



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 4A – Abbreviated Notice of
Resource Area Delineation
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

City/Town

A. General Information

1. Project Location (**Note:** electronic filers will click on button for GIS locator):

a. Street Address

b. City/Town

c. Zip Code

Latitude and Longitude:

d. Latitude

e. Longitude

f. Assessors Map/Plat Number

g. Parcel /Lot Number

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



2. Applicant:

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

3. Property owner (if different from applicant):

Check if more than one owner (attach additional sheet with names and contact information)

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

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

4. Representative (if any):

a. Contact Person First Name

b. Contact Person Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

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

a. Total Fee Paid

b. State Fee Paid

c. City/Town Fee Paid

Fees will be calculated for online users.



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**WPA Form 4A – Abbreviated Notice of
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 READING WETLAND PROTECTION BYLAWS SECTION

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B. Area(s) Delineated

1. Bordering Vegetated Wetland (BVW) _____
 Linear Feet of Boundary Delineated
2. Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:
 - a. MassDEP BVW Field Data Form (attached)
 - b. Other Methods for Determining the BVW boundary (attach documentation):
 1. 50% or more wetland indicator plants
 2. Saturated/inundated conditions exist
 3. Groundwater indicators
 4. Direct observation
 5. Hydric soil indicators
 6. Credible evidence of conditions prior to disturbance
3. Indicate any other resource area boundaries that are delineated:

a. Resource Area	b. Linear Feet Delineated
c. Resource Area	d. Linear Feet Delineated

C. Additional Information

Applicants must include the following plans with this Abbreviated Notice of Resource Area Delineation. 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. ANRAD (Delineation Plans only)
2. 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.)
3. Plans identifying the boundaries of the Bordering Vegetated Wetlands (BVW) (and/or other resource areas, if applicable).
4. List the titles and final revision dates for all plans and other materials submitted with this Abbreviated Notice of Resource Area Delineation.

D. Fees



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The fees for work proposed under each Abbreviated Notice of Resource Area Delineation must be calculated and submitted to the Conservation Commission and the Department (see Instructions and Wetland Fee Transmittal Form).

- 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 the attached Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name

E. Signatures

I certify under the penalties of perjury that the foregoing Abbreviated Notice of Resource Area Delineation and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I



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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 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.

I hereby grant permission, to the Agent or member of the Conservation Commission and the Department of Environmental Protection, to enter and inspect the area subject to this Notice at reasonable hours to evaluate the wetland resource boundaries subject to this Notice, and to require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

I acknowledge that failure to comply with these certification requirements is grounds for the Conservation Commission or the Department to take enforcement action.

Signed by:
Angelo Scippa
Signature ID: 7B4BD447D46B479
William R. Harper
dotloop verified
02/03/25 11:41 AM EST
KGSY-ARTT-OE43-IMTH

1/30/2025

2. Date

4. Date

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; two copies of the ANRAD Wetland Fee Transmittal Form; and the city/town fee payment must be sent to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; one copy of the ANRAD Wetland Fee Transmittal Form; and a copy of the state fee payment must be sent to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery. (E-filers may submit these electronically.)

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
ANRAD Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
READING WETLAND PROTECTION BYLAWS SECTION

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:

_____	_____
a. Street Address	b. City/Town
_____	_____
c. Fee amount	d. Check number

2. Applicant:

_____	_____	_____
a. First Name	b. Last Name	c. Company

d. Mailing Address		

_____	_____	_____
e. City/Town	f. State	g. Zip Code

h. Phone Number		

3. Property Owner (if different):

_____	_____	_____
a. First Name	b. Last Name	c. Company

d. Mailing Address		

_____	_____	_____
e. City/Town	f. State	g. Zip Code

h. Phone Number		

B. Fees

The fee is calculated as follows for each Resource Area Delineation included in the ANRAD (check applicable project type). The maximum fee for each ANRAD, regardless of the number of Resource Area Delineations, is \$200 activities associated with a single-family house and \$2,000 for any other activity.

Bordering Vegetated Wetland Delineation Fee:

1. <input type="checkbox"/>	single family house project	_____	x \$2.00 =	_____
		a. feet of BVW		b. Fee for BVW
2. <input type="checkbox"/>	all other projects	_____	x \$2.00 =	_____
		a. feet of BVW		b. Fee for BVW

Other Resource Area (e.g., bank, riverfront area, etc.):

3. <input type="checkbox"/>	single family house project	_____	x \$2.00 =	_____
		a. linear feet		b. Fee
4. <input type="checkbox"/>	all other projects	_____	x \$2.00 =	_____
		a. linear feet		b. Fee

Total Fee for all Resource Areas: _____
 Fee

State share of filing fee: _____
 5. 1/2 of total fee **less** \$12.50

City/Town share of filing fee: _____
 6. 1/2 of total fee **plus** \$12.50

Online users: check box if fee exempt.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

ANRAD Wetland Fee Transmittal Form

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

READING WETLAND PROTECTION BYLAWS SECTION

C. Submittal Requirements

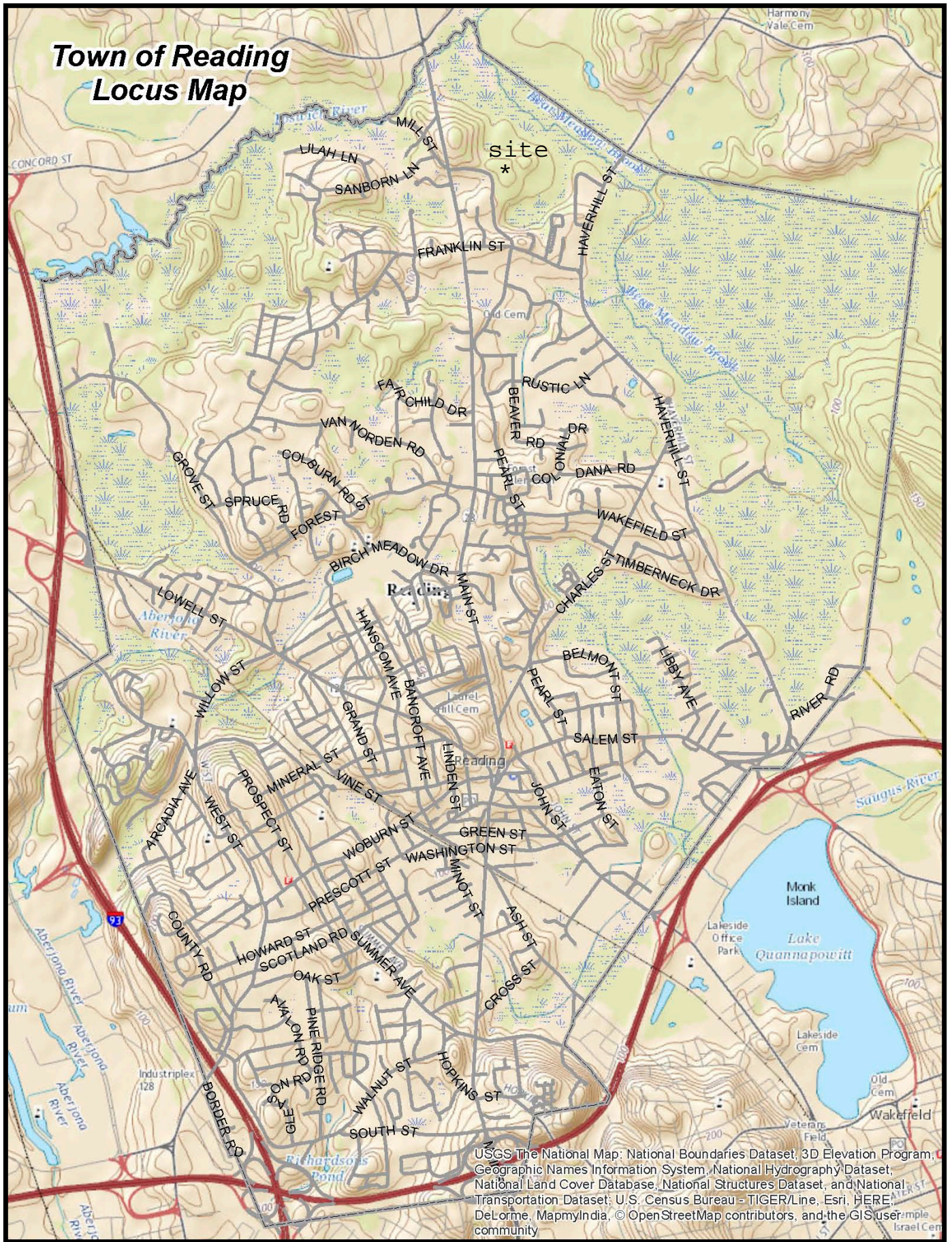
- a.) Send a copy of this form, with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts, to:

Department of Environmental Protection
Box 4062
Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Abbreviated Notice of Resource Area Delineation; a **copy** of this form; and the city/town fee payment.
- c.) **To DEP Regional Office:** Send one copy of the Abbreviated Notice of Resource Area Delineation (and any additional documentation required as part of a Simplified Review Buffer Zone Project); a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

Reading Wetlands Protection Bylaw Fee Calculation Form

Type of Activity	NOI Filing Fee	Calculated Fee
A. Each addition to or accessory use activity Associated with an existing single-family or Multi-family residential dwelling, including but not limited to driveways, sheds, swimming pools, athletic courts, additions to existing houses, grading, and landscaping	\$125.00 plus all applicable fees listed in lines F through K	
B. Each new single-family dwelling, including associated driveway, utilities, grading, landscaping, and drainage structures	\$600.00 plus all applicable fees listed in lines F through K	
C. Each new multi-family dwelling	\$600.00 plus \$125.00 per unit located in any Resource Area or Buffer Zone, plus all applicable fees listed in lines F through K	
D. Each subdivision roadway, or other roadway, or driveway (other than for a single-family dwelling), and all associated drainage structures, utilities, grading, curbing, landscaping, and other associated work exclusive of dwellings	\$1,000.00 plus \$600.00 per house, plus all applicable fees listed in lines F through K	
E. Each commercial, industrial, institutional or other non-residential project	\$1,000.00 , plus all applicable fees listed in lines F through K	
F. Boundary delineation for any Resource Area	\$1.25 per linear foot of Resource Area boundary, up to a maximum of \$125 for a single-family lot and \$1,250 for any other lot.	\$1 , 221 . 25
G. Temporary and /or permanent alteration of land within the Buffer Zone	\$1.25 per square foot of Buffer Zone altered for any temporary or permanent alteration within 25 feet of a Resource Area or any permanent structure within 35 feet of a Resource Area	
H. Work in Floodplain	\$1.25 per square foot of Floodplain temporarily or permanently altered outside of any other Resource Area and Buffer Zone	
I. Work in Vernal Pool habitat	\$11.00 per square foot of Vernal Pool habitat temporarily or permanently altered.	
J. Work in Freshwater Wetland, Wet Meadow, Bog, Swamp, Marsh, Creek, River, Stream, Pond, Lake, Land Under Waterbody	\$11.00 per square foot of Resource Area temporarily or permanently altered	
K. Work in Bank	\$11.00 per linear foot of Bank temporarily or permanently altered	
	Total Fee Calculated	\$ <u>1 , 221 . 25</u>



AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act, M.G.L., c.131, s.40 and Reading General Bylaws, Section 7.1

(To be submitted to the Conservation Commission when filing a Notice of Intent or Abbreviated Notice of Resource Area Delineation or Request for Determination of Applicability)

I, _____(Name), hereby certify under the pains and penalties of perjury that on _____(Date), I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws, c.131, s.40, and the **DEP Guide to Abutter Notification** dated April 8, 1994, and Reading General Bylaws, Section 7.1 in connection with the following matter:

(Check the applicable form.)

_____ Notice of Intent

_____ Abbreviated Notice of Resource Area Delineation

_____ Request for Determination of Applicability

filed under M.G.L., c.131, s.40 and R.G.B., s.7.1 by

_____ (Applicant) with the Town of Reading

Conservation Commission on _____ (Date) for

property located at _____ (Location).

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

John D. Sullivan III

2-18-2025

Name

Date

TOWN OF READING

REQUEST FOR CERTIFIED ABUTTERS LIST

SUBJECT PROPERTY:

ADDRESS: 695 Pearl Street

Assessors' Map Number: 57 Lot Number: 7+64

APPLICANT/AGENT:

Name: Jack Sullivan (Engineer)

Address: 25 Clover Circle Reading, MA 01867

Telephone: 781-854-8644 Email: jacksull53@comcast.net

Board or Commission for which this request is made (check all that are applicable):

Community Planning and Development Commission:

- Site Plan Review
- Special Permit
- Subdivision

Conservation Commission:

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

Zoning Board of Appeals:

- Appeal
- Special Permit
- Variance

- Health Department
- Historic District Commission
- Historical Commission
- Other: _____

Brief description of request: To verify wetland boundaries on the site.

Applicant/Agent Signature:  Date: 1-13-2025

The Assessors' Office may require up to three weeks in order to process and approve this request.

Authorized Signature: _____ Date: _____

Must be signed by the Public Services Department



Patriot Properties

Readina

01/13/2025

2:24:34PM

Abutters List

Filter Used: DataProperty.AccountNumber in
(8351,8349,8348,8344,8338,8587,8413,8340,8591,8584,8485,8583,8339,8586,8585,8361,8360,8364,8343,8582,8354,8347,8478,8588,8355,8341,8580,8581,8589,8352,8590,8362..

**Reading
Abutters List**

Subject Parcel ID: 695 Pearl St Report

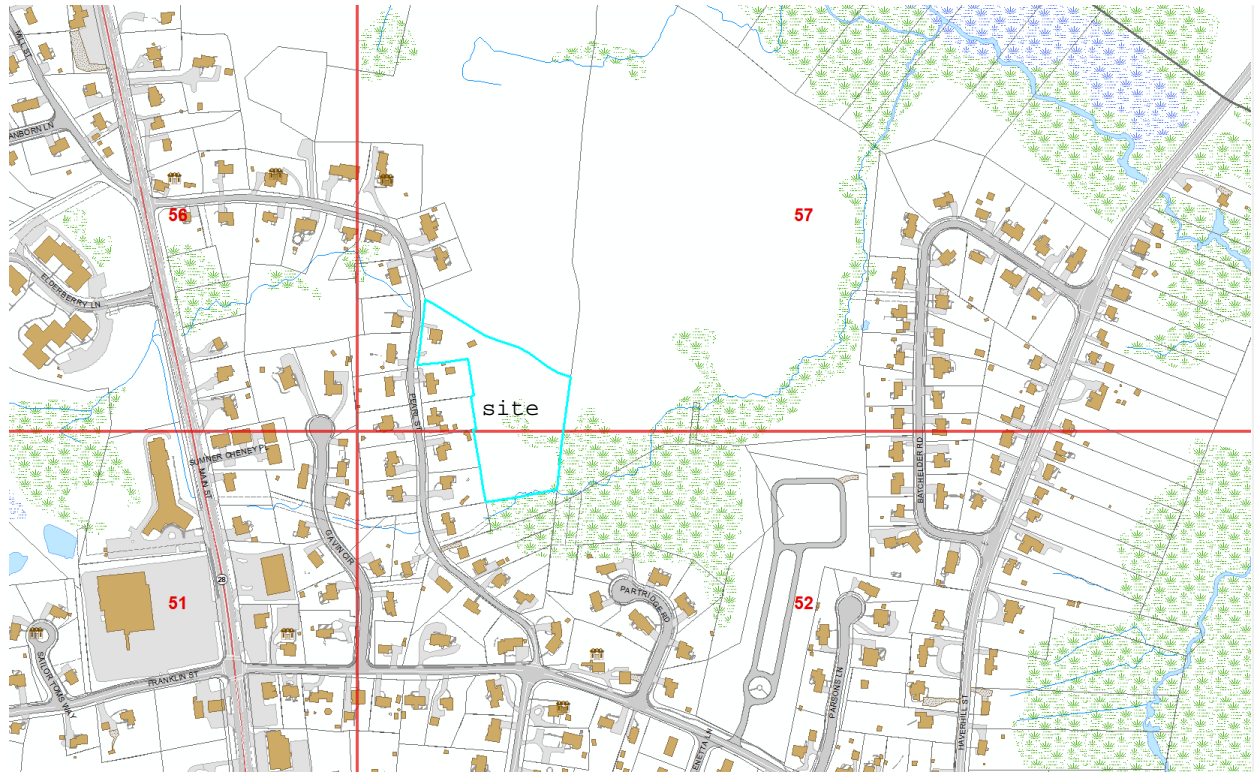
Subject Property Location:

ParcelID	Location	Owner	Co-Owner	Mailing Address	City	State	Zip
051.0-0000-0159.0	41 GAVIN CIR	MILLER ROBERT J TRUSTEE	REINOLD KATHLEEN TRUS	41 GAVIN CIRCLE	READING	MA	01867
052.0-0000-0050.0	629 PEARL ST	MORELLI MICHAEL A	MADDEN ANDREA M	629 PEARL ST	READING	MA	01867
052.0-0000-0051.0	633 PEARL ST	MROZINSKI JOHN J TRUSTEES ET	MROZINSKI LIVING TRUST	633 PEARL ST	READING	MA	01867
052.0-0000-0052.0	637 PEARL ST	SMITH STEVEN HARRISON	SMITH CAROLINE MARIE	637 PEARL ST	READING	MA	01867
052.0-0000-0053.0	641 PEARL ST	DIPIERRO PAULA C		641 PEARL ST	READING	MA	01867
052.0-0000-0055.0	636 PEARL ST	LALLY TARA M	BURGESS LACHLAN C	636 PEARL ST	READING	MA	01867-1144
052.0-0000-0056.0	640 PEARL ST	BLANCHARD CASEY	KENNEDY ALLISON JTROS	640 PEARL STREET	READING	MA	01867
052.0-0000-0059.0	664 PEARL ST	SCOUTEN BRIAN S		664 PEARL ST	READING	MA	01867
052.0-0000-0060.0	658 PEARL ST	KJELLMAN JON H ETAL TRUSTEES	JON AND PAMELA KJELLMAN	658 PEARL STREET	READING	MA	01867
052.0-0000-0061.0	17 GAVIN CIR	WILLIAMS BRADFORD G	WILLIAMS CARRIE A	17 GAVIN CIRCLE	READING	MA	01867
052.0-0000-0063.0	648 PEARL ST	TREMBLAY DANIEL	TREMBLAY ELIZABETH	648 PEARL ST	READING	MA	01867
052.0-0000-0064.0	PEARL ST REAR	HARPER RICHARD O	HARPER ARLENE H	4 ELM ST	TYNGSBORO	MA	01879
052.0-0000-0065.0	665 PEARL ST	WOODS EDWARD J	WOODS SANDRA J	665 PEARL STREET	READING	MA	01867
052.0-0000-0066.0	659 PEARL ST	FINNEGAN JEFFERY TRUSTEE	FINNEGAN FAMILY TRUST	659 PEARL STREET	READING	MA	01867
052.0-0000-0067.0	651 PEARL ST	GRIFFITH CHAD	SHORT KELSEY TYLER JTO	651 PEARL ST	READING	MA	01867
052.0-0000-0072.0	23 PARTRIDGE RD	ZUCCHERO, JOSEPH C		23 PARTRIDGE RD	READING	MA	01867
052.0-0000-0073.0	29 PARTRIDGE RD	MURPHY DANIEL B	NANCY HALEY MURPHY	29 PARTRIDGE RD	READING	MA	01867
052.0-0000-0074.0	30 PARTRIDGE RD	MARTIN LORRAINE M	CRAIG MARTIN	30 PARTRIDGE RD	READING	MA	01867
052.0-0000-0076.0	PARTRIDGE RD	TOWN OF READING	CONSERVATION	16 LOWELL STREET	READING	MA	01867
052.0-0000-0126.0	FRANKLIN ST	TOWN OF READING	CONSERVATION COMMISSI	16 LOWELL ST	READING	MA	01867
056.0-0000-0007.0	714 PEARL ST	GOODMAN WHITNEY B		714 PEARL ST	READING	MA	01867
056.0-0000-0014.0	49 GAVIN CIR	WOOLDRIDGE DAVID ALAN	WOOLDRIDGE WENDY LAUF	49 GAVIN CIR	READING	MA	01867
057.0-0000-0001.0	700 PEARL ST	KERRIGAN MARK A ETAL TRUSTE	KERRIGAN FAMILY REV TR	700 PEARL ST	READING	MA	01867
057.0-0000-0002.0	692 PEARL ST	LAVERS BRIAN		692 PEARL ST	READING	MA	01867
057.0-0000-0003.0	686 PEARL ST	BRANDT EDWARD	ALLEN COURTNEY	686 PEARL ST	READING	MA	01867
057.0-0000-0004.0	680 PEARL ST	VAN HORN JOHN E	ALLISON M VAN HORN	680 PEARL ST	READING	MA	01867
057.0-0000-0005.0	670 PEARL ST	CUNNINGHAM STEVEN E	KATHLEEN CUNNINGHAM	670 PEARL ST	READING	MA	01867
057.0-0000-0006.0	708 PEARL ST	HOFFMANN KATHERINE M TRUST	KATHERINEM HOFFMAN TR	708 PEARL ST	READING	MA	01867
057.0-0000-0007.0	695 PEARL ST	HARPER RICHARD O	HARPER ARLENE M	8 OAKDALE RD	WILMINGTON	MA	01887
057.0-0000-0008.0	679 PEARL ST	BARRETTO MELISSA	SCHULTZ THOMAS EDWARD	679 PEARL STREET	READING	MA	01867
057.0-0000-0009.0	669 PEARL ST	CRONIN-GOLOMB MARK	ALICE CRONIN-GOLOMB	669 PEARL STREET	READING	MA	01867
057.0-0000-0010.0	707 PEARL ST	SIMONDS WILLIAM	BOVA BROOKE JTROS	707 PEARL STREET	READING	MA	01867
057.0-0000-0011.0	PEARL ST	TOWN OF READING	CONS.	16 LOWELL ST	READING	MA	01867
057.0-0000-0012.0	703 PEARL ST	VANDERZOUWEN MARK S	BONNIE M VANDERZOUWEN	703 PEARL ST	READING	MA	01867
057.0-0000-0013.0	701 PEARL ST	BOBACK EDWARD C	JO ANN T BOBACK	701 PEARL ST	READING	MA	01867

Parcel Count: 35

End of Report

LOCUS MAP



BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: _____ City/Town: _____ Sampling Date: _____

Applicant/Owner: _____ Sampling Point or Zone: _____

Investigator(s): _____ Latitude / Longitude: _____

Soil Map Unit Name: _____ NWI or DEP Classification: _____

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

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

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

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

Wetland vegetation criterion met?	Yes _____ No _____	Is the Sampled Area within a Wetland?	Yes _____ No _____
Hydic Soils criterion met?	Yes _____ No _____		
Wetlands hydrology present?	Yes _____ No _____		
Remarks, Photo Details, Flagging, etc.:			

HYDROLOGY

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

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

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				_____ = Total Cover			
<u>Shrub/Sapling Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				_____ = Total Cover			
<u>Herb Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
				_____ = Total Cover			

VEGETATION – continued.

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

Rapid Test: Do all dominant species have an indicator status of OBL or FACW? Yes _____ No _____				
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? Yes _____ No _____
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	=
	FACW species		X 2	=
	FAC species		X 3	=
	FACU species		X 4	=
	UPL species		X 5	=
	Column Totals	(A)		(B)
Prevalence Index		B/A =		Is the Prevalence Index ≤ 3.0? Yes _____ No _____
Wetland vegetation 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 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 %

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 695 Pearl Street City/Town: Reading Sampling Date: 11/7/23
 Applicant/Owner: Sullivan Engineering Group, LLC Sampling Point or Zone: SP-2
 Investigator(s): Norse Environmental Services, Inc. - Maureen Herald Latitude / Longitude: 42.55655 / -71.10112
 Soil Map Unit Name: Deerfield NWI or DEP Classification: DEP

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 type="checkbox"/> No <input checked="" type="checkbox"/>
Hydic 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'</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name			
1.	White Pine	Pinus strobus	FACU	25.0	Yes No
2.	Red Maple	Acer rubrum	FAC	30.0	Yes Yes
3.	Swamp White Oak	Quercus bicolor	FACW	20.0	Yes Yes
4.					
5.					
6.					
7.					
8.					
9.					
<u>75.0</u> = Total Cover					
<u>Shrub/Sapling Stratum</u>		Plot size <u>10'</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name			
1.	Glossy Buckthorn	Rhamnus frangula	FAC	20.0	Yes Yes
2.	Highbush Blueberry	Vaccinium corymbosum	FACW	15.0	Yes Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
<u>35.0</u> = Total Cover					
<u>Herb Stratum</u>		Plot size <u>5'</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name			
1.	Cinnamon Fern	Osmunda cinnamomea	FACW	30.0	Yes Yes
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
<u>30.0</u> = Total Cover					

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>None</u>		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	5	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	65	X 2	= 130.00
	FAC species	50	X 3	= 150.00
	FACU species	25	X 4	= 100.00
	UPL species		X 5	= 0.00
	Column Totals	(A) 140		(B) 380
Prevalence Index		B/A = 2.71		Is the Prevalence Index ≤ 3.0?
				Yes <input checked="" 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 %

