	___ linear feet x \$2.00	=	___
*Drainage Structures	___ X \$10.00 each	=	___
Wetland Resource Area Disturbed	___ square feet x \$0.50	=	___
Buildings	___ X \$125 each	=	___
All Accessory Improvements	\$100.00	=	___

2. **REQUEST FOR DETERMINATION (RDA)** \$100.00

3. **MINOR BUFFER ZONE ACTIVITY (MBZA)** \$50.00

4. **ABBREVIATED NOTICE OF RESOURCE AREA DETERMINATION (ANRAD)**
 \$0.50/foot/resource area: = ___

5. **OTHER PERMITS/SERVICES**

Order of Conditions Extension	\$50.00	___
Certificate of Compliance Request	\$50.00	___
Certificate Re-Inspection	\$50.00	___
Status Letter for Financial Institution	\$100.00	___
Permit Amendment	\$100.00	___

6. **FILING FEE CALCULATION**

Town Share of State Fees (See NOI Wetland Fee Transmittal Form)	\$ <u>262.50</u>
Local Filing Fee Calculated Above	\$ <u>600.00</u>
TOTAL Due Town of Franklin (Check No.1)	\$ <u>862.50</u>

State Share of Filing Fee (See NOI Wetland Fee Transmittal Form)	
TOTAL Due DEP (Check No. 2)	\$ <u>237.50</u>

7. **ADVERTISING FEE (Check No. 3)** **TBD**

The fee will be the exact amount the newspaper charges for that specific advertisement. Once the advertisement is placed with the paper, by the Conservation Commission, the applicant will be notified of the cost and will be expected to submit a check for that exact amount, payable to the Town of Franklin, to the Conservation Department prior to the first hearing.

*Drainage structures: catch basins, manholes, leaching basins, gutter inlet or any other man-made structure (other than a pipe) for purposes of controlling drainage.

Town of Franklin Conservation Commission

PROPERTY ACCESS SIGNATURE FORM

I hereby request that the Franklin Conservation Commission review this NOI/RDA/ANRAD application. I (we) grant authority to the Franklin Conservation Commission members and agents to go onto my (our) property solely for purposes directly related to the inspection and approval of this application and for follow-up compliance with the permit conditions.

sally winters

sally winters (Apr 6, 2023 12:14 PDT)

Signature of Property Owner

Apr 6, 2023

Date

Town of Franklin Conservation Commission

RESOURCE AREA IMPACT SUMMARY FORM

**The Franklin Wetlands Protection Bylaw
Franklin Town Code Section 181**

Resource Area	Alteration Proposed	Mitigation Proposed
Bordering Vegetated Wetland (SF)		
Bank (LF)		
Land Under Water Bodies (SF)		
Isolated Wetland (SF)		
Vernal Pool (SF)		
Buffer Zone (SF)	0-25': 16,189 sf 25-50': 28,328 50-100': 140,084 sf Total: 184,601 sf	Reduction in impervious area by ±3 acres, planting with native meadow seed mix.
Riverfront (SF)		
100-Year Floodplain (CF)		
(SF) = Square Feet (LF) = Linear Feet (CF) = Cubic Feet Flood Storage		

Town of Franklin Conservation Commission

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

(To be submitted to the Massachusetts Department of Environmental Protection and the Franklin Conservation Commission when filing a Notice of Intent)

I, Sharon A. Sullivan, hereby certify under the pains and penalties of perjury that on April 18, 2023, I gave Notification to Abutters in compliance with second paragraph of Massachusetts General Laws Chapter 131, Section 40 in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by LEC Environmental Consultants, Inc. on behalf of the Applicant, NextGrid Mescalbean LLC, with the Franklin Conservation Commission on April 18, 2023 for property located on 160 Maple Street (Parcel ID: 237-036-000); 0 Maplegate (Parcel IDs: 239-009-000 and 239-010-000); and 0 Mine Brook (Parcel IDs: 237-037-000 and 239-012-000), Franklin, Massachusetts.

The Notification to Abutters form and list of the abutters to whom it was given and their addresses are attached to the Affidavit of Service.

Sharon A Sullivan
Signature

April 18, 2023
Date



April 18, 2023

CERTIFIED MAIL

«Name»
«Name2»
«Address»
«City», «State» «Zip»

Re: Notice of Intent Application

[LEC File #: BoE\22-015.04]

160 Maple Street, 0 Maplegate & 0 Mine Brook

**Assessor's Parcels 237-036, 237-036-037, 239-009, 239-010 and 239-012
Franklin, Massachusetts**

Dear Abutter:

On behalf of the Applicant, NextGrid Mescalbean LLC, LEC Environmental Consultants, Inc., (LEC) has filed a *Notice of Intent (NOI) Application* with the Franklin Conservation Commission to construct a 15,000 KW solar field and associated gravel access drives, utilities, and stormwater management features at the above-referenced sites. The proposed activities occur within the 100-foot Buffer Zone to Bordering Vegetated Wetlands protected under the *Massachusetts Wetlands Protection Act* (M.G.L., c. 131, s. 40, the *Act*), its implementing *Regulations* (310 CMR 10.00, *Act Regulations*), and the *Town of Franklin Wetlands Protection Bylaw* (“*Bylaw*”; Chapters 181 & 271) and its implementing *Regulations* (“*Bylaw Regulations*”). The Applicant proposes to implement erosion controls to protect the wetland resource areas during construction.

The *NOI Application* and accompanying site plans are available for review by the public by contacting the Franklin Conservation Commission. Further information regarding this application will be published at least five (5) days in advance in the *Milford Daily News*. Notice of the Public Hearing will also be posted at the Franklin Town Hall at least 48 hours in advance.

A Public Hearing will be held on May 4, 2023 at 7:00 p.m. in the Town Council Chambers located on the second floor of the Municipal Building, 355 East Central Street, in accordance with the provisions of the *Act*, its implementing *Regulations*, and the *Bylaw*. The meeting is also available via Zoom. Please check the Town’s website and the Commission’s agenda for any updated information on the meeting.

Please do not hesitate to review the materials and/or attend the public hearing should you have questions or concerns about the proposed project.

Sincerely,

LEC Environmental Consultants, Inc.

Daniel L. Wells
Senior Wildlife/Wetland Scientist

LEC Environmental Consultants, Inc.

www.lecenvironmental.com

12 Resnik Road
Suite 1
Plymouth, MA 02360
508.746.9491

380 Lowell Street
Suite 101
Wakefield, MA 01880
781.245.2500

100 Grove Street
Suite 302
Worcester, MA 01605
508.753.3077

P.O. Box 590
Rindge, NH 03461
603.899.6726

680 Warren Avenue
Suite 3
East Providence, RI 02914
401.685.3109

PLYMOUTH, MA

WAKEFIELD, MA

WORCESTER, MA

RINDGE, NH

EAST PROVIDENCE, RI

Notification to Abutters

By Hand Delivery, Certified Mail (return receipt requested), or Certificates of Mailing

This is a notification required by law. You are receiving this notification because you have been identified as the owner of land abutting another parcel of land for which certain activities are proposed. Those activities require a permit under the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40).

In accordance with the second paragraph of the Massachusetts Wetlands Protection Act, and 310 CMR 10.05(4)(a) of the Wetlands Regulations, you are hereby notified that:

- A. A Notice of Intent was filed with the Franklin Conservation Commission on April 18, 2023 seeking permission to remove, fill, dredge, or alter an area subject to protection under M.G.L. c. 131 §40. The following is a description of the proposed activity/activities:

Construction of a 15,000 KW solar field with associated gravel access drives, utilities, and stormwater management features. Erosion control barriers are proposed to protect the wetland resource areas during construction.

- B. The name of the applicant is: NextGrid Mescalbean LLC.
- C. The addresses of the land where the activities are proposed are: 160 Maple Street (Parcel ID: 237-036-000); 0 Maplegate (Parcel IDs: 239-009-000 and 239-010-000); and 0 Mine Brook (Parcel IDs: 237-037-000 and 239-012-000).
- D. Copies of the Notice of Intent may be examined or obtained at the office of the Franklin Conservation Commission, located at the Municipal Building, 355 East Central Street, 2nd Floor. The regular business hours of the Commission are Monday through Thursday, 8:00 a.m. – 4:00 p.m., and Friday, 8:00 a.m. – 1:00 p.m., and the Commission may be reached at (508) 520-4929.
- E. Copies of the Notice of Intent may be obtained from the Applicant's representative, LEC Environmental Consultants, Inc., by calling (781) 245-2500, Monday through Friday, 8:00 a.m. – 5:00 p.m. An administrative fee may be applied for providing copies of the NOI and plans.
- F. The public hearing will be held on Thursday, May 4, 2023 at 7:00 p.m. at the town Council Chambers located on the second floor of the Municipal Building located at 355 East Central Street. The meeting is also available via Zoom and can be accessed through the Conservation Commission agenda for that night, which will be posted on the Town's website 48 hours prior to the meeting. Please call the Conservation Commission at (508) 520-4929 if you have any questions. Notice of the public hearing will be published at least five business days in advance, in the Milford Daily News.

You may also contact the Massachusetts Department of Environmental Protection, Central Regional Office, Worcester, Massachusetts at (508) 792-7650.

Notification provided pursuant to the above requirement does not automatically confer standing to the recipient to request Departmental Action for the underlying matter. See 310 CMR 10.05(7)(a)4.



300 foot Abutters List Report

Franklin, MA
March 20, 2023

Subject Properties:

Parcel Number: 237-036-000
CAMA Number: 237-036-000-000
Property Address: 160 MAPLE ST

Mailing Address: WINTERS SALLY TR MAPLE GATE
REALTY TRUST
160 MAPLE ST
BELLINGHAM, MA 02019

Parcel Number: 237-037-000
CAMA Number: 237-037-000-000
Property Address: MINE BROOK

Mailing Address: COBB JEANINE A
174 MAPLE ST
BELLINGHAM, MA 02019

Parcel Number: 239-009-000
CAMA Number: 239-009-000-000
Property Address: MAPLEGATE

Mailing Address: WINTERS SALLY TR MAPLE GATE
REALTY TRUST
160 MAPLE ST
BELLINGHAM, MA 02019

Parcel Number: 239-010-000
CAMA Number: 239-010-000-000
Property Address: MAPLEGATE

Mailing Address: WINTERS SALLY TR MAPLE GATE
REALTY TRUST
160 MAPLE ST
BELLINGHAM, MA 02019

Parcel Number: 239-012-000
CAMA Number: 239-012-000-000
Property Address: MINE BROOK

Mailing Address: WINTERS SALLY TR MAPLE GATE
REALTY TRUST
160 MAPLE ST
BELLINGHAM, MA 02019

Abutters:

Parcel Number: 224-048-000
CAMA Number: 224-048-000-000
Property Address: PINE ST

Mailing Address: UNITED STATES OF AMERICA US ARMY
CORP
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 237-025-000
CAMA Number: 237-025-000-000
Property Address: MINE BROOK

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 237-026-000
CAMA Number: 237-026-000-000
Property Address: MINE BROOK

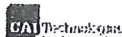
Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 237-027-000
CAMA Number: 237-027-000-000
Property Address: MINE BROOK

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 237-028-000
CAMA Number: 237-028-000-000
Property Address: MINE BROOK

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742



www.cai-tech.com

This information is believed to be correct but is subject to change and is not warranted.

3/20/2023

Page 1 of 4



300 foot Abutters List Report

Franklin, MA
March 20, 2023

Parcel Number: 237-029-000
CAMA Number: 237-029-000-000
Property Address: POND ST

Mailing Address: RANIERI MARY E
59 PLEASANT ST
FRANKLIN, MA 02038

Parcel Number: 237-033-000
CAMA Number: 237-033-000-000
Property Address: MINE BROOK

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 237-034-000
CAMA Number: 237-034-000-000
Property Address: MINE BROOK

Mailing Address: UNITED STATES OF AMERICA USA
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 237-035-000
CAMA Number: 237-035-000-000
Property Address: OAK ST

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 237-036-000
CAMA Number: 237-036-000-000
Property Address: 160 MAPLE ST

Mailing Address: WINTERS SALLY TR MAPLE GATE
REALTY TRUST
160 MAPLE ST
BELLINGHAM, MA 02019

Parcel Number: 237-037-000
CAMA Number: 237-037-000-000
Property Address: MINE BROOK

Mailing Address: COBB JEANINE A
174 MAPLE ST
BELLINGHAM, MA 02019

Parcel Number: 239-001-000
CAMA Number: 239-001-000-000
Property Address: POND ST

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 239-002-000
CAMA Number: 239-002-000-000
Property Address: OAK ST

Mailing Address: UNITED STATES OF AMERICA
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 239-003-000
CAMA Number: 239-003-000-000
Property Address: OAK ST

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 239-004-000
CAMA Number: 239-004-000-000
Property Address: MINE BROOK

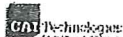
Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 239-005-000
CAMA Number: 239-005-000-000
Property Address: OAK ST

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742

Parcel Number: 239-006-000
CAMA Number: 239-006-000-000
Property Address: OAK ST

Mailing Address: UNITED STATES OF AMERICA US ARMY
696 VIRGINIA ROAD
CONCORD, MA 01742



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This information is believed to be correct but is subject to change and is not warranted.

3/20/2023

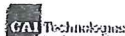
Page 2 of 4



300 foot Abutters List Report

Franklin, MA
March 20, 2023

Parcel Number: 239-007-000 CAMA Number: 239-007-000-000 Property Address: MINE BROOK	Mailing Address: UNITED STATES OF AMERICA US ARMY 696 VIRGINIA ROAD CONCORD, MA 01742
Parcel Number: 239-008-000 CAMA Number: 239-008-000-000 Property Address: MINE BROOK	Mailing Address: UNITED STATES OF AMERICA US ARMY 696 VIRGINIA ROAD CONCORD, MA 01742
Parcel Number: 239-009-000 CAMA Number: 239-009-000-000 Property Address: MAPLEGATE	Mailing Address: WINTERS SALLY TR MAPLE GATE REALTY TRUST 160 MAPLE ST BELLINGHAM, MA 02019
Parcel Number: 239-010-000 CAMA Number: 239-010-000-000 Property Address: MAPLEGATE	Mailing Address: WINTERS SALLY TR MAPLE GATE REALTY TRUST 160 MAPLE ST BELLINGHAM, MA 02019
Parcel Number: 239-011-000 CAMA Number: 239-011-000-000 Property Address: 186 MAPLEGATE	Mailing Address: LMP PROPERTIES LLC C/O RYAN LLC PO BOX 4900 SCOTTSDALE, AZ 85261
Parcel Number: 239-012-000 CAMA Number: 239-012-000-000 Property Address: MINE BROOK	Mailing Address: WINTERS SALLY TR MAPLE GATE REALTY TRUST 160 MAPLE ST BELLINGHAM, MA 02019
Parcel Number: 240-031-000 CAMA Number: 240-031-000-000 Property Address: 30 OAK ST EXT	Mailing Address: BONGIORNO PATRICIA A CROWLEY KEITH A 30 OAK STREET EXT FRANKLIN, MA 02038
Parcel Number: 240-032-000 CAMA Number: 240-032-000-000 Property Address: 32 OAK ST EXT	Mailing Address: ZHOU HENG 32 OAK STREET EXT FRANKLIN, MA 02038
Parcel Number: 240-033-000 CAMA Number: 240-033-000-000 Property Address: OAK ST EXT	Mailing Address: UNITED STATES OF AMERICA US ARMY 696 VIRGINIA RD CONCORD, MA 01742
Parcel Number: 240-034-000 CAMA Number: 240-034-000-000 Property Address: 45 SCHOFIELD DR	Mailing Address: ZWICKER TOBIN A ZWICKER KERRI L 45 SCHOFIELD DR FRANKLIN, MA 02038
Parcel Number: 240-035-000 CAMA Number: 240-035-000-000 Property Address: 46 SCHOFIELD DR	Mailing Address: STUART KEVIN G STUART JUDITH M 46 SCHOFIELD DR FRANKLIN, MA 02038
Parcel Number: 240-036-000 CAMA Number: 240-036-000-000 Property Address: 31 OAK ST EXT	Mailing Address: MULLIKEN PETER B MULLIKEN OLIVIA K 31 OAK STREET EXT FRANKLIN, MA 02038



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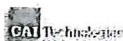


300 foot Abutters List Report

Franklin, MA
March 20, 2023

Parcel Number: 240-055-000 CAMA Number: 240-055-000-000 Property Address: 38 SCHOFIELD DR	Mailing Address: BOURNAZIAN DAVID A 38 SCHOFIELD DR FRANKLIN, MA 02038
Parcel Number: 240-056-000 CAMA Number: 240-056-000-000 Property Address: 42 SCHOFIELD DR	Mailing Address: BERTONE MARC N BERTONE CATHLEEN M 42 SCHOFIELD DR FRANKLIN, MA 02038
Parcel Number: 240-057-000 CAMA Number: 240-057-000-000 Property Address: 43 SCHOFIELD DR	Mailing Address: EVERS JOHN R EVERS CHERYL L 43 SCHOFIELD DR FRANKLIN, MA 02038
Parcel Number: 240-058-000 CAMA Number: 240-058-000-000 Property Address: 39 SCHOFIELD DR	Mailing Address: WILLIAMS MARK R WILLIAMS REGINA M 39 SCHOFIELD DR FRANKLIN, MA 02038
Parcel Number: 254-009-000 CAMA Number: 254-009-000-000 Property Address: MAPLEGATE	Mailing Address: WINTERS SALLY TR MAPLE GATE REALTY TRUST 160 MAPLE ST BELLINGHAM, MA 02019
Parcel Number: 254-010-000 CAMA Number: 254-010-000-000 Property Address: MINE BROOK	Mailing Address: UNITED STATES OF AMERICA US ARMY 696 VIRGINIA ROAD CONCORD, MA 01742
Parcel Number: 254-011-000 CAMA Number: 254-011-000-000 Property Address: MINE BROOK	Mailing Address: UNITED STATES OF AMERICA US ARMY CORP ENG 696 VIRGINIA ROAD CONCORD, MA 01742
Parcel Number: 254-012-000 CAMA Number: 254-012-000-000 Property Address: POND ST	Mailing Address: FRANKLIN TOWN OF 355 EAST CENTRAL ST FRANKLIN, MA 02038
Parcel Number: 254-017-000 CAMA Number: 254-017-000-000 Property Address: POND ST	Mailing Address: UNITED STATES OF AMERICA US ARMY 696 VIRGINIA ROAD CONCORD, MA 01742
Parcel Number: 254-018-000 CAMA Number: 254-018-000-000 Property Address: MINE BROOK	Mailing Address: UNITED STATES OF AMERICA 696 VIRGINIA ROAD CONCORD, MA 01742

Kevin M. Doyle, 3-20-2023



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3/20/2023

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MAPLE, MAPLEGATE & MINE BROOK [237-036-037; 239-009-010 & -012] • 300' ABUTTERS

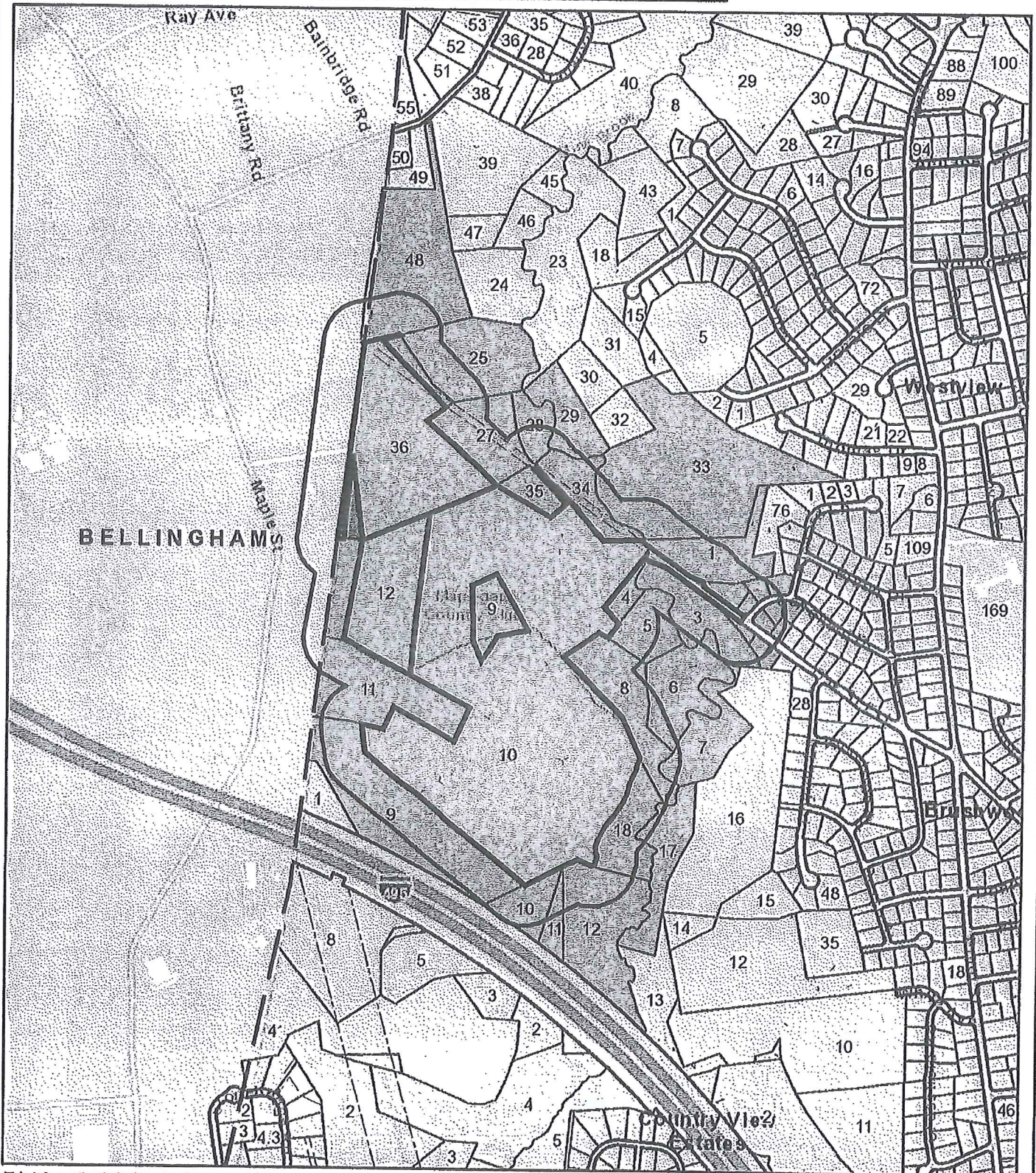
Franklin, MA

CAI Technologies
Dedicated. Efficient. Geospatial Solutions.

March 20, 2023

1 inch = 1000 Feet

www.cai-tech.com



This information is believed to be correct but is subject to change and is not warranted.



Notice of Intent Application

Proposed Solar Array – Parcel 1
160 Maple Street, 0 Maplegate & 0 Mine Brook
Franklin, Massachusetts

April 13, 2023

1.**Introduction**

On behalf of the Applicant, NextGrid Mescalbean, LLC, LEC Environmental Consultants, Inc., (LEC) is submitting this Notice of Intent (NOI) Application for the “Proposed Solar Array – Parcel 1” project located at 160 Maple Street, 0 Maplegate and 0 Mine Brook in Franklin and Bellingham, Massachusetts. Proposed work activities occur within the 100-foot Buffer Zone to Bordering Vegetated Wetlands (BVW) protected under the *Massachusetts Wetlands Protection Act* (M.G.L., c. 131, s. 40, the *WPA*), its implementing *Regulations* (310 CMR 10.00, the *WPA Regulations*), and the *Town of Franklin Wetlands Protection Bylaw* (“Bylaw” Chapters 181 & 271) and its implementing *Regulations* (“Bylaw Regulations”).

Details of the proposed project are depicted on the *Proposed Site Plan*, prepared by Bohler Engineering (Bohler), dated April 13, 2023 (Attachment, provided under separate cover). Additionally, Bohler has prepared a *Drainage Report*, dated April 13, 2023 (Attachment).

The following NOI Application provides a description of the existing site conditions, Wetland Resource Areas, and proposed project designed to protect the interests and values of the Wetland Resource Areas outlined within the above-referenced statutes.

2.**General Site Description**

The Project is proposed within the northern half of the existing Maplegate Country Club property, which is located in portions of Bellingham and Franklin. The existing property is proposed to be subdivided into three parcels: “Parcel 1” is the location of the project proposed in this NOI, while a separate solar project to be located in Parcels 2 and 3 will be permitted through the Franklin Conservation Commission at a future date.

The approximately 74± acre Project site (Site) is located east of Maple Street, north of Interstate 495 and west of Mine Brook, within the central-western portion of Franklin, Massachusetts (Appendix A, Figures 1 and 2). Undeveloped land surrounds the project site to the north, northeast and east. Portions of the existing golf course are located northwest and south of the project, a solar array is located to the southwest, and a commercial landscaping business is situated to the west.

The Site occurs within the northern portion of an existing 18-hole golf course. Existing features include a club house, paved driveway, parking lot, paved and gravel cart paths,

golf fairways and greens, a driving range, and associated landscaping with interspersed patches of natural forest. Undeveloped portions of the site consist of forested upland, ponds, Bordering Vegetated Wetlands (BVW), vernal pools and intermittent streams flowing easterly, discharging to Mine Brook. The golf course actively manages the vegetation within the golf course, so existing vegetation is limited to manicured grasses and is mostly devoid of woody species or saplings.

Vegetation within the forested upland portions of the Site include a canopy of eastern white pine (*Pinus strobus*), northern red oak (*Quercus rubra*), red maple (*Acer rubrum*), with individuals of shagbark hickory (*Carya ovata*), black birch (*Betula lenta*), and gray birch (*Betula populifolia*). The understory contains saplings from the canopy, witch hazel (*Hamamelis virginiana*), and maple leaf viburnum (*Viburnum acerifolium*). The groundcover includes cinnamon fern (*Osmunda cinnamomea*), Canada mayflower (*Maianthemum canadense*), hay scented fern (*Dennstaedtia punctilobula*), dewberry (*Rubus* sp.), individual patches of lowbush blueberry (*Vaccinium angustifolium*), tree-club moss (*Lycopodium obscurum*), and wintergreen (*Gaultheria procumbens*).

Mine Brook, a perennial stream, flows northward along the eastern property boundary, eventually joining with the Charles River at the northern edge of Franklin. The 200-foot Riverfront Area extends laterally from the Mean Annual High Water (MAHW) Line of the Brook, but does not extend into or near the project footprint.

According to the Natural Resource Conservation Service (NRCS) Soil Survey (Web Soil Survey Norfolk and Suffolk Counties, Massachusetts, Version 17, September 3, 2021), the developed and upland portions of the site are mapped as Scituate fine sandy loam, 3-8% slopes, extremely stony. NRCS describes the Scituate Series, as friable coarse-loamy eolian deposits over dense sandy lodgment till derived from granite and gneiss.

Using a hand-held, Dutch-style auger, LEC inspected soil conditions within the forested upland along the BVW boundary. Representative test pits within the upland generally consisted of a six-inch-thick topsoil (A-Horizon) with a soil matrix color 10 YR 3/2. The A-Horizon is directly underlain by a B-Horizon measuring up to 12 inches thick with a matrix color 10 YR 3/6. The soil matrix color renders the soil profile 'non-hydric' in accordance with the *Field Indicators for Identifying Hydric Soils in New England* (Version 4, June 2020). LEC's field observations of the soil profile were generally consistent with the NRCS Soil Survey.

2.1

Floodplain Designation

According to the July 17, 2012 Federal Emergency Management Agency Flood Insurance Rate Maps (FIRM Panel Number: 25021C0302E), Mine Brook and adjacent areas are

mapped within a Zone AE Special Flood Hazard Area, with a Base Flood Elevation ranging from 184 feet, at the southeast corner, to 183.3 feet to the north (Appendix A, Figure 3). The remaining portion of the Site is located within Zone X (Unshaded)- Areas determined to be outside the 0.2% annual chance floodplain. The 100-year floodplain (Bordering Land Subject to Flooding (BLSF)) is confined to the existing forested wetland. As a result, no portion of the project area is located within the 100-year floodplain.

2.2

Natural Heritage and Endangered Species Program Designation

According to the 15th Edition of the Massachusetts *Natural Heritage Atlas* (effective August 1, 2021) published by the Natural Heritage & Endangered Species Program (NHESP), the site is not located within an *Estimated Habitat of Rare Wildlife* or *Priority Habitat of Rare Wildlife* (Appendix A, Figure 2). No Certified or Potential Vernal Pools are mapped within the site. LEC performed a vernal pool survey in Spring of 2022, and documented two vernal pools near the project site, as described below.

3.

Wetland Boundary Determination Methodology

LEC conducted site evaluations during February and March, 2022 to determine the extent of Wetland Resource Areas and delineate the boundaries of Bordering Vegetated Wetland (BVW) in proximity to the proposed project area. The 200-foot Riverfront Area associated with the off-site Mine Brook extends onto the western portion of the property but is generally greater than 500 linear feet from the project area.

The BVW boundary was confirmed by observing existing plant communities, the presence or absence of hydric soils, and hydrologic indicators in accordance with the *WPA* and its implementing *WPA* Regulations, the *Bylaw* and associated *Bylaw Regulations*, as further defined in the *Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands* (Second Edition, September 2022; “*the Handbook*”), the *Field Indicators for Identifying Hydric Soils in New England* (Version 4, June 2020), and the criteria set forth in 310 CMR 10.55. MassDEP Bordering Vegetated Wetland Determination Field Data Forms are included with this Application to support the wetland delineation (Appendix B).

The BVW boundaries were demarcated in the field with sequentially numbered blaze orange, surveyor’s flagging tape embossed with the words “LEC Resource Area Boundary” in bold, black print, and are depicted in the *Plan Set*, including the following sequences indicated in Table 1:

Table 1 - Wetland Delineation Summary Table:
 Bordering Vegetated Wetland (BVW), Isolated Land Subject to Flooding (ILSF)

Wetland Series	Resource Area
1 to 64	BVW
65 to 187	BVW
187 to 202	BVW / Vernal Pool
202 to 374	BVW
375 to 567	BVW
E1 to E15	BVW
E16 to E47	BVW
F1 to F9	ILSF
G1 to G55	BVW
H1 to H24	ILSF / Vernal Pool
J1 to J28	BVW
M1 to M15	BVW
N1 to N7	BVW

4. Wetland Resource Areas

The Wetland Resource Areas associated with this NOI Application include Bordering Vegetated Wetland (BVW), Isolated Land Subject to Flooding (ILSF), and Vernal Pool (a jurisdictional resource area under the Bylaw).

4.1 Bordering Vegetated Wetlands

Bordering Vegetated Wetlands (BVW) are defined in 310 CMR 10.55(2) as *freshwater wetlands which border on creeks, rivers, streams, ponds, and lakes. In these areas soils are saturated and/or inundated such that they support a predominance of wetland indicator plants. The boundary of BVW is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.*

According to §181-4(B), *except as otherwise provided in this chapter or in regulations of the Commission, the definitions of terms in this chapter shall be set forth in the Wetlands Protection Act, MGL.c.131§40, and Regulations, 310 CMR 10.00.*

A forested BVW occurs within the eastern and northeastern tree line of the site and is associated with a series of intermittent stream channels generally flowing eastward toward Mine Brook with the descending topography and the adjacent wetland complex bordering on Mine Brook. Vegetation within the forested BVW includes a moderately dense canopy and sapling layer of red maple (*Acer rubrum*) and American elm (*Ulmus americana*). The shrub layer includes highbush blueberry (*Vaccinium corymbosum*), winterberry (*Ilex verticillata*), northern arrowwood (*Viburnum dentatum*), and sweet pepperbush (*Clethra alnifolia*). The variably dense groundcover layer consists of sensitive fern (*Onoclea sensibilis*), cinnamon fern (*Osmunda cinnamomea*), sphagnum moss (*Sphagnum* sp.), and skunk cabbage (*Symplocarpus foetidus*).

North and northwest of the project are multiple jurisdictional man-made drainage ditches that drain northward and then through a series of culverts that cross under the entrance roadway, coalesce into a forested wetland, and flow northeasterly in a stream channel through the golf course and ultimately into the Mine Brook wetland complex. Vegetation within the open drainage channels and adjacent scrub-shrub wetlands includes silky dogwood (*Cornus amomum*), sweet pepperbush, jewelweed (*Impatiens capensis*), sensitive fern, various sedges (*Carex* spp.), and rushes (*Juncus* spp.).

A forested wetland (WF #275-304) within the east-central part of the site drains into an intermittent stream eastward across the golf course into the Mine Brook wetland complex. This forested wetland is comprised of similar species to the larger forested wetland system running along the eastern edge of the property.

Further east is a large pond, denoted by wetland flags G1 to G55. The pond contains fish, appears to be permanently flooded and is presently used for irrigation of the golf course (a pump house is present at its southwestern corner). A narrow fringe of BVW, dominated by glossy buckthorn (*Frangula alnus*) surrounds the pond.

According to the Natural Resource Conservation Service (NRCS) Soil Survey (Web Soil Survey Norfolk and Suffolk Counties, Massachusetts, Version 17, September 3, 2021), the wetland portion of the site located in proximity to the project area is mapped as Freetown Muck, 0 to 1 percent slopes. NRCS describes the Freetown Series as highly decomposed organic material. Representative soil test pits within the wetland revealed an approximately four-inch-thick topsoil (A-Horizon) with a sandy loam texture and a soil matrix color 10 YR 3/3. The topsoil is directly underlain by a loamy sand B-Horizon

(subsoil) measuring between 4-6 inches thick with a soil matrix color of 10 YR 4/2. Redoximorphic features (10 YR 4/6) were common in this soil profile. The B-Horizon was underlain with a loamy sand C-horizon with a matrix color of 10YR 4/1. This soil profile is considered 'hydric' in accordance with the *Handbook* and meets the criteria for S5: *Sandy Redox*. MassDEP BVW Determination Forms were documented in the vicinity of wetland flag #128, and are provided in Appendix B.

4.2 **Isolated Lands Subject to Flooding**

Isolated Lands Subject to Flooding (ILSF) are defined in 310 CMR 10.57(2)(b).1. as *an isolated depression or closed basin without an inlet or an outlet. It is an area which at least once a year confines standing water to a volume of at least 1/4 acre-feet and to an average depth of at least six inches.*

The F Series is located to the north of the Project, and the H Series is located to the south. Both ILSF consist of small, ponded water hazards within the golf course, without inlets or outlets connected to nearby resource areas, and under 10,000 square feet in area so not jurisdictional as a Pond. Both ILSF had water depths of at least 40 inches during early spring of 2022 and are likely to hold greater than ¼ acre-feet of water at least once per year.

4.3 **Vernal Pool (Bylaw Only)**

The Bylaw defines Vernal Pool as *A confined basin depression which, at least in most years, holds water for a minimum of two continuous months during the spring and/or summer and which is free of adult fish populations, regardless of whether the site has been certified by the Massachusetts Division of Wildlife and Fisheries. Where there is a conflict of opinion as to the extent of the vernal pool or the extent of the habitat area, the applicant may submit an opinion certified by a registered professional engineer and/or a competent professional with at least two years experience in wildlife habitat evaluation, following the procedures set for in MGL C. 131, s. 40 and 310 CMR 10.00, as to the probable extent of the pool and the habitat area. [§181-4(A)]*

According to the *Bylaw Regulations*, vernal pools are defined as *Any isolated wetland subject to flooding or which is determined by a vote of the commission to be capable of satisfying the definition of a vernal pool as set forth in the MassDEP Regulations 310, CMR 10.00, or is already designated as such by the state. (Section 1.6).*

In the spring of 2022, LEC conducted a Vernal Pool Study to evaluate whether on-site Wetland Resource Areas may function to provide *essential breeding and rearing habitat functions for amphibian, reptile or other vernal pool community species* according to the

Natural Heritage and Endangered Species Program's (NHESP) *Guidelines for Certification of Vernal Pool Habitat* (March 2009), hereafter referred to as the "NHESP Guidelines" and/or the *Bylaw and Bylaw Regulations*.

According to NHESP's *Guidelines*, *Vernal Pools are ephemeral bodies of freshwater that, in most years, hold water for a minimum of two continuous months and do not contain a permanent flowing outlet (physical criteria), in addition to providing important wildlife habitat for specific animal species (Obligate or Facultative Vernal Pool species) and generally lacking a reproducing fish population (biological criteria).*

LEC evaluated all confined basin depressions and ponded areas within the project area on March 23 and March 31 of 2022 to determine if any met the criteria for certification in accordance with the *NHESP Guidelines*. The survey was initiated at the optimal time of year, as confirmed by regular observations of the status of amphibian breeding activity in eastern Massachusetts towns beginning in mid-March. The survey was conducted using waders during sunny, calm weather and aided with polarized sunglasses so that visibility into the pools was optimal.

The *NHESP Guidelines* require that both biological and physical criteria be met if a wetland is to be certified. Under the "Obligate Species Method," the biological criteria requirement is that certain "obligate" amphibian species be documented breeding (usually by the presence of egg masses), or fairy shrimp be present. Note that a minimum of five egg masses of one or more obligate species are required for certification. The physical criteria requirement is evidence that a pool lacks a permanently flowing outlet (documented by a photo of standing water). If a pool cannot be successfully certified using the Obligate Species Method, it can also be certified by the Facultative Species Method, whereby one must document that two or more facultative species breed, the pool lacks a permanent outlet, and document that there is no established, reproducing fish population.

LEC observed greater than 5 egg masses of "obligate" amphibian species within two of the surveyed wetlands:

- the "H-series" - six (6) spotted salamander (*Ambystoma maculatum*) and two (2) wood frog (*Lithobates sylvaticus*) egg masses.
- the small pond/BVW demarcated by wetland flags #187 to 202 – eight (8) spotted salamander egg masses.

Neither had a permanent outlet, and both had depths greater than 40 inches, so it is highly likely that they hold water for two continuous months in spring, and probably into the

early summer as well. For these reasons, the identified pools meet the criteria for certification under the NHESP Guidelines, and also meets the *Bylaw* definition of vernal pool.

None of the additional surveyed wetlands near the project site contained the requisite biological criteria for vernal pool certification.

4.4

Buffer Zone Resource Area (Bylaw Only)

According to the *Bylaw Regulations*, §181-2(B), *Except as permitted by the Conservation Commission or as provided in this chapter, no person shall commence to remove, fill, dredge, build upon, degrade, discharge into or otherwise alter the following resource areas: any freshwater wetlands; marshes; wet meadows; bogs; swamps; vernal pools; banks; reservoirs; lakes; ponds of any size; beaches; intermittent streams; lands under water bodies; lands within 100 feet of any of the aforesaid wetland or floodplain area; ...*

The 100-foot Buffer Zone extends from the BVW and Vernal Pool flags. The Buffer Zone within the project area is comprised of existing golf course fairways, greens, rough, tees and sand traps, plus cart paths, driveway, and parking areas. Undeveloped portions of the buffer zone consist of fringing forested upland habitat consisting of White Pine - Oak Forest cover type.

5.

Proposed Project

The Project consists of the construction of a 15,000 KW solar field, along with associated gravel access drives, utilities, and storm water management features as depicted on the attached plan. Erosion control barriers will be installed around the limit of work will remain in place until the site is stabilized to protect the downgradient wetland resource areas during construction. The arrays will be enclosed by a 7-foot high chain-link fence with a six-inch gap at the bottom to accommodate wildlife passage. The existing access drive will be utilized for construction and future maintenance access purposes.

The Project proposes to reduce the amount of impervious coverage across the site by approximately 3± acres. The post-development ground cover proposed under the solar arrays consists of native meadow vegetative cover, and gravel drives are proposed for access/maintenance. Stormwater runoff generated across a portion of the Project will flow overland to a proposed above ground stormwater basin for peak rate attenuation and volume control prior to discharge. Existing impervious areas to remain include a portion of the existing driveway and wetland crossings that will be repurposed and reutilized for

access and maintenance purposes. Due to the proposed use of the site as a solar field, the number of vehicles accessing the site and providing maintenance will be significantly reduced compared to current conditions. In addition, the Project proposes to significantly reduce the use of fertilizers and pesticides that would otherwise be used to support golf course vegetation. Therefore, the Project proposes to improve water quality generated from the site by significantly reducing vehicular use and the spreading of fertilizers and pesticides.

6. Mitigation Measures

6.1 Sedimentation and Erosion Control

A sedimentation and erosion control program will be implemented to protect the adjacent Wetland Resource Areas from sedimentation during the proposed construction activities. As shown throughout the *Site Plan*, and as detailed on Sheet C-609, erosion controls consisting of silt fence and compost sock or equivalent will be installed to demarcate the Limit-of-Work in the vicinity of Wetland Resource Areas and provide additional assurance that construction equipment will not further intrude upon the Buffer Zone or protectable Wetland Resource Areas than otherwise permitted by the Commission. The actual means and methods of erosion control installation will be determined by the contractor. All barriers will remain in place until disturbed areas are stabilized with vegetation.

6.2 Stormwater Management

DEP’s Stormwater Management Standards and the Stormwater Best Management Practices (BMPs) provided in the project design are detailed in Appendix B – *Drainage Report* prepared by Bohler.

According to the Report, proposed stormwater management will closely match existing drainage patterns. Most of the runoff generated will continue to flow overland to onsite water hazards / resource areas or to streams and wetlands associated with Mine Brook. A portion of the site is proposed to flow overland to a new stormwater management basin. The BMPs incorporated into the proposed stormwater management system have been designed to meet or exceed the standards set forth in the MassDEP Stormwater Handbook standards, and comply with MassDEP Wetlands Program Policy 17-1: Photovoltaic System Solar Array Review.

7.

Regulatory Compliance

There is no proposed alteration to BVW, ILSF or Vernal Pool resource areas. The *Act* and its implementing *Regulations* do not set forth specific performance standards for work within Buffer Zone. However, the *Bylaw Regulations* provide performance standards for work within the 0-25 foot, 25-50 foot, and 50-100 foot Buffer Zones. The pertinent performance standards and an explanation of the proposed project’s compliance with these standards follows.

It should be noted that the proposed alterations within Buffer Zone will take place within the existing golf course footprint and are considered “disturbed areas” as defined in the Bylaw Regulations:

1.3. Disturbed Area: An area may be determined by the Commission to be a Disturbed Area where natural vegetation has been removed or otherwise legally modified and the soil has been removed, altered or legally modified such as in a mining or gravel removal operation.

1.3.1. Modifications made to an area prior to July 18, 1972 (Enactment of Wetlands Protection Act) or after July 18, 1972 with a permit from the Conservation Commission are considered legally modified. An area that has not been legally modified shall not be considered Disturbed Area for the purposes of the Town of Franklin Wetlands Bylaw and Wetland Bylaw Regulations.

1.3.2. Modified areas can include, but are not limited to areas such as parking lots, established lawn areas, non-native landscaped areas, patios and areas with active agricultural uses. Modified areas do not include areas where brush has been removed or limbs trimmed without any other modifications to the soil or the site.

1.3.3. The burden of proof is on the applicant to show by a preponderance of evidence that the area meets the Commission’s definition of a disturbed Area.

1.3.4. For the purposes of the Town of Franklin Wetlands Bylaw and Wetland Bylaw Regulations, a Disturbed Area considered legally modified will cease to be A legally modified Disturbed Area after three years of non-use or abandonment and will be considered non-disturbed area.

7.1

0-25 Foot Buffer Zone Resource Area

According to Section 4.2.1 of the *Bylaw Regulations*, *an applicant shall demonstrate that no work/disturbance including grading activities is proposed within the 0-25 foot*

buffer zone resource area. Any applicant proposing a project within the 0-25 foot buffer zone resource area will have an irrefutable presumption of significant adverse impact to the functions and characteristics of the resource area, unless otherwise determined by the Commission under the minor buffer zone activity criteria set forth in Section 2 of these regulations, or as approved by the Commission by the variance procedures set forth in Section 5 of these regulations.

A small amount of work is proposed within the 0-25 foot Buffer Zone, totaling 16,189 sf. Note that all of the work is related to installing an erosion control barrier to protect the M-series wetland and the wetland/vernal pool immediately north of the stabilized construction exit (WF#190-192). Therefore, no natural vegetation will be removed for this alteration, and the purpose is the protection of the adjacent resource areas during construction. See Plan Sheet C-604 (page 27 of 47) for a detailed view of the erosion control / limit of work for these areas.

7.2

25-50 Foot Buffer Zone Resource Area

According to Section 4.3.1 of the Bylaw Regulations, any applicant proposing a project within the 25-50 foot buffer zone resource area shall indicate that there are no structures including but not limited to, concrete, stone, or other impervious foundations and/or slabs for construction purposes that for all intents and purposes would significantly increase runoff. Alteration in the 25-50 foot buffer zone resource area is limited to grading, tree clearing, Stormwater management system components, lawns, gardens, and other low impact uses as determined by the Commission or as otherwise approved by the Commission by the variance procedures set forth in Section XVII of these regulations. Footings for building structures, such as a deck, as opposed to slabs or foundations, shall be used when technically feasible.

There are no structures proposed within the 25-50 foot Buffer Zone except for solar panels to the west of the M-series Wetland. The panels themselves are impervious but the ground below will be pervious and planted with a meadow seed mix. Additional work proposed within this zone includes grading, portions of gravel access road and perimeter fencing. The total proposed disturbance within this buffer zone is 28,328 sf., all of which is within the existing disturbed footprint of the Maplegate Golf Course.

According to Section 4.3.2 of the Bylaw Regulations, Areas Disturbed Prior to June 29, 2006: When there is a pre-existing disturbance (disturbed as part of a previously recorded Certificate of Compliance or disturbed prior to the enactment of the Wetlands Protection Act and the Franklin Wetlands Protection Bylaw), and the work proposed is entirely within this previously disturbed area, an applicant may propose impervious surfaces or other uses

such as pools, buildings, porches, and sheds within the 25-50 foot buffer zone resource area. The Commission shall evaluate the proposed uses based on the demonstration by the applicant that the functions and characteristics of the resource area will not be adversely impacted.

As described above, the proposed work within the 25-50 foot Buffer Zone is within a previously disturbed area.

7.3

50-100 Foot Buffer Zone Resource Area

According to Section 4.4.1. of the *Bylaw Regulations*, *Alterations including structures are allowed in the 50-100 foot buffer zone resource area. The Commission may require additional mitigation offsets when the slope within the buffer zone is steeper than 10%. Additionally, mitigation offsets may be required by the Commission when the applicant proposes that more than 30% of the 50-100 foot buffer zone resource area is proposed to be impervious surface.*

Total proposed disturbance within this zone is 140,084 sf. The slope within the 50-100 foot buffer zone is less than 10%. The project will reduce the amount of impervious surface by ±3 acres. The percentage of impervious surface proposed within the 50-100 foot Buffer Zone is therefore less than 30%. Proposed mitigation efforts within this buffer zone include the implementation of erosion controls and establishment of a native wildflower seed mix.

8.

Summary

On behalf of the Applicant, NextGrid Mescalbean, LLC, LEC Environmental Consultants, Inc., (LEC) is submitting this NOI Application for a proposed 15,000 KW solar array and associated grading, utilities, and stormwater management features located within the 100-foot Buffer Zone to BVW and Bylaw-protected Vernal Pools. BVW is a jurisdictional Wetland Resource Area and the 100-foot Buffer Zone is a protectable area under the *Massachusetts Wetlands Protection Act (WPA; M.G.L. c. 131, § 40)* and its implementing Regulations (310 CMR 10.00). BVW and Vernal Pools are protectable under the *Town of Franklin Wetlands Protection Bylaw (“Bylaw” Chapters 181 & 271)* and its implementing *Regulations (“Bylaw Regulations”)*. The proposed project has been designed to protect the interests and values of the BVW and Vernal Pools in compliance with the WPA and *Bylaw*.

Federal Emergency Management Agency Flood Insurance Rate Map, Town of Franklin (*Community Panel 25021C0307E*), effective July 17, 2012.

Jackson, S. D., D. J. Henson, D. Hilgeman, M. McHugh, and L. Rhodes, 2022. Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands, Second Edition, Massachusetts Department of Environmental Protection, Bureau of Water Resources, Wetlands Program, Boston, Massachusetts.

Massachusetts Natural Heritage Atlas, 15^h Edition. Natural Heritage & Endangered Species Program, Massachusetts Division of Fisheries and Wildlife, Route 135, Westborough, MA 01581, http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

Massachusetts Wetlands Protection Act (M.G.L. c. 131, §. 40) and its implementing *Regulations* (310 CMR 10.00), www.state.ma.us/dep.

New England Hydric Soils Technical Committee. 2019 Version 4, *Field Indicators for Identifying Hydric Soils in New England*, New England Interstate Water Pollution Control Commission, Lowell, MA.

Town of Franklin Wetlands Protection & Conservation Commission Bylaws and Regulations
<https://www.franklinma.gov/conservation/pages/regulations-and-bylaws>

Appendix A

Locus Maps

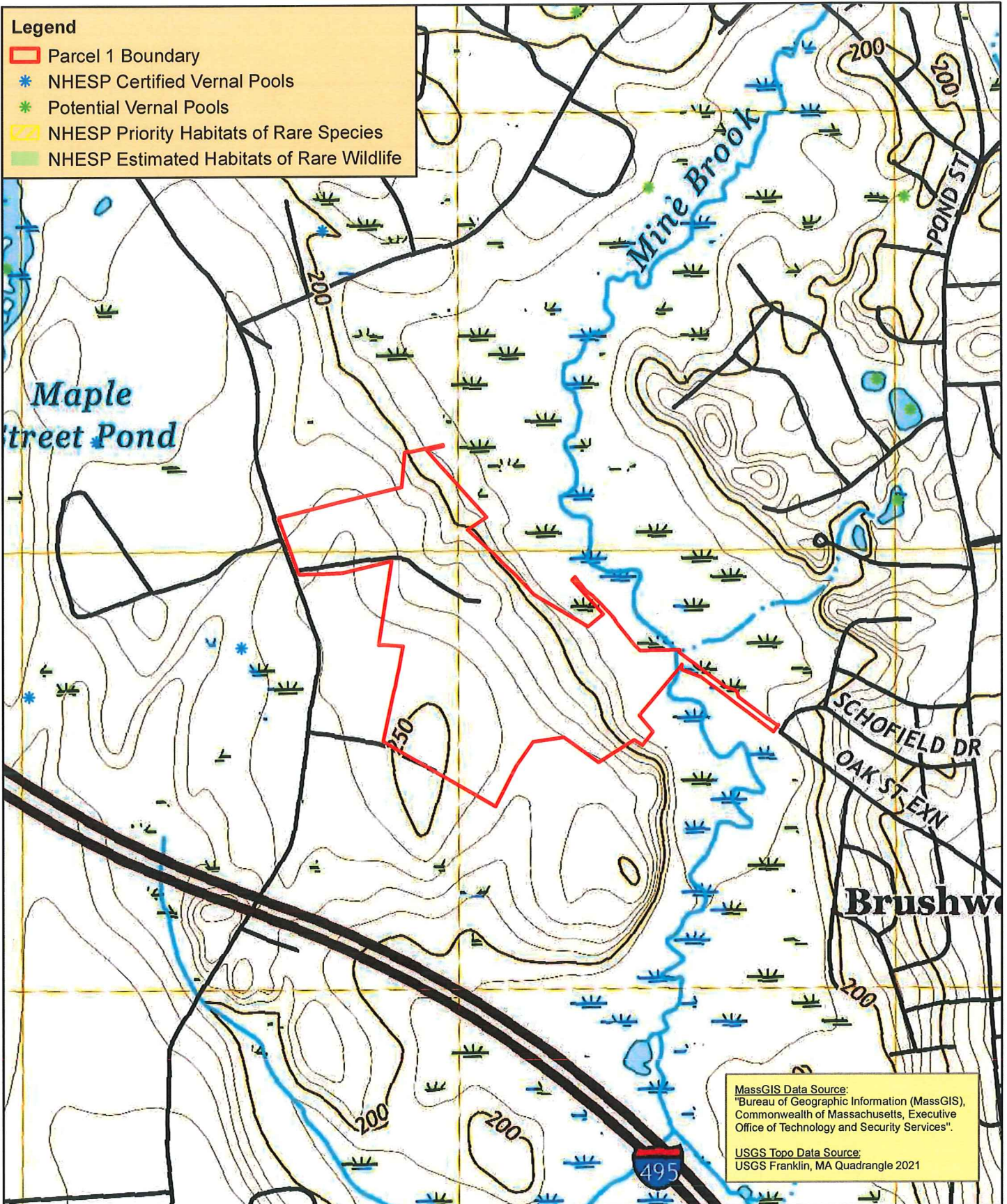
Figure 1: USGS Topographic Map

Figure 2: Orthophoto Map

Figure 3: FEMA FIRMette

Legend

- ▭ Parcel 1 Boundary
- * NHESP Certified Vernal Pools
- * Potential Vernal Pools
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife



MassGIS Data Source:
"Bureau of Geographic Information (MassGIS),
Commonwealth of Massachusetts, Executive
Office of Technology and Security Services".

USGS Topo Data Source:
USGS Franklin, MA Quadrangle 2021

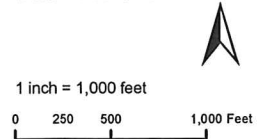


LEC Environmental Consultants, Inc.
Wakefield, MA 781.245.2500
www.lecenvironmental.com

Figure 1
USGS Topographic Map

Maplegate Country Club
Bellingham and Franklin, MA

Date: 4/5/2023



Legend

- ▭ Parcel 1 Boundary
- ✱ NHESP Certified Vernal Pools
- ✱ Potential Vernal Pools
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife



MassGIS Data Source:
"Bureau of Geographic Information (MassGIS),
Commonwealth of Massachusetts, Executive
Office of Technology and Security Services".
MassGIS 2021 Ortho (Spring 2021)



LEC Environmental Consultants, Inc.
Wakefield, MA 781.245.2500
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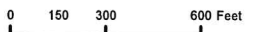
**Figure 2
Orthophoto Map**

Maplegate Country Club
Bellingham and Franklin, MA

Date: 4/5/2023



1 inch = 600 feet

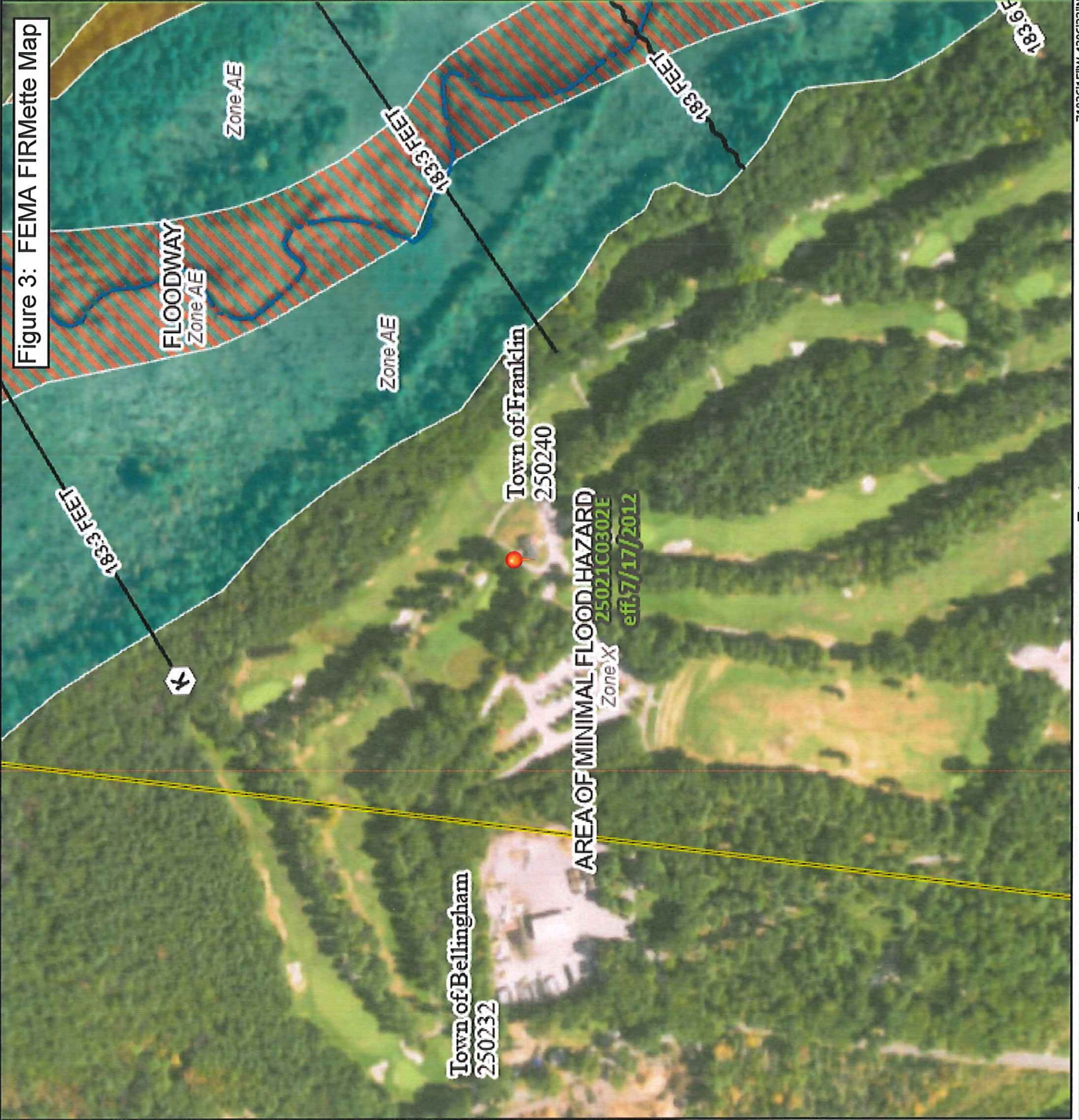


National Flood Hazard Layer FIRMette



71°26'52"W 42°6'50"N

Figure 3: FEMA FIRMette Map



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, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone C)
- Future Conditions 1% Annual Chance Flood Hazard (Zone X)
- Area with Reduced Flood Risk due to Levee. See Notes. (Zone X)
- Area with Flood Risk due to Levee (Zone D)

OTHER AREAS

- NO SCREEN
- Area of Minimal Flood Hazard (Zone X)
- Effective LOMRS
- Area of Undetermined Flood Hazard (Zone X)

GENERAL STRUCTURES

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

OTHER FEATURES

- 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

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 6/6/2022 at 12:56 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.

National Flood Hazard Layer FIRMette



71°26'47"W 42°6'33"N

Figure 3: FEMA FIRMette Map



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, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone C*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN
- Area of Minimal Flood Hazard *Zone X*
- Effective LOMRS
- Area of Undetermined Flood Hazard *Zone C*

GENERAL STRUCTURES

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

CROSS SECTIONS WITH 1% ANNUAL CHANCE WATER SURFACE ELEVATION

- 20.2
- 17.5
- 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 6/6/2022 at 1:01 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.



Appendix B

MassDEP Bordering Vegetated Wetland Determination Data Forms

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 160 Maple Street City/Town: Franklin Sampling Date: 3/23/2022

Applicant/Owner: _____ Sampling Point or Zone: Upgradient of WF #128

Investigator(s): Dan Wells Latitude / Longitude: not recorded

Soil Map Unit Name: Scituate fine sandy loam, 3-8% slopes, extremely stony NWI or DEP Classification: none

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 <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	Indicators that can be Reliable with Proper Interpretation <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	Indicators of the Influence of Water <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 radius</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. White oak	Quercus alba	FACU	38.0	Yes	No
2. Red oak	Quercus rubra	FACU	20.5	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

58.5 = Total Cover

<u>Shrub/Sapling Stratum</u>		Plot size <u>15 foot radius</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Red maple	Acer rubrum	FAC	3.0	Yes	Yes
2. Witch-hazel	Hamamelis virginiana	FACU	10.5	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

13.5 = Total Cover

<u>Herb Stratum</u>		Plot size <u>5 foot radius</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Cinnamon fern	Osmundastrum cinnamomeum	FACW	3.0	Yes	
2. Princess-pine	Dendrolycopodium obscurum	FACU	3.0	Yes	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

6.0 = Total Cover

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size _____		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name						
1.							
2.							
3.							
4.							
				0.0 = Total Cover			

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species?
	6	2	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Prevalence Index:		Total % Cover (all strata)	Multiply by:
	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"/>
Wetland vegetation criterion met? 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 %

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Location ²		
2.00	10YR 3/2	100.0%		0.0%			loam	
6.00	10YR 2/1	100.0%		0.0%			loam	
6.00	10YR 3/6	100.0%		0.0%			sandy loam	
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				

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

Hydric Soil Indicators (Check all that apply)		Indicators for Problematic Hydric Soils
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Dark Surface (S7)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Polyvalue Below Surface (S8)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Thin Dark Surface (S9)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F7)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F8)	<input type="checkbox"/> Mesic Spodic (A17)
<input type="checkbox"/> Sandy Mucky Mineral (S1)		<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> Other (Include Explanation in Remarks)
<input type="checkbox"/> Stripped Matrix (S6)		
<input type="checkbox"/> Dark Surface (S7)		

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

Remarks:

Hydric Soils criterion met? Yes No

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 160 Maple Street City/Town: Franklin Sampling Date: 3/23/2023
 Applicant/Owner: _____ Sampling Point or Zone: Upgradient of WF #128
 Investigator(s): Dan Wells Latitude / Longitude: not recorded
 Soil Map Unit Name: Freetown muck, 0 to 1 percent slopes NWI or DEP Classification: WOODED SWAMP DECIDUOUS

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 type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches) _____
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 <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	Indicators that can be Reliable with Proper Interpretation <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	Indicators of the Influence of Water <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 checked="" 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 foot radius</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Red maple	Acer rubrum	FAC	38.0	Yes	Yes
2. White oak	Quercus alba	FACU	3.0	No	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					
<u>41.0</u> = Total Cover					
<u>Shrub/Sapling Stratum</u>		Plot size <u>15 foot radius</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Highbush blueberry	Vaccinium corymbosum	FACW	10.5	Yes	Yes
2. White pine	Pinus strobus	FACU	10.5	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					
<u>21.0</u> = Total Cover					
<u>Herb Stratum</u>		Plot size <u>5 foot radius</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Cinnamon fern	Osmundastrum cinnamomeum	FACW	3.0	Yes	
2. Princess-pine	Dendrolycopodium obscurum	FACU	3.0	Yes	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
<u>6.0</u> = Total Cover					

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size _____			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1.					
2.					
3.					
4.					
			0.0	= Total Cover	

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species?	
	5	3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Prevalence Index:		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"/>
Wetland vegetation criterion met?			Yes <input checked="" type="checkbox"/>	No <input 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 %

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Location ²		
4.00	10YR 3/3	100.0%		0.0%			sandy loam	
5.00	10YR 4/2	90.0%	10YR 4/6	10.0%	C	M	loamy sand	
5.00	10YR 4/1	100.0%		0.0%			loamy sand	
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
		0.0%		0.0%				
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains					² Location: PL=Pore Lining, M=Matrix			
Hydric Soil Indicators (Check all that apply)						Indicators for Problematic Hydric Soils		
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Polyvalue Below Surface (S8)			<input type="checkbox"/> 2 cm Muck (A10)		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Thin Dark Surface (S9)			<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Loamy Mucky Mineral (F1)			<input type="checkbox"/> Dark Surface (S7)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Polyvalue Below Surface (S8)		
<input type="checkbox"/> Stratified Layers (A5)			<input type="checkbox"/> Depleted Matrix (F3)			<input type="checkbox"/> Thin Dark Surface (S9)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Redox Dark Surface (F7)			<input type="checkbox"/> Iron-Manganese Masses (F12)		
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Depleted Dark Surface (F8)			<input type="checkbox"/> Mesic Spodic (A17)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)						<input type="checkbox"/> Red Parent Material (F21)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)						<input type="checkbox"/> Very Shallow Dark Surface (TF12)		
<input checked="" type="checkbox"/> Sandy Redox (S5)						<input type="checkbox"/> Other (Include Explanation in Remarks)		
<input type="checkbox"/> Stripped Matrix (S6)								
<input type="checkbox"/> Dark Surface (S7)								
Restrictive Layer (if observed) Type: _____ Depth (inches): _____								
Remarks:								
Hydric Soils criterion met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								