Bay Colony Group, Inc. Professional Civil Engineers & Land Surveyors

4 School Street, PO Box 9136 Foxborough, Massachusetts 02035 Telephone (508) 543-3939 • Fax (508) 543-8866 E-mail: <u>mailbox@baycolonygroup.com</u>

Abbreviated Notice of Resource Area Delineation Walnut Street Foxborough, MA

May, 2022

Prepared by:

Bay Colony Group, Inc. Four School Street Foxborough, MA 02035

Prepared for:

Walnut Street Joint Venture Developer LLC 536 Granite Street Braintree, MA 02184

Bay Colony Group, Inc.

Professional Civil Engineers & Land Surveyors

4 School Street, PO Box 9136 Foxborough, Massachusetts 02035 Telephone (508) 543-3939 • Fax (508) 543-8866 E-mail: <u>mailbox@baycolonygroup.com</u>

June 16, 2022

Mr. Robert W. Boette, Chairman Foxborough Conservation Commission 40 School Street Foxborough, MA 02035

RE: Walnut Street ANRAD

Dear Mr. Boette:

Enclosed please find an Abbreviated Notice of Resource Area Delineation (ANRAD) filed on behalf of Walnut Street Joint Venture Developer LLC for the parcel of land located on the southern side of Walnut Street (Map 133 Parcel 023) southwest of the intersection with Commercial Street (Rte.140). This filing is in accordance with Ch. 131, S. 40 Wetlands Protection Act in order to delineate resource areas on, and immediately off, the referenced property. Included in the filing is: WPA Form 4A – Abbreviated Notice of Resource Area Delineation, a wetland delineation report, an existing conditions plan showing the wetland delineation and a \$1012.50 check made payable to the Town of Foxborough which represents the filing fee under the Wetlands Protection Act. Neighbors will be notified by certified mail and a copy of the Form of Notification and the certified list of abutters is enclosed.

The property consists of a 15.57-acre parcel of land that is currently undeveloped and consists of a wooded area. The land is bordered by vacant land to the north, Route 140 to the east, Interstate 95 ramps to the southeast and by residential properties to the southwest, west and northwest. An Isolated Wetland is located in the northwest portion of the property. Bordering Vegetated Wetlands are located offsite to the east across Route 140 and to the north across Walnut Street.

The field work to delineate the wetlands and attached documentation were done by PARE Corporation in May, 2022. The wetland flags were located in an on the ground survey and plotted on a base topographic map by Bay Colony Group, Inc. which is included in the filing. Thank you for your cooperation and we look forward to working with the Commission on this project.

Very truly yours,

BAY COLONY GROUP, INC.

12 1

William R. Buckley, Jr., P.E. Project Manager

Encl.

List of Documents

Previous Page – Letter to Conservation Commission

WPA Form 4A – Abbreviated Notice of Resource Area Delineation NOI Wetlands Fee Transmittal Form Copy of checks

Form of Notification to Abutters List of Abutters

Appendix A:

Wetlands Delineation Report dated May 26, 2022 by Pare Corporation which includes a FEMA Firmette, and MassGIS overlay.

Enclosure:

Wetland Location Plan of Walnut Street Foxborough, MA dated May 25, 2022 by Bay Colony Group, Inc.



WPA Form 4A – Abbreviated Notice of Resource Area Delineation

Provided by MassDEP:

157-MassDEP File Number

Foxborough City/Town

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Foxborough Wetlands Protection Bylaw, Chapter 267

A. General Information

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

Walnut Street		Foxborough	02035
a. Street Address	3	b. City/Town	c. Zip Code
Latitude and	ongitude:	42°-02'-48.10"	71°-14'-48.10"
	Longitude.	d. Latitude	e. Longitude
133		023/000	
f. Assessors Map	/Plat Number	g. Parcel /Lot Number	
2. Applicant:		- #1	
Michael		Mattos	
a. First Name		b. Last Name	
	Joint Venture Developer LLC		
c. Organization			
536 Granite S			
d. Mailing Addres	s		
Braintree		MA	02184
e. City/Town		f. State	g. Zip Code
781-794-1095	781-794-1001		
h. Phone Numbe	r i. Fax Number	j. Email Address	
3. Property own	er (if different from applicant):	Check if more the sheet with names and	an one owner (attach additiona d contact information)
a. First Name		b. Last Name	
Foxborough H	lousing Authority		
c. Organization			
90 North Carl	Annon Court		
d. Mailing Addres			
Foxborough		MA	02035
e. City/Town		f. State	g. Zip Code
508.543.5960			0
h. Phone Numbe		j. Email Address	
4. Representativ	e (if any):		
William		Buckley, Jr.	
a. Contact Perso	n First Name	b. Contact Person Last Name	9
Bay Colony G	roup, Inc.		
c. Organization			
4 School Stre	et		
d. Mailing Addres	s		
Foxborough		MA	02035
e. City/Town		f. State	g. Zip Code
508.543.3939	508.543.8866	billbuckley@baycolonyg	
h. Phone Numbe		j. Email Address	
5. Total WPA Fe	e Paid (from attached ANRAD	Wetland Fee Transmittal Fo	orm):
\$2,000	\$987.50	\$1012.50	
a. Total WPA Fee			d. Bylaw Fee Paid to Towr

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



Note: Before completing this form consult your

local Conservation Commission regarding any municipal bylaw or ordinance.

Fees will be calculated for online users.

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WPA Form 4A – Abbreviated Notice of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Foxborough Wetlands Protection Bylaw, Chapter 267

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:

Isolated Land Subject to Flooding	1,206
a. Resource Area	b. Linear Feet Delineated
c. Resource Area	d. Linear Feet Delineated
Bylaw Chapter 267 - 25 Foot No Activity Zone	
e. Resource Area	f. Linear Feet Delineated
Bylaw Chapter 267 - 100 Foot Vernal Pool No Activity Zone	
g. Resource Area	h. Linear Feet Delineated

C. Additional Information

Applicants must include the following plans with this Abbreviated Notice of Resource Area Delineation. See instructions for details.

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

Provided by MassDEP:

157-MassDEP File Number

Foxborough City/Town

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WPA Form 4A – Abbreviated Notice of Resource Area Delineation

Provided by MassDEP:

157-MassDEP File Number

Foxborough City/Town

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Foxborough Wetlands Protection Bylaw, Chapter 267

D. Fees

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:

13061	6/7/2022
2. Municipal Check Number (State WPA Fee)	3. Check date
13061	6/7/2022
4. Municipal Check Number (Foxborough Bylaw Fee)	5. Check date
13059	6/7/2022
6. State Check Number	7. Check date
Affordable Housing & Services Collaborative, Inc.	
8. Payor name on check: First Name	9. Payor name on check: Last Name



WPA Form 4A – Abbreviated Notice of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Foxborough Wetlands Protection Bylaw, Chapter 267 Provided by MassDEP:

157-MassDEP File Number

Foxborough City/Town

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 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.

warms m. 1. Signature of Applicant hAIryAL 3. Signature of Property Owner (if different 5. Signature of Repr sentative (if

Tax Collector's Release

The above referenced applicant is applying for a permit from the Conservation Commission and is in good standing with respect to any taxes, fees, assessments, betterments or other municipal charges as recorded with the Foxborough Treasurer's Office.

1. Signature of Tax Collector or Agent

2. Date

For Conservation Commission:

One original and seven copies 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 the town fee payment (State and Bylaw) must be sent to the Conservation Commission by certified mail or hand delivery (see instructions on fee transmittal form, below).

Foxborough Conservation Commission 40 South Street Foxborough, MA 02035

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 by certified mail or hand delivery.

MassDEP, Southeast Regional Office 20 Riverside Drive Lakeville, MA 02347

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 Abbreviated Notice of Resource Area Delineation.



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 Foxborough Wetlands Protection Bylaw, Chapter 267

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:

Walnut Street	Foxborough	
a. Street Address	b. City/Town	
\$978.50	13059	
c. Fee amount	d. Check number	

2. Applicant:

Michael	Mattos	Walnut S	Street Joint Venture
a. First Name	b. Last Name	Develop	er LLC
536 Granite Street			
d. Mailing Address			
Braintree		MA	02184
e. City/Town		f. State	g. Zip Code
781-794-1095			
h. Phone Number			

3. Property Owner (if different):

		Foxboro	ugh Housing Authority
a. First Name	b. Last Name	c. Compar	пу
90 North Carl Annon Court			
d. Mailing Address			
Foxborough		MA	02035
e. City/Town		f. State	g. Zip Code
508-543-5960			
h. Phone Number			

B. Fees

State Fees

check box if fee exempt.

The State 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:

	house project	a. linear feet of BVW	x \$2.00 =	 b. Fee for BVW
\boxtimes	all other	801	\$1,602	\$1,602
	projects	a. linear feet of BVW	x \$2.00 =	b. Fee for BVW

3.	single family				
	house project	a. linear feet	x \$2.00 =	b. Fee	
4. 🖂	all other	1,206	\$2,412	\$2,412	
	projects	a. linear feet	× \$2.00 =	b. Fee	
				\$2,000	

Total State Fee for all Resource Areas:

State share of filing fee:

\$987.50 5. 1/2 of total fee **less** \$12.50 \$1012.50

6. 1/2 of total fee plus \$12.50

Fee

Town share of State filing fee:



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

Foxborough Wetlands Protection Bylaw, Chapter 267

B. Fees (continued)

Bylaw Fees

The Bylaw 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 Areas delineated, is \$200 for activities associated with a single-family house and \$2,000 for any other activity.

Bordering Vegetated Wetland Delineation Fee:

4. 🗌	all other projects	a. linear feet	x \$2.00 =	b. Fee
4. 🗌	all other			
	house project	a. linear feet	x \$2.00 =	b. Fee
3. 🗌	single family	- Barran farat	\$0.00	h 19-4
Other	Resource Areas (e.g., bank, riverfront are	ea, Land Subject to Floo	ding, etc.):
∠. ∟	projects	a. linear feet of BVW	x \$2.00 =	b. Fee for BVW
2. 🗌	house project all other	a. linear feet of BVW	x \$2.00 =	b.Fee for BVW

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 Foxborough Conservation Commission: Send one copy of this form with the ANRAD application and the town application fee payments (Bylaw fee and town share of State fee), made payable to the Town of Foxborough, to:

Foxborough Conservation Commission 40 South Street Foxborough, MA 02035

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.

MassDEP Southeast Regional Office 20 riverside Drive Lakeville, MA 02347

AFFORDABLE HOUS	SING & SERVICES COLLABORATIVE,				13059 ENS BANK
	VEALTH OF MASSACHUSETTS		9950-1	1200-OPERAT	TING 7325 06/07/2022
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Page 1 of 1

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66409-PREDEV. COSTS - O ANRAD FILING FOR FOXBOROUGH PROJECT	AffordabCollabor	\$1,012.50 \$1,012.50
Nel Amount		\$1,012.50

Page 1 of 1

NC. OXB9800TOWN OF	FOXBOROUGH		CITIZENS BA 9950-11200-OPERATING 7
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cct	Mamo	Department ID Location	Amount Entered Amount
6/07/2022 6409-PREDEV. COSTS - O	9950-060722.1 ANRAD FILING FOR FOXBOROUGH PROJECT	AffordabCollabor	\$1,012.50 \$1,0 \$1,01

Page 1 of 1

COLLABORATIVE, INC. C/O PEABODY PROPERTIES, INC. 536 GRANITE ST BRAINTREE, MA 02184 781-794-1000 Pay To The Order of TOMAN TO VERIFY AUTHENTICITY, SEE REVERSE SIDE IPTION OF THE 13 SECURITY FEATURE 13061 CITIZENS BANK 5-7017/2110 Date: 06/07/2022 ***One Thousand Twelve Dollars and 50 Cents*** \$**1,012.50** TOWN OF FOXBOROUGH Any & Could VOID AFTER 180 DAYS

NOTIFICATION TO ABUTTERS

Under the

Massachusetts Wetlands Protection Act & Chapter 267, Wetland Protection Code of Foxborough

(This form must be completed and mailed, certified mail return receipt requested, to all abutters within 100 feet of the proposed project's activity.)

In accordance with the second paragraph of Massachusetts Wetlands Protection Act (G.L. Ch. 131, §40), and §10.05 of 310 CMR 10.00, and Chapter 267, the Wetland Protection Code of Foxborough *(formerly Article IX)* and regulations, you are hereby notified of a public hearing on the matter described below:

- A. The applicant has filed an Abbreviated Notice of Resource Area Delineation with the Foxborough Conservation Commission for the delineation of areas subject to protection under the Wetlands Protection Act and the Wetland Protection Code of Foxborough.
- B. The name of the applicant is Walnut Street Joint Venture Developer LLC
- C. The address of the land where the activity is proposed is Walnut Street (Map 133 Parcel 23), Foxborough.
- D. Copies of the Abbreviated Notice of Resource Area Delineation may be examined at the Conservation Commission's office, 40 South Street, Foxborough Town Hall, between 9 am and 4 pm, Monday through Thursday.
- E. Copies of the Abbreviated Notice of Resource Area Delineation may be obtained from either (check one) the applicant or the applicant's representative <u>Bay Colony Group</u>, Inc. by calling <u>508.543.3939</u> from [times] <u>8:00 am 4:30 pm</u> on [days] Monday through Friday.
- F. Information regarding the date, time and place of the public hearing may be obtained from either (check one) the □ applicant or the ⊠ applicant's representative <u>Bay Colony Group, Inc.</u> by calling <u>508.543.3939</u> from [times] <u>8:00 am 4:30 pma on [day]</u> Monday through Friday.
- Please Note: Notice of the public hearing, including date, time and place, will be published at least five business days in advance in The Foxboro Reporter and will be posted in the Town Hall and on the Town's website at least 48 hours in advance.

Conservation Commission meeting agendas may be viewed online at: http://www.foxboroughma.gov/Pages/FoxboroughMA_ConsAgendas/

For additional information about this application or the Wetland Protection Code of Foxborough, please contact the Foxborough Conservation Commission at 508-543-1251 or visit: www.foxboroughma.gov/conservation

For more information about this application or the Wetlands Protection Act, please contact the Department of Environmental Protection (DEP) Southeast Regional Office (Lakeville) at 508-946-2836.

Location:

120/ / 008/000 000/000 WALNUT STREET Owner: COMMONWEALTH OF MA **1 ASHBURTON PLACE** 4TH FL **BOSTON, MA 02408** Location: 133/ / 025/000 000/000 **41 WALNUT STREET** Owner: JOHNSON SCOTT E **41 WALNUT STREET** FOXBOROUGH, MA 02035-0000 Location: 145/ / 004/000 000/000 **52 NORTH HIGH STREET** Owner: **GRAY JOHN R & KATHLEEN TRS 52 NORTH HIGH STREET** FOXBOROUGH, MA 02035 Location: 145/ / 007/000 000/000 **58 NORTH HIGH STREET** Owner: PROSSER NATALIE R **58 NORTH HIGH STREET** FOXBOROUGH, MA 02035 Location: 145/ / 010/000 000/000 64 NORTH HIGH STREET Owner: WESCHE CHRISTOPHER & COURTNEY ΤE **64 NORTH HIGH STREET** FOXBOROUGH, MA 02035

Location: 133/ / 020/000 000/000 44 WALNUT STREET Owner: AYOUB MAROUN Y & DIANA M TE 44 WALNUT STREET FOXBOROUGH, MA 02035 Location: 133/ / 024/000 000/000 45 WALNUT STREET Owner: MCNAMARA KYLE **45 WALNUT STREET** FOXBOROUGH, MA 02035 Location: 145/ / 005/000 000/000 54 NORTH HIGH STREET Owner: **BODLE MIKALA & ALEXANDER** SUMMERHAYES JT 54 NORTH HIGH ST FOXBOROUGH, MA 02035 Location: 145/ / 008/000 000/000 **60 NORTH HIGH STREET** Owner: COSSETTE SHAYNE T 60 NORTH HIGH ST FOXBORO, MA 02035 Location: 145/ / 011/000 000/000 NORTH HIGH STREET Owner: TOWN OF FOXBOROUGH 40 SOUTH STREET

FOXBOROUGH, MA 02035-0000

Location: 133/ / 021/000 000/000 46 WALNUT STREET Owner: OLEARY JAMES M, TIMOTHY F & JANINE KRULA **16 MEADE STREET** WAREHAM, MA 02571 Location: 145/ / 002/000 000/000 **44 NORTH HIGH STREET** Owner: LEVERONE NINA M 44 NORTH HIGH STREET FOXBOROUGH, MA 02035 Location: 145/ / 006/000 000/000 **56 NORTH HIGH STREET** Owner: GALLEY EDWARD J JR **56 NORTH HIGH STREET** FOXBOROUGH, MA 02035-0000 Location: 145/ / 009/000 000/000 62 NORTH HIGH STREET Owner: **OLLIS CHARLES E JR** 62 NORTH HIGH ST FOXBORO, MA 02035-0000 Location: 145/ / 003/000 000/000 **50 NORTH HIGH STREET** Owner:

PAPPAS GEORGE M

50 NORTH HIGH STREET

FOXBOROUGH, MA 02035

Appendix A – Wetland Delineation Report MassGIS Overlay FEMA Firmette



PARECORP.COM



May 26, 2022

Mr. William Buckley, P.E. Bay Colony Group, Inc. 4 School Street Foxborough, MA 02035

Re: Wetland Delineation Map 133, Lot 023 - Walnut Street Foxborough, MA Pare Project No. 18170.33

Dear Mr. Buckley,

Pare Corporation (Pare) delineated the wetland resource areas on and affecting the parcel of land designated as Lot 023 on Foxborough Assessor's Map 133 (the site). The site is an approximately 16-acre parcel of undeveloped wooded land bounded by Walnut Street to the north, Route 140 (Commercial Street) to the east, the Route 140/Route 95 interchange to the south, and residential development to the west. The delineations were completed to establish the limits of wetlands and Buffer Zones that may impact future development on the property. Pare's investigations and delineations of wetlands were completed on May 10 and May 17, 2022.

The following report describes the delineated wetlands, discusses the delineation methodology, and summarizes review of available published mapping for the site. Attached to this report are the following materials: a Site Location Map, an Annotated Aerial Photograph, an excerpt from the FEMA Flood Insurance Rate Map for the area, annotated photographs of the site wetlands, and completed BVW Data Forms.

METHODOLOGY

V

Wetland edges were delineated in accordance with the Massachusetts Wetlands Protection Act Regulations (310 CMR 10.55, referred to as the WPA Regulations), and the methodology specified in the publication entitled <u>Delineating Bordering Vegetated Wetlands under the Massachusetts Wetlands Protection Act</u> (Jackson, 1995) and <u>The Regional Supplement to the Corps of Engineers Wetland Delineation Manual: North Central and Northeast Region, Version 2.0</u> (U.S. Army Corps of Engineers, January 2012).

Pink field flags were placed at appropriate intervals along the wetland/upland border, and along the edges of a non-jurisdictional drainage channel. Primary parameters evaluated in wetland delineation included vegetation, hydric soil indicators, and visual indicators of wetland hydrology such as water-stained leaves and saturated soils. Banks were delineated according to first observable break in slope. During the delineation, BVW Data Forms were completed for representative plots along the wetland/upland border.

WETLAND DESCRIPTIONS

Wetland A

Flag series A-1 to A-32 defines the wetland/upland border of an area of **Isolated Freshwater Wetland** at the northwest side of the subject property. The series begins and ends at the northeast side of the wetland and extends counterclockwise around the wetland perimeter. The wetland edge is generally located along the toe of gradual slopes surrounding a low spot in the landscape. The wetland has a surface area of 70,140 square feet (1.6 acres) and a majority of the area appears to be seasonally flooded. Due to the size of the wetland, it appears likely that the area qualifies as **Isolated Land Subject to Flooding (ILSF)** under the Massachusetts Wetlands Protection Act Regulations (WPA Regulations). There are no buffer zones associated with ILSF under the WPA Regulations.

The wetland has a transitional hydrology, ranging from seasonally saturated along the wetland edges to seasonally flooded areas at the wetland interior. The wetland appears to be fed by groundwater and surface water. The area appears to receive runoff from the surrounding developed and undeveloped uplands, including the residential properties to the west of the lot. Indicators of wetland hydrology included water-stained leaves, mound-and-pool microrelief, saturated soils, buttressed tree trunks, and shallow root systems on woody vegetation. The wetland is dominated by a mixture of deciduous trees including Red Maple (*Acer rubrum*), Red Oak (*Quercus rubra*), and White Oak (*Quercus alba*), the latter two species exhibiting significant shallow, buttressed root systems (hydromorphic adaptation). The majority of the area has a dense understory of shrubs dominated by Sweet Pepperbush (*Clethra alnifolia*). Vegetation located within the wetland included, but was not limited to, the following species:

Common Name	Scientific Name	Indicator Status
Red Maple	Acer rubrum	FAC
Red Oak	Quercus rubra	FACU*
White Oak	Quercus alba	FACU*
White Pine	Pinus strobus	FACU*
Sweet Pepperbush	Clethra alnifolia	FAC
Witch Hazel	Hamamelis virginiana	FAC
Highbush Blueberry	Vaccinium corymbosum	FACW
Arrowood	Viburnum dentatum	FAC
Cinnamon Fern	Osmunda cinnamomea	FACW
Sensitive Fern	Onoclea sensibilis	FACW
New York Fern	Thelypteris noveboracensis	FAC

*Shallow root systems indicate adaptation to wetland hydrology

Wetland B

Flag series B-1 to B-9 defines the wetland/upland border of an offsite **Bordering Vegetated Wetland** east of Route 140, to the southeast of the intersection with Walnut Street. The edge was delineated to determine the extent of the associated **100-foot Buffer Zone** that may encroach onto the property. A drainage outfall, which appears to connect with Wetland C and a non-jurisdictional drainage swale (described in a later section), enters the wetland between B-7 and B-8. The wetland edge is generally located along the toe of a well-defined slope along the road shoulder and is dominated by Red Maple with a dense shrub understory. Vegetation located within the wetland included, but was not limited to, the following species:



Common Name	Scientific Name	Indicator Status
Red Maple	Acer rubrum	FAC
White Pine	Pinus strobus	FACU*
Sweet Pepperbush	Clethra alnifolia	FAC
Witch Hazel	Hamamelis virginiana	FAC
Meadowsweet	Spiraea alba	FACW
Arrowood	Viburnum dentatum	FAC
Cinnamon Fern	Osmunda cinnamomea	FACW
Poison Ivy	Toxicodendron radicans	FAC
Oriental Bittersweet	Celastrus orbiculatus	UPL

*Shallow root systems indicate adaptation to hydric soil conditions

Wetland C

Flag series C-1 to C-17 and C-100 to C-105 define the wetland/upland border of an offsite **Bordering Vegetated Wetland** north of Walnut Street. The edge was delineated to determine the extent of the associated **100-foot Buffer Zone** that may encroach onto the property. Series C-1 to C-17 follows a gradual, rocky wooded slope that transitions from seasonally saturated areas to a seasonally flooded interior. Series C-100 to C-105, located a short distance east, defines a seasonally flooded area extending to the north shoulder of Walnut Street. A culvert in a concrete headwall conveys flow from an intermittent stream channel in the wetland interior, and survey data indicates that the culvert connects with the B-series BVW opposite Route 140. The wetland is dominated by Red Maple and White Pine, with a dense shrub understory in most locations. Vegetation located within the wetland included, but was not limited to, the following species:

Common Name	Scientific Name	Indicator Status
Red Maple	Acer rubrum	FAC
White Pine	Pinus strobus	FACU*
Sweet Pepperbush	Clethra alnifolia	FAC
Witch Hazel	Hamamelis virginiana	FAC
Meadowsweet	Spiraea alba	FACW
Arrowood	Viburnum dentatum	FAC
Cinnamon Fern	Osmunda cinnamomea	FACW
Poison Ivy	Toxicodendron radicans	FAC
Oriental Bittersweet	Celastrus orbiculatus	UPL

*Shallow root systems indicate adaptation to hydric soil conditions

Non-Jurisdictional Drainage Swale

Flag series CH-1 to CH-16 and CH-100 to CH-115 define the north and south edges of a linear drainage swale that follows the south shoulder of Walnut Street along the north edge of the site. The swale enters a catch basin at the northeast corner of the site, and survey data indicates that it connects with a drainage line under Route 140 conveying flow from the C-series BVW, ultimately discharging to the B-series BVW. No water was observed within the swale during the delineation; however water staining and scour indicate that the feature passes stormwater from the adjacent roadway and overland runoff from the site. The swale is located upgradient of wetland areas, and therefore does not meet the definition of "Stream" provided in 310 CMR 10.04 of the WPA Regulations.



REVIEW OF PUBLISHED MAPPING

Review of published mapping and relevant MassGIS data layers on May 26, 2022 revealed the following:

- No Certified Vernal Pools (CVPs) or Potential Vernal Pools (PVPs) are located on the subject property.
- There is no mapped Priority or Estimated Habitat of Rare Species on the site.
- The site is not located within Outstanding Resource Waters.
- The site is not located within an Area of Critical Environmental Concern.
- According to the FEMA Flood Insurance Rate Map (FIRM) for Foxborough (Map No. 25021C0361E, revised July 17, 2012, attached as Figure 3), there is no 100-year Floodplain on the site.

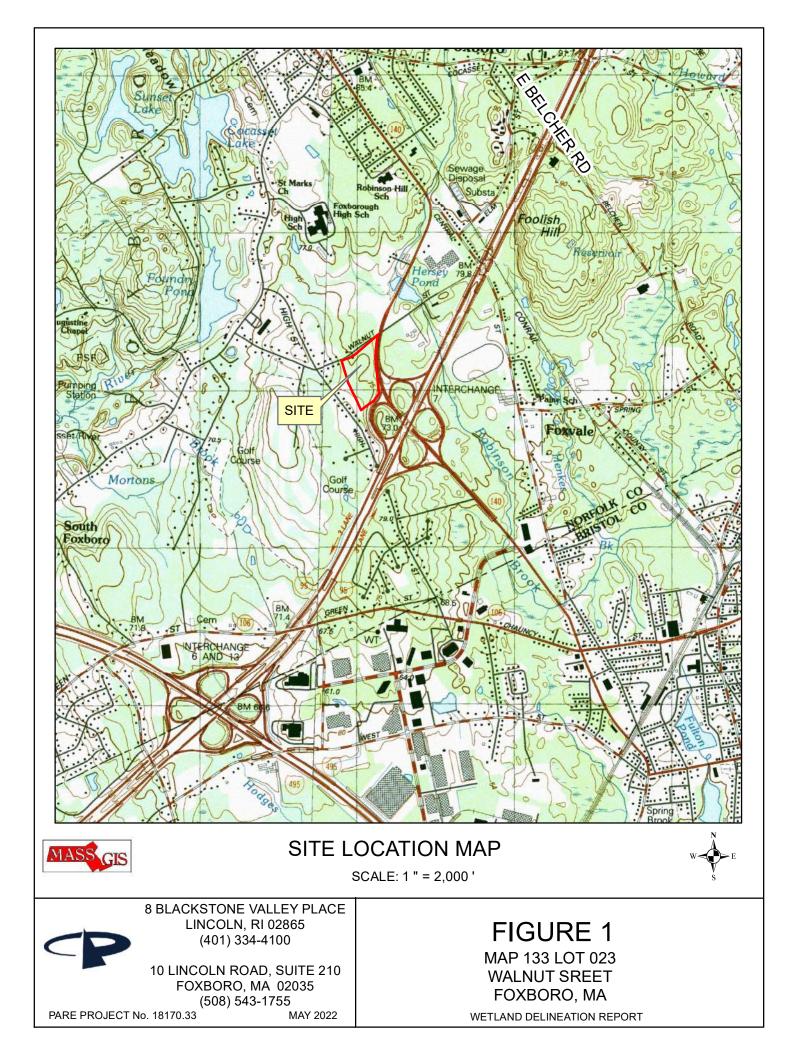
Thank you very much for the opportunity to assist you with this project. If you have any questions regarding project permitting or other issues, or require further assistance, please do not hesitate to call.

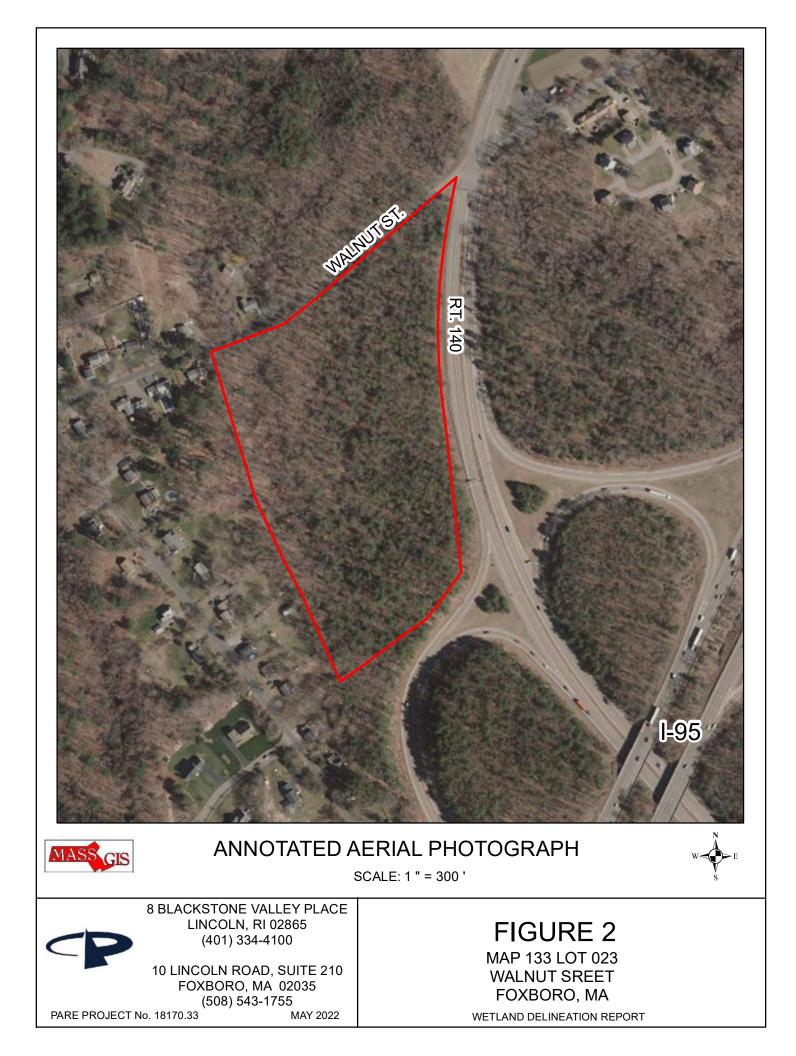
Sincerely,

Lauren H. Gluck, P.W.S. Senior Environmental Scientist

LHG/

Z:\JOBS\18 Jobs\18170.32 BCG - 1035 Washington St Walpole - MA\Report\Wetland Report.doc



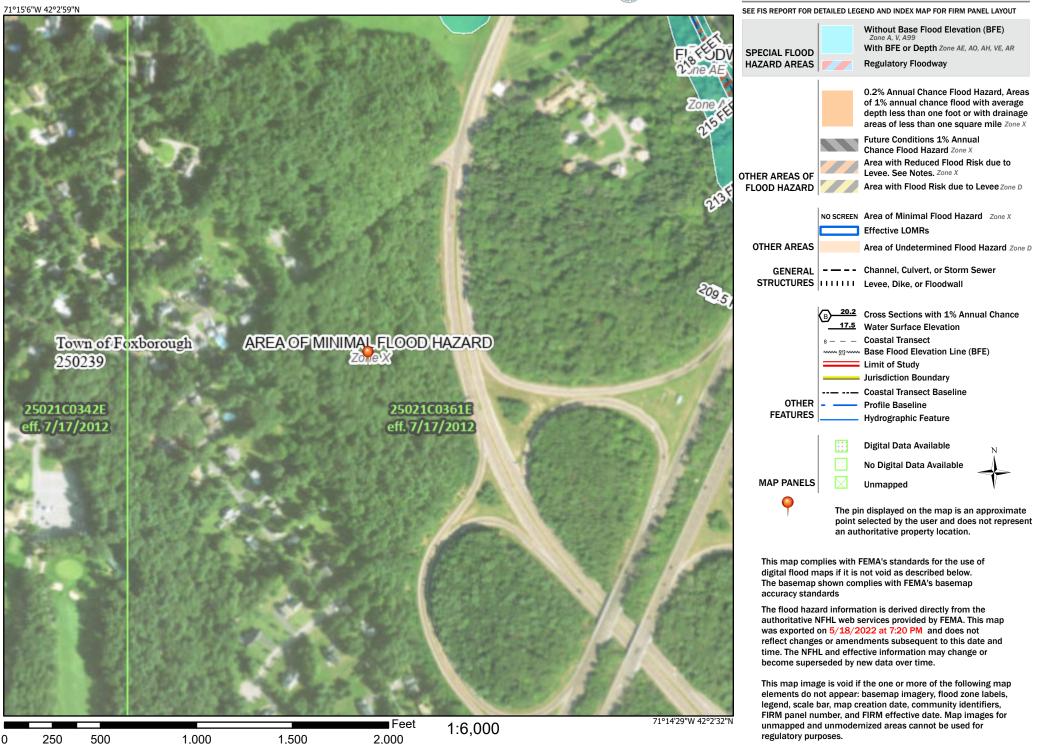


National Flood Hazard Layer FIRMette



Legend

FIGURE 3



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



Photo 1: Typical view of A-series Isolated Wetland edge.



Photo 2: Shallow pockets of flooding in A-series Isolated Wetland interior.





Photo 3: Non jurisdictional drainage swale (CH series) along south shoulder of Walnut Street.



Photo 4: View of B-series BVW edge along Route 140 shoulder.





Photo 5: Typical view of C-series BVW edge north of Walnut Street.



Photo 6: Culvert passing flow from C-series BVW into drainage pipe under Walnut Street.



Applicant: ______Prepared by: <u>Pare Corporation</u> Project location: <u>Walnut Street</u>, Foxborough DEP File #: <u>None</u>

L. Gluck P.W.S, Erika Klinkhammer

Check all that apply:

_____Vegetation alone presumed adequate to delineate BVW boundary: fill out section I only.

X Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II.

_____Method other than dominance test used (attach additional information).

Section I. Observation Plot Number: 1 Transect Number: A (Wetland Station) 5'± D/G WF A-18 Date of Delineation: May 10, 2022					y 10, 2022
A. Sample Layer and Plant Species (by common/ scientific name)		B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category *
Tree	Red Maple (Acer rubrum)	16-25(20.5)	28	Y	FAC*
	White Pine (Pinus strobus)	6-15 (10.5)	14	N	
	Red Oak (Quercus rubra)	16-25(20.5)	28	Y	FACU*(Buttressed Roots)
	White Oak (Quercus alba)	6-15 (10.5)	14	N	
	American Beech (Fagus grandifolia)	6-15 (10.5)	14	N	
	Total	72.5	98**		
Sapling	Red Maple (Acer rubrum)	6-15 (10.5)	50	Y	FAC*
	Total	10.5	100		
Shrub	Highbush Blueberry (Vaccinium corymbosum)	16-25 (20.5)	25	Y	FACW*
	Sweet Pepperbush (Clethra alnifolia)	51-75 (63.0)	75	Y	FAC*
	Total	83.5			
Herb	Sweet Pepperbush (Clethra alnifolia)	6-15 (10.5)	34	Y	FAC*
	Canada Mayflower (<i>Maianthemum canadense</i>)	16-25 (20.5)	66	Y	FACU
	Total	31	100		

**total does not equal 100 due to rounding

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

Vegetation Conclusion:

Number of dominant wetland indicator plants: 6

Number of dominant non-wetland indicator plants: 1

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? YES NO

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

Hydric Soil Interpretation 1. Soil Survey

Is there a published soil survey for this site? Yes No <u>Title/Date</u>: Norfolk and Suffolk Counties, Massachusetts

<u>Map Number</u>: Accessed via Web Soil Survey <u>http://websoilsurvey.nrcs.usda.gov/</u>

Soil type mapped: 71B- Ridgebury Fine Sandy Loam

Hydric Soil Inclusions: Whitman

Are field observations consistent with soil survey? Yes No

Remarks:

Soil Description

Horizon	Depth (in)	Matrix Color	Mottles Color
0	1-0"	10YR 2/1	
А	0-6"	10YR 2/1	
В	6+"	10YR 4/4	10YR 2/1
			(10%)

Remarks: Saturation at 8", dark streaking in B horizon

2. Other:

Conclusion: Is soil hydric? Yes No

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

Site inundated:

Depth to free water in observation hole:

 \boxtimes Depth to soil saturation in observation hole: 8"

Water Marks:

Drift lines:

Sediment deposits:

Drainage patterns in BVW:

Oxidized rhizospheres:

Water-stained leaves:

Recorded data (stream, lake, or tidal gauge; aerial photo; other):

 \bigcirc Other: microrelief and buttressed roots

Vegetation and Hydrology Conclusion		
	Yes	No
Number of wetland indicator plants \geq number of non-wetland indicator plants	\boxtimes	
Wetland hydrology present: hydric soil present	\boxtimes	
other indicators of hydrology present	\boxtimes	
Sample location is in a BVW		

Submit this form with the Request for Determination of Applicability or Notice of Intent

Applicant: ______Prepared by: Pare Corporation Project location: Walnut Street, Foxborough DEP File #: None

L. Gluck P.W.S, Erika Klinkhammer

Check all that apply:

_____Vegetation alone presumed adequate to delineate BVW boundary: fill out section I only.

X Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II.

_____Method other than dominance test used (attach additional information).

Section I. Observation Plot Number: 2 Transect Number: A (Upland Station) 5'± U/G WF A-18 Date of Delineation: May 10, 2022					
	Layer and Plant Species non/ scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category *
Tree Re	ed Maple (Acer rubrum)	16-25 (20.5)	26	Y	FAC*
W	Thite Pine (Pinus strobus)	16-25 (20.5)	26	Y	FACU
Re	ed Oak (Quercus rubra)	26-50 (38.0)	48	Y	FACU
	Total	79	100		
Sapling R	ed Maple (Acer rubrum)	6-15 (10.5)	50	Y	FAC*
	White Pine (Pinus strobus)	6-15 (10.5)	50	Y	FACU
	Total	21	100		
Shrub S	weet Pepperbush (Clethra alnifolia)	6-15 (10.5)	25	Y	FAC*
H	Highbush Blueberry (Vaccinium corymbosum)	6-15 (10.5)	25	Y	FACW*
Ν	Mapleleaf Viburnum (Viburnum acerifolium)	16-25 (20.5)	49	Y	UPL
	Total	41.5	99**		
Herb Eas	stern Hayscented Fern (Dennstaedtia punctilobula)	16-25 (20.5)	50	Y	UPL
	wbush Blueberry (<i>Vaccinium angustifolium</i>)	16-25 (20.5)	50	Y	FACU
	Total	41	100		

**total does not equal 100 due to rounding

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

Vegetation Conclusion:

Number of dominant wetland indicator plants: 4

Number of dominant non-wetland indicator plants: 6

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? YES NO

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

Hydric Soil Interpretation 1. Soil Survey

Is there a published soil survey for this site? Yes No <u>Title/Date</u>: Norfolk and Suffolk Counties, Massachusetts

<u>Map Number</u>: Accessed via Web Soil Survey <u>http://websoilsurvey.nrcs.usda.gov/</u>

Soil type mapped: 312 B- Woodbridge fine sandy loam Hydric Soil Inclusions: Ridgebury

Are field observations con	sistent with	soil survey?	Yes	Nc

Remarks:

2. Soil Description

Horizon	Depth (in)	Matrix Color	Mottles Color
0	1/2-0"	10YR 3/2	
А	0-3"	10YR 3/2	
В	3+"	10YR 3/4	

Remarks:

3. Other:

Conclusion: Is soil hydric? Yes <u>No</u>

Other Indicators of Hydrology: (check all that app	ly and d	escribe)	
Site inundated:			
Depth to free water in observation hole:			
Depth to soil saturation in observation hole:			
Water Marks:			
Drift lines:			
Sediment deposits:			
Drainage patterns in BVW: channel			
Oxidized rhizospheres:			
Water-stained leaves:			
Recorded data (stream, lake, or tidal gauge; a other):	erial ph	oto;	
Other: microrelief			
Vegetation and Hydrology Conclusion	Yes	No	
Number of wetland indicator plants	Ies	INO	
\geq number of non-wetland indicator plants		\square	
Wetland hydrology present:			
hydric soil present		\bowtie	
other indicators of hydrology		\square	
present			
Sample location is in a BVW Submit this form with the Request for Determination of Applicability		\square	

Applicant: ______Prepared by: <u>Pare Corporation</u> Project location: <u>Walnut Street</u>, Foxborough DEP File #: <u>None</u>

L. Gluck P.W.S, Erika Klinkhammer

Check all that apply:

_____Vegetation alone presumed adequate to delineate BVW boundary: fill out section I only.

X Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II.

_____Method other than dominance test used (attach additional information).

Section I. Observation Plot Number: 3 Transect Number: A (Wetland Station) 5'± D/G WF A-30 Date of Delineation: May 10, 2022				y 10, 2022	
A. Sample Layer and Plant Species (by common/ scientific name)		B. Percent Cover	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category *
		(or basal area)			
Tree	Red Maple (<i>Acer rubrum</i>)	16-25(20.5)	30	Y	FAC*
	Sassafras (Sassafras albidum)	6-15 (10.5)	15	N	
	Red Oak (Quercus rubra)	26-50 (38.0)	55	Y	FACU*(Buttressed Roots)
	Total	69	100		
Sapling	Red Maple (<i>Acer rubrum</i>)	16-25(20.5)	49	Y	FAC*
	Sassafras (Sassafras albidum)	6-15 (10.5)	25	Y	FACU
	White Pine (Pinus Strobus)	6-15 (10.5)	25	Y	FACU
	Total	41.5	99**		
Shrub	Highbush Blueberry (Vaccinium corymbosum)	16-25 (20.5)	49	Y	FACW*
	Arrowwood (Viburnum dentatum)	6-15 (10.5)	25	Y	FAC*
	Black Huckleberry (Gaylussacia baccata)	6-15 (10.5)	25	Y	FACU
	Total	41.5	99**		
Herb	Cinnamon Fern (Osmunda cinnamomea)	16-25 (20.5)	66	Y	FACW*
	Princess Pine (Lycopodium obscurum)	6-15 (10.5)	34	Y	FACU
	Total	31	100		

**total does not equal 100 due to rounding

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

Vegetation Conclusion:

Number of dominant wetland indicator plants: 6 Number of dominant non-wetland indicator plants: 4

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? YES NO

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

Hydric Soil Interpretation 1. Soil Survey

Is there a published soil survey for this site? Yes No Title/Date: Norfolk and Suffolk Counties, Massachusetts

Map Number: Accessed via Web Soil Survey http://websoilsurvey.nrcs.usda.gov/

Soil type mapped: 312 B- Woodbridge Fine Sandy Loam

Hydric Soil Inclusions: Ridgebury

Are field observations consistent with soil survey? Yes No

Remarks:

Soil Description

Horizon	Depth (in)	Matrix Color	Mottles Color
0	1-0"	10YR 2/2	
А	0-4"	10YR 2/1	
В	6+"	10YR 4/2	10YR 2/1
			10YR 5/8

Remarks: pronounced redox and dark streaking in B horizon

2. Other:

Conclusion: Is soil hydric? Yes

No

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

Site inundated:

Depth to free water in observation hole:

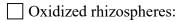
Depth to soil saturation in observation hole:

Water Marks:

Drift lines:

Sediment deposits:

Drainage patterns in BVW:



Water-stained leaves:

Recorded data (stream, lake, or tidal gauge; aerial photo; other):

Other: microrelief

Vegetation and Hydrology Conclusion		
	Yes	No
Number of wetland indicator plants \geq number of non-wetland indicator plants	\bowtie	
Wetland hydrology present: hydric soil present	\boxtimes	
other indicators of hydrology present	\square	
Sample location is in a BVW		

Applicant: _____ Prepared by: Pare Corporation Project location: Walnut Street, Foxborough DEP File #: None

L. Gluck P.W.S, Erika Klinkhammer

Check all that apply:

_____Vegetation alone presumed adequate to delineate BVW boundary: fill out section I only.

X Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II.

_____Method other than dominance test used (attach additional information).

Section I. Observation Plot Number: 4 Transect Number: A (Upland Station) 5'± U/G WF A-30 Date of Delineation: May 10, 2022					/ 10, 2022
	le Layer and Plant Species	B. Percent Cover	C. Percent	D. Dominant Plant	E. Wetland Indicator
(by co	ommon/ scientific name)	(or basal area)	Dominance	(Yes or No)	Category *
Tree	Red Maple (<i>Acer rubrum</i>)	6-15 (10.5)	13	Ν	
	White Pine (Pinus strobus)	6-15 (10.5)	13	Ν	
	Red Oak (Quercus rubra)	26-50 (38.0)	48	Y	FACU
	American Beech (Fagus grandifolia)	6-15 (10.5)	13	Ν	
	Sassafras (Sassafras albidum)	6-15 (10.5)	13	N	
	Total	80	100		
Sapling	Red Maple (<i>Acer rubrum</i>)	6-15 (10.5)	22	Y	FAC*
~~- PB	White Pine (<i>Pinus strobus</i>)	26-50 (38.0)	78	Ŷ	FACU
	Total	48.5	100		
Shrub	Black Huckleberry (Gaylussacia baccata)	6-15 (10.5)	50	Y	FACU
	Highbush Blueberry (Vaccinium corymbosum)	6-15 (10.5)	50	Y	FACW*
	Total	21	100		
Herb	Princess Pine (Lycopodium obscurum)	26-50 (38.0)	65	Y	FACU
	Lowbush Blueberry (Vaccinium angustifolium)	16-25 (20.5)	35	Y	FACU
	Total	58.5	100		

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

Vegetation Conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 5

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? YES NO

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

Hydric Soil Interpretation 1. Soil Survey

Is there a published soil survey for this site? Yes No <u>Title/Date</u>: Norfolk and Suffolk Counties, Massachusetts

<u>Map Number</u>: Accessed via Web Soil Survey <u>http://websoilsurvey.nrcs.usda.gov/</u>

Soil type mapped: 312 B- Woodbridge fine sandy loam Hydric Soil Inclusions: Ridgebury

Are field observations con	sistent with soil	survey? Yes	No
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Remarks:

2. Soil Description

Horizon	Depth (in)	Matrix Color	Mottles Color
0	1-0"	10YR 2/2	
Α	0-4"	10YR 2/2	
В	4+"	10YR 3/4	

Remarks:

3. Other:

Conclusion: Is soil hydric? Yes <u>No</u>

 Other Indicators of Hydrology: (check all that apply and describe) Site inundated: Depth to free water in observation hole: Depth to soil saturation in observation hole: Water Marks: Drift lines: Sediment deposits: Drainage patterns in BVW: channel
 Depth to free water in observation hole: Depth to soil saturation in observation hole: Water Marks: Drift lines: Sediment deposits:
 Depth to soil saturation in observation hole: Water Marks: Drift lines: Sediment deposits:
 Water Marks: Drift lines: Sediment deposits:
 Drift lines: Sediment deposits:
Sediment deposits:
Drainage patterns in BVW: channel
Oxidized rhizospheres:
Water-stained leaves:
Recorded data (stream, lake, or tidal gauge; aerial photo; other):
Other: microrelief
Vegetation and Hydrology Conclusion
Yes No
Number of wetland indicator plants \geq number of non-wetland indicator plants
Wetland hydrology present: hydric soil present
other indicators of hydrology
Present
Sample location is in a BVW Image: Submit this form with the Request for Determination of Applicability or Notice of Intent

Applicant: _____ Prepared by: Pare Corporation Project location: Walnut Street, Foxborough DEP File #: None

L. Gluck P.W.S, Erika Klinkhammer

Check all that apply:

_____Vegetation alone presumed adequate to delineate BVW boundary: fill out section I only.

X Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II.

_____Method other than dominance test used (attach additional information).

Section I.	• Observation Plot Number: 2 Transect Number:	B (Wetland Station)	$5' \pm U/G$ WF B-9	Date of Delineation: Mag	y 10, 2022
	le Layer and Plant Species	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category *
	,		50	(Tes of No) Y	0,
Tree	White Pine (Pinus strobus)	26-50 (38.0)		Ĩ	FACU
	Red Oak (Quercus rubra)	26-50 (38.0)	50	Y	FACU
	Total	76.0	100		
Sapling	Red Maple (<i>Acer rubrum</i>)	26-50 (38.0)	48	Y	FAC*
	White Pine (Pinus strobus)	16-25 (20.5)	26	Y	FACU
	Wild Black Cherry (Prunus serotina)	16-25 (20.5)	26	Y	FACU
	Total	79.0	100		
Shrub	Sweet Pepperbush (Clethra alnifolia)	1-5 (3.0)	3	N	
	Lowbush Blueberry (Vaccinium corymbosum)	26-50 (38.0)	41	Y	FACU
	Arrowwood (Viburnum dentatum)	16-25 (20.5)	22	Y	FAC*
	Glossy Buckthorn (Frangula alnus)	6-15 (10.5)	11	N	
	Oriental Bittersweet (Celastrus orbiculatus)	16-25 (20.5)	22	Y	UPL
	Total	92.5	99**		
Herb	Canada Mayflower (Maianthemum canadense)	26-50 (38.0)	44	Y	FACU
	Wood Anemone (Anemone quinquefolia)	26-50 (38.0)	44	Y	FACU
	Aster (Aster sp.)	6-15 (10.5)	12	N	
	Total	86.5	100		

**total does not equal 100 due to rounding

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

Vegetation Conclusion:

Number of dominant wetland indicator plants: 2 Number of dominant non-wetland indicator plants: 8

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? YES NO

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

Hydric Soil Interpretation 1. Soil Survey

Is there a published soil survey for this site? Yes No <u>Title/Date</u>: Norfolk and Suffolk Counties, Massachusetts

<u>Map Number</u>: Accessed via Web Soil Survey <u>http://websoilsurvey.nrcs.usda.gov/</u>

Soil type mapped: 312B- Woodbridge fine sandy loam, 0-8% slopes Hydric Soil Inclusions: Ridgebury

Are field observations	consistent	with soil	survey?	Yes	No
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Remarks:

2. Soil Description

Horizon	Depth (in)	Matrix Color	Mottles Color
0	1-0"	10YR 2/1	
А	0-8"	10YR 2/1	
В	8-12+"	10YR 5/8	

Remarks: located along maintained road shoulder.

3. Other:

Conclusion: Is soil hydric? Yes No

Yes No
Vegetation and Hydrology Conclusion
Other: microrelief
Recorded data (stream, lake, or tidal gauge; aerial photo; other):
Water-stained leaves:
Oxidized rhizospheres:
Drainage patterns in BVW: channel
Sediment deposits:
Drift lines:
Water Marks:
Depth to soil saturation in observation hole:
Depth to free water in observation hole:
Site inundated:
Other Indicators of Hydrology: (check all that apply and describe)

	Yes	No
Number of wetland indicator plants \geq number of non-wetland indicator plants		\boxtimes
Wetland hydrology present: hydric soil present		\boxtimes
other indicators of hydrology present		
Sample location is in a BVW		\square

Submit this form with the Request for Determination of Applicability or Notice of Intent

Applicant: _____Prepared by: Pare Corporation Project location: Walnut Street, Foxborough DEP File #: None

L. Gluck P.W.S, Erika Klinkhammer

Check all that apply:

_____Vegetation alone presumed adequate to delineate BVW boundary: fill out section I only.

X Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II.

_____Method other than dominance test used (attach additional information).

Section I.	Observation Plot Number: 1 Transect Number:	:: CB (Wetland Station) $5' \pm D/G$ WF B-9		Date of Delineation: May 10, 2022	
	le Layer and Plant Species ommon/ scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category *
Tree	Red Maple (Acer rubrum)	26-50 (38.0)	50	Y	FAC*
	White Ash (Fraxinus americana)	26-50 (38.0)	50	Y	FACU* (buttressed roots)
	Total	76.0	100		
Sapling	Red Maple (<i>Acer rubrum</i>)	26-50 (38.0)	100	Y	FAC*
	Total	38.0	100		
Shrub	Sweet Pepperbush (Clethra alnifolia)	16-25 (20.5)	15	N	
	Highbush Blueberry (Vaccinium corymbosum)	16-25 (20.5)	15	N	
	Meadowsweet (Spiraea alba)	26-50 (38.0)	29	Y	FACW*
	Arrowwood (Viburnum dentatum)	16-25 (20.5)	15	N	
	Glossy Buckthorn (Frangula alnus)	6-15 (10.5)	8	N	
	Oriental Bittersweet (Celastrus orbiculatus)	16-25 (20.5)	15	N	
	Total	130.5	97**		
Herb	Cinnamon Fern (Osmunda cinnamomea)	26-50 (38.0)	48	Y	FACW*
	Jewelweed (Impatiens capensis)	16-25 (20.5)	26	Y	FACW*
	Poison Ivy (Toxicodendron radicans)	6-15 (10.5)	13	N	
	Canada Mayflower (Maianthemum canadense)	6-15 (10.5)	13	N	
	Total	79.5	100		

**total does not equal 100 due to rounding

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

Vegetation Conclusion:

Number of dominant wetland indicator plants: 6 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? YES NO

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

Hydric Soil Interpretation 1. Soil Survey

Is there a published soil survey for this site? Yes No Title/Date: Norfolk and Suffolk Counties, Massachusetts

Map Number: Accessed via Web Soil Survey http://websoilsurvey.nrcs.usda.gov/

Soil type mapped: 312B- Woodbridge fine sandy loam, 0-8% slopes Hydric Soil Inclusions: Ridgebury

Are field observations consistent with soil survey? Yes No

Remarks:

Soil Description

Horizon	Depth (in)	Matrix Color	Mottles Color
0	1-0"	10YR 2/1	
А	0-18+"	10YR 2/1	

Remarks: Saturated 4" below surface

2. Other:

Conclusion: Is soil hydric? Yes

No

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

Site inundated:

Depth to free water in observation hole:

 \boxtimes Depth to soil saturation in observation hole: 4"

Water Marks:

Drift lines:

Sediment deposits:

 \boxtimes Drainage patterns in BVW: outfall between B7 and B8

Oxidized rhizospheres:

Water-stained leaves:

Recorded data (stream, lake, or tidal gauge; aerial photo; other):

Other: microrelief

Vegetation and Hydrology Conclusion					
	Yes	No			
Number of wetland indicator plants \geq number of non-wetland indicator plants					
Wetland hydrology present: hydric soil present	\boxtimes				
other indicators of hydrology present	\boxtimes				
Sample location is in a BVW					

Applicant: ______Prepared by: <u>Pare Corporation</u> Project location: <u>Walnut Street</u>, Foxborough DEP File #: <u>None</u>

L. Gluck P.W.S, Erika Klinkhammer

Check all that apply:

_____Vegetation alone presumed adequate to delineate BVW boundary: fill out section I only.

X Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II.

_____Method other than dominance test used (attach additional information).

Section I. Observation Plot Number: 1 Transect Number: C (Wetland Station) 5'± D/G WF C-13 Date of Delineation: May 10, 2022					y 10, 2022
A. Samp	le Layer and Plant Species	B. Percent Cover	C. Percent	D. Dominant Plant	E. Wetland Indicator
(by co	ommon/ scientific name)	(or basal area)	Dominance	(Yes or No)	Category *
Tree	Red Maple (Acer rubrum)	16-25(20.5)	30	Y	FAC*
	Tupelo (Nyssa sylvatica)	6-15 (10.5)	15	Ν	
	Red Oak (Quercus rubra)	26-50 (38.0)	55	Y	FACU
	Tot	al 69	100		
Sapling	Red Maple (<i>Acer rubrum</i>)	6-15 (10.5)	50	Y	FAC*
	White Pine (Pinus Strobus)	6-15 (10.5)	50	Y	FACU
	Tot	al 21	100		
Shrub	Sweet Pepperbush (Clethra alnifolia)	51-75 (63.0)	75	Y	FAC*
	Witch Hazel (Hamamelis virginiana)	16-25 (20.5)	25	Y	FACU
	Tot	al 83.5	100		
Herb	Cinnamon Fern (Osmunda cinnamomea)	16-25 (20.5)	50	Y	FACW*
	Canada May (Maianthemum canadense)	16-25 (20.5)	50	Y	FACU
	Tot	al 41	100		

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

Vegetation Conclusion:

 Number of dominant wetland indicator plants: 4
 Number of dominant non-wetland indicator plants: 4

 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants?
 YES
 NO

 If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.
 No

Hydric Soil Interpretation 1. Soil Survey

Is there a published soil survey for this site? Yes No Title/Date: Norfolk and Suffolk Counties, Massachusetts

Map Number: Accessed via Web Soil Survey http://websoilsurvey.nrcs.usda.gov/

Soil type mapped: 73A- Whitman Fine Sandy Loam

Hydric Soil Inclusions: Ridgebury, Scarboro and Swansea

Are field observations consistent with soil survey? Yes No

Remarks:

Soil Description

Horizon	Depth (in)	Matrix Color	Mottles Color
0	1-0"	10YR 2/2	
А	0-6"	10YR 2/1	

Remarks: After 6" hit rock; saturated 4" below surface

2. Other:

Conclusion: Is soil hydric? Yes

No

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

Site inundated:

Depth to free water in observation hole:

 \boxtimes Depth to soil saturation in observation hole: 4"

Water Marks:

Drift lines:

] Sediment deposits:

Drainage patterns in BVW:

Oxidized rhizospheres:

Water-stained leaves:

Recorded data (stream, lake, or tidal gauge; aerial photo; other):

Other: microrelief

Vegetation and Hydrology Conclusion					
	Yes	No			
Number of wetland indicator plants \geq number of non-wetland indicator plants	\boxtimes				
Wetland hydrology present: hydric soil present	\boxtimes				
other indicators of hydrology present	\boxtimes				
Sample location is in a BVW					

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Applicant: ______Prepared by: Pare Corporation Project location: Walnut Street, Foxborough DEP File #: None

L. Gluck P.W.S, Erika Klinkhammer

Check all that apply:

_____Vegetation alone presumed adequate to delineate BVW boundary: fill out section I only.

X Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II.

_____Method other than dominance test used (attach additional information).

Section I	. Observation Plot Number: 2 Transect Number:	C (Wetland Station)	$5' \pm U/G$ WF C-13	Date of Delineation: May	y 10, 2022
	ple Layer and Plant Species ommon/ scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category *
Tree	Red Maple (<i>Acer rubrum</i>)	16-25 (20.5)	25	Y	FAC*
	Red Oak (Quercus rubra)	51-75 (63.0)	75	Y	FACU
	Total	83.5	100		
Sapling	Red Maple (<i>Acer rubrum</i>)	1-5 (3.0)	7	N	
	White Pine (Pinus strobus)	26-50 (38.0)	86	Y	FACU
	Red Oak (Quercus rubra)	1-5 (3.0)	7	N	
	Total	44	100		
Shrub	Sweet Pepperbush (Clethra alnifolia)	1-5 (3.0)	9	N	
	Highbush Blueberry (Vaccinium corymbosum)	6-15 (10.5)	31	Y	FACW*
	Witch Hazel (Hamamelis virginiana)	16-25 (20.5)	60	Y	FACU
	Total	34	100		
Herb	Canada Mayflower (Maianthemum canadense)	26-50 (38.0)	78	Y	FACU
	Lowbush Blueberry (Vaccinium angustifolium)	6-15 (10.5)	22	Y	FACU
	Total	48.5	100		

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

Vegetation Conclusion:

Number of dominant wetland indicator plants: 2 Number of dominant non-wetland indicator plants: 5 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? YES NO

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

Hydric Soil Interpretation 1. Soil Survey

Is there a published soil survey for this site? Yes No <u>Title/Date</u>: Norfolk and Suffolk Counties, Massachusetts

<u>Map Number</u>: Accessed via Web Soil Survey <u>http://websoilsurvey.nrcs.usda.gov/</u>

Soil type mapped: 73A- Woodbridge fine sandy loam Hydric Soil Inclusions: Ridgebury

Are field observations consistent with soil survey? Yes	Nc
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Remarks:

2. Soil Description

Horizon	Depth (in)	Matrix Color	Mottles Color
0	1/2-0"	10YR 3/2	
Α	0-4"	10YR 2/2	

Remarks: After 4" of A layer, hit rock.

3. Other:

Conclusion: Is soil hydric? Yes <u>No</u>

Other Indicators of Hydrology: (check all that app	oly and d	escribe
Site inundated:		
Depth to free water in observation hole:		
Depth to soil saturation in observation hole:		
Water Marks:		
Drift lines:		
Sediment deposits:		
Drainage patterns in BVW: channel		
Oxidized rhizospheres:		
Water-stained leaves:		
Recorded data (stream, lake, or tidal gauge; a other):	aerial ph	ioto;
Other: microrelief		
Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants \geq number of non-wetland indicator plants		
Wetland hydrology present: hydric soil present		\boxtimes
other indicators of hydrology present		\boxtimes
Sample location is in a BVW		\square

Submit this form with the Request for Determination of Applicability or Notice of Intent

