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: mailbox@baycolonygroup.com

Abbreviated Notice of Resource Area Delineation Ridge Road Foxborough, MA

August, 2023

Prepared by:

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

Prepared for:

Fed Cap, Inc. P.O. Box 669 Foxborough, MA 02035

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: mailbox@baycolonygroup.com

August 14, 2023

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

RE: Ridge Road ANRAD

Dear Mr. Boette:

Enclosed please find an Abbreviated Notice of Resource Area Delineation (ANRAD) filed on behalf of Fed Cap, Inc. for the parcel of land located on the eastern side of Ridge Road (Map 35 Parcels 6 & 7) about 0.45 miles north of the intersection with Chestnut Street. This filing is in accordance with Ch. 131, S. 40 Wetlands Protection Act and the Foxborough Wetlands Protection Bylaw Chapter 267 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, a \$1,012.50 check made payable to the Town of Foxborough which represents the filing fee under the Wetlands Protection Act, and a check in the amount of \$2,000 made payable to the Town of Foxborough which represents the local bylaw filing fee. 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 an approximately 7.8 acre parcel of land that is currently undeveloped and consists of a wooded area. The land is bordered by vacant land to the north, Ridge Road to the west and the Neponset Reservoir to the north and east. Residential properties are located south of the property and on the west side of Ridge Road. The resource areas located include Bordering Vegetated Wetland, Inland Bank, and Bordering Land Subject to Flooding.

The field work to delineate the wetlands and attached documentation were done by PARE Corporation and 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.

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:

USGS Map Extract – Wrentham & Mansfield Quadrangles Wetlands Delineation Report dated August 10, 2023 by Pare Corporation which includes a FEMA Firmette, and MassGIS overlay.

Enclosure:

ANRAD Plan of Ridge Road Foxborough, MA dated August 14, 2023 by Bay Colony Group, Inc.



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.

Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

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

A General Information

,	Conoral Inform	idei o i i		
1.	Project Location (Note	e: electronic filers will cl	ick on button for GIS loca	ator):
	Ridge Road		Foxborough	02035
	a. Street Address		b. City/Town	c. Zip Code
	Latituda and Langitud		42°-04'-55.14"	71°-14'-30.21"
	Latitude and Longitude	e.	d. Latitude	e. Longitude
	35		6 & 7	
	f. Assessors Map/Plat Num	ber	g. Parcel /Lot Numbe	r
2.	Applicant:			
	a. First Name		b. Last Name	
	Fed Cap, Inc.			
	c. Organization			
	P.O. Box 669			
	d. Mailing Address			
	Foxborough		MA	02035
	e. City/Town		f. State	g. Zip Code
	508.543.6400 h. Phone Number	i. Fax Number	koz172@yahoo.com j. Email Address	
	n. Phone Number	i. Fax Number	· _	4 (1 - 1 - 1 PC 1
3.	Property owner (if diffe	erent from applicant):		than one owner (attach additional 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	
4.	Representative (if any):		
	William		Buckley, Jr.	
	a. Contact Person First Nan	ne	b. Contact Person Last Na	me
	Bay Colony Group, Inc	D		
	c. Organization			
	4 School Street			
	d. Mailing Address			
	Foxborough		MA	02035
	e. City/Town	500 540 6000	f. State	g. Zip Code
	508.543.3939	508.543.8866	billbuckley@baycolor	nygroup.com
	h. Phone Number	i. Fax Number	j. Email Address	
5.	Total WPA Fee Paid (1	from attached ANRAD \	Netland Fee Transmittal	Form):
	\$2,000	\$987.50	\$1012.50	\$2,000

b. WPA Fee Paid to State

calculated for online users.

Fees will be

a. Total WPA Fees Paid

d. Bylaw Fee Paid to Town



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 Foxborough Wetlands Protection Bylaw, Chapter 267

Provided by MassDEP:

157-

MassDEP File Number

Foxborough City/Town

B. Area	s)	Delin	eated
---------	----	-------	-------

4	Dandaria a \	/- matata d Matlemad (D) (A)	927	
1.	Bordering \	/egetated Wetland (BVW)	Linear Feet of Boundary Delinea	ated
2.	Check all n	nethods used to delineate the Borderi	ng Vegetated Wetland (BV	/W) boundary:
	a. 🛛 Ma	ssDEP BVW Field Data Form (attach	ed)	
	b. 🛛 Oth	ner Methods for Determining the BVW	/ boundary (attach docume	entation):
	1. 🛛	50% or more wetland indicator plant	s	
	2. 🛛	Saturated/inundated conditions exist	t	
	3.	Groundwater indicators		
	4. 🛛	Direct observation		
	5. 🛛	Hydric soil indicators		
	6.	Credible evidence of conditions prior	r to disturbance	
3.	Indicate an	y other resource area boundaries tha	t are delineated:	
Bor	dering Land	Subject to Flooding		1,627
a. R	esource Area			b. Linear Feet Delineated
Inla	nd Bank			2,083
	esource Area			d. Linear Feet Delineated
		267 - 25 Foot No Activity Zone		
	esource Area	007 400 5 404 4 15 404 4 41 11	7	f. Linear Feet Delineated
		267 - 100 Foot Vernal Pool No Activit	y Zone	h Lincon Foot Doling -to-d
g. R	esource 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. 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.



Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

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	/ IVIassuer
-------------	-------------

9. Payor name on check: Last Name

157-	
MassDEP File Number	
Foxborough	
City/Town	

D. Fees

8. Payor name on check: First Name

The fees for work proposed under each Abbreviated calculated and submitted to the Conservation Comm Wetland Fee Transmittal Form).	
Fee Exempt: No filing fee shall be assessed for the Commonwealth, federally recognized India authority, or the Massachusetts Bay Transport	
Applicants must submit the following information (in Form) to confirm fee payment:	addition to the attached Wetland Fee Transmittal
2282	8.13.2023
2. Municipal Check Number (State WPA Fee)	3. Check date
2281	8.13.2023
4. Municipal Check Number (Foxborough Bylaw Fee)	5. Check date
2285	8.13.2023
6. State Check Number	7. Check date
Fed Cap Inc	



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 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.

1. Signature of Applicant

2. Date

/

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (If any)

C. Data

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

Man alush (on behalf of Treasurer)

2. Date **g**/1

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.

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





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 Foxborough Wetlands Protection Bylaw, Chapter 267

A. Applicant Information

1.	Locati	on of Project:				
	Ridae	Road		Foxborough		
		et Address		b. City/Town		
	\$987.	50		2285		
	c. Fee a			d. Check number		
2.	Applic	ant:				
					Fed Cap, Inc	C.
	a. First	Name	b. Last Name		c. Company	
		3ox 669				
		ng Address				22225
		prough		MA		02035
	e. City/			f. Sta	ite	g. Zip Code
		43.6400				
	n. Phon	ne Number				
3.	Prope	rty Owner (if differe	ent):			
	a. First	Name	b. Last Name		c. Company	
	d. Mailii	ng Address				
	e. City/	Town		f. Sta	ite	g. Zip Code
	h Dhon	ne Number				
	II. PIIOII	ie iaumbei				
B	. Fees	S				
St	ate Fe	 es				
			fallanna fan aaab Daaann	na Avan Dalimantian ina	luded in the /	ANDAD (chock
			follows for each Resourd naximum fee for each AN			
ap Do	piicable lineatior	project type). The h	associated with a single	ranily house and \$2 (000 for any of	her activity
	inicatioi	13, 13 \$200 activities	associated with a single	ranny nouse and \$2,0	oo lor arry or	nor activity.
	Borde	ring Vegetated We	tland Delineation Fee:			
	1.	single family				
		house project	a. linear feet of BVW	x \$2.00 =	b. Fee for	BVW
	2. 🛛	all other	927		\$1,854	
		projects	a. linear feet of BVW	x \$2.00 =	b. Fee for	BVW
	Other	Resource Area (e.	g., bank, riverfront area	ı, etc.):		
	3.	single family				
	٠. ـــــا	house project	a. linear feet	x \$2.00 =	b. Fee	
	4. 🛛	all other	3,710		\$7,420	
	2	projects	a. linear feet	x \$2.00 =	b. Fee	
		, ,	T-1-1 Ot-1- F f-	A	\$2,000	
			i otal State Fee to	or all Resource Areas:	Fee	
			04	ata ahara af filing for:	\$987.50	
			St	ate share of filing fee:	5. 1/2 of to	tal fee less \$12.50
			Town ch	are of State filing foo:	\$1012.50	
			1 OWIT SIT	are of State filing fee:	6 1/2 of to	tal fee plus \$12.50



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.

Border	ing Vegetated We	tland Delineation Fee:			
1.	single family				
	house project	a. linear feet of BVW	x \$2.00 =	b.Fee for BVW	
2. 🛛	all other	927		\$1,854	
	projects	a. linear feet of BVW	x \$2.00 =	b. Fee for BVW	
Other I	Resource Areas (e	e.g., bank, riverfront are	a I and Subject to Floo	dina etc.):	
3.	single family				
3.		a. linear feet	x \$2.00 =	b. Fee	
	single family house project all other	a. linear feet 3,710	x \$2.00 =	b. Fee \$7,420	
3.	single family house project	a. linear feet		b. Fee \$7,420 b. Fee	
3.	single family house project all other	a. linear feet 3,710 a. linear feet	x \$2.00 =	b. Fee \$7,420	

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:

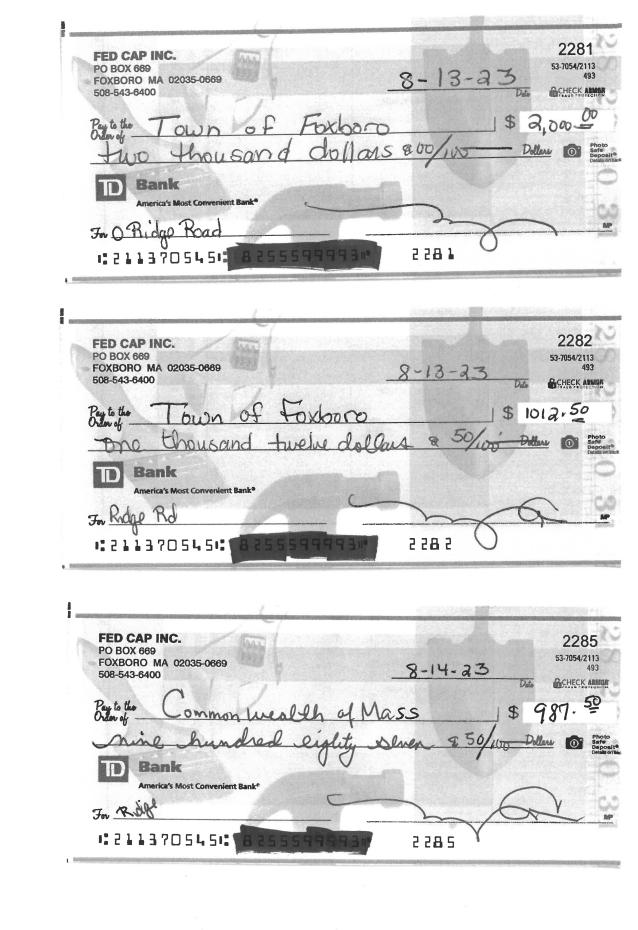
Department of Environmental Protection Box 4062 Boston, MA 02211

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



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 Fed Cap, Inc.
- C. The address of the land where the activity is proposed is Ridge Road (Map 35 Parcels 6 & 7), 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 Bay Colony Group, Inc. by calling 508.543.3939 from [times]
 8:00 am − 4:30 pm 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 Bay Colony Group, Inc. by calling 508.543.3939 from [times] 8:00 am 4:30 pma on [day] 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.

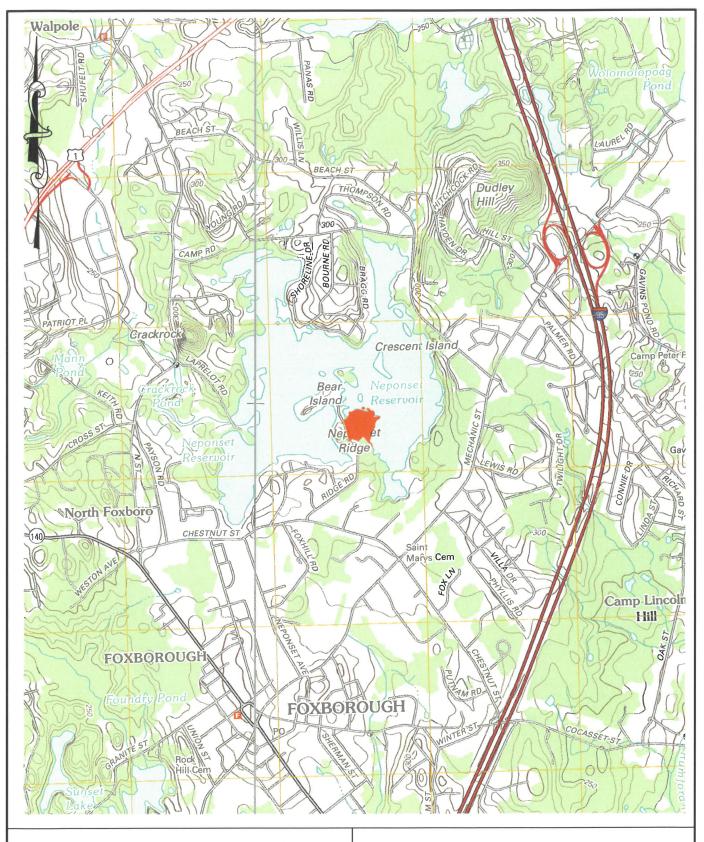
Conservation Commission meeting agendas may be viewed online at: http://www.foxboroughma.gov/Pages/FoxboroughMA_ConsAgendas/

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.

Parcel Number	GIS Number	Cama Number	Property Address	Owner Name	Owner Address	Owner City	Owner State	Owner Zip
026-032-000	M_220800_870417	026-032-000	NORTH STREET	TOWN OF FOXBOROUGH CONSERVATION	40 SOUTH STREET	FOXBOROUGH	MA	02035
034-001-000	M_221222_870212	034-001-000	54 RIDGE ROAD	MCGUE THOMAS A & KAREN C TE	54 RIDGE ROAD	FOXBOROUGH	MA	02035-0000
034-002-000	M 221239 870256	034-002-000	58 RIDGE ROAD	KENNEDY KRISTEN E	58 RIDGE ROAD	FOXBOROUGH	MA	02035
035-005-000	M_221266_870266	035-005-000	RIDGE ROAD	TOWN OF FOXBOROUGH	40 SOUTH STREET	FOXBOROUGH	MA	02035-0000
045-007-000	M_221289_870065	045-007-000	40 RIDGE ROAD	DONOVAN MICHAEL & DONOVAN MACKENZIE	40 RIDE ROAD	FOXBOROUGH	MA	02035
045-008-000	M_221247_870141	045-008-000	46 RIDGE ROAD	HEINZ JAMES V & THERESA TE	46 RIDGE ROAD	FOXBOROUGH	MA	02035
045-009-000	M_221353_870086	045-009-000	39 RIDGE ROAD	HENDERSON ROBERT B & DEBORAH	39 RIDGE ROAD	FOXBORO	MA	02035-0000
045-010-000	M_221402_870073	045-010-000	37 RIDGE ROAD	OLEARY EDWARD T & CLAUDIA M	37 RIDGE ROAD	FOXBOROUGH	MA	02035-0000

Appendix A – USGS Quadrangle Extract Wetland Delineation Report MassGIS Overlay FEMA Firmette



BAY COLONY GROUP, INC. FOUR SCHOOL STREET FOXBOROUGH, MA 02035 (508) 543-3939 USGS MAP EXTRACT
RIDGE ROAD
FOXBOROUGH, MA 02035
WRENTHAM QUADRANGLE/MANSFIELD QUADRANGLE
SCALE: 1"= 2,000'



parecorp.com









August 10, 2023

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

Re: Wetland Delineation

Ridge Road - Map 35, Parcels 6 and 7

Foxborough, MA

Pare Project No. 18170.39

Dear Mr. Buckley,

Pare Corporation (Pare) delineated the wetland resource areas affecting two undeveloped parcels of land located on Ridge Road in Foxborough (the site). The site is approximately 7.8 acres in size and includes Parcels 6 and 7 on Foxborough Assessor's Map 35. The site consists of a wooded peninsula of land bordering on the south side of the Neponset Reservoir and is located within an area known as "Neponset Ridge". The delineations were completed to establish the limits of wetland resource areas and buffer zones that may impact future development on the property. Pare's investigations and delineations of wetlands were completed between May 2 and May 9, 2023.

The following report describes the delineated wetlands, discusses the delineation methodology, and summarizes review of 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

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, 2022) 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 Bank of the Neponset Reservoir bordering the site. 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 the first observable break in slope. During the delineation, BVW Data Forms were completed for representative plots along the wetland/upland border.



Mr. William Buckley (2) July 25, 2023

WETLAND DESCRIPTIONS

Neponset Reservoir

The Neponset Reservoir, an impoundment of the Neponset River, borders the north and east sides of the subject property. While the reservoir was originally constructed to store water for industrial uses, it now supports recreational use and is primarily bordered by residential development. The edges of the Neponset Reservoir are defined in section 10.54 (2) of the WPA Regulations as **Bank**, which has an associated **100-foot Buffer Zone** per section 10.02 (2)(b) of the WPA Regulations, in addition to a **25-foot No Activity Zone** under the Foxborough Wetlands Protection Bylaw.

Flag series P-1 to P-98 defines the Bank of the Reservoir bordering the subject property. The flag series begins at the northwest limit of the site along the shoulder of Ridge Road and follows east and then south along the perimeter of the property before ending a short distance offsite to the southeast. The Bank is generally located at the base of a well-defined, forested slope. Steeper portions of the Bank transition immediately to forested upland, however several fringes of Bordering Vegetated Wetland (BVW, described in a later section) are present along the toe of the slope. Between flags P-26 to P-28, a small cove-like area of the pond extends into the tree line. A narrow earthen berm colonized by shrubs and young trees is present between cove and the main body of the pond, however water staining and scour marks across the berm indicate that it regularly overtops. A linear, wooded area extends eastward into the pond along the east side of the site between Bank flags P-59 and P-70, creating a small peninsula. Species of vegetation observed along the Bank included, but was not limited to, the following:

Common Name	Scientific Name	Indicator Status
American Beech	Fagus grandifolia	FACU
Red Oak	Quercus rubra	FACU
White Oak	Quercus alba	FACU
White Pine	Pinus strobus	FACU
Red Maple	Acer rubrum	FAC
Eastern Hemlock	Tsuga canadensis	FACU
Highbush Blueberry	Vaccinium corymbosum	FACW
Sweet Pepperbush	Clethra alnifolia	FAC
Princess Pine	Lycopodium obscurum	FACU
Common Greenbriar	Smilax rotundifolia	FAC

Bordering Vegetated Wetlands

Five (5) forested wetlands are present along the perimeter of the site. Each of these areas consists of a fringe wetland located between the toe of slope and delineated Bank. According to 310 CMR 10.55(2), these areas are classified as **Bordering Vegetated Wetlands (BVW)** which have associated **100-foot Buffer Zones** under the WPA Regulations in addition to a **25-foot "No Activity Zone"** under the Foxborough Wetlands Protection Bylaw. Each of these areas is described below.

Wetland A

Flag series A-1 to A-8 defines the edge of a narrow fringe wetland in the southwestern portion of the site. The series begins a short distance offsite to the south at Bank flag P-94 and extends northeast along the toe of slope before ending between bank flags P-88 and P-89. The wetland is a low-lying forested area along the northern bank of a small inlet of the Neponset Reservoir and appears to be seasonally flooded with pockets of water stained leaves. The BVW is dominated by Red Maple (*Acer rubrum*), Sweet Pepperbush



Mr. William Buckley (3) July 25, 2023

(Clethra alnifolia), Sheep Laurel (Kalmia angustifolia), and Highbush Blueberry (Vaccinium corymbosum). Species of vegetation observed within the wetland included, but were not limited to, the following:

Common Name	Scientific Name	Indicator Status
American Beech	Fagus grandifolia	FACU
Black Birch	Betula lenta	FACU
White Oak	Quercus alba	FACU
White Pine	Pinus strobus	FACU
Red Maple	Acer rubrum	FAC
Highbush Blueberry	Vaccinium corymbosum	FACW
Sweet Pepperbush	Clethra alnifolia	FAC
Sheep-Laurel	Kalmia angustifolia	FAC
Princess Pine	Lycopodium obscurum	FACU

Wetland B

Flag series **B-1** to **B-30** defines the edge of a BVW located along the north side of the site. The series begins at Bank flag P-29 and extends south for a short distance to follow a small cove-like area of the reservoir before turning west along the toe of the wooded slope. The series ends at Bank flag P-2 in a disturbed area adjacent to the shoulder of Ridge Road. In most areas the wetland consists of a narrow fringe wetland closely bordering the edge of the Neponset Reservoir, however broadens in locations where the slope is more gradual. The BVW is dominated by Red Maple (*Acer rubrum*), Highbush Blueberry (*Vaccinium corymbosum*) and Sweet Pepperbush (*Clethra alnifolia*). Species of vegetation observed within the wetland included, but were not limited to, the following:

Common Name	Scientific Name	Indicator Status
Black Birch	Betula lenta	FACU
Red Oak	Quercus rubra	FACU
White Pine	Pinus strobus	FACU
Red Maple	Acer rubrum	FAC
Highbush Blueberry	Vaccinium corymbosum	FACW
Sweet Pepperbush	Clethra alnifolia	FAC
Black Huckleberrry	Gaylussacia baccata	FACU
Witch Hazel	Hamamelis virginiana	FACU

Wetland C

Flag series **C-1** to **C-9** defines the edge of a BVW along the southeast edge of the site between Bank flags P-80 and P-86. It occupies a small low-lying area adjacent of the Neponset Reservoir and appears to be seasonally flooded/saturated based on the presence of microrelief and pockets of water stained leaves. A large area of tree throw has extended the Bank of the Neponset Reservoir deeper into the wetland than previously existed. The BVW is dominated by Red Maple (*Acer rubrum*), Black Tupelo (*Nyssa sylvatica*), Swamp Azalea (*Rhododendron viscosum*), Dangleberry (*Gaylussacia frondosa*), Highbush Blueberry (*Vaccinium corymbosum*), and Princess Pine (*Lycopodium obscurum*). Species of vegetation observed within the wetland included, but were not limited to, the following:



Mr. William Buckley (4) July 25, 2023

Common Name	Scientific Name	Indicator Status
Red Oak	Quercus rubra	FACU
Black Tupelo	Nyssa Sylvatica	FAC
White Pine	Pinus strobus	FACU
Red Maple	Acer rubrum	FAC
Swamp Azalea	Rhododendron viscosum	FACW
Highbush Blueberry	Vaccinium corymbosum	FACW
Sweet Pepperbush	Clethra alnifolia	FAC
Dangleberry	Gaylussacia frondosa	FAC
Princess Pine	Lycopodium obscurum	FACU
American Wintergreen	Pyrola americana	FAC

Wetland D

Flag series **D-1** to **D-8** defines the edge of a BVW at the east side of the site. The series begins at Bank flag P-76 and extends north along the toe of the slope to Bank flag P-71. The area consists of a narrow fringe wetland between the toe of the slope and Bank. The BVW is dominated by Red Maple (*Acer rubrum*), Red Oak (*Quercus rubra*), Highbush Blueberry (*Vaccinium corymbosum*), and Sweet Pepperbush (*Clethra alnifolia*). The wetland appears to have saturated hydrology and may be temporarily to seasonally flooded in lower elevation areas closer to the Reservoir. Species of vegetation observed within the wetland included, but were not limited to, the following:

Common Name	Scientific Name	Indicator Status	
Red Oak	Quercus rubra	FACU	
Red Maple	Acer rubrum	FAC	
Highbush Blueberry	Vaccinium corymbosum	FACW	
Witch Hazel	Hamamelis virginiana	FACU	
Common Greenbriar	Smilax rotundifolia	FAC	

Wetland E

Flag series **E-1** to **E-9** defines the southwest edge of a BVW at the northeast corner of the site. The series begins at Bank flag P-51 and extends north for a short distance and turning west, ending at Bank flag P-39. In this area, there is a slight protrusion of forested wetland into the Reservoir as well as shallow areas below the Bank colonized by shrubs and emergent vegetation. Most of the wetland has a saturated hydrology and and may be temporarily to seasonally flooded in lower elevation areas closer to the Reservoir. The BVW is dominated by Red Maple (*Acer rubrum*), Red Oak (*Quercus rubra*), Black Huckleberry (*Gaylussacia baccata*), Highbush Blueberry (*Vaccinium corymbosum*), and Common Greenbriar (*Smilax rotundifolia*). Species of vegetation observed within the wetland included, but were not limited to, the following:

Common Name	Scientific Name	Indicator Status
Red Oak	Quercus rubra	FACU
White Pine	Pinus strobus	FACU
Red Maple	Acer rubrum	FAC
Highbush Blueberry	Vaccinium corymbosum	FACW
Black Huckleberry	Gaylussacia baccata	FACU
Sweet Pepperbush	Clethra alnifolia	FAC
Common Greenbriar	Smilax rotundifolia	FAC



Mr. William Buckley (5) July 25, 2023

REVIEW OF PUBLISHED MAPPING

Review of published mapping and relevant MassGIS data layers on August 10, 2023 revealed the following:

- No Certified Vernal Pools or Potential Vernal Pools are located on the subject property. A Potential Vernal Pool (PVP ID 26459) is mapped within the interior of the A-series BVW, approximately 350 feet offsite to the east. Due to its distance from the site, the PVP was not investigated or delineated.
- 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 the site (Community Panel No. 25021C0353E, effective date July 17, 2012), the site includes an area of 100-year Floodplain designated as Zone A, areas subject to inundation by the 100-year frequency storm. The Floodplain does not include a base flood elevation. According to 310 CMR 10.57, the mapped Floodplain area outside of the Neponset Reservoir and BVWs (if any) is classified as Bordering Land Subject to Flooding. The FIRM is attached as Figure 3.

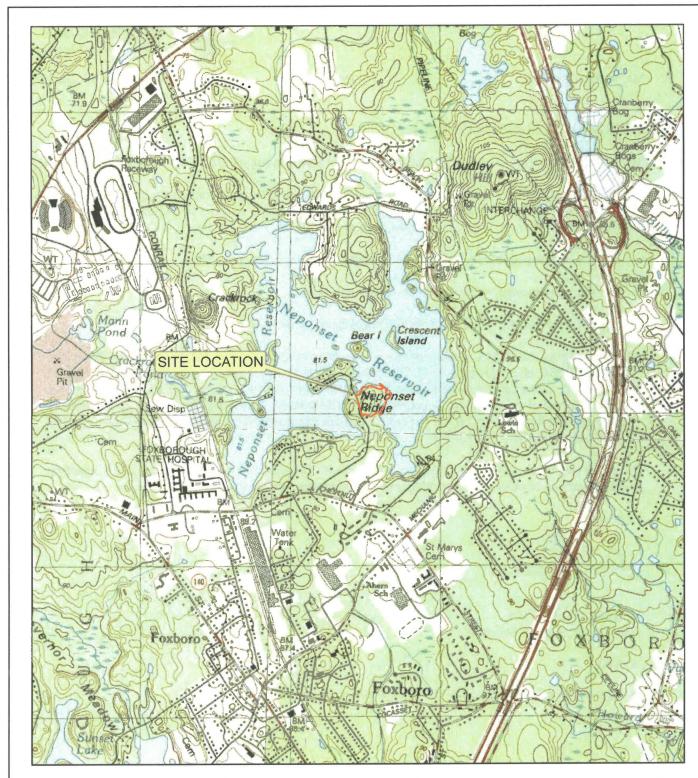
Thank you very much for the opportunity to assist you with this project. If you have any questions regarding project permitting or other issues, or require further assistance, please do not hesitate to call.

Sincerely,

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

LHG/GL

Z:\JOBS\18 Jobs\18170.39 - Ridge Road Foxborough - MA\REPORTS\Wetlands\Wetland Report.doc





SITE LOCATION MAP

SCALE:1"=2,000'





8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 (401) 334-4100

10 LINCOLN ROAD, SUITE 210 FOXBORO, MA 02035 (508) 543-1755

PARE PROJECT No. 18170.39

MAY 2023

FIGURE 1

RIDGE ROAD FOXBORO, MA





ANNOTATED AREIAL PHOTOGRAPH

SCALE:1"=150'





8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 (401) 334-4100

10 LINCOLN ROAD, SUITE 210 FOXBORO, MA 02035 (508) 543-1755

PARE PROJECT No. 18170.39

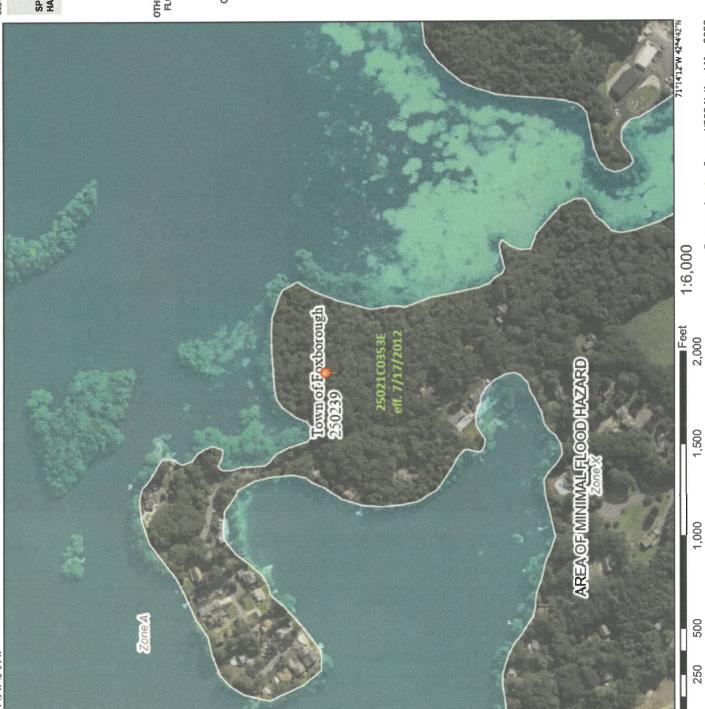
MAY 2023

FIGURE 2

RIDGE ROAD FOXBORO, MA

National Flood Hazard Layer FIRMette





Legend

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







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

This map compiles with FEMA's standards for the use of digital flood maps if it is not void as described below.

The besemap shown compiles with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on \$/10/2023 at 10:58 AM and does not reflect changes or amendments subsequent to this date and rime. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear. basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Basemap Imagery Source: USGS National Map 2023



Photo 1: Typical view of Bank and Wetland B at northwest side of site, facing downslope from road shoulder.



Photo 2: Bank and northeast end of Wetland B along small cove-like area, facing south from Bank flag P-28.

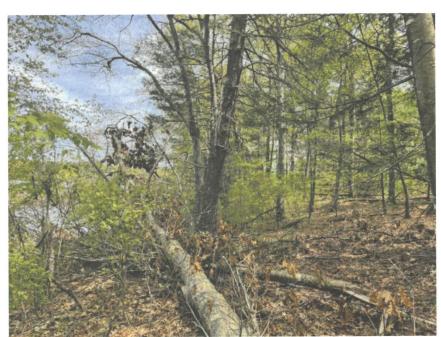


Photo 3: Typical view of Bank along north side of site in the upland area between Wetland B and E.



Photo 4: Wetland E located along Bank at northeast side of site, facing downslope to Neponset Reservoir.



Photo 5: Upland peninsula extending into Neponset Reservoir between Bank flags P-58 and P-70.



Photo 6: Wetland D located along east side of site, facing north along Bank of Neponset Reservoir.



Photo 7: Wetland C located along southeast side of site, facing north along Bank of Neponset Reservoir.



Photo 8: Wetland A located at southeast corner of site, facing southeast from wetland edge.

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: Ridge Road	City/Town: Foxbor	ough, M/	$\frac{\Delta_{-}}{\Delta_{-}}$ Sampling Date: $\frac{007}{\Delta_{-}}$	02/2023
Applicant/Owner: Town of Foxboroug	gh	Samp	oling Point or Zone:A	4 UPLAND
Investigator(s): Lauren Gluck, PWS	; Greg LaCroix La	titude/Lon	gitude: <u>42°04'53.3"N</u> 7	1°14'27.3"W
Soil Map Unit Name: Hinckley loamy sand, 8	to 15 percent slopes (245C) NWI	or DEP Cla	ssification: N/A	
Are climatic/hydrologic conditions on the	site typical for this time of year?	Yes>	No (If no, expl	ain in Remarks)
Are Vegetation, Soil,	or Hydrology significar	tly disturb	oed? (If yes, explain in Re	marks)
Are Vegetation , Soil ,	or Hydrology naturally	problema	tic? (If yes, explain in Rer	marks)
SUMMARY OF FINDINGS – Attach site ma				
Wetland vegetation criterion met?	Yes NoX ls	he Samp	led Area Yes No	<u> </u>
Hydric Soils criterion met?	Yes NoX wit	hin a Wetl	and?	
Wetlands hydrology present?	Yes NoX			
Remarks, Photo Details, Flagging, etc.:				
HYDROLOGY				
Field Observations:				
Surface Water Present?			Depth (inches)	
Water Table Present?	Yes N	o	Depth (inches)	
Saturation Present (including capillary fri	nge)? Yes N	oX	Depth (inches)	
Wetland Hydrology Indicators				
Reliable Indicators of Wetlands	Indicators that can be Reliab	le with	Indicators of the Influenc	e of Water
Hydrology	Proper Interpretation			
Water-stained leaves	Hydrological records	-	Direct observation of	of inundation
Evidence of aquatic fauna	Free water in a soil test h		Drainage patterns	
Iron deposits	Saturated soil	_	Drift lines	
Algal mats or crusts	Water marks	-	Scoured areas	
Oxidized rhizospheres/pore linings	Moss trim lines	-	Sediment deposits	
Thin muck surfaces	Presence of reduced iron		Surface soil cracks	
Plants with air-filled tissue	Woody plants with adven	titious _	Sparsely vegetated	concave
(aerenchyma)	roots		surface	
Plants with polymorphic leaves	Trees with shallow root s	stems _	Microtopographic re	elief
Plants with floating leaves	Woody plants with enlarg	ed _	Geographic position	
Hydrogen sulfide odor	lenticels		toe of slope, fring	ing lowland)
Remarks (describe recorded data from s	tream gauge, monitoring well, a	erial photo	s, previous inspections, i	f 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> P	lot size30'							
		Indicator	Absolute	Dominant?	Wetland			
		Status	% Cover	(yes/no)	Indictor?			
Common name	Scientific name				(yes/no)			
1. American Beech	Fagus grandifolia	FACU	10.5%	no	no			
2. Black Birch	Betula lenta	FACU	3.0%	no	no			
3. Red Oak	Quercus rubra	FACU	20.5%	yes	no			
4. White Oak	Quercus alba	FACU	10.5%	no	no			
5. White Pine	Pinus strobus	FACU	20.5%	yes	no			
6.								
7.								
8.								
9.								
			65.0% = 7	Total Cover				
Shrub/Sapling Stratum Plot size15'								
		Indicator	Absolute	Dominant?	Wetland			
		Status	% Cover	(yes/no)	Indictor?			
Common name	Scientific name				(yes/no)			
Highbush Blueberry	Vaccinium corymbosum	FACW	20.5%	yes	yes			
2. White Pine	Pinus strobus	FACU	38.0%	yes	no			
3.								
4.								
5.								
6.								
7.								
8.								
9.								
			58.5% =	Total Cover	•			
Herb Stratum P	lot size5'							
Tierb Stratam		— Indicator	Absolute	Dominant?	Wetland			
		Status	% Cover	(yes/no)	Indictor?			
Common name	Scientific name	Status	70 COVCI	(403/110)	(yes/no)			
Sheep-Laurel	Kalmia angustifolia	FAC	63.0%	yes	yes			
Princess Pine	Lycopodium obscurum	FACU	10.5%	no	no			
3.	Lycopodium obscurum	17100	10.070		110			
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
			73.5% = 1	Total Cover				

VEGETATION – continued.

Woody Vine Stratum	Plot size30'					
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor?	
Common name	Scientific name				(yes/no)	
1. N/A	N/A	N/A	N/A	N/A	N/A	
2.						
3.						
4.						
N/A = Total Cover						

<u>Dominance Test</u> :	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indication up ≥ 50% of domination species?	inant plant
	5	2		Yes	NoX
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Re	sult
	OBL species	0	X1	= 0	
	FACW species	20.5	X 2	= 41	
	FAC species	63	Х3	= 189	
	FACU species	113.5	X 4	= 454	
	UPL species	0	X 5	= 0	
	Column Totals	(A) 197		(B) 684	
	Prevalence Index	B/A = 3.47		Is the Prevalence Yes	
Wetland vegetatio	n criterion met?	Yes No	X		

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height

Shrub/Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall

Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges					
Range	Midpoint				
1-5 %	3.0 %				
6-15 %	10.5 %				
15-25 %	20.5 %				
26-50 %	38.0 %				
51-75 %	63.0 %				
76-95 %	85.5 %				
96-100 %	98.0 %				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)										
Depth	Matrix				Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Lo	ocation ²	Texture	Remarks	
O 0.5-0"	10YR 3/4							Fibric		
A 0-2"	10YR 3/2							Fine Sandy Loam		
Bw 2-20+"	10YR 5/6							Sandy Loam		
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced M	latrix, M	S=Masked Sand	d Gra	ains ² Lo	cation: PL=Pore Lini	ng, M=Matrix	
Hydric Soil Indicators (Check all that apply)				Indicators for Problematic Hydric Soils						
Histosol (A1) Sandy Redox (S5)		S5)		2 cm Muck (A10)						
Histic E	pipedon (A2)		Stripp	ed Matri	ix (S6)		5 cm Mucky Peat or Peat (S3)			
Black H	istic (A3)		Polyv	alue Belo	w Surface (S8)		Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin [Dark Surf	ace (S9)	_	Polyvalue Below Surface (S8)			
Stratific	ed Layers (A5)		Loam	y Mucky	Mineral (F1)	_	Thin Dark Surface (S9)			
Deplete	ed Below Dark Su	rface (A	11)Loam	y Gleyed	Matrix (F2)	-	Iron-Manganese Masses (F12)			
Thick D	ark Surface (A12)	Deple	ted Mat	rix (F3)	-	Mesic Spodic (A17)			
Sandy I	Mucky Mineral (S	1)	Redo	x Dark Su	ırface (F7)	-	Red I	Parent Material (F21	.)	
Sandy	Gleyed Matrix (S4	1)	Deple	ted Dark	Surface (F8)		Very	Shallow Dark Surfac	ce (TF12)	
Dark Su	ırface (S7)					-	Othe	r (Include Explanation	on in Remarks)	
Restrictive L	ayer (if observed	I)	Туре:			_ D	epth (inch	es):		
Remarks:										
Hydric Soils	criterion met?		Yes	No	X					

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: Ridge Road	City/Town: Foxb	orough, M	MA_Sampling Date:_	05/02/2023
Applicant/Owner: Town of Foxborough	gh	Sar	npling Point or Zone: _	A4 Wetland
Investigator(s): Greg LaCroix		Latitude/Lo	ongitude: 42°04'53.3	3"N 71°14'27.3"W
Soil Map Unit Name: Hinckley loamy sand, 8	to 15 percent slopes (245C) NV	VI or DEP C	lassification: N/A	
Are climatic/hydrologic conditions on the				explain in Remarks)
Are Vegetation, Soil,				
Are Vegetation, Soil,				
SUMMARY OF FINDINGS – Attach site ma				
Wetland vegetation criterion met?	YesX No Is	the Sam	pled Area Yes X	No
Hydric Soils criterion met?	YesX No w	vithin a We	tland?	
Wetlands hydrology present?	Yes X No			
Remarks, Photo Details, Flagging, etc.:				
HYDROLOGY				
Field Observations:				
Surface Water Present?			Depth (inches)	
Water Table Present?	Yes X	No	Depth (inches)	5"
Saturation Present (including capillary fri	nge)? Yes X	No	Depth (inches)	0"
Wetland Hydrology Indicators				
Reliable Indicators of Wetlands	Indicators that can be Reli	able with	Indicators of the Influ	uence of Water
Hydrology	Proper Interpretation			
X Water-stained leaves	Hydrological records		X Direct observati	on of inundation
Evidence of aquatic fauna	Free water in a soil test	hole	Drainage patter	ns
Iron deposits	Saturated soil		Drift lines	
Algal mats or crusts	Water marks		Scoured areas	
Oxidized rhizospheres/pore	Moss trim lines		Sediment depos	sits
linings	Davis and and the		Cumfooo oo il anov	alta
Thin muck surfaces	Presence of reduced iro		Sparsely vegeta	
Plants with air-filled tissue	Woody plants with adv	entitious	surface	ted concave
(aerenchyma)	Trees with shallow root	tevetame	Microtopograph	nic relief
Plants with polymorphic leaves Plants with floating leaves	Woody plants with enla			ition (depression,
Hydrogen sulfide odor	lenticels	ii geu		fringing lowland)
		- حاد اماسه		
Remarks (describe recorded data from s	tream gauge, monitoring well,	aeriai pho	tos, previous inspectio	ns, ir avaliable):

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.

Tree	Stratum I	Plot size30'	_			
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Com	mon name	Scientific name				(yes/no)
1.	Red Oak	Quercus rubra	FACU	20.5%	yes	no
2.	Red Maple	Acer rubrum	FAC	38.0%	yes	yes
3.						
4.						
5.						
6.						
7.						
8.						
9.						
				<u>58.5%</u> = 1	Total Cover	
Shru	b/Sapling Stratum	Plot size15'	_			
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Com	mon name	Scientific name				(yes/no)
1. 5	Sweet Pepperbush	Clethra alnifolia	FAC	38.0%	yes	yes
2.	Highbush Blueberry	Vaccinium corymbosum	FACW	38.0%	yes	yes
3.	White Pine	Pinus strobus	FACU	10.5%	no	no
4.						
5.						
6.						
7.						
8.						
9.						
			_	86.5% = 1	Total Cover	
Herb	Stratum	Plot size <u>5'</u>	_			
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Com	mon name	Scientific name				(yes/no)
1.	Sheep-Laurel	Kalmia angustifolia	FAC	38.0%	yes	yes
2.	Princess Pine	Lycopodium obscurum	FACU	10.5%	yes	no
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
				48.5% = 1	Total Cover	

VEGETATION – continued.

Woody Vine Stratum	Plot size30'					
		Indicator	Absolute	Dominant?	Wetland	
		Status	% Cover	(yes/no)	Indictor?	
Common name	Scientific name				(yes/no)	
1. N/A	N/A	N/A	N/A	N/A	N/A	
2.						
3.						
4.						
N/A = Total Cover						

<u>Dominance Test</u> :	Number of dominant species	Number of dominant spo wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?		
	6	4		YesXNo		
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result		
	OBL species		X1	=		
	FACW species		X 2	=		
	FAC species		Х3	=		
	FACU species		X 4	=		
	UPL species		X 5	=		
	Column Totals	(A)		(B)		
	Prevalence Index	B/A =		Is the Prevalence Index ≤ 3.0? YesNo		

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height

Shrub/Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall

Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges					
Range	Midpoint				
1-5 %	3.0 %				
6-15 %	10.5 %				
15-25 %	20.5 %				
26-50 %	38.0 %				
51-75 %	63.0 %				
76-95 %	85.5 %				
96-100 %	98.0 %				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)										
Depth										
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Location ²	Texture	Remarks		
O 1-0"	10YR 3/4						Fibric			
A 0-4"	10YR 2/1		5YR 4/0				Fine Sandy Loam			
Bw 4-20+"	10YR 5/6						Sandy Loam			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ² Location: PL=Pore Lining, M=Matrix										
Hydric Soil I	ndicators (Check	all that	apply)			Indicator	Indicators for Problematic Hydric Soils			
Histosol (A1) <u>x</u> Sandy Redox (S5)					2 cm	2 cm Muck (A10)				
Histic Epipedon (A2)Stripped Matrix (S6)				5 cm	5 cm Mucky Peat or Peat (S3)					
Black Histic (A3) Polyvalue Below Surface (S8)			Dark	Dark Surface (S7)						
Hydrogen Sulfide (A4)Thin Dark Surface (S9)				ace (S9)	Poly	Polyvalue Below Surface (S8)				
Stratified Layers (A5)			Loamy Mucky Mineral (F1)			Thin	Thin Dark Surface (S9)			
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2)				Iron-	Iron-Manganese Masses (F12)					
Thick Dark Surface (A12) Depleted Matrix (F3)						Mes	Mesic Spodic (A17)			
Sandy Mucky Mineral (S1) Redox Dark Surface (F7)					Red	Red Parent Material (F21)				
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F8)					Very	Very Shallow Dark Surface (TF12)				
Dark Surface (S7)					Othe	Other (Include Explanation in Remarks)				
Restrictive Layer (if observed) Type: Depth (inches):										
Remarks:										
Hydric Soils criterion met? Yes X No										

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: Ridge Road City/Town: Foxborough, MA Sampling Date: 05/02/2023								
Applicant/Owner: Town of Foxborough Sampling Point or Zone: B3 Upland								
Investigator(s): Greg LaCroix Latitude/Longitude: 42°04'58.5"N 71°14'30.2"W								
Soil Map Unit Name: Hinckley loamy sand, 8	to 15 percent s	lopes (2	45C)_	NWI or	DEP C	lassification: N/L	Α	
Are climatic/hydrologic conditions on the	site typical fo	r this tir	me of y	ear?	Yes_	XNo (If	no, explain in Remarks)	
Are Vegetation , Soil ,	or Hydrology		sign	ificantly	y distu	rbed? (If yes, expla	ain in Remarks)	
Are Vegetation, Soil,								
SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.								
Wetland vegetation criterion met?						pled Area Yes	NoX	
Hydric Soils criterion met?	Yes	_ No _	X within a		n a We	Wetland?		
Wetlands hydrology present?	Yes	s NoX						
Remarks, Photo Details, Flagging, etc.:								
HYDROLOGY								
Field Observations:								
Surface Water Present?						Depth (inches		
Water Table Present?		Yes		No _	X	Depth (inches) <u>N/A</u>	
Saturation Present (including capillary fri	inge)?	nge)? Yes X No Depth (inches) 6")6"		
Wetland Hydrology Indicators								
Reliable Indicators of Wetlands Hydrology	Indicators t Proper Inter			eliable	with	Indicators of the	Influence of Water	
Water-stained leaves	Hydrol	ogical r	ecords			Direct obse	rvation of inundation	
Evidence of aquatic fauna	Free water in a soil test hole					Drainage patterns		
Iron deposits	xSaturated soil					Drift lines		
Algal mats or crusts	Water marks					Scoured areas		
Oxidized rhizospheres/pore linings	Moss trim lines					Sediment deposits		
Thin muck surfaces	Presence of reduced iron				Surface soil cracks			
Plants with air-filled tissue	Woody plants with adventitious				ious	Sparsely vegetated concave surface		
(aerenchyma)	roots							
Plants with polymorphic leaves	Trees with shallow root systemsWoody plants with enlarged					Microtopographic relief Geographic position (depression,		
Plants with floating leaves Hydrogen sulfide odor	lenticels						pe, fringing lowland)	
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):								
Saturated conditions present foll no other indicators present; there	owing a da	y of he	eavy r	ain and	d app	ear atypical for	the area with	

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.

Tree	Stratum P	lot size30'				
1100			— Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Comi	mon name	Scientific name			**	(yes/no)
1.	American Beech	Fagus grandifolia	FACU	10.5%	yes	no
2.	White Pine	Pinus strobus	FACU	10.5%	yes	no
3.	Eastern Hemlock	Tsuga canadensis	FAC	10.5%	yes	yes
4.	Red Oak	Quercus rubra	FACU	10.5%	yes	no
5.	Black Birch	Betula lenta	FACU	3.0%	no	no
6.						
7.						
8.						
9.						
			_	45.0% = 7	Total Cover	
<u>Shrul</u>	b/Sapling Stratum P	lot size15'	_			
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Com	mon name	Scientific name				(yes/no)
1.	Highbush Blueberry	Vaccinium corymbosum	FACW	20.5%	yes	yes
2.	Black Huckleberrry	Gaylussacia baccata	FACU	20.5%	yes	no
3.	Witch Hazel	Hamamelis virginiana	FACU	10.5%	yes	no
4.						
5.						
6.						
7.						
8.						
9.				F4 F0/		
			_	51.5% =	Total Cover	
<u>Herb</u>	<u>Stratum</u> F	Plot size5'				
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Com	mon name	Scientific name				(yes/no)
1.	Sheep-Laurel	Kalmia angustifolia	FAC	3.0%	yes	yes
	Princess Pine	Lycopodium obscurum	FACU	3.0%	yes	no
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.				6.0% =	Total Cover	
				D.U% =	rotal Cover	

Woody Vine Stratum	Plot size30'				
		Indicator	Absolute	Dominant?	Wetland
Common name	Scientific name	Status	% Cover	(yes/no)	Indictor? (yes/no)
1. N/A	N/A	N/A	N/A	N/A	N/A
2.					
3.					
4.					
		_	N/A =	Total Cover	

Total % Cover (a strata)	Multiply by:	_	No Result	X
Total % Cover (a strata)	Multiply by:		Result	
0	V 1			
1	XI	=	0	
es 20.5	X 2	=	41	
13.5	Х3	=	40.5	
es 68.5	X 4	=	274	
0	X 5	=	0	
als (A) 102.5		(B)	355.5	
e Index B/A =				
	als (A) 102.5 Index B/A =	als (A) 102.5	als (A) 102.5 (B) Index B/A = Is the Prev Yes _	Als (A) 102.5 (B) 355.5 Index B/A = Is the Prevalence Index: YesNo

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

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				Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Lo	cation ²	Texture	Remarks	
O 0-1"	10YR 3/4							Fibric		
A 1-5"	10YR 2/2							Fine Sandy Loam		
Bw 5-20+"	10YR 5/6							Sandy Loam		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ² Location: PL=Pore Lining, M=Matrix										
Hydric Soil I	ndicators (Check	all that a	apply)				Indicators	for Problematic Hy	dric Soils	
Histoso	l (A1)		Sandy	Redox (S5)		2 cm Muck (A10)			
Histic E	pipedon (A2)		Stripp	ed Matr	ix (S6)		5 cm Mucky Peat or Peat (S3)			
Black H	istic (A3)		Polyv	alue Belo	w Surface (S8)		Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin [Dark Surf	ace (S9)		Polyvalue Below Surface (S8)			
Stratific	ed Layers (A5)		Loam	y Mucky	Mineral (F1)		Thin Dark Surface (S9)			
Deplete	ed Below Dark Su	rface (A	11)Loam	y Gleyed	Matrix (F2)	_	Iron-Manganese Masses (F12)			
Thick D	ark Surface (A12))	Deple	ted Mat	rix (F3)	_	Mesic Spodic (A17)			
Sandy I	Mucky Mineral (S	1)	Redo	k Dark Su	ırface (F7)	_	Red I	Parent Material (F21	L)	
Sandy (Gleyed Matrix (S4	I)	Deple	ted Dark	Surface (F8)	_	Very Shallow Dark Surface (TF12)			
Dark Su	ırface (S7)					_	Othe	r (Include Explanati	on in Remarks)	
Restrictive L	ayer (if observed	1)	Туре:			_ De	epth (inch	es):		
Remarks:										
Hydric Soils criterion met? Yes NoX										

Project/Site: Ridge Road	City	//Town:	Fox	borough, I	MASampling Date: _	05/02/2023
Applicant/Owner: Town of Foxboroug	h			Sa	mpling Point or Zone: <u>E</u>	33 Wetland
Investigator(s): Greg LaCroix				Latitude/L	ongitude: <u>42°04'58.5"</u>	N 71°14'30.2"W
Soil Map Unit Name: Hinckley loamy sand, 8	to 15 percent slo	pes (245)	C) [NWI or DEP	Classification: N/A	
Are climatic/hydrologic conditions on the	site typical for	this time	e of y	ear? Yes_	X No (If no, e	explain in Remarks)
Are Vegetation, Soil,	or Hydrology _		signi	ficantly dist	urbed? (If yes, explain in	Remarks)
Are Vegetation, Soil,						
SUMMARY OF FINDINGS – Attach site ma						
Wetland vegetation criterion met?	Yes X	No			npled Area Yes X	No
Hydric Soils criterion met?	Yes X	_ No	_	within a W	etland?	
Wetlands hydrology present?	Yes X	_ No				
HYDROLOGY						
Field Observations:						
Surface Water Present?					Depth (inches)	
Water Table Present?		Yes _	X	No	Depth (inches)	
Saturation Present (including capillary fri	nge)?	Yes _	Х	No	Depth (inches)	0"
Wetland Hydrology Indicators						
Reliable Indicators of Wetlands Hydrology	Indicators th Proper Interp			eliable with	Indicators of the Influ	ence of Water
Water-stained leaves	Hydrolo	gical rec	ords		Direct observation	on of inundation
Evidence of aquatic fauna	Free wa		oil te	st hole	X Drainage pattern	ns
Iron deposits	X_Saturate				Drift lines	
Algal mats or crusts	Water n				Scoured areas Sediment depos	ite
Oxidized rhizospheres/pore linings	Moss tri					
Thin muck surfaces		e of red			Surface soil crac	
Plants with air-filled tissue (aerenchyma)	roots	piants w	ith ac	dventitious	Sparsely vegetat surface	ed concave
Plants with polymorphic leaves		ith shall	ow ro	ot systems	Microtopograph	ic relief
Plants with floating leaves		plants w		•		tion (depression,
Hydrogen sulfide odor	lentic					ringing lowland)
Remarks (describe recorded data from st	tream gauge, n	nonitorir	ng we	ll, aerial pho	otos, previous inspection	ns, if available):
Located adjacent to cove-like a main body of reservoir as indic				ine that ap	opears to regularly o	vertop from

VEGETATION – Use both common and scientific names of plants.

Tree Str	ratum P	lot size30'				
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Commo	on name	Scientific name				(yes/no)
1.	Red Maple	Acer rubrum	FAC	63.0%	yes	yes
2.	Black Birch	Betula lenta	FACU	10.5%	no	no
3.						
4.						
5.						
6.						
7.						
8.						
9.						
			_	73.5% = 1	Total Cover	
Shrub/S	Sapling Stratum P	lot size15'	_			
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Commo	on name	Scientific name				(yes/no)
1. H	ighbush Blueberry	Vaccinium corymbosum	FACW	38.0%	yes	yes
	Sweet Pepperbush	Clethra alnifolia	FAC	20.5%	yes	yes
3.	Witch Hazel	Hamamelis virginiana	FACU	3.0%	no	no
4.						
5.						
6.						
7.						
8.						
9.						
			_	61.5% = 1	Total Cover	
Herb St	ratum P	lot size5'				
110100	·		— Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Commo	on name	Scientific name		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	() ==,,	(yes/no)
1.	N/A	N/A	N/A	N/A	N/A	N/A
2.	14// \		14// \			1477
3.						
4.						
5.						
6.						
7.	10/10/10					
8.						
9.						
10.						
11.						
12.						
		1		N/A = 1	Total Cover	

Woody Vine Stratum	Plot size30'				
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. N/A	N/A	N/A	N/A	N/A	N/A
2.					
3.					
4.					
		_	N/A =	Total Cover	

Dominance Test:	Number of	Number of dominant sp	ecies that are	Do wetland indicator plants make		
50111111111111111111111111111111111111	dominant species	wetland indicator plants		up ≥ 50% of dominant plant species?		
	3	3		YesXNo		
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result		
	OBL species		X 1	=		
	FACW species	8	X 2	=		
	FAC species		Х3	=		
	FACU species		X 4	=		
	UPL species		X 5	=		
	Column Totals	(A)		(B)		
	Prevalence Index	B/A =		Is the Prevalence Index ≤ 3.0? YesNo		

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

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				k Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Locati	on ²	Texture	Remarks	
O 0.5-0"	10YR 3/4							Fibric		
A 0-1"	10YR 2/2							Fine Sandy Loam		
Bg 1-20+"	10YR 6/2							Sandy Loam		
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced N	l 1atrix, M	S=Masked San	d Grains	² Lo	 cation: PL=Pore Linin	g, M=Matrix	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ² Location: PL=Pore Linin Hydric Soil Indicators (Check all that apply) Indicators for Problematic Hydric Soil Indicators (Check all that apply)							for Problematic Hyd	dric Soils		
Histosol (A1)			Sandy	Sandy Redox (S5) 2 c			_ 2 cm	2 cm Muck (A10)		
Histic E	pipedon (A2)		Stripp	Stripped Matrix (S6)			_ 5 cm	Mucky Peat or Peat	(S3)	
Black H	istic (A3)		Polyv	Polyvalue Below Surface (S8)			Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin [Thin Dark Surface (S9)			Polyvalue Below Surface (S8)			
Stratifi	ed Layers (A5)		Loam	Loamy Mucky Mineral (F1)			Thin Dark Surface (S9)			
Deplet	ed Below Dark Su	ırface (A1	l1) Loam	y Gleyed Matrix (F2) Iron-Manganese Masses (F12)			F12)			
Thick D	ark Surface (A12)	_X_ Deple	Depleted Matrix (F3) Me:			Mesic Spodic (A17)			
Sandy I	Mucky Mineral (S	51)	Redo	Redox Dark Surface (F7)Re			Red Parent Material (F21)			
Sandy	Gleyed Matrix (S4	1)	Deple	ted Dark	Surface (F8)		Very Shallow Dark Surface (TF12)			
Dark Su	ırface (S7)						_ Othe	er (Include Explanatio	n in Remarks)	
Restrictive L	Restrictive Layer (if observed) Type: Depth (inches):									
Remarks:										
Hydric Soils	criterion met?		YesX	No						

Project/Site: Ridge Road	City/Town: <u>Fo</u> x	xborough,	MA_Sampling Date:	05/02/2023
Applicant/Owner: Town of Foxborou				
Soil Map Unit Name: Hinckley loamy sand,	15 to 35 percent slopes (253D) N	WI or DEP C	lassification: N/A	
Are climatic/hydrologic conditions on the	site typical for this time of ye	ar? Yes_	No (If no	, explain in Remarks)
Are Vegetation , Soil ,				
Are Vegetation , Soil ,				
SUMMARY OF FINDINGS – Attach site ma				
Wetland vegetation criterion met?	Yes NoX			Nox
Hydric Soils criterion met?	Yes NoX	within a We	tland?	
Wetlands hydrology present?	Yes NoX			
Remarks, Photo Details, Flagging, etc.:				
HYDROLOGY				
Field Observations:				N1/A
Surface Water Present?			Depth (inches) _	
Water Table Present?	Yes	_ NoX	Depth (inches) _	N/A
Saturation Present (including capillary fr	nge)? Yes	_ NoX	Depth (inches) _	N/A
Wetland Hydrology Indicators				
Reliable Indicators of Wetlands	Indicators that can be Re	liable with	Indicators of the Inf	luence of Water
Hydrology	Proper Interpretation			
Water-stained leaves	Hydrological records		Direct observa	tion of inundation
Evidence of aquatic fauna	Free water in a soil tes	st hole	Drainage patte	erns
Iron deposits	Saturated soil		Drift lines	
Algal mats or crusts	Water marks		Scoured areas	
Oxidized rhizospheres/pore	Moss trim lines		Sediment dep	osits
linings				
Thin muck surfaces	Presence of reduced in		Surface soil cra	
Plants with air-filled tissue	Woody plants with ad	ventitious	Sparsely veget	ated concave
(aerenchyma)	roots		surface	11
Plants with polymorphic leaves	Trees with shallow roo		Microtopograp	
Plants with floating leaves	Woody plants with en	larged		sition (depression, , fringing lowland)
Hydrogen sulfide odor	lenticels			
Remarks (describe recorded data from s	tream gauge, monitoring wel	l, aerial phot	os, previous inspecti	ons, if available):

Tree	<u>Stratum</u>	Plot size _	30'				
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor?
Con	nmon name	Scientif	ic name				(yes/no)
1.	Black Birch		Betula lenta	FACU	20.5%	yes	no
2.	Red Oak		Quercus rubra	FACU	20.5%	yes	no
3.	White Oak		Quercus alba	FACU	10.5%	no	no
4.	Red Maple		Acer rubrum	FAC	10.5%	no	yes
5.	White Pine		Pinus strobus	FACU	10.5%	no	no
6.							
7.							
8.					16		
9.							
					72.5% = 1	Total Cover	
Shrı	ub/Sapling Stratum	Plot size _	15'				
		_		— Indicator	Absolute	Dominant?	Wetland
				Status	% Cover	(yes/no)	Indictor?
Con	nmon name	Scienti	ic name				(yes/no)
1.	Black Huckleberrry		Gaylussacia baccata	FACU	38.0%	yes	no
	American Witch-Hazel		lamamelis virginiana	FACU	20.5%	yes	no
<u>-</u> . , 3.	Sweet Pepperbush	 	Clethra alnifolia	FAC	10.5%	no	
4.	Sweet repperbusii		Olothia ammona	17.0	10.070	110	yes
 5.		+					
5. 6.		+					
7.							
7. 8.							1
9.							
<i>J</i> .					69.0% = 1	Total Cover	
	l. Charles	Plot size _	5'	_			
нeг	<u>b Stratum</u>	Piot size _	<u> </u>		Alexalista	Daminanti	14/atland
				Indicator	Absolute	Dominant?	Wetland
_			•	Status	% Cover	(yes/no)	Indictor?
Con	nmon name	_	ic name		10.50		(yes/no)
-	Lowbush Blueberry		ccinium angustifolium	FACU	10.5%	yes	no
		1 1 v	copodium obscurum		10.5%	yes	no
2.	Princess Pine			FACU			
2. 3.	Princess Pine Canada Mayflower		anthemum canadense	FACU	3.0%	yes	no
2. 3. 4.							110
2. 3. 4.							110
2. 3. 4. 5.							no
2. 3. 4. 5. 6.							no
2. 3. 4. 5. 6. 7.							no
1. 2. 3. 4. 5. 6. 7. 8.							No
2. 3. 4. 5. 6. 7. 8. 9.							no
2. 3. 4. 5. 6. 7. 8.							110

Woo	dy Vine Stratum	Plot size30'	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor?
Comi	mon name	Scientific name	Status	70 COVC1	(403/110)	(yes/no)
1.	N/A	N/A	N/A	0.0%		
2.						
3.						
4.						
		•	_	0.0% =	Total Cover	

Dominance Test:	Number of dominant species	Number of dominant sp wetland indicator plants		Do wetland indicator plants m up ≥ 50% of dominant plant species?	
	7	0		Yes	NoX
Prevalence Index:		Total % Cover (all strata)	Multiply by:		Result
	OBL species	0	X1	=	0
	FACW species	0	X 2	=	0
	FAC species	21	Х3	=	63
	FACU species	141.5	X 4	=	566
	UPL species	0	X 5	=	0
	Column Totals	(A) 162.5		(B)	629
	Prevalence Index	B/A = 3.9		1	lence Index ≤ 3.0? NoX

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

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 Desc	ription: (Describe	to the	depth needed to	docume	nt the indicator	roro	confirm the	e absence of indicat	ors)	
Depth	Matrix			Redox	Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Lo	ocation ²	Texture	Remarks	
O 0-1"	7.5YR 2.5/2									
A 1-2"	10YR 2/2									
B 2+"	10YR 4/4									
		13								
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced N	latrix, M	S=Masked San	d Gr	ains ² Lo	cation: PL=Pore Lini	ng, M=Matrix	
Hydric Soil	ndicators (Check	all that	apply)				Indicators	for Problematic Hy	dric Soils	
Histoso	ol (A1)		Sandy	/ Redox (S5)		2 cm Muck (A10)			
Histic E	pipedon (A2)		Stripp	ed Matr	ix (S6)		5 cm Mucky Peat or Peat (S3)			
Black F	listic (A3)		Polyv	alue Belo	ow Surface (S8)		Dark Surface (S7)			
Hydrog	gen Sulfide (A4)		Thin [Dark Surf	ace (S9)		Polyvalue Below Surface (S8)			
Stratifi	ed Layers (A5)		Loam	y Mucky	Mineral (F1)		Thin Dark Surface (S9)			
Deplet	ed Below Dark Su	rface (A	11)Loam	y Gleyed	Matrix (F2)		Iron-Manganese Masses (F12)			
Thick D	ark Surface (A12))	Deple	ted Mat	rix (F3)		Mesic Spodic (A17)			
Sandy	Mucky Mineral (S	1)	Redo	x Dark Su	ırface (F7)		Red I	Parent Material (F2:	L)	
Sandy	Gleyed Matrix (S4	!)	Deple	ted Dark	Surface (F8)		Very Shallow Dark Surface (TF12)			
Dark Si	urface (S7)						Other (Include Explanation in Remarks)			
Restrictive L	ayer (if observed	1)	Туре:			_ D	epth (inch	es):		
Remarks:										
Hydric Soils	criterion met?		Yes	No	X					
riyuric Julis	outerion met:									

Project/Site: Ridge Road	City/Town: Fox	kborough, N	<u>MA</u> Sampling Date: <u>05/02/2023</u>	
Applicant/Owner: Town of Foxboroug	gh	Sar	npling Point or Zone: B28 Wetland	
Investigator(s): Greg LaCroix		Latitude/Lo	ngitude: 42°04'56.8"N 71°14'33.8"W	
Soil Map Unit Name: Hinckley loamy sand, 19	5 to 35 percent slopes (253D)	NWI or DEP C	lassification: N/A	
Are climatic/hydrologic conditions on the	site typical for this time of y	ear? Yes_	X No (If no, explain in Remarks)	
Are Vegetation , Soil ,				
Are Vegetation , Soil ,	or Hydrology natu	rally problem	natic? (If yes, explain in Remarks)	
SUMMARY OF FINDINGS – Attach site ma				
Wetland vegetation criterion met?			pled Area Yes X No	
Hydric Soils criterion met?		within a We	tland?	
Wetlands hydrology present?	YesX No			
Remarks, Photo Details, Flagging, etc.:				
HYDROLOGY				
Field Observations:				
Surface Water Present?	Yes	NoX	Depth (inches) N/A	
Water Table Present?	Yes	NoX	Depth (inches)N/A	
Saturation Present (including capillary fri	inge)? Yes X	No	Depth (inches)10"	
Wetland Hydrology Indicators				
Reliable Indicators of Wetlands Hydrology	Indicators that can be Re Proper Interpretation	eliable with	Indicators of the Influence of Water	
x Water-stained leaves Evidence of aquatic fauna Iron deposits Algal mats or crusts Oxidized rhizospheres/pore linings	Hydrological records Free water in a soil te X Saturated soil Water marks Moss trim lines	est hole	Direct observation of inundation Drainage patterns Drift lines Scoured areas Sediment deposits	
Thin muck surfaces Plants with air-filled tissue (aerenchyma) Plants with polymorphic leaves Plants with floating leaves Hydrogen sulfide odor Presence of reduced iron Woody plants with adventitious roots Surface soil cracks Sparsely vegetated co surface Microtopographic reli Moody plants with enlarged Geographic position (a				
Remarks (describe recorded data from st	tream gauge, monitoring we	II, aerial phot	os, previous inspections, if available):	

VEGETATION – Use both common and scientific names of plants.

<u> Free Stratum</u>	Plot size _	30'	_			
			Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor?
Common name	Scientif	ic name				(yes/no)
Black Birch		Betula lenta	FACU	20.5	yes	no
2. Red Maple		Acer rubrum	FAC	20.5%	yes	yes
3. White Pine		Pinus strobus	FACU	10.5%	no	no
1. Red Oak		Quercus rubra	FACU	10.5%	no	no
5.						
5.						
7.						
3.						
).						
			_	62.0 =	Total Cover	
Shrub/Sapling Stratum	Plot size _	15'				
	_		— Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Common name	Scientif	ic name		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	() ==,,	(yes/no)
1. Sweet Pepperbush		Clethra alnifolia	FAC	63.0%	yes	yes
2. Highbush Blueberry		ccinium corymbosum	FACW	20.5%	no	yes
3. American Witch-Haz				10.5%	no	
		l <u>amamelis virginiana</u> aylussacia frondosa	FACU	10.5%	no	no
4. Dangleberry 5.		aylussacia ironuosa	FAC	10.576	110	yes
5. 6.						
7.						_
8.						
9.				104 50/ -	Total Cover	
				104.5% =	Iotal Cover	
<u>Herb Stratum</u>	District					
	Plot size _	5'	_			
	Plot size _	5'	— Indicator	Absolute	Dominant?	Wetland
	Plot size _	5'	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Indictor?
Common name		5' ic name				
Common name 1. Sweet Pepperbush	Scientif			% Cover		Indictor?
	Scientif	ic name	Status	% Cover	(yes/no)	Indictor? (yes/no)
1. Sweet Pepperbush	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes
 Sweet Pepperbush Princess Pine 	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes
1. Sweet Pepperbush 2. Princess Pine 3.	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes
1. Sweet Pepperbush 2. Princess Pine 3. 4.	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes
1. Sweet Pepperbush 2. Princess Pine	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes
1. Sweet Pepperbush 2. Princess Pine 3. 4.	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes
1. Sweet Pepperbush 2. Princess Pine 3. 4. 5.	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes
1. Sweet Pepperbush 2. Princess Pine 3. 4. 5. 6. 7.	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes
Sweet Pepperbush Princess Pine Referencess Pine Reference	Scientif	ic name Clethra alnifolia	Status	% Cover	(yes/no)	Indictor? (yes/no) yes

Wood	dy Vine Stratum	Plot size <u>30'</u>	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor?
Comr	non name	Scientific name				(yes/no)
1.	N/A	N/A	N/A	0.0%		
2.						
3.						
4.						
		•		0.0% =	Total Cover	

Dominanas Tast:	Number of	ocios that are	Do wetland indicator plants make		
Dominance Test:		Number of dominant sp		' '	
	dominant species	wetland indicator plants		up ≥ 50% of dominant plant	
				species?	
	5	3		Yes No	
Prevalence Index:		Total % Cover (all	Multiply by	Result	
		strata)	Multiply by:	Result	
	OBL species	0	X1	= 0	
	FACW species	20.5	X 2	= 41	
	FAC species	104.5	Х3	= 313.5	
	FACU species	45	X 4	= 180	
	UPL species	0	X 5	= 0	
	Column Totals	(A) 170		(B) 534.5	
Prevalence Index		B/A =		Is the Prevalence Index ≤ 3.0?	
				YesNoX	

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

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 %							
30-100 %	36.0 %							

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)										
Depth	Matrix				Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Lo	cation ²	Texture	Remarks	
O 0-2"	7.5YR 2.5/2									
A 2-4"	10YR 2/1									
B 4+"	10YR 4/3		10YR 2/1	20%	RM		М			
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced N	latrix, MS	S=Masked Sand	d Gra	ins ² Lo	cation: PL=Pore Lin	ing, M=Matrix	
Hydric Soil I	ndicators (Check	all that a	apply)				Indicators	for Problematic H	ydric Soils	
Histoso	l (A1)		X_Sandy	/ Redox (S	55)		2 cm	Muck (A10)		
Histic E	pipedon (A2)		Stripp	ed Matri	x (S6)		5 cm Mucky Peat or Peat (S3)			
Black H	istic (A3)		Polyv	alue Belo	w Surface (S8)	_	Dark	Surface (S7)		
Hydrog	en Sulfide (A4)		Thin [Dark Surfa	ace (S9)	_	Polyvalue Below Surface (S8)			
Stratific	ed Layers (A5)		Loam	y Mucky	Mineral (F1)	_	Thin Dark Surface (S9)			
Deplete	ed Below Dark Su	ırface (A:	11) Loam	y Gleyed	Matrix (F2)	_	Iron-Manganese Masses (F12)			
Thick D	ark Surface (A12)	Deple	ted Matr	ix (F3)	_	Mesic Spodic (A17)			
Sandy I	Mucky Mineral (S	51)	Redox	x Dark Su	rface (F7)	_	Red Parent Material (F21)			
Sandy (Gleyed Matrix (S4	1)	Deple	ted Dark	Surface (F8)		Very Shallow Dark Surface (TF12)			
Dark Su	ırface (S7)					_	Other (Include Explanation in Remarks)			
Restrictive L	ayer (if observed	i)	Туре:			_ D	epth (inch	es):		
Remarks:										
Hydric Soils criterion met? Yes X No No No										

Project/Site: Ridge Road	City/Town: <u>Fo</u>	cborough, N	MA Sampling Date: 05/02/2023
Applicant/Owner: Town of Foxboroug	jh	Sar	mpling Point or Zone: <u>C5 Upland</u>
Investigator(s): Greg LaCroix		Latitude/Lo	ongitude: 42°04'54.0"N 71°14'27.7"W
Soil Map Unit Name: Hinckley loamy sand, 8	to 15 percent slopes (245C)	NWI or DEP C	lassification: N/A
Are climatic/hydrologic conditions on the	site typical for this time of y	ear? Yes_	X No (If no, explain in Remarks)
Are Vegetation , Soil ,	or Hydrology sign	ificantly distu	rbed? (If yes, explain in Remarks)
Are Vegetation , Soil ,	or Hydrology natu	irally problem	natic? (If yes, explain in Remarks)
SUMMARY OF FINDINGS – Attach site ma			
Wetland vegetation criterion met?	Yes NoX	Is the Sam	pled Area Yes NoX
Hydric Soils criterion met?	Yes NoX	within a We	etland?
Wetlands hydrology present?	Yes No _X		
Remarks, Photo Details, Flagging, etc.:			
HYDROLOGY			
Field Observations:			
Surface Water Present?	Yes	Nox	Depth (inches)
Water Table Present?	Yes	NoX	Depth (inches)
Saturation Present (including capillary fri	inge)? Yes	NoX	Depth (inches)
Wetland Hydrology Indicators			
Reliable Indicators of Wetlands	Indicators that can be R	eliable 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 to	est 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
linings			
Thin muck surfaces	Presence of reduced	iron	Surface soil cracks
Plants with air-filled tissue	Woody plants with a	dventitious	Sparsely vegetated concave
(aerenchyma)	roots		surface
Plants with polymorphic leaves	Trees with shallow ro	ot systems	Microtopographic relief
Plants with floating leaves	Woody plants with e	nlarged	Geographic position (depression,
Hydrogen sulfide odor	lenticels		toe of slope, fringing lowland)
Remarks (describe recorded data from st	tream gauge, monitoring we	ell, aerial phot	cos, previous inspections, if available):

VEGETATION – Use both common and scientific names of plants.

	<u>Stratum</u>	Plot size	30'	_			
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor?
Comr	non name	Scientific	name				(yes/no)
1.	Red Maple		Acer rubrum	FAC	10.5%	yes	yes
2.	White Oak		Quercus alba	FACU	3.0%	no	no
3.	White Pine		Pinus strobus	FACU	10.5%	yes	no
4.	Red Oak		Quercus rubra	FACU	10.5%	yes	no
5.	Black Birch		Betula lenta	FACU	10.5%	yes	no
6.							
7.							
8.							
9.							
					45.0% =	Total Cover	
Christ	/Sapling Stratum	Plot size	15'				
Jin ul	y Sapinis Stratuili	1 101 3126	10	— Indicator	Absolute	Dominant?	Wetland
				Status	% Cover	(yes/no)	Indictor?
C		Scientific	nama	Status	70 COVE	(963/110)	(yes/no)
	non name			FAC	10.5%	l voo	T
1.	Dangleberry		ssacia frondosa		3.0%	yes	yes
	Highbush Blueberry		inium corymbosum	FACW	3.0%	no no	yes
3.	Sweet Pepperbush		thra alnifolia	FAC	10.5%	yes	yes
4.	White Pine	- F	Pinus strobus	FACU	10.5%	yes	no
5.							-
6.						-	-
7.						-	
8.							-
9.					27.0% =	Tatal Carra	
				_	27.070 =	Total Cover	
<u>Herb</u>	<u>Stratum</u>	Plot size	5'	_			
				Indicator	Absolute	Dominant?	Wetland
				Status	% Cover	(yes/no)	Indictor?
Comr	non name	Scientific	name				(yes/no)
1.	Sheep-Laurel		ia angustifolia	FAC	3.0%	yes	yes
2	Princess Pine	Lycop	odium obscurum	FACU	3.0%	yes	no
۷.					0.004	1400	yes
3.	Winterberry		k verticillata	FACW	3.0%	yes	-
3.	Smooth Crab Grass		<i>x verticillata</i> taria ischaemum	FACU FACU	3.0%	yes	no
3. 4.				+			
3. 4.				+			
3. 4. § 5. 6.				+			
3. 4. § 5. 6.				+			
3. 4. \$ 5. 6. 7.				+			
2. 3. 4. \$5. 6. 7. 8. 9.				+			
3. 4. \$ 5. 6. 7. 8. 9.				+			
3. 4. § 5. 6. 7. 8. 9.				+	3.0%		

Woody Vine Stratum	Plot size30'							
		Indicator	Absolute	Dominant?	Wetland			
		Status	% Cover	(yes/no)	Indictor?			
Common name	Scientific name				(yes/no)			
1. N/A	N/A	N/A	N/A	N/A	N/A			
2.								
3.								
4.								
N/A = Total Cover								

Rapid Test: D	o all dominant species	s have an indicator status	of OBL or FACW?	Υ	es	NoX	
Dominance Test:	ominance Test: Number of				Do wetland indicator plants r up ≥ 50% of dominant plant species?		
	10	4		Yes	No _	X	
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result			
	OBL species	0	X1	=	0		
	FACW species	6	X 2	=	12		
	FAC species	27	Х3	=	81		
	FACU species	51	X4	=	204		
	UPL species	0	X 5	=	0		
	Column Totals	(A) 84		(B)	297		
	Prevalence Index	B/A =			alence Inde		
Wetland vegetatio	n criterion met?	Yes No	X				

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

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 Desc	ription: (Describe	e to the o	depth needed to	documer	nt the indicator	orc	onfirm the	absence of indicato	ors)	
Depth	Matrix			Redox	Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Lo	cation ²	Texture	Remarks	
O 3-0"	10YR 3/4							Fibric		
A 0-3"	10YR 2/2							Fine Sandy Loam		
Bw1 3-14"	10YR 4/6							Fine Sandy Loam		
Bw2 14-20+"	10YR 5/6							Fine Sandy Loam		
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced N	latrix, M	S=Masked Sand	d Gra	ains ² Lo	cation: PL=Pore Linir	ng, M=Matrix	
Hydric Soil I	ndicators (Check	all that	apply)				Indicators	for Problematic Hy	dric Soils	
Histoso	l (A1)		Sandy	/ Redox (S5)	_	2 cm	Muck (A10)		
Histic E	pipedon (A2)		Stripp	ed Matr	ix (S6)	_	5 cm Mucky Peat or Peat (S3)			
Black H	istic (A3)		Polyv	alue Belo	w Surface (S8)	_	Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin I	Dark Surf	ace (S9)	_	Polyvalue Below Surface (S8)			
Stratific	ed Layers (A5)		Loam	y Mucky	Mineral (F1)	_	Thin Dark Surface (S9)			
Deplete	ed Below Dark Su	ırface (A:	11) Loam	y Gleyed	Matrix (F2)	_	Iron-Manganese Masses (F12)			
Thick D	ark Surface (A12)	Deple	ted Mat	rix (F3)	_	Mesic Spodic (A17)			
Sandy I	Mucky Mineral (S	1)	Redo:	x Dark Su	rface (F7)	_	Red Parent Material (F21)			
Sandy (Gleyed Matrix (S4	1)	Deple	ted Dark	Surface (F8)	_	Very Shallow Dark Surface (TF12)			
Dark Su	ırface (S7)					_	Othe	r (Include Explanatio	on in Remarks)	
Restrictive L	ayer (if observed	i)	Туре:			_ D	epth (inch	es):		
Remarks:										
Hydric Soils criterion met? Yes No X										

Project/Site: Ridge Road	City/Town: Fox	borough, N	1A Sampling Date: 05/02/2023
Applicant/Owner: Town of Foxboroug	h	Sar	mpling Point or Zone: <u>C5 Wetland</u>
Investigator(s): Greg LaCroix			ongitude: <u>42°04'54.0"N 71°14'27.7"W</u>
Soil Map Unit Name: Hinckley loamy sand,	8 to 15 percent slopes (245C)	NWI or DEP C	lassification: N/A
Are climatic/hydrologic conditions on the	site typical for this time of y	ear? Yes_	X No (If no, explain in Remarks)
Are Vegetation, Soil,	or Hydrology signi	ficantly distu	rbed? (If yes, explain in Remarks)
Are Vegetation , Soil ,	or Hydrology natu	rally problen	natic? (If yes, explain in Remarks)
SUMMARY OF FINDINGS – Attach site ma			
Wetland vegetation criterion met?			pled Area Yes X No
Hydric Soils criterion met?	Yes No	within a We	etland?
Wetlands hydrology present?	Yesx_ No		
Remarks, Photo Details, Flagging, etc.:			
HYDROLOGY			
Field Observations:			ALIA
Surface Water Present?	Yes	NoX	Depth (inches)N/A
Water Table Present?	Yes X	No	Depth (inches) <u>16"</u>
Saturation Present (including capillary fri	inge)? Yes X	No	Depth (inches)0"
Wetland Hydrology Indicators			
Reliable Indicators of Wetlands	Indicators that can be Re	eliable with	Indicators of the Influence of Water
Hydrology	Proper Interpretation		
X Water-stained leaves	Hydrological records		X Direct observation of inundation
Evidence of aquatic fauna	Free water in a soil te	est 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
linings			
Thin muck surfaces	Presence of reduced	iron	Surface soil cracks
Plants with air-filled tissue	Woody plants with a	dventitious	Sparsely vegetated concave
(aerenchyma)	roots		surface
Plants with polymorphic leaves	Trees with shallow ro	ot systems	Microtopographic relief
Plants with floating leaves	Woody plants with e	nlarged	Geographic position (depression,
Hydrogen sulfide odor	lenticels		toe of slope, fringing lowland)
Remarks (describe recorded data from st	tream gauge, monitoring we	ll, aerial pho	tos, previous inspections, if available):

VEGETATION – Use both common and scientific names of plants.

Tree Stratum P	lot size30'				
					Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
Black Tupelo	Nyssa sylvatica	FACW	20.5%	yes	yes
2. White Pine	Pinus strobus	FACU	10.5%	yes	no
3. Red Maple	Acer rubrum	FAC	10.5%	yes	yes
4.					
5.					
6.					
7.					
8.					
9.			44.50/		
		_	41.5% = 7	Total Cover	
Shrub/Sapling Stratum P	lot size15'	_			
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
Swamp Azalea	Rhododendrun viscosum	FACW	63.0%	yes	yes
2. Dangleberry	Gaylussacia frondosa	FAC	20.5%	no	yes
3. Highbush Blueberry	Vaccinium corymbosum	FACW	10.5%	no	yes
4. Sweet Pepperbush	Clethra alnifolia	FAC	38.0%	yes	yes
5. Black Tupelo	Nyssa sylvatica	FACW	10.5%	no	yes
6.					
7.					
8.					
9.					
		_	142.5% = ⁻	Total Cover	
Herb Stratum P	lot size5'	_			
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. Princess Pine	Lycopodium obscurum	FACU	10.5%	yes	no
2. Winterberry	llex verticillata	FACW	3.0%	yes	yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
	•		13.5% =	Total Cover	

Woody Vine Stratum	Plot size30'							
		Indicator	Absolute	Dominant?	Wetland			
		Status	% Cover	(yes/no)	Indictor?			
Common name	Scientific name				(yes/no)			
1. N/A	N/A	N/A	N/A	N/A	N/A			
2.								
3.					, = =			
4.								
N/A = Total Cover								

Dominance Test:	Number of dominant species	Number of dominant spe wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant
	7	5		species? Yes <u>X</u> No
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	=
	FACW species		X 2	=
	FAC species		Х3	=
	FACU species		X 4	=
	UPL species		X 5	=
	Column Totals	(A)		(B)
Prevalence Index		B/A =		Is the Prevalence Index ≤ 3.0? YesNo

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

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 Desc	ription: (Describe	e to the o	depth needed to	docume	nt the indicator	or confirm the	absence of indicat	ors)		
Depth	Matrix			Redox	Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Location ²	Texture	Remarks		
O 2-0"	10YR 3/4						Fibric			
A 0-3"	10YR 3/4						Fine Sandy Loam			
Bg 3-20+"	10YR 6/2			5%	RM	М	Sandy Loam			
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced N	latrix, M	S=Masked Sand	d Grains ² Lo	cation: PL=Pore Lini	ng, M=Matrix		
Hydric Soil I	ndicators (Check	all that	apply)			Indicators	Indicators for Problematic Hydric Soils			
Histoso	ol (A1)		X_Sandy	Redox (S5)	2 cm	Muck (A10)			
Histic E	pipedon (A2)		Stripp	ed Matr	ix (S6)	5 cm	5 cm Mucky Peat or Peat (S3)			
Black H	istic (A3)		Polyv	alue Belo	w Surface (S8)	Dark	Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin I	Dark Surf	ace (S9)	Polyv	alue Below Surface	(S8)		
Stratific	ed Layers (A5)		Loam	y Mucky	Mineral (F1)	Thin	Thin Dark Surface (S9)			
Deplete	ed Below Dark Su	ırface (A	11)Loam	y Gleyed	Matrix (F2)	Iron-	Iron-Manganese Masses (F12)			
Thick D	ark Surface (A12)	_X_Deple	ted Mat	rix (F3)	Mesi	Mesic Spodic (A17)			
Sandy I	Mucky Mineral (S	51)	Redo	x Dark Su	rface (F7)	Red	Red Parent Material (F21)			
Sandy (Gleyed Matrix (S4	1)	Deple	eted Dark	Surface (F8)	Very	Very Shallow Dark Surface (TF12)			
Dark Su	ırface (S7)					Othe	Other (Include Explanation in Remarks)			
Restrictive L	ayer (if observed	d)	Туре:			_ Depth (inch	es):			
Remarks:										
Hydric Soils	Hydric Soils criterion met? Yes X No									

Project/Site: Ridge Road	City/Town: Foxbo	orough, M	IA Sampling Date:	05/02/2023
Applicant/Owner: Town of Foxboroug	h	Sar	mpling Point or Zone:	D4 Upland
Investigator(s): Greg LaCroix		_Latitude/Lo	ongitude: <u>42°04'55.3</u>	3"N 71°14'26.0"W
Soil Map Unit Name: Hinckley loamy sand, 8				
Are climatic/hydrologic conditions on the	site typical for this time of yea	ar? Yes_	X No (If no	explain in Remarks)
Are Vegetation, Soil,				
Are Vegetation, Soil,	or Hydrology natura	ally problem	natic? (If yes, explain i	n Remarks)
SUMMARY OF FINDINGS – Attach site ma				
Wetland vegetation criterion met?	Yes No _X I			NoX
Hydric Soils criterion met?	Yes No _X	within a We	etland?	
Wetlands hydrology present?	Yes No _X			
Remarks, Photo Details, Flagging, etc.:				
HYDROLOGY				
Field Observations:				
Surface Water Present?	Yes	. NoX	Depth (inches)	N/A
Water Table Present?	Yes	No X	Depth (inches)	N/A
Saturation Present (including capillary fri	nge)? Yes X	No	Depth (inches)	6"
Wetland Hydrology Indicators				
Reliable Indicators of Wetlands	Indicators that can be Reli	able with	Indicators of the Inf	uence of Water
Hydrology	Proper Interpretation			
Water-stained leaves	Hydrological records		Direct observa	tion of inundation
Evidence of aquatic fauna	Free water in a soil test	t hole	Drainage patte	rns
Iron deposits	X Saturated soil		Drift lines	
Algal mats or crusts	Water marks		Scoured areas	
Oxidized rhizospheres/pore	Moss trim lines		Sediment depo	sits
linings				
Thin muck surfaces	Presence of reduced in		Surface soil cra	
Plants with air-filled tissue	Woody plants with adv	entitious	Sparsely vegeta	ated concave
(aerenchyma)	roots	tt	surface	hiavoliaf
Plants with polymorphic leaves	Trees with shallow root		Microtopograp	sition (depression,
Plants with floating leaves Hydrogen sulfide odor	Woody plants with enla	argeu		fringing lowland)
Remarks (describe recorded data from st				
saturated soil conditions present in				
considered a reliable hydrologic ir indicators.	idicator due to the atypica	ai contuitic	ni and lack of othe	71

Tree Stratum P	lot size30'				
Tree out a carrie		— Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. White Pine	Pinus strobus	FACU	10.5%	yes	no
2. Red Oak	Quercus rubra	FACU	10.5%	yes	no
3. American Beech	Fagus grandifolia	FACU	3.0%	no	no
4. White Oak	Quercus alba	FACU	3.0%	no	no
5.					
6.					
7.					
8.					
9.					
		_	27.0% =	Total Cover	
Shrub/Sapling Stratum P	lot size15'				
Sinas/sapining stratam.		 Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name	Jeacus	70 00 00.	(, 00,)	(yes/no)
Black Huckleberrry	Gaylussacia baccata	FACU	20.5%	yes	no
Sweet Pepperbush	Clethra alnifolia	FAC	10.5%	yes	yes
3. Highbush Blueberry	Vaccinium corymbosum	FACW	10.5%	yes	yes
4. White Pine	Pinus strobus	FACU	3.0%	no	no
5. Eastern Hop-Hornbeam	Ostrya virginiana	FACU	3.0%	no	no
6.	- Conjuring	1	0.070	1.0	
7.					
8.					
9.					
			47.5% =	Total Cover	
Llaub Stanton	lot size5'	_			
Herb Stratum P	lot size		Abaaluta	Dominant?	Wetland
		Indicator Status	Absolute		Indictor?
6	Saigntifia nama	Status	% Cover	(yes/no)	(yes/no)
Common name	Scientific name N/A	T NI/A	N/A	N/A	
1. N/A	IN/A	N/A	IN/A	IN/A	N/A
3.					
5.					
6.					
7.			-		
8.					
9.					
10.					
11.					
12.					
14.		1	N/A =	Total Cover	1

Woody Vine Stratum	Plot size30'							
		Indicator	Absolute	Dominant?	Wetland			
		Status	% Cover	(yes/no)	Indictor?			
Common name	Scientific name				(yes/no)			
1. N/A	N/A	N/A	N/A	N/A	N/A			
2.								
3.								
4.								
N/A = Total Cover								

D			of OBL or FACW?	Do wetland indicator plants make
Dominance Test:	Number of	Number of dominant sp		
	dominant species	wetland indicator plants		up ≥ 50% of dominant plant
				species?
	5	2	YesNoX	
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species	0	X1	= 0
	FACW species	10.5	X 2	= 21
	FAC species	10.5	Х3	= 31.5
	FACU species	53.5	X 4	= 214
	UPL species	0	X 5	= 0
	Column Totals	(A) 74.5		(B) 266.5
	Prevalence Index	B/A =		Is the Prevalence Index ≤ 3.0?
				YesNoX

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

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 Desc	ription: (Describe	to the	depth needed to	docume	nt the indicator	or confirm	the absence of indicate	ors)		
Depth	Matrix			Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Location	² Texture	Remarks		
O 0-1"	10YR 3/4						Fibric			
A 0-3"	10YR 3/2						Fine Sandy Loam			
Bw 3-20+"	10YR 5/6						Sandy Loam			
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced N	latrix, M	S=Masked San	d Grains	² Location: PL=Pore Lini	ng, M=Matrix		
Hydric Soil I	ndicators (Check	all that	apply)			Indica	Indicators for Problematic Hydric Soils			
Histoso	l (A1)		Sandy	/ Redox	(S5)	2	2 cm Muck (A10)			
Histic E	pipedon (A2)		Stripp	ed Matr	rix (S6)	5	5 cm Mucky Peat or Peat (S3)			
Black H	istic (A3)		Polyv	alue Bel	ow Surface (S8)	C	Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin [Dark Sur	face (S9)	P	Polyvalue Below Surface (S8)			
Stratific	ed Layers (A5)		Loam	y Mucky	Mineral (F1)	т	Thin Dark Surface (S9)			
Deplet	ed Below Dark Su	rface (A	11)Loam	y Gleyed	Matrix (F2)	11	Iron-Manganese Masses (F12)			
Thick D	ark Surface (A12)	Deple	ted Mat	rix (F3)	^	Mesic Spodic (A17)			
Sandy I	Mucky Mineral (S	1)	Redo	x Dark Su	urface (F7)	R	Red Parent Material (F21)			
Sandy	Gleyed Matrix (S4	!)	Deple	ted Darl	k Surface (F8)	v	Very Shallow Dark Surface (TF12)			
Dark Su	ırface (S7)					c	ther (Include Explanation	on in Remarks)		
Restrictive Layer (if observed) Type: Depth (inches):										
Remarks:										
Hydric Soils	criterion met?		Yes	No	X					

Project/Site: Ridge Road	City/Town: <u>Foxborough, MA</u> Sampling Date: 05/02/2023
Applicant/Owner: Town of Foxboroug	gh Sampling Point or Zone: D4 Wetland
Investigator(s): Greg LaCroix	Latitude/Longitude: 42°04'55.3"N 71°14'26.0"W
Soil Map Unit Name: Hinckley loamy sand, 8	to 15 percent slopes (245C) NWI or DEP Classification: N/A
	site typical for this time of year? Yes X No (If no, explain in Remarks
	or Hydrology significantly disturbed? (If yes, explain in Remarks)
	or Hydrology naturally problematic? (If yes, explain in Remarks)
	p and photograph log showing sampling locations, transects, etc.
Wetland vegetation criterion met?	Yes X No Is the Sampled Area Yes X No
Hydric Soils criterion met?	Yes X No within a Wetland?
Wetlands hydrology present?	Yes _X No
Remarks, Photo Details, Flagging, etc.:	
HYDROLOGY	
Field Observations:	
Surface Water Present?	Yes NoX Depth (inches)N/A
Water Table Present?	Yes No X Depth (inches) N/A
Saturation Present (including capillary fr	inge)? Yes <u>X</u> No Depth (inches) <u>10"</u>
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	Hydrological records Free water in a soil test hole X Saturated soil Water marks Moss trim lines Presence of reduced iron Woody plants with adventitious Direct observation of inundation Drainage patterns Scoured areas Scoured areas Sediment deposits Surface soil cracks Sparsely vegetated concave
(aerenchyma) Plants with polymorphic leaves Plants with floating leaves Hydrogen sulfide odor Remarks (describe recorded data from s	roots Trees with shallow root systems Woody plants with enlarged lenticels surface Microtopographic relief Geographic position (depression, toe of slope, fringing lowland) tream gauge, monitoring well, aerial photos, previous inspections, if available):

$\label{eq:VEGETATION-Use} \textbf{VEGETATION} - \textbf{Use both common and scientific names of plants}.$

Tree Stratum	Plot size 30'				
		— Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. Red Oak	Quercus rubra	FACU	20.5%	yes	no
2. Red Maple	Acer rubrum	FAC	20.5%	yes	yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
		_	41.0% = 7	Total Cover	
Shrub/Sapling Stratum	Plot size15'				
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
 Sweet Pepperbush 	Clethra alnifolia	FAC	85.5%	yes	yes
2. Witch Hazel	Hamamelis virginiana	FACU	10.5%	no	no
3. Highbush Blueberry	Vaccinium corymbosum	FACW	10.5%	no	yes
4.					
5.					
6.					
7.					
8.					
9.					
		_	106.5% =	Total Cover	
Herb Stratum	Plot size5'				
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. N/A	N/A	N/A	N/A	N/A	N/A
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			N/A =	Total Cover	

Woody Vine Stratum	Plot size 30'				
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. Greenbirer	Smilax rotundifolia	FAC	3.0%	yes	yes
2.					
3.					
4.					
	•	_	3.0% =	Total Cover	

Dominance Test:	Number of dominant species	Number of dominant spo wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?		
	4	3		YesXNo		
<u>Prevalence Index</u> :		Total % Cover (all strata)	Multiply by:	Result		
	OBL species		X 1	=		
	FACW species		X 2	=		
	FAC species		Х3	=		
	FACU species		X 4	=		
	UPL species		X 5	=		
	Column Totals	(A)		(B)		
	Prevalence Index	B/A =		Is the Prevalence Index ≤ 3.0? YesNo		

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

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				Features				, , , , , , , ,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Locat	ion ²	Texture	Remarks	
O 0.5-0"	10YR 3/4							Fibric		
A 0-3"	10YR 2/2							Fine Sandy Loam		
Bw 3-16"	10YR 5/6							Sandy Loam		
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced M	latrix, M	S=Masked Sand	d Grains	² Lo	cation: PL=Pore Lini	ng, M=Matrix	
Hydric Soil Indicators (Check all that apply) Indicators for Problematic Hydric Soils						dric Soils				
Histoso	ol (A1)		_x Sandy	Redox (S5)		2 cm Muck (A10)			
Histic E	Histic Epipedon (A2) Stripped Matrix (S6)				_ 5 cm	Mucky Peat or Peat	: (S3)			
Black H	istic (A3)		Polyva	alue Belo	w Surface (S8)		Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin [Dark Surf	ace (S9)		Polyvalue Below Surface (S8)			
Stratific	ed Layers (A5)		Loam	y Mucky	Mineral (F1)		Thin Dark Surface (S9)			
Deplet	ed Below Dark Su	rface (A	11) Loam	y Gleyed	Matrix (F2)		_ Iron-	Manganese Masses	(F12)	
Thick D	ark Surface (A12)		Deple	ted Mat	rix (F3)		_ Mesi	c Spodic (A17)		
Sandy I	Mucky Mineral (S	1)	Redox	k Dark Su	rface (F7)		Red	Parent Material (F21	1)	
Sandy	Gleyed Matrix (S4)	Deple	ted Dark	Surface (F8)		Very Shallow Dark Surface (TF12)			
Other (Include Explanation in Remarks)						on in Remarks)				
Restrictive Layer (if observed) Type: Refusal Depth (inches): 16"										
Remarks:										
Uvdria Caila	critorion mot?		Voc V	No						
riyaric Soils	criterion met?		YesX	No						

Project/Site: Ridge Road	City/Town: Fo	oxborough, I	MA_Sampling Date	e: 05/02/2023
Applicant/Owner: Town of Foxborou	gh	Sar	mpling Point or Zone	: E6 Upland
Investigator(s): Greg LaCroix		Latitude/Lo	ongitude: <u>42°04'57.</u>	1"N 71°14'24.9"W
Soil Map Unit Name: Hinckley loamy sand, 8	to 15 percent slopes (245C)	NWI or DEP C	lassification:	N/A
Are climatic/hydrologic conditions on the	site typical for this time of	year? Yes_	X No (If n	o, explain in Remarks)
Are Vegetation , Soil ,				
Are Vegetation , Soil ,				
SUMMARY OF FINDINGS – Attach site ma				
Wetland vegetation criterion met?	Yes No _X	Is the Sam	pled Area Yes	NoX
Hydric Soils criterion met?	Yes No _X	within a We	etland?	
Wetlands hydrology present?	Yes No _X			
HYDROLOGY				
Field Observations:				
Surface Water Present?		NoX		N/A
Water Table Present?	Yes	NoX	Depth (inches) _	N/A
Saturation Present (including capillary fr	inge)? Yes	NoX	Depth (inches) _	N/A
Wetland Hydrology Indicators				
Reliable Indicators of Wetlands Hydrology	Indicators that can be I Proper Interpretation	Reliable with	Indicators of the Ir	fluence of Water
Water-stained leaves Evidence of aquatic fauna Iron deposits Algal mats or crusts Oxidized rhizospheres/pore linings Thin muck surfaces	Hydrological records Free water in a soil of Saturated soil Water marks Moss trim lines Presence of reduced	test hole	Direct observ Drainage patt Drift lines Scoured area: Sediment dep	s posits
Plants with air-filled tissue (aerenchyma) Plants with polymorphic leaves Plants with floating leaves Hydrogen sulfide odor	Woody plants with a roots Trees with shallow re Woody plants with a lenticels	adventitious root systems	Sparsely vege surface Microtopogra Geographic p	tated concave
Remarks (describe recorded data from s		ell, aerial pho		

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u>	Plot size30'	_			
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. Red Oak	Quercus rubra	FACU	38.0%	yes	no
2. White Pine	Pinus strobus	FACU	10.5%	no	no
3. American Beech	Fagus grandifolia	FACU	20.5%	yes	no
4.					
5.					
6.					
7.					
8.					
9.					
			69.0% =	Total Cover	
Shrub/Sapling Stratum	Plot size15'				
and and build attended		— Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name	Status	70 COVC1	(463/110)	(yes/no)
		FAC	20.5%	Vec	yes
 Sweet Pepperbush Witch Hazel 	Clethra alnifolia Hamamelis virginiana	FACU	10.5%	yes no	no
	Gaylussacia baccata	FACU	20.5%		no
3. Black Huckleberrry	Vaccinium corymbosum		-	yes no	-
4. Highbush Blueberry	vaccinium corymbosum	FACW	3.0%	110	yes
5.					
6.					
7.					
8.					
9.	·		EA E0/ -	T-1-1-C	
		-	54.5% =	Total Cover	
<u>Herb Stratum</u>	Plot size5'	_			
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. American Wintergreen	Pyrola americana	FAC	3.0%	yes	yes
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			3.0% =	Total Cover	

Woody Vine Stratum	Plot size30'				
		Indicator	Absolute	Dominant?	Wetland
Common name	Scientific name	Status	% Cover	(yes/no)	Indictor? (yes/no)
1. N/A	N/A	N/A	N/A	N/A	N/A
2.					
3.					
4.					
		_	N/A =	Total Cover	

Dominance Test:	Number of	Number of dominant sp	ecies that are	Do wetland	d indicator plants make	
	dominant species wetland indicator plants			up ≥ 50% of dominant plant		
				species?		
	5	2		Yes _	NoX	
Prevalence Index:		Total % Cover (all strata)	Multiply by:		Result	
	OBL species	0	0 X1 =		= 0	
	FACW species	3	X 2	=	6	
	FAC species	23.5	Х3	=	70.5	
	FACU species	100	X 4	=	400	
	UPL species	0	X 5	=	0	
	Column Totals	(A) 126.5		(B)	476.5	
	Prevalence Index	B/A =			alence Index ≤ 3.0? NoX	

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

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			Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Lo	ocation ²	Texture	Remarks	
O 0.5-0"	10YR 2/2							Fibric		
A 0-4"	10YR 2/2							Fine Sandy Loam		
Bw1 4-12"	10YR 5/6							Fine Sandy Loam		
Bw2 12-20+"	10YR 5/4							Sandy Loam		
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced N	latrix, M	S=Masked San	d Gr	ains ² Lo	cation: PL=Pore Lini	ng, M=Matrix	
Hydric Soil I	ndicators (Check	all that	apply)				Indicators	for Problematic Hy	dric Soils	
Histoso	l (A1)		Sandy	/ Redox ((S5)		2 cm Muck (A10)			
Histic E	pipedon (A2)		Stripp	ed Matr	ix (S6)		5 cm Mucky Peat or Peat (S3)			
Black H	istic (A3)		Polyv	alue Bel	ow Surface (S8)		Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin [Dark Surf	face (S9)		Polyvalue Below Surface (S8)			
Stratific	ed Layers (A5)		Loam	y Mucky	Mineral (F1)		Thin Dark Surface (S9)			
Deplete	ed Below Dark Su	rface (A	11)Loam	y Gleyed	l Matrix (F2)		Iron-	n-Manganese Masses (F12)		
Thick D	ark Surface (A12))	Deple	ted Mat	rix (F3)		Mesi	c Spodic (A17)	Spodic (A17)	
Sandy I	Mucky Mineral (S	1)	Redox	x Dark Su	urface (F7)		Red I	Parent Material (F2:	L)	
Sandy (Gleyed Matrix (S4	l)	Deple	ted Darl	Surface (F8)		Very	Shallow Dark Surface	ce (TF12)	
Dark Su	ırface (S7)						Othe	r (Include Explanati	on in Remarks)	
Restrictive Layer (if observed) Type: Depth (inches):										
Remarks:										
Hydric Soils	criterion met?		Yes	No	X					
,										

Project/Site: Ridge Road	City/Town: Foxbo	rough, MA Sampling Date: 05/02/2023
Applicant/Owner: Town of Foxborou		Sampling Point or Zone: <u>E6 Wetland</u>
Investigator(s): Greg LaCroix	La	atitude/Longitude: <u>42°04'57.1"N 71°14'24.9"W</u>
Soil Map Unit Name:Hinckley loamy sand, 8 t	o 15 percent slopes (245C) NWI	or DEP Classification: N/A
Are climatic/hydrologic conditions on the	site typical for this time of year?	? Yes X No (If no, explain in Remarks
Are Vegetation , Soil ,	or Hydrology significa	ntly disturbed? (If yes, explain in Remarks)
Are Vegetation , Soil ,	or Hydrology naturally	y problematic? (If yes, explain in Remarks)
SUMMARY OF FINDINGS – Attach site ma	p and photograph log showing	sampling locations, transects, etc.
Wetland vegetation criterion met?		the Sampled Area Yes X No
Hydric Soils criterion met?	Yes X No wit	thin a Wetland?
Wetlands hydrology present?	Yes No	
HYDROLOGY		
Field Observations:		
Surface Water Present?	Yes N	No X Depth (inches)
Water Table Present?		No X Depth (inches)
Saturation Present (including capillary fr	nge)? Yes X	No Depth (inches) <u>3"</u>
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliab Proper Interpretation	ole with Indicators of the Influence of Water
X Water-stained leaves Evidence of aquatic fauna Iron deposits Algal mats or crusts Oxidized rhizospheres/pore linings	Hydrological records Free water in a soil test h X Saturated soil Water marks Moss trim lines	Drift lines Scoured areas Sediment deposits
Thin muck surfaces Plants with air-filled tissue (aerenchyma) Plants with polymorphic leaves Plants with floating leaves Hydrogen sulfide odor	Presence of reduced iron Woody plants with adver roots Trees with shallow root s Woody plants with enlarg	Sparsely vegetated concave surface ystems Microtopographic relief
Remarks (describe recorded data from s	ream gauge, monitoring well, a	erial photos, previous inspections, if available):

VEGETATION – Use both common and scientific names of plants.

Tree	e Stratum	Plot size 30'				
			— Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Con	nmon name	Scientific name				(yes/no)
1.	Red Maple	Acer rubrum	FAC	20.5%	yes	yes
2.	White Pine	Pinus strobus	FACU	38.0%	yes	no
3.						
4.						
5.						
6.						
7.						
8.						
9.						
			_	58.5% =	Total Cover	
Shr	ub/Sapling Stratum	Plot size15'				
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Con	nmon name	Scientific name				(yes/no)
1.	Black Huckleberrry	Gaylussacia baccata	FACU	38.0%	yes	no
2.	Highbush Blueberry	Vaccinium corymbosum	FACW	38.0%	yes	yes
3.	Sweet Pepperbush	Clethra alnifolia	FAC	38.0%	yes	yes
4.						
5.						
6.						
7.						
8.						
9.						
			_	<u>114.0%</u> =	Total Cover	
Her	b Stratum	Plot size5'				
			Indicator	Absolute	Dominant?	Wetland
			Status	% Cover	(yes/no)	Indictor?
Con	nmon name	Scientific name				(yes/no)
1.	N/A	N/A	N/A	N/A	N/A	N/A
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
				N/A =	Total Cover	

Woody Vine Stratum	Plot size30'				
		Indicator	Absolute	Dominant?	Wetland
		Status	% Cover	(yes/no)	Indictor?
Common name	Scientific name				(yes/no)
1. Greenbirer	Smilax rotundifolia	FAC	10.5%	yes	yes
2.					
3.					
4.					
10.5% = Total Cover					

Dominance Test:	Number of dominant species	Number of dominant sp wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?		
	6	4		YesXNo		
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result		
	OBL species		X1	=		
	FACW species		X 2	=		
	FAC species		Х3	=		
	FACU species		X 4	=		
	UPL species		X5	=		
	Column Totals	(A)		(B)		
	Prevalence Index	B/A =		Is the Prevalence Index ≤ 3.0? YesNo		

Definitions of Vegetation Strata

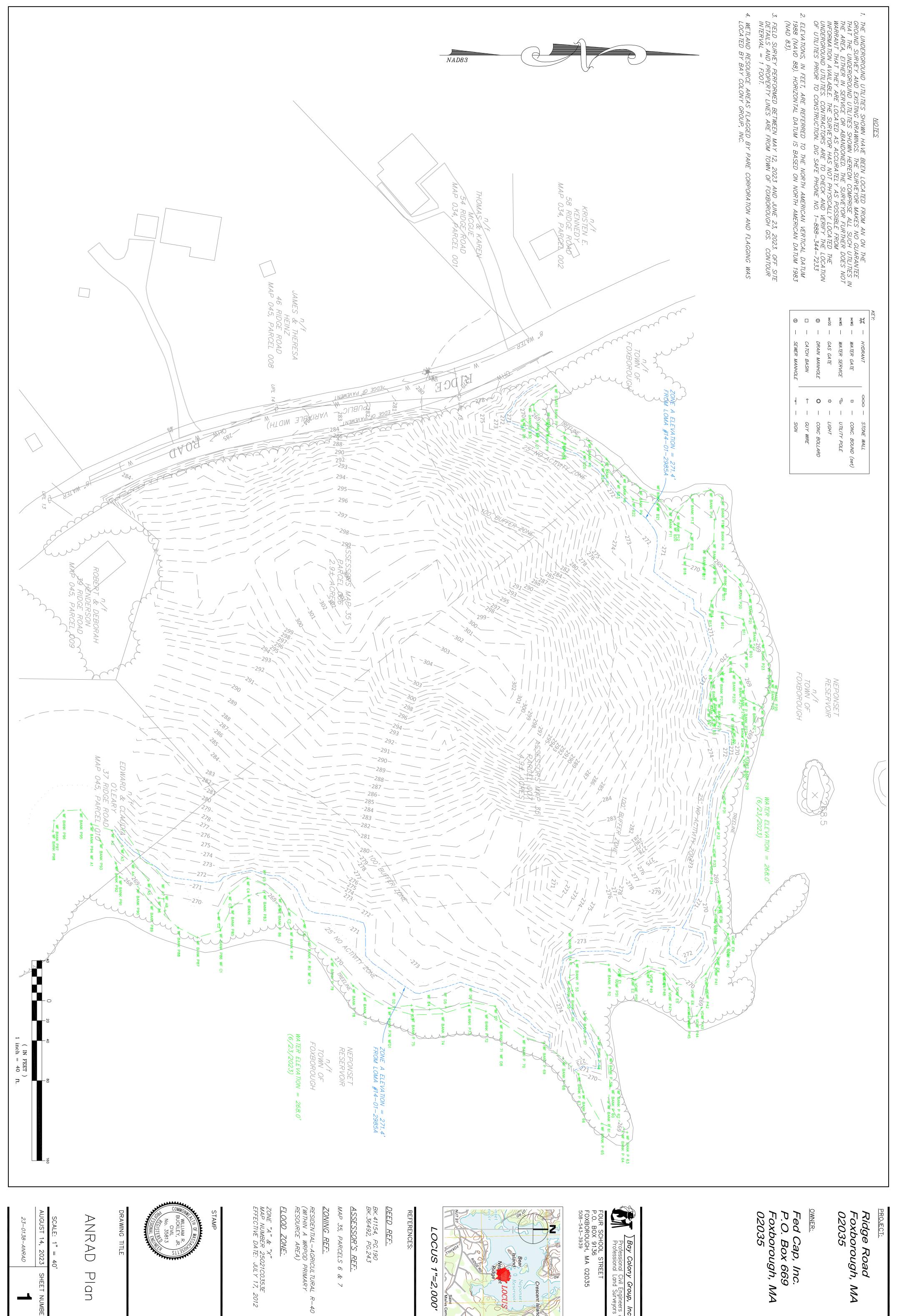
Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height

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

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				Features		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Location ²	Texture	Remarks		
O 3-0"	10YR 3/4						Fibric			
A 0-2"	10YR 2/1						Fine Sandy Loam			
Bw 2-20"	10YR 6/4		5YR 4/6	5%	RM	М	Sandy Loam			
	21		10YR 7/1	5%	RM	M				
¹Type: C=Co	ncentration, D=D	epletion	, RM=Reduced M	latrix, M	S=Masked San	d Grains ² Lo	ocation: PL=Pore Linir	ng, M=Matrix		
Hydric Soil I	ndicators (Check	all that	apply)			Indicator	Indicators for Problematic Hydric Soils			
Histoso	ol (A1)		XSandy	/ Redox (S5)	2 cm	Muck (A10)			
Histic E	pipedon (A2)		Stripp	oed Matri	ix (S6)	5 cm	Mucky Peat or Peat	(S3)		
Black H	listic (A3)		Polyv	alue Belo	w Surface (S8)	Dark	Dark Surface (S7)			
Hydrog	en Sulfide (A4)		Thin [Dark Surf	ace (S9)	Poly	value Below Surface	(S8)		
Stratifi	ed Layers (A5)		Loam	y Mucky	Mineral (F1)	Thin	Thin Dark Surface (S9)			
Deplet	ed Below Dark Su	ırface (A	11) Loam	y Gleyed	Matrix (F2)	Iron	Iron-Manganese Masses (F12)			
Thick D	ark Surface (A12)	Deple	eted Matr	rix (F3)	Mes	Mesic Spodic (A17)			
Sandy	Mucky Mineral (S	1)	Redo:	x Dark Su	rface (F7)	Red	Red Parent Material (F21)			
Sandy	Gleyed Matrix (S4	1)	Deple	eted Dark	Surface (F8)	Very	Very Shallow Dark Surface (TF12)			
Dark Si	urface (S7)					Othe	er (Include Explanatio	n in Remarks)		
Restrictive L	ayer (if observed	i)	Туре:			Depth (inch	nes):			
Remarks:										
Hydric Soils	criterion met?		Yes	No	X					



LOCUS 1"=2,000'

Plan

NUMBER

Bay Colony Group, Inc.

Professional Civil Engineers & Professional Land Surveyors

Ridge Road Foxborough, MA 02035

Fed Cap, Inc. P.O. Box 669 Foxborough, MA 02035