

Notice of Intent Application Proposed Electrical Line Connection "Solar Array – Parcel 3 Project"



November 9, 2023

<u>Subject Property</u> 0 Maple Street Assessor's Parcel: 32-9 Bellingham, MA 02019

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

<u>Applicant</u> Maple Street Solar, LLC 177 Huntington Ave., Suite 1703, Unit 73069 Boston, MA 02115 Prepared by LEC Environmental Consultants, Inc. 380 Lowell Street, Suite 101 Wakefield, MA 01880 781-245-2500

www.lecenvironmental.com



November 9, 2023

Email/Federal Express

Bellingham Conservation Commission Municipal Center 10 Mechanic Street Bellingham, MA 02019

Re: Notice of Intent Application 0 Maple Street (Assessor's Parcel: 32-9) Bellingham, Massachusetts

[LEC File #: BoE\22-015.04]

Dear Members of the Commission:

On behalf of the Applicant, Maple Street Solar, LLC, LEC Environmental Consultants, Inc., (LEC) is submitting this Notice of Intent (NOI) Application for the installation of an electrical line as part of the "Proposed Solar Array – Parcel 3" project on the above-referenced subject parcel. Proposed work activities occur within the 100-foot Buffer Zone 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/or the *Town of Bellingham Wetlands Protection Bylaw* (Chapter 235, *Bylaw*) and implementing *Regulations* (Chapter 247, *Bylaw Regulations*). Details of the proposed project are depicted on the *Proposed Site Plan*, prepared by Bohler Engineering, dated October 4, 2023 (Attachment; provided under separate cover).

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Enclosed please find checks payable to the Town of Bellingham for which includes the town portion of the *WPA* filing fee (\$262.50) and the *Bylaw* fee (\$298.00). 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 December 13, 2023 Public Hearing. If you should have any questions or require additional information, please do not hesitate to contact me at dwells@lecenvironmental.com.

Sincerely,

LEC Environmental Consultants, Inc.

Wills

Dan Wells Senior Wildlife/Wetland Scientist

cc: DEP CERO; Maple Street Solar, LLC; Maple Gate Realty Trust

LEC Environmental Consultants, Inc.

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

www.lecenvironmental.com

PLYMOUTH, MA

WAKEFIELD, MA

WORCESTER, MA

RINDGE, NH

EAST PROVIDENCE, RI

401.685.3109



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Appendix A

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Appendix B

MassDEP Bordering Vegetated Wetland Field Data Forms

Attachments

Proposed Site Plan, prepared by Bohler, dated October 4, 2023

Drainage Report, prepared by Bohler, dated July 20, 2023



Important:

key.

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

When filling out forms on the computer, use

only the tab key to move your cursor - do not use the return

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Massachusetts Department of Environmental Protection & Provided by MassDEP:

Bellingham Wetlands Protection Bylaw

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

MassDEP File Number

Document Transaction Number

Bellingham City/Town

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

A. General Information

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

0 Maple Street	Bellingham	02019
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	42.10489	-71.44759
-		e. Longitude
32	9	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	r
2. Applicant:		
Daniel	Serber	
a. First Name	b. Last Name	
Maple Street Solar, LLC		
c. Organization		
177 Huntington Ave., Suite 1703	2 Init 73060	
d. Street Address	5, OTHE 75009	
Boston	МА	02115
e. City/Town	f. State	g. Zip Code
•		0 1
559-731-4645 h. Phone Number i. Fax Nur	mber daniel@nextgrid.com	
h. Phone Number i. Fax Nur	j. Email Address	
3. Property owner (required if differ	rent from applicant): 🛛 🗌 Check if	more than one owner
Sally	Winters, Truste	ee
a. First Name	b. Last Name	
Maple Gate Realty Trust, c/o Bro	own Legal PLLC	
c. Organization		
10 Liberty Square, 6th Floor		
d. Street Address		
Boston	MA	02109
e. City/Town	f. State	g. Zip Code
617-463-9133		• •
h. Phone Number i. Fax Nur	brown@brownlegalllc nber j. Email address	
	j. Email address	
4. Representative (if any):		
Dan	Wells	
a. First Name	b. Last Name	
LEC Environmental Consultants	. Inc.	
c. Company	<u>·</u>	
380 Lowell Street, Suite 101		
d. Street Address		
Wakefield	МА	01880
e. City/Town	f. State	g. Zip Code
781-245-2500	dwells@lecenvironme	• •
h. Phone Number i. Fax Nur	¥	
	ilbei J. Ethali address	

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

\$500.00	\$237.50	\$262.50
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid

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Bellingham Wetlands Protection Bylaw

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A. General Information (continued)

 General Project Description: Installation of an electrical line from a proposed solar array to an existing pole on Maple Street.

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.
	9. 🗌 Other	
7b.	Is any portion of the proposed activity eligible to be Restoration Limited Project) subject to 310 CMR 1	0.24 (coastal) or 310 CMR 10.53 (inland)?
		ed project applies to this project. (See 310 CMR plete list and description of limited project types)
	2 Limited Project Type	

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

Norfolk	
a. County	b. Certificate # (if registered land)
8626	39
c. Book	d. Page Number

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

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

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



Massachusetts Department of Environmental Protection & Provided by MassDEP:

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

	<u>Resour</u>	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
For all projects	a. 🗌	Bank	1. linear feet	2. linear feet
affecting other Resource Areas, please attach a	b. 🔄	Bordering Vegetated Wetland	1. square feet	2. square feet
narrative explaining how the resource	c. 🗌	Land Under Waterbodies and	1. square feet	2. square feet
area was delineated.		Waterways	3. cubic yards dredged	
	<u>Resour</u>	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
	d. 🗌	Bordering Land Subject to Flooding	1. square feet	2. square feet
	e. 🗌	Isolated Land	3. cubic feet of flood storage lost	4. cubic feet replaced
	е. 🛄	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) - sr	pecify coastal or inland
	2.	Width of Riverfront Area	a (check one):	
		25 ft Designated I	Densely Developed Areas only	
		🔲 100 ft New agricu	ltural projects only	
		200 ft All other pro	ojects	
	3.	Total area of Riverfront A	rea on the site of the proposed proj	ect: square feet
	4.	Proposed alteration of the	Riverfront Area:	
	a.1	total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
	5.	Has an alternatives analy	sis been done and is it attached to	this NOI?
	6.	Was the lot where the act	ivity is proposed created prior to Au	ugust 1, 1996? 🗌 Yes 🗌 No
3	3. 🗌 Co	astal Resource Areas: (Se	ee 310 CMR 10.25-10.35)	
	Note:	for coastal riverfront areas	s, please complete Section B.2.f. a	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	<u>R</u>	esour	<u>ce Area</u>	Size of Proposed	Alteration	Proposed Replacement (if any)
transaction number	a.		Designated Port Areas	Indicate size un	der Land Under	the Ocean, below
(provided on your receipt page) with all	b.		Land Under the Ocean	1. square feet		
supplementary information you submit to the				2. cubic yards dredge	d	
Department.	C.		Barrier Beach	Indicate size und	er Coastal Beac	hes and/or Coastal Dunes below
	d.		Coastal Beaches	1. square feet		2. cubic yards beach nourishment
	e.		Coastal Dunes	1. square feet		2. cubic yards dune nourishment
				Size of Proposed	Alteration	Proposed Replacement (if any)
	f.		Coastal Banks	1. linear feet		
	g.		Rocky Intertidal Shores	1. square feet		
	h.		Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
	i.		Land Under Salt Ponds	1. square feet		
				2. cubic yards dredge	d	
	j.		Land Containing Shellfish	1. square feet		
	k.		Fish Runs			s, inland Bank, Land Under the Waterbodies and Waterways,
				1. cubic yards dredge	d	
	I.		Land Subject to	1. square feet		
	S] Res the pr	footage that has been ente	estoring or enhand		esource area in addition to the e, please enter the additional
	a.	square	feet of BVW		b. square feet of Sa	alt Marsh
	5. 🗌] Proj	ject Involves Stream Cross	ings		

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

 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	\square	No	
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If yes, include proof of mailing or hand delivery of NOI to:

8/1/2021 b. Date of map	Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife 1 Rabbit Hill Road Westborough, MA 01581
si zato ol 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
- 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

percentage/acreage

^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <u>https://www.mass.gov/ma-</u> 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.



Bellingham Wetlands Protection Bylaw

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Bellingham City/Town

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

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

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 c	over 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, <u>https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat</u>; 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.		
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
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If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and North Shore - Hull to New Hampshire border: the Cape & Islands:

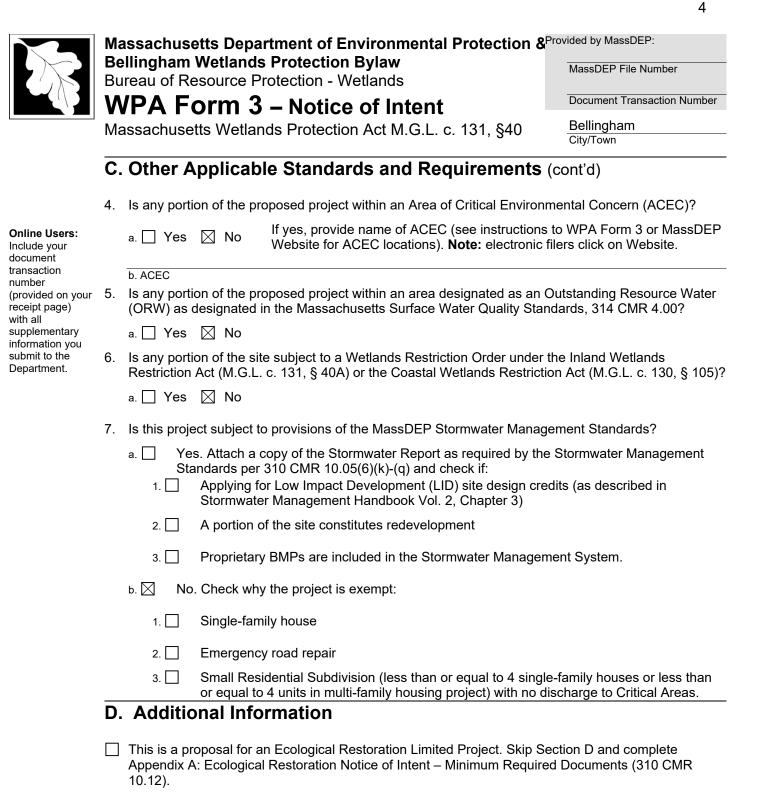
Division of Marine Fisheries -	Division of Marine Fisheries -
Southeast Marine Fisheries Station	North Shore Office
Attn: Environmental Reviewer	Attn: Environmental Reviewer
836 South Rodney French Blvd.	30 Emerson Avenue
New Bedford, MA 02744	Gloucester, MA 01930
Email: dmf.envreview-south@mass.gov	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).



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.



Bellingham Wetlands Protection Bylaw

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

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. \square 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
10/4/2023	1"=40'
d. Final Revision Date	e. Scale
Drainage Report, prepared by Bo	nler Engineering 7/20/2023
f. Additional Plan or Document Title	g. Date
If there is more than one proplisted on this form.	erty owner, please attach a list of these property owners not

- 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:

2148	10/16/2023	
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	

4



Massachusetts Department of Environmental Protection Provided by MassDEP:

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

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	09/05/ <u>2023</u>
1. Signature of Applicant	2. Date
Peter A. Brown, Eg. as Counsel for Owner, Maple Gate Realty Trust	09/05/2023
3. Signature of Property Owner (If different)	4. Date
In A Wille	11/8/2023
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

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

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

MassDEP File Number

Document Transaction Number Franklin/Bellingham City/Town



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.



Α.	App	licant	Information	
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1.	Location of Project:		
	0 Maple Street	Bellingham	
	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	
	Maple Street Solar, LLC		
	c. Organization		
	177 Huntington Ave., Suite 1703, Unit 73069		
	d. Mailing Address		
	Boston	MA	02115
	e. City/Town	f. State	g. Zip Code
	559-731-4645	daniel@nextgrid.com	
	h. Phone Number i. Fax Number	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	brown@brownlegalllc.com	
	h. Phone Number i. Fax Number	i. Email Address	

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

B. Fees

Fee should be calculated using the following process & worksheet. *Please see Instructions before filling out worksheet.*

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

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

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

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

B. Fees (continued)			
Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
2.j.) Other activity: electrical line	1		\$500
	Step 5/To	otal Project Fee:	\$500
	Step 6/	Fee Payments:	
	Total	Project Fee:	\$500 a. Total Fee from Step 5
	State share	of filing Fee:	\$237.50 b. 1/2 Total Fee less \$ 12.50
	City/Town share	e of filling Fee:	\$262.50 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.)



Application for Permit Bellingham Wetlands Protection Bylaw & Regulations

1. Applicant:	Name: Maple Street Solar, LLC Phone: 559-731-4645
	Address: 177 Huntington Ave., Suite 1703, Unit 73069 Boston, MA 02115
	E-mail: daniel@nextgrid.com
2. Project	Street:
Location:	0 Maple Street
	Assessor's Map <u>32</u> Parcel\Lot <u>9</u>

3. This application is filed simultaneously with and consistent with the Project Filing Guidelines found on the town web site for:

- Request for Determination of Applicability
- Abbreviated Notice of Resource Area Delineation
- Notice of Intent
 - Abbreviated Notice of Intent
 - Amendment Request

Resource Area(s) Delineation to be confirmed: (Please complete number of linear feet)

Linear Feet

865	_ Bordering Vegetated Wetlands (BVW)
	Bordering Land Subject to Flooding (BLSF)
	_ Isolated Land Subject to Flooding (ILSF)
	_ Isolated Vegetated Wetland (IVW)
	_ Land Under Water Bodies (LUWB)
	Bank
	_ Perennial Stream: (MHAW) Stream Name:
	_ Intermittent Stream:
Is Estimated o	r Priority Habitat present on the site? Yes No X
S	pecies:
Number of Ve	rnal Pools present on the site: Certified <u>0</u> Potential <u>0</u>

4. Work is proposed in the following Resource Areas:

	Bank	Total #of square feet of impacts:	
	Beach or Flat	Total #of square feet of impacts:	
	Land Subject to Flooding(bordering or isolated)	Total # of square feet of impacts	
	Bordering Vegetated Wetlands	Total # of square feet of impacts	
\checkmark	Buffer Zone	Total # of square feet of impacts	1,173
	Isolated Wetland	Total # of square feet of impacts	
	Lakes or Ponds	Total # of square feet of impacts	
	Land under Water Bodies	Total # of square feet of impacts	
	Riverfront Area	Total # of square feet of impacts	
	Vernal Pool	Total # of square feet of impacts	
		Total # of above	1,173

5. \	Worł	s is proposed in the following No Alterati	ion Zone	s:	
		as of Critical Environmental Concern		tal# of square feet of impacts	
	Buf	fer Zone 0 -25 feet	То	tal# of square feet of impacts	
	Esti	mated Habitat	То	tal# of square feet of impacts	
	Prio	rity Habitat	То	tal# of square feet of impacts	
	0	50 feet No Disturb Zone to Vernal Pool	То	tal# of square feet of impacts	
			Т	otal of above	
6 . '	Worl	x in buffer zone only:			
		5 feet	То	tal# of square feet of impacts	
X	25-5	50 feet	То	tal# of square feet of impacts	1,173
	50-1	100 feet	То	tal# of square feet of impacts	
			Т	otal of above	1,173
7.1	Proje	ct Description:			
			,		
	a.	Existing Conditions where work is prop	posed	T 1 1 1	
		Impervious		Lawn or landscaped area	
		Regulated Resource Area	\checkmark	Wooded or natural area	
	X	Other			
	b.	Description of proposed work: <u>Installation</u>	on of underg	ground electrical line	
	c.	Type of equipment required for project	: Jack and	l Bore equipment	
	d.	Type of erosion control proposed: Silt fe	nce, compo	ost sock	
8.	Plan	s must adhere to the criteria in Section 2	9 "Plan l	Requirements" of the Regu	lations.
0	Duci	at Impacts (I las concrets page if pageson		a to company and in a item)	
9.	rroj	ect Impacts (Use separate page if necessar	y lefelilli	g to corresponding item)	
	If the	er Zone Setback: project involves work in the buffer zone only, en project disturbance and the regulated resour			
Ī	List th	Cutting: e number of trees and approximate diameter of sed for removal: (Use separate sheet if necessar			
]	Fill 8	z grading:			
		nt of fill proposed for removal from site		0 cu	u yds.
		nt of fill proposed for use on site		<u> </u>	u yds.
F	Explai	n the difference between the proposed final gra	ide and the	e existing conditions. <u>no change</u>	9

Explain proposed site stabilization methodology during and post construction. loam and seed with native mix

10. If an exemption or waiver from the WPA or the Bellingham Wetland Bylaw will be required to complete the proposed project, the applicant shall, at the time of filing, provide information consistent with six requirements listed in Section 10 of the Bellingham Wetland Regulations.

11. The following completed items are included in each set of the filing:

 \square Abutters list, \square Abutter Notification Form, \square Affidavit of Service, \square Bylaw Fee Calculation, \square Worksheet & remittance \square Plans (see #8 above), \square Narrative for projects <u>Please include</u>: THUMB DRIVE with pdf copy of entire filing

12. **Statement of applicant:** I hereby certify under penalties of perjury that this application and all supporting plans and documents are true and complete to the best of my knowledge and that these have been prepared in conformance with the requirement of the Bellingham Wetlands Protection Bylaw and its attendant Regulations I further certify that all abutters and other parties have been notified of this application as required by the Bellingham Wetlands Protection Regulations. I understand that I may be asked to pay for a consultant to review my application for the Commission.

Initialed sign off by Treasurer's Office:

CERTIFICATION OF MUNICIPAL TAXES AND CHARGES PAID TOWN OF BELLINGHAM

Property Information			Taxes / Charges	Paid
Parcel ID			Tax Title	
Мар			Motor Excise Tax	
Lot			Real Estate Tax	
Street Number			Personal Property Tax	
Street Name			Water	
First Name		As the	Sewer	
Last Name		Collector	Trash	

As the Collector/Treasurer for the Town of Bellingham, MA I certify that the municipal taxes are paid in full for the above property.

(Print name)

(Signature)

(Date)

3/2011, 8/2017, 2/2021

	Town of Bellingham Wetlands Protection Bylaw Fee Calculations Worksheet (Bylaw Fees are in addition to WPA Fees) Fees must be submitted with application (Check to be made payable to "Town of Bellingham")				
1.	A flat fee of \$50.00 each for the following requests: (check off appropriate item)				
2.	The following schedule applies for Notice of Intent (NOI) categories at 310CMR 10.03(7) (c), as follows: *(Also complete Item #4 below for all filings including RDA, NOI and ANRAD and Item #5 for Riverfront Area if applicable.)				
	No.TotalCategory 1\$ 50.00 per activity $x _ = $$ Category 2\$125.00 per activity $x _ = $$ Category 3\$250.00 per activity $x _ = $$ Category 4\$500.00 per activity $x _ = $$ Category 5\$ 2.00 per linear ft. $x _ = $$				
3.	<u>A flat fee of \$50.00 for Request for an Amendment to each existing Order of Conditions permit:</u> \$ 50.00 per activity x = \$				
4.	 <u>Application for review of Resource Area Delineation</u>: <u>20 per linear foot (not less than \$25.00 or more than \$200.00 for single family house projects; not less than \$50.00 or more than \$2,000.00 for any other activity).</u> This fee will be in addition to the fee for a Request for Determination of Applicability (RDA) or Notice of Intent (NOI) listed in items #1 for RDA and #2 NOI or Abbreviated Notice of Resource Area Delineation (ANRAD). Type of activity: <u>electrical line installation</u> Total linear feet <u>865 +/- x .20/linear foot = \$173 (\$25/min. or \$2000/max.)</u> 				
5.	Fees for projects within the Riverfront Area and another resource area shall be 150% of the above fees: (Check off appropriate item below)				
DED & E	Total Bylaw Fee Submitted \$ 298				
	Address of Applicant: <u>Maple Street Solar, LLC</u> Proposed Solar Array - Parcel 3				
-					
Project lo	ocation: Assessors Map: <u>32</u> Lot or Parcel: <u>9</u> Street Address: <u>0 Maple Street</u>				

5

Affidavit of Service Under the Massachusetts Wetlands Protection Act & Bellingham Wetlands Protection Bylaw

I, <u>Sharon A. Sullivan</u>, hereby certify <u>Name of person making Affidavit</u> under pains and penalties of perjury that on <u>December XX, 2023</u> <u>Date</u> I gave notification to abutters in compliance with the second paragraph of Massachusetts General Law Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in the connection with the following matter:

A Notice of Intent/Abbreviated Notice of Resource Area Delineation/Request for Amendment was filed under the Massachusetts Wetlands Protection Act and the Bellingham Wetlands Protection Bylaw, by

	with the				
Name of applicant					
Bellingham	Conservation Co	ommission on			
Name of Municipality	,				
November 9, 2023	for property located at 0 Map	le Street			
Date					
(Assessor's Parcel: 32-9)					
Address of land where work is proposed					

Address of land where work is proposed

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

Signature

12/XX/2023

Date





December XX, 2023

Certificate of Mailing

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

Re: Notice of Intent Application 0 Maple Street (Assessor's Parcel: 32-9) Bellingham, Massachusetts

[LEC File #: BoE\22-015.02]

Dear Abutter:

On behalf of the Applicant, Maple Street Solar, LLC, LEC Environmental Consultants, Inc. (LEC) has filed a Notice of Intent (NOI) Application with the Bellingham Conservation Commission for the installation of an electrical line as part of the "Proposed Solar Array – Parcel 3" project on the above-referenced subject parcel. Proposed work activities occur within the 100-foot Buffer Zone 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/or the *Town of Bellingham Wetlands Protection Bylaw* (Chapter 235, *Bylaw*) and implementing *Regulations* (Chapter 247, *Bylaw Regulations*).

The report entitled *Notice of Intent Application* and accompanying site plans are available for review by the public at the Bellingham Conservation Commission. The Public Hearing will be held in-person and via remote access on December 13, 2023 at 7:00 p.m., in accordance with the provisions of the *Act*, the *Act Regulations*, the *Bylaw*, and the *Bylaw Regulations*. Notice of the Public Hearing, including its date, time, and place, will be published at least five (5) days in advance in *The Woonsocket Call*. Notice of the Public Hearing also will be posted at the Bellingham Municipal Center at least 48 hours in advance. Please check the Town's website and the Board/Committee's page 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 Wetland/Wildlife Scientist

LEC Environmental Consultants, Inc.

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 www.lecenvironmental.com

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 UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT CHAPTER 131, SECTION 40 AND THE TOWN OF BELLINGHAM WETLANDS PROTECTION BY LAW

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

 Maple Street Solar, LLC
 has filed a Notice of Intent/Abbreviated Notice of

 (Applicant)
 (Applicant)

Intent/ Abbreviated Notice of Resource Area Delineation/Request for Amendment; with the Bellingham Conservation Commission for review of the following activity:

Description of Project: installation of an electrical line as part of the "Proposed Solar Array-Parcel 3" project

The location of the proposed activity is Assessors Map 32 Lot 9 Street address: 0 Maple Street

Copies of the filing may be examined at the Bellingham Conservation Commission office during their normal business hours(please call 508-657-2858) OR by calling the Applicant's representative, LEC Environmental Consultants, Inc.

Address: _

Phone number: (781) 245-2500 - 8:00 a.m. - 5:00 p.m., Monday thru Friday

Questions regarding the filing may be directed to the Conservation Commission at 508-657-2858 OR the Applicant's representative (Please see above)

The public hearing will be held at the Bellingham Municipal Center, 10 Mechanic Street, Bellingham. Information on the date and time of the hearing may be directed to the Conservation Commission or the applicant's representative at the above numbers.

NOTE: Notice of the public hearing, including date, time and place:

- 1. Will be published at least five (5) days in advance in the Woonsocket Call
- 2. Will be posted at the Town Clerk's Office and on the town web site no less than forty-eight (48) hours in advance of the public hearing.
- NOTE: You may also contact the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call Central Regional (508)-792-7650



TOWN OF BELLINGHAM

Assessment Administration Office Municipal Center - 10 Mechanic Street Bellingham, Massachusetts 02019 508-657-2862 * FAX 508-657-2894 Email: <u>Assessors@bellinghamma.org</u> www.bellinghamma.org

October 31, 2023

THE PROPERTY OWNERS LISTED HEREIN ARE THE KNOWN ABUTTERS TO THE PROPERTY OWNERS:

100 feet for Conservation Commission Map 32 Parcel 9

Property Address(es): Maple Street Bellingham MA 02019

Owner(s) of Record:

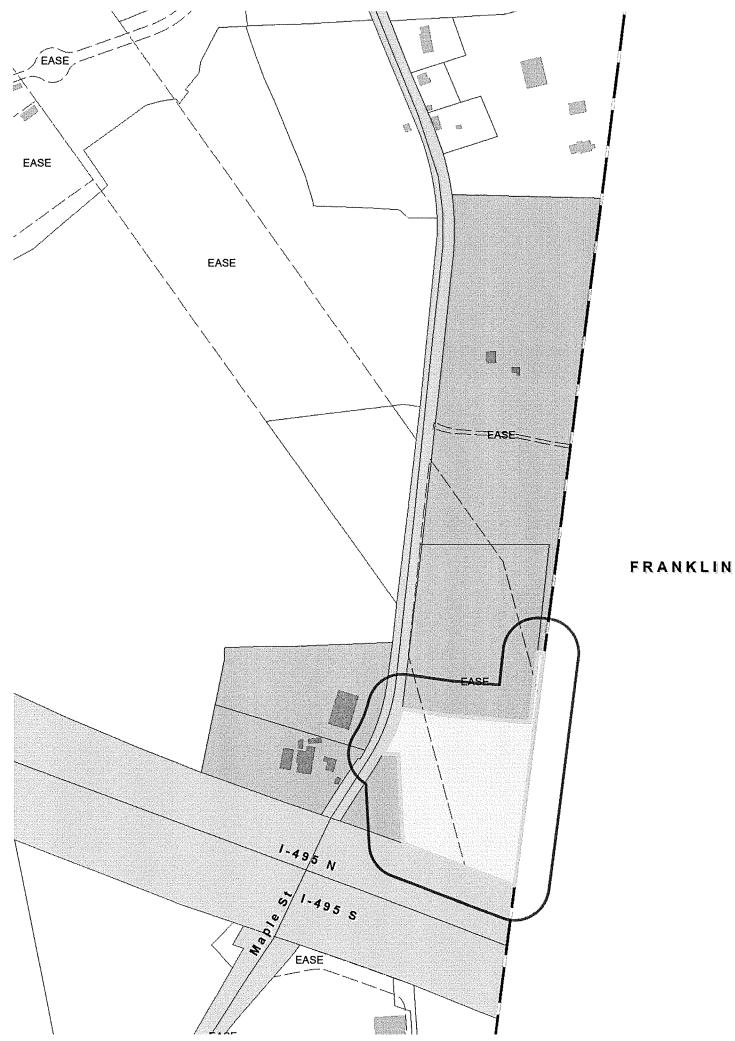
Maple Gate Realty Trust 160 Maple Street Bellingham, MA 02019

Requested by:

LEC Environmental 380 Lowell Street - Suite 101 Wakefield, MA 01880

ABUTTERS ATTACHED

Certified: <u>Elizabeth Cournoyer</u>, Assessment Director





100 foot Abutters List Report Bellingham, MA October 31, 2023

Subject Property:

Parcel Number: CAMA Number: Property Address:	0032-0009-0000 0032-0009-0000 MAPLE ST	Mailing Address:	MAPLE GATE REALTY TRUST SMITH, ROBERT E, TR 160 MAPLE ST BELLINGHAM, MA 02019
Abutters:			
Parcel Number: CAMA Number: Property Address:	0032-0007-0000 0032-0007-0000 186 MAPLE ST	Mailing Address:	LMP PROPERTIES LLC ATTN RYAN LLC PO BOX 4900 SCOTTSDALE, AZ 85261-4900
Parcel Number: CAMA Number: Property Address:	0032-0008-0000 0032-0008-0000 MAPLE ST	Mailing Address:	N E POWER CO PROPERTY TAX DEPT 40 SYLVAN RD WALTHAM, MA 02451-2286
Parcel Number: CAMA Number: Property Address:	0032-0010-0000 0032-0010-0000 MAPLE ST	Mailing Address:	0 MAPLE STREET LLC 235 MAPLE ST BELLINGHAM, MA 02019
Parcel Number: CAMA Number: Property Address:	0032-003+-0000 0032-003+-0000 235 MAPLE ST	Mailing Address:	235 MAPLE REALTY TRUST JARED D LIBERTI-TR 235 MAPLE ST BELLINGHAM, MA 02019
Parcel Number: CAMA Number: Property Address:	0032-003A-0000 0032-003A-0000 231 MAPLE ST	Mailing Address:	179 MECHANIC ST REAL ESTATE TR SCOTT HOVEY - TR 231 MAPLE ST BELLINGHAM, MA 02019



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Notice of Intent Application

Solar Array – Parcel 3 Project 0 Maple Street Bellingham, Massachusetts November 9, 2023



1. Introduction

On behalf of the Applicant, Maple Street Solar, LLC, LEC Environmental Consultants, Inc., (LEC) is submitting this Notice of Intent (NOI) Application for the installation of an electrical line located at 0 Maple Street in Bellingham, Massachusetts. The electrical line would connect from the "Proposed Solar Array – Parcel 3 Project" located to the immediate east in Franklin to an existing pole on the west side of Main Street in Bellingham. Proposed work activities occur within the 100-foot Buffer Zone, 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 Bellingham Wetlands Protection Bylaw* (Chapter 235, *Bylaw*) and implementing *Regulations* (Chapter 247, *Bylaw Regulations*).

Details of the proposed project are depicted on the *Proposed Site Plan*, prepared by Bohler, dated October 4, 2023 (Attachment, provided under separate cover).

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 approximately $3.57\pm$ acre Project site is located east of Maple Street and north of Route 495, within the northeastern portion of Bellingham (Appendix A, Figures 1 and 2). A 325' wide New England Power Company easement with associated utility poles and overhead wires traverses the eastern half of the site. Undeveloped land borders the project site to the northwest, south, and southeast. Portions of the existing Maple Gate Golf Course are located east of the project, and an existing solar array is located to the northeast.

The proposed electrical line would connect to the "Solar Array - Parcel 3" Project, which is proposed within the southern half of the existing Maplegate Country Club property, in portions of Bellingham and Franklin. The existing Maple Gate Country Club property is proposed to be subdivided into three parcels: "Parcel 3" in Franklin is the location of the solar project associated with this NOI, while a separate solar project proposed in Parcel 1 was permitted with the Conservation Commission under MassDEP File # 159-1268.



Parcel 2, located between Parcels 1 and 3, has been designated for public Open Space purposes.

The project site for this NOI occurs within the northern portion of the subject property. Existing developed features include the maintained powerline corridor and a gravel access road in the eastern portions of the property. Undeveloped portions of the site consist of forested upland, Bordering Vegetated Wetlands (BVW), and an intermittent stream flowing southerly.

Vegetation within the forested upland portions of the project site include a canopy of eastern white pine (*Pinus strobus*), northern red oak (*Quercus rubra*), white oak (*Q. alba*), and 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 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*).

According to the Natural Resource Conservation Service (NRCS) Soil Survey (Web Soil Survey Norfolk and Suffolk Counties, Massachusetts, Version 17, September 3, 2021), the 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 ten-inch-thick topsoil (A-Horizon) with a soil matrix color 10 YR 2/2. The A-Horizon is directly underlain by a B-Horizon measuring up to 10 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, the *Field Indicators Guide*). 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), the site is located within a Zone X – "Area of Minimal Flood Hazard" (Appendix A, Figure 3). As a result, the site is not



mapped within the 100-year floodplain and does not contain Bordering Land Subject to Flooding (BLSF).

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.

3. Wetland Boundary Determination Methodology

LEC conducted site evaluations during February and March 2022 and May 30, 2023 to determine the extent of Wetland Resource Areas and delineate the boundaries in proximity to the proposed project area and portions of Bank.

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 Guide*, and the criteria set forth in 310 CMR 10.55. MassDEP Bordering Vegetated Wetland Determination Field Data Forms for representative plots taken adjacent to WF #380 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*. Bank boundaries were delineated with sequentially numbered blue surveyor's flagging tape and are depicted in the *Plan Set*.

4. Wetland Resource Areas

The Wetland Resource Areas associated with this NOI Application includes BVW and Bank of an Intermittent Stream.

RINDGE, NH

4.1 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.

A forested BVW occurs within the eastern half of the site and is associated with an intermittent stream channel flowing southerly. Vegetation within the forested BVW includes a dense canopy and sapling layer of red maple (*Acer rubrum*) and American elm (*Ulmus americana*). The shrub layer includes highbush blueberry (*Vaccinium corymbosum*), maleberry (*Lyonia logostrina*), winterberry (*Ilex verticillata*), 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*).

BVW in the eastern half of the site consists of a dense scrub-shrub community within the managed powerline corridor. Vegetation within the scrub-shrub wetlands includes glossy buckthorn (*Frangula alnus*), silky dogwood (*Cornus amomum*), sweet pepperbush, jewelweed (*Impatiens capensis*), sensitive fern, various sedges (*Carex* spp.) and rushes (*Juncus* spp.).

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 at the WF#380 sampling location 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 11-inch-thick organic layer (O-Horizon) with a mucky texture and a soil matrix color 10 YR 2/1. The organic layer was directly underlain by a loamy sand C-Horizon (subsoil) measuring between 3 inches thick with a soil matrix color of 10 YR 4/2. Redoximorphic features (10 YR 4/6) were common in this soil profile. This soil profile is considered 'hydric' in accordance with the *Handbook* and meets the criteria for *A2: Histic Epipedon*. MassDEP BVW Determination Forms were documented in the vicinity of wetland flag #380, and are provided in Appendix B.

4.2 Intermittent Stream

The current USGS map does not show any perennial or intermittent streams located within the site; however, LEC delineated the BVW bordering on an intermittent stream system that flows southerly through the west-central portions of the property.

According to the *Act Regulations* [310 CMR 10.58(2)(a)(1)(b and c)], b. *A river or* stream shown as intermittent or not shown on the current USGS map or more recent map provided by the Department, that has a watershed size greater than or equal to one square mile, is perennial. c. A stream shown as intermittent or not shown on the current USGS map or more recent map provided by the Department, that has a watershed size less than one square mile, is intermittent unless: i. The stream has a watershed size of at least ½ (0.50) square mile and has a predicted flow rate greater than or equal to 0.01 cubic feet per second at the 99% flow duration using the USGS Stream Stats method. The issuing authority shall find such streams to be perennial...

To confirm the intermittent status of observed onsite stream, LEC utilized the USGS Water Resources Web Application StreamStats, to determine if the delineated stream was identified and mapped. If mapped, LEC would be able to calculate the contributing watershed area and 99% flow duration from a point located on the southern property boundary. The stream was not mapped on the StreamStats program, so it is presumed to have a de minimis watershed area. As such, LEC confirms the intermittent status of the stream. LEC delineated the Bank in a portion of the stream in the vicinity of the Project, as described below.

4.3 Bank

According to the *Act Regulations*, Bank is the *first observable break in slope or the mean annual flood level, whichever is lower. The lower boundary of a Bank is the mean annual low flow level* [310 CMR 10.54 (2) (c)].

According to the Bylaw Regulations, §247-4, Bank is the portion of the land surface which normally abuts and confines a water body, often between the mean annual low flow level and the first observable break in slope or the mean annual flood level, whichever is lower.

The stream has a well-defined main channel as it flows southward through the delineated area, with channel depth measuring approximately 12 to 24 inches and a stream width ranging from four to six feet. The stream's substrate is comprised of muck, sand, gravel, and stones.

4.4 Buffer Zone Resource Area (Bylaw Only)

According to the Bylaw Regulations, §247-4 (Definitions), Buffer Zone is the adjacent upland resource area 100 feet horizontally lateral from the boundary of any resource areas identified in §247-2A(1) through (8).

The 100-foot Buffer Zone extends from the outermost resource area (BVW) and contains the adjacent forested and scrub-shrub upland areas and previously disturbed areas on the eastern side of Maple Street and associated with the powerline corridor and gravel maintenance road. Undeveloped portions of the buffer zone consist of forested upland habitat consisting of White Pine -Oak Forest cover type.

5. Proposed Project

The Project subject to this NOI consists of the installation of an approximately 400 linear-foot underground electrical conduit from a proposed solar array in Franklin to an existing pole on the west side of Maple Street in Bellingham. The electrical line will connect the "Proposed Solar Array – Parcel 3" Project in Franklin to the existing pole. The Solar Array – Parcel 3 Project consists of the construction of a 15,000 KW solar field, along with associated gravel access drives, utilities, and storm water management features.

At the western end of the conduit, east of Maple Street, an area of clearing totaling 1,173 square feet will take place within the 25-50 foot portion of Buffer Zone, required for access and connection to aboveground poles, installation of a small gravel parking area, two Dip Poles and a 4-foot by 6-foot concrete pad. No work will take place within the 0-25 foot Buffer Zone. See Plan Sheets C-202, C-205 and C-305 for details of the activity.

5.1 Jack and Bore Methodology

The installation of the electrical conduit will be implemented through a jack and bore method to reduce the impact to wetlands and vegetation. This will entail a 10-foot wide by 30-foot long excavated sending pit to be installed within the 25-50 foot Buffer Zone on the Maple Street frontage side of the site. On the other side of the wetland crossing, within the Franklin lot approximately 400 feet away, a receiving pit of equal dimensions will be set up. The jack and bore machinery will drive a steel casing approximately 8-10 feet in depth beneath the wetland vegetation. Once the steel pipe is in place, the electrical conduits will be thread through the casing, making the connection from the Solar Development side in Franklin to the recloser pad located on the Bellingham side. The

Page 6 of 9



aboveground disturbance will be limited to the areas of the sending and receiving pits and the wetland vegetation will remain untouched within this area. The location of the crossing and the location of the pits have been depicted on the Demolition Plans within the Proposed Site Plan Documents, refer to sheets C-202 and C-205. Upon completion of the installation, the jack and bore equipment will be removed and the pits will be backfilled with soil and gravel. The surface vegetation will be reseeded with Conservation Seed Mix and left to re-vegetate with native plant species.

6. Mitigation Measures

The project has been designed with mitigation measures to ensure compliance with the applicable Wetland Resource Area performance standards and protection of the interests of the *Act* and *Bylaw* during and after construction. The mitigation measures include perimeter erosion and sedimentation control.

6.1 Erosion and Sedimentation Control

An erosion and sedimentation control program will be implemented to protect the adjacent Wetland Resource Areas from sedimentation during the proposed construction activities. As shown on *Site Plan* Sheet C-605, and 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.

7. Regulatory Compliance

There is no proposed alteration to BVW or Bank resource areas. The *Act* and its implementing *Regulations* do not set forth specific performance standards for work within Buffer Zone. Section 247-24.B. of the *Bylaw Regulations* provides performance standards for work within the Buffer Zone. The pertinent performance standards and an explanation of the proposed project's compliance with these standards follows.

WAKEFIELD, MA

RINDGE, NH



7.1 Buffer Zone

The Project will result in permanent alteration of only 1,173 square feet of Buffer Zone, between 25 and 50 feet from the nearest wetland resource area. The Project has avoided alteration to the 25-foot No Disturbance Zone. See Plan Sheets C-202, C-205 and C-305 for details of the activity.

7.2 Alternatives Analysis

According to Section 247-11.H. of the Bylaw Regulations, Evaluation of alternatives. The applicant shall demonstrate that there are no practicable and substantially equivalent economic alternatives within the scope of alternatives with less adverse effects on the interests identified. The applicant shall submit information to describe sites and the work both for the proposed location and alternative site locations and configurations sufficient for a determination by the Commission. The level of detail of information shall be commensurate with the scope of the project and the practicability of alternatives. Where an applicant identifies an alternative which can be summarily demonstrated to be not practicable, an evaluation is not required.

(1) The purpose of evaluating project alternatives is to locate activities so that impacts to the resource area are avoided to the extent practicable. Projects within the scope of alternatives must be evaluated to determine whether any are practicable. As much of a project as is practicable shall be sited outside the resource area.

(2) The Commission shall not approve alternatives which result in greater or substantially equivalent adverse impacts. If an alternative would result in no identifiable difference in impact, the issuing authority shall eliminate the alternative. If there would be no less adverse effects on the interests identified, the proposed project rather than a practicable alternative shall be allowed, but the criteria for determining no significant adverse impact must still be met. If there is a practicable and substantially equivalent economic alternative with less adverse effects, the proposed work may be denied, or the applicant may either withdraw the notice of intent, or the applicant may receive an order of conditions for the alternative (provided the applicant submitted sufficient information and the application materials on the alternative in the notice of intent). While the determination of no practical alternatives may result in the Commission's approval of work in a resource area or buffer zone, such a determination is not guarantee of approval and the Commission shall retain the power to deny or condition such work.

The underground installation methodology of the electrical conduit was chosen in order to minimize impacts to resource areas and Buffer Zone to the greatest extent practicable.

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Any alternative designs would require the use of overhead wires which would require extensive tree clearing for pole installation and access, permanent ongoing maintenance of the corridor, including pruning and/or additional tree removal, and temporary wetland alterations for vehicle access.

8. Summary

On behalf of the Applicant, Maple Street Solar, LLC, LEC Environmental Consultants, Inc., (LEC) is submitting this NOI Application for the proposed installation of an approximately 400 linear-foot underground electrical conduit within the 100-foot Buffer Zone to BVW and Bank resource areas. The electrical line will connect the "Proposed Solar Array – Parcel 3" Project in Franklin to an existing pole in Bellingham on the west side of Maple Street. BVW and Bank are jurisdictional Wetland Resource Areas protectable area under the *Massachusetts Wetlands Protection Act* (*WPA*; M.G.L. c. 131, § 40) and its implementing Regulations (310 CMR 10.00); and the *Town of Bellingham Wetlands Protection Bylaw* (Chapter 235, *Bylaw*) and implementing *Regulations* (Chapter 247, *Bylaw Regulations*). The proposed project has been designed to protect the interests and values of the BVW, Bank and Buffer Zone in compliance with the WPA and *Bylaw*.

RINDGE, NH



Federal Emergency Management Agency Flood Insurance Rate Map, Town of Bellingham (*Community Panel 25021C0302E*), 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, <u>http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.</u>

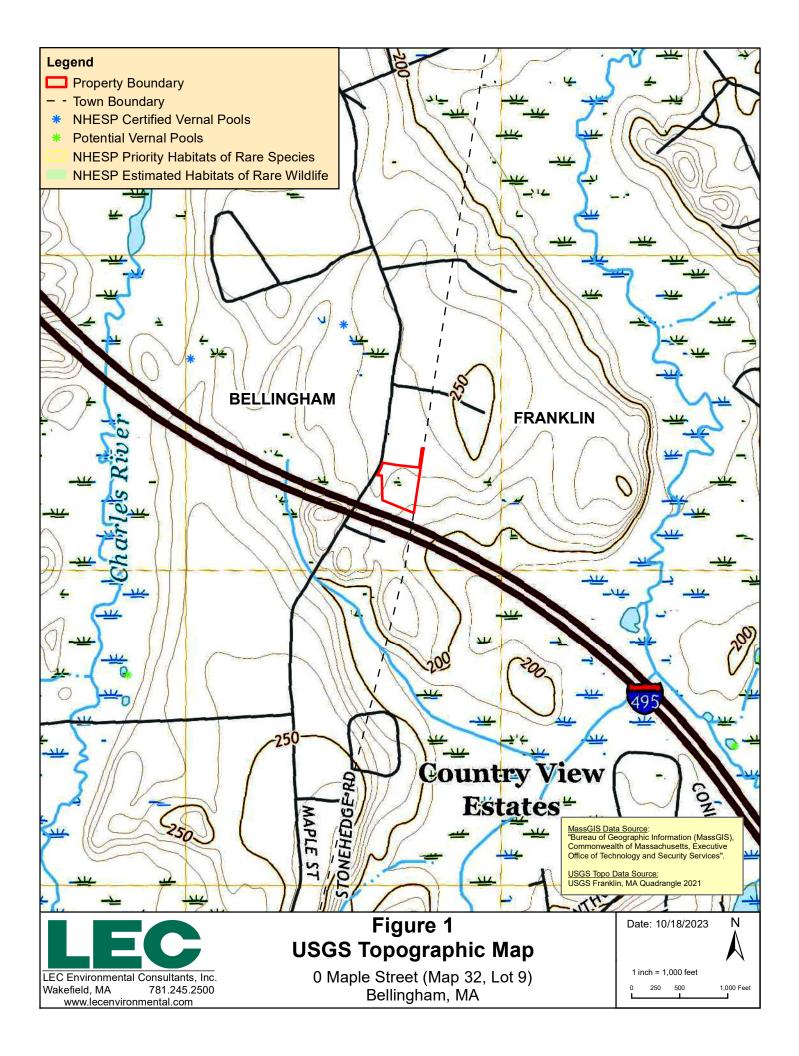
Massachusetts Wetlands Protection Act (M.G.L. c. 131, §. 40) and its implementing *Regulations* (310 CMR 10.00), <u>www.state.ma.us/dep</u>.

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 Bellingham Wetlands Protection Bylaw and Regulations https://www.bellinghamma.org/conservation-commission/pages/filing-under-wetlands

Appendix A

Locus Maps Figure 1: USGS Topographic Map Figure 2: Orthophoto Map Figure 3: FEMA FIRMette

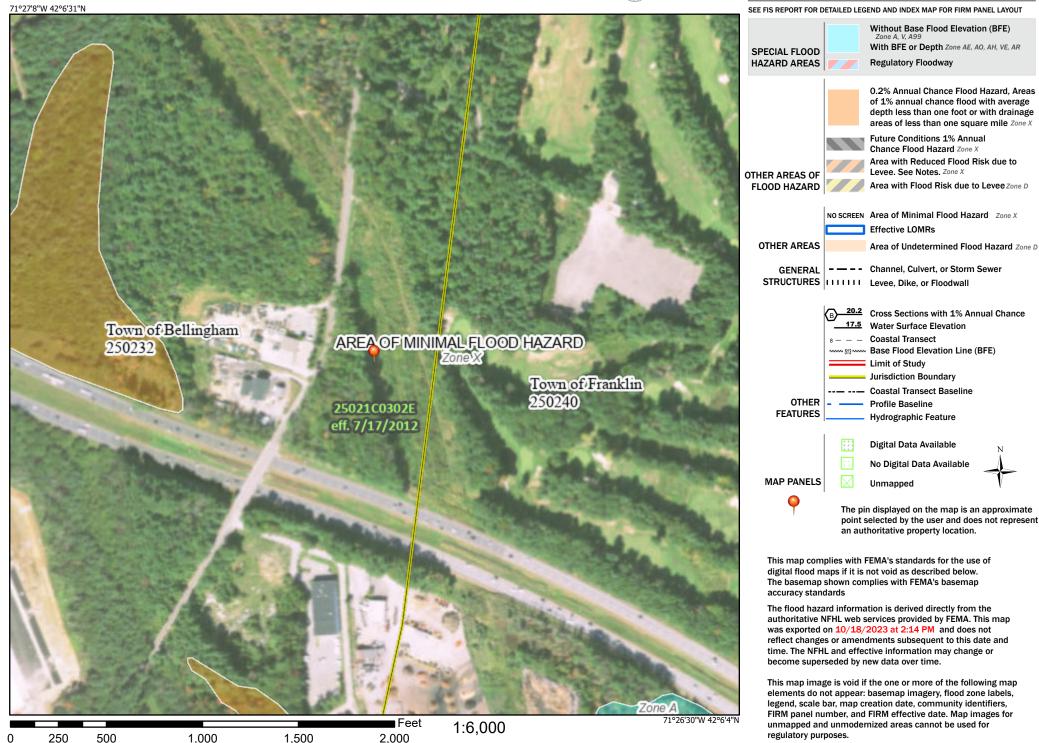




National Flood Hazard Layer FIRMette



Legend



Basemap Imagery Source: USGS National Map 2023

Appendix B

MassDEP Bordering Vegetated Wetland Determination Data Forms

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 160 Maple Street	City/Town: Franklin	Sampling Date: <u>3/23/2022</u>
Applicant/Owner:	Sampling	Point or Zone: Upgradient of WF #380
Investigator(s): Dan Wells		Longitude: not recorded
Soil Map Unit Name: Scituate fine sandy loam	, 3-8% slopes, extremely stonyNWI or DE	P Classification:
Are climatic/hydrologic conditions on the	site typical for this time of year? Yes	✓ No (If no, explain in Remarks)
Are Vegetation, Soil, or	Hydrology significantly disturbed?	(If yes, explain in Remarks)
Are Vegetation, Soil, or	Hydrology naturally problematic?	(If yes, explain in Remarks)
SUMMARY OF FINDINGS – Attach site m	ap and photograph log showing sampling	g locations, transects, etc.
Wetland vegetation criterion met?	Yes No 🖌 Is the Samp	
Hydric Soils criterion met?	Yes No 🗸 within a Wo	etland?
Wetlands hydrology present?	YesNo 🖌	
Remarks, Photo Details, Flagging, etc.:		
HYDROLOGY		
Field Observations:		
Surface Water Present?	Yes No 🖌 Dep	oth (inches)
Water Table Present?	Yes No 🗹 Dep	oth (inches)
Saturation Present (including capillary fr	inge)? Yes No 🖌 Dep	oth (inches)
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands	Indicators that can be Reliable with	Indicators of the Influence of Water
Hydrology	Proper Interpretation	
Water-stained leaves	Hydrological records	Direct observation of inundation
Evidence of aquatic fauna	Free water in a soil test hole	Drainage patterns
Iron deposits	Saturated soil	Drift lines
Algal mats or crusts	Water marks	Scoured areas
Oxidized rhizospheres/pore	Moss trim lines	Sediment deposits
Thin muck surfaces	Presence of reduced iron	Surface soil cracks
Plants with air-filled tissue	Woody plants with adventitious	Sparsely vegetated concave
(aerenchyma)	roots	surface
Plants with polymorphic leaves	Trees with shallow root systems	Microtopographic relief
Plants with floating leaves	Woody plants with enlarged	Geographic position (depression,
Hydrogen sulfide odor	lenticels	toe of slope, fringing lowland
Remarks (describe recorded data from s	tream gauge, monitoring well, aerial phot	tos, 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.

Trop Stratum	Plat cizo 30 feet radius				
Tree Stratum	Plot size 30 feet radius			5	
		Indicator	Absolute	Dominant?	Wetland
	Colontific nome	Status	% Cover	(yes/no)	Indictor?
Common name 1. White oak	Scientific name		00 F	Na	(yes/no)
	Quercus alba	FACU	20.5	No	No
2. Red oak	Quercus rubra	FACU	63.0	Yes	No
3. White pine	Pinus strobus	FACU	20.5	No	No
4.				-	
5.					
6.					
7.					
8.					
9.					
		<u>104.0</u> = T	otal Cover		
Shrub/Sapling Stratum	Plot size 15 foot radius				
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. Red maple	Acer rubrum	FAC	3.0	Yes	Yes
2. White pine	Pinus strobus	FACU	3.0	Yes	No
3. Witch hazel	Hamamelis virginiana	FACU	3.0	Yes	No
4. Highbush blueberry	Vaccinium corymbosum	FACW	3.0	Yes	Yes
5.					-
6.					
7.					
8.			·	<u> </u>	
9.				<u> </u>	
		12.0 = T	otal Cover	I	
Herb Stratum	Plot size ⁵ foot radius				
		Indicator	Abcoluto	Dominant?	Matland
		Indicator	Absolute	Dominant?	Wetland
Common name	Scientific name	Status	% Cover	(yes/no)	Indictor? (yes/no)
Common name 1. Princess-pine	Dendrolycopodium obscurum	FACU	3.0	Yes	No
2.		FACU	3.0	165	No
3.					No
4.					No
5.			 		No _
					No
6.					
7.					No
8.					No
9.			<u> </u>		No
10.			.		No
11.					No
12.			and C		No
		<u>3.0</u> = T	otal Cover		

VEGETATION – Use both common and scientific names of plants.

VEGETATION – continued.

Woody Vine Stratum	Plot size					
			Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor?
Common name	Scientific name					(yes/no)
1.						
2.						
3.						Γ
4.						Γ
		0.0) = T	otal Cover		

Rapid Test: Do	all dominant species	DBL or FACW?	Yes No 🗸		
Dominance Test:	Number of	Number of dominant species that are		Do wetland indicator plants make up	
	dominant species	wetland indicator plants		≥ 50% of dominant plant species?	
	5	2		Yes No 🖌	
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result	
	OBL species		X 1	= 0.00	
	FACW species		X 2	= 0.00	
	FAC species		Х З	= 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 \leq 3.0?	
		0.00		Yes No	
Wetland vegetation	n criterion met?	Yes No			

Definitions of Vegetation Strata

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

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)										
Depth	Matrix			Redox Fe		1				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Locatio	on ²	Texture	Remarks	
2.00	10YR 2/2	100.0%		0.0%				sandy loam		
8.00 4.00	10YR 3/3	100.0%		0.0%				sandy loam		
4.00	10YR 3/6	100.0% 0.0%		0.0%				fine 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%						
¹ 7 0.0		0.0%		0.0%			2.			
	centration, D=Dep			x, MS=M	lasked San	d Grains	T		Lining, M=Matrix	
	ndicators (Check	all that				(22)	Inc	-	oblematic Hydric Soils	
Histosol					low Surfa	. ,	╞	2 cm Muck (-	
	pipedon (A2)				rface (S9)		╞	- ·	Peat or Peat (S3)	
Black His					y Mineral		╠═	Dark Surface		
	en Sulfide (A4)				d Matrix	(F2)		Polyvalue Below Surface (S8)		
	d Layers (A5)				trix (F3)			Thin Dark Surface (S9)		
Depleted Below Dark Surface (A11) Redox Dark Surface (F7)						Iron-Manganese Masses (F12)				
Thick Dark Surface (A12) Depleted Dark Surface (F8)						Mesic Spodic (A17)				
Sandy N	lucky Mineral (S	1)						Red Parent N	Material (F21)	
Sandy G	leyed Matrix (S4)						Very Shallow	v Dark Surface (TF12)	
Sandy Redox (S5) Other (Include Explanation in							de Explanation in			
Stripped Matrix (S6) Remarks)										
Dark Surface (S7)										
Restrictive Layer (if observed) Type: Depth (inches):										
Remarks:										
Hydric Soils	criterion met?		Yes	No	\checkmark					

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 160 Maple Street	City/Town: Franklin	Sampling Date: <u>3/23/2023</u>						
Applicant/Owner:	Sampling	Point or Zone: Downgradient of WF #380						
Investigator(s): Dan Wells	Latitude ,	/ Longitude: not recorded						
Soil Map Unit Name: Freetown muck, 0 to 1 pe	rcent slopesNWI or D	EP 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 I	Are Vegetation, Soil, or Hydrology significantly disturbed? (If yes, explain in Remarks)							
Are Vegetation, Soil, or I	Hydrology naturally problematic?	? (If yes, explain in Remarks)						
SUMMARY OF FINDINGS – Attach site ma	p and photograph log showing samplin	g locations, transects, etc.						
Wetland vegetation criterion met? Hydric Soils criterion met? Wetlands hydrology present?	Yes ✓ No Is the Sam Yes ✓ No within a W Yes ✓ No							
Remarks, Photo Details, Flagging, etc.:								
HYDROLOGY								
Field Observations:								
Surface Water Present?	Yes No 🖌 De	pth (inches)						
Water Table Present?	Yes 🗹 No 🦲 De	pth (inches) ^{2.00}						
Saturation Present (including capillary fr	inge)? Yes 🖌 No 📃 De	pth (inches)_0.00						
Wetland Hydrology Indicators								
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water						
 ✓ Water-stained leaves Evidence of aquatic fauna Iron deposits Algal mats or crusts Oxidized rhizospheres/pore linings Thin muck surfaces Plants with air-filled tissue (aerenchyma) Plants with polymorphic leaves Plants with floating leaves 	 Hydrological records Free water in a soil test hole Saturated soil Water marks Moss trim lines Presence of reduced iron Woody plants with adventitious roots Trees with shallow root systems Woody plants with enlarged 	 Direct observation of inundation Drainage patterns Drift lines Scoured areas Sediment deposits Surface soil cracks Sparsely vegetated concave surface Microtopographic relief Geographic position (depression, 						
Hydrogen sulfide odor lenticels toe of slope, fringing lowland								
Remarks (describe recorded data from s	ream gauge, monitoring well, aerial pho	otos, 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 a	and scientific	names	of plants
--	-----------------------	----------	----------------	-------	-----------

Tree Stratum Plo	ot size 30 foot radius				
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name			., . ,	(yes/no)
1. Red maple	Acer rubrum	FAC	38.0	Yes	Yes
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
	1	<u>38.0</u> = T	otal Cover	1	
Shrub/Copling Stratum	ot size 15 foot radius				
Shrub/Sapling Stratum Plo					
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name		40 5		_(yes/no) _
1. Highbush blueberry	Vaccinium corymbosum	FACW	10.5	Yes	Yes
2. Maleberry	Lyonia ligostrina	FACW	20.5	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
		<u>31.0</u> = T	otal Cover		
Herb Stratum Plo	ot size 5 foot radius				
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name			() . ,	(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.			ļ		
11.					
12.					-
		6.0 = T	otal Cover	<u> </u>	<u> </u>

VEGETATION – continued.

Woody Vine Stratum	Plot size 30 feet radius				
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor?
Common name	Scientific name			() . ,	(yes/no)
1. Greenbrier	Smilax rotundifolia	FAC	10.5	Yes	Yes
2.					
3.					
4.					
		<u> 10.5 </u>	otal Cover		

Rapid Test: Do	all dominant species	DBL or FACW?	Yes No 🗸		
Dominance Test:	Number of	Number of dominant species that are		Do wetland indicator plants make up	
	dominant species	wetland indicator plants		≥ 50% of dominant plant species?	
	6	6		Yes _ 🖌 _ No	
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result	
	OBL species		X 1	= 0.00	
	FACW species		X 2	= 0.00	
	FAC species		Х З	= 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 \leq 3.0?	
		0.00		YesNo	
Wetland vegetation	n criterion met?	Yes No			

Definitions of Vegetation Strata

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

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)											
Depth Matrix					Redox Features						
(inches)	Color (moist)	%	Color (moist)		%	Type ¹	Locatio	on ²	Texture	Remarks	
11.00	10YR 2/1	100.0%			0.0%	D 14			muck		
3.00	10YR 4/2	70.0%	10YR 4/6		30.0%	RM	М		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%						
	contration D-Don	0.0%	M-Roduce	d Matri	0.0%	lasked Sar	d Grains	210	cation: PI -Pore	Lining M-Matrix	
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											
Histosol (A1) Polyvalue Below Surface (S8)									2 cm Muck (A10)		
	Histic Epipedon (A2) Thin Dark Surface (S9)								5 cm Mucky Peat or Peat (S3)		
Black Histic (A3)								Dark Surface (S7)			
Hydrogen Sulfide (A4)								Polyvalue Below Surface (S8)			
Stratifie	d Layers (A5)] Depl	eted Ma	itrix (F3)			Thin Dark Surface (S9)		
Depleted Below Dark Surface (A11) Redox Dark Surface						Surface (F	7)	Iron-Manganese Masses (F12)			
Thick Dark Surface (A12) Depleted Dark Surface (F8)								Mesic Spodic (A17)			
Sandy Mucky Mineral (S1)									Red Parent Material (F21)		
Sandy Gleyed Matrix (S4)									Very Shallow Dark Surface (TF12)		
Sandy Redox (S5)								Other (Include Explanation in			
Stripped Matrix (S6)									Remarks)		
	rface (S7)										
Restrictive Layer (if observed) Type: Depth (inches):											
Remarks:											
Hydric Soils criterion met? Yes No											