

Appendix B

Wetland Information

100 Populatic Street, Franklin MA Wetland Border Report | Page 1



Wetland Border Report

Site Locus: 100 Populatic Street, Franklin MA

Prepared for: Richard and Alicia Karas

Prepared by: Goddard Consulting LLC, 291 Main St, Suite 8, Northborough MA 01532

Date: 7/10/2023

INTRODUCTION

On July 7, 2023, wetland resources were delineated for Richard and Alicia Karas on land located on or near 100 Populatic Street, Franklin MA (refer to enclosed locus maps). The wetland border was flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The titles of attached documents are as follows:

- DEP Bordering Vegetated Wetland Determination Forms
- Orthophoto of Locus Site, Goddard Consulting LLC, 7/7/2023
- Orthophoto with NRCS Soils, Goddard Consulting LLC, 7/7/2023
- Orthophoto with FEMA Flood Zones, Goddard Consulting LLC, 7/7/2023
- Orthophoto with DEP Mapped Wetlands, Goddard Consulting LLC, 7/7/2023
- USGS of Site, Goddard Consulting LLC, 7/7/2023
- Delineation Sketch, Goddard Consulting LLC, 7/7/2023

SUMMARY OF FINDINGS

The boundary of the Bordering Vegetated Wetland (BVW) associated with Populatic Pond was delineated with flag series GCA1-GCA10 and GCB1-GCB5. The sampling point for the BVW determination took place near flag GCA9. Additionally, the boundary of BVW across Populatic Street from the property was flagged with series GCC1-10.

Vegetation upgradient of the BVW is dominated by black cherry, red oak, sweet pepperbush, sassafras, and Asiatic bittersweet. Vegetation downgradient of the BVW consists of red maple, American elm, sweet pepperbush, and royal fern. Invasive species present on the site include Japanese knotweed, Asiatic bittersweet, purple loosestrife, and glossy buckthorn. Aggressive native species present on the site include fox grape, greenbriar and Virginia creeper.

Soils identified on the property consist of sand and sandy loams. In the wetland soil sample, sand (10YR6/1) was found from 0-3" and sandy loam (10YR3/2) was found from 3-4". Sandy loam (10YR6/3) was also found from 4-6", and fine sandy loam (10YR7/2) was found from 6-24". In the upland soil sample, fine sandy loam (10YR3/2) was found from 0-1", fine sandy loam (10YR5/2) was found from 1-14", and fine sandy loam (10YR5/6) was found from 14-24". More detailed information about soils is included in the attached NRCS Soil Map and the DEP Bordering Vegetated Wetland Determination Forms.

According to the MassGIS data layers for the Natural Heritage & Endangered Species Program (NHESP), the locus site is not located within Estimated and/or Priority Habitat of Rare Wildlife or an Area of Critical Environmental Concern (ACEC). There are no mapped certified or potential vernal pools on site. The site is not located in an Outstanding Resource Waters Area (ORW). The site partially falls within a jurisdictional FEMA Flood Zone, Flood Zone AE (1% annual chance of flooding with BFE), which constitutes Bordering Land Subject to Flooding (BLSF).

100 Populatic Street, Franklin MA

Wetland Border Report | Page 2



The MA Wetlands Protection Act and the Town of Franklin take jurisdiction over Bordering Vegetated Wetlands (BVW) and Bordering Land Subject to Flooding (BLSF). The BVW systems on and off-site have a jurisdictional 100-foot Buffer Zone that casts partially onto the locus site, and a 25-foot No Disturb Zone under the Franklin Conservation Commission Regulations. Any work within these resource areas, including the 100-foot Buffer Zones, requires a Request for Determination (RDA) or Notice of Intent (NOI) to be filed with the Franklin Conservation Commission.

DESCRIPTION OF REGULATED INLAND RESOURCE AREA

The table below provides the regulatory jurisdiction, flag numbers/colors, and wetland types and locations for the resource areas delineated.

Resource	Regulatory	Flag Numbers	Wetland Types and
Area	Jurisdiction	and Color	Locations
Bordering	BVW & 100-	GCA1-GCA10	The boundary of BVW
Vegetated	foot Buffer	and GCB1-	located at the east of the
Wetland	Zone (WPA)	GCB5	locus site.
(BVW)		(Blue flags)	
, ,	25-foot No		
	Disturb Zone		
	(bylaw)		
Bordering	BVW & 100-	GCC1-GCC10	The boundary of BVW
Vegetated	foot Buffer	(Blue flags)	located west of the locus
Wetland	Zone (WPA)		site, across Populatic
(BVW)	, ,		Street.
, ,	25-foot No		
	Disturb Zone		
	(bylaw)		
Bordering	BLSF (no	Not flagged in	The boundary of the
Land Subject	buffer zone)	field	100-year floodplain, to be
to Flooding			determined by base flood
(BLSF)			elevation and field survey
, ,			measurements.



SITE PHOTOS

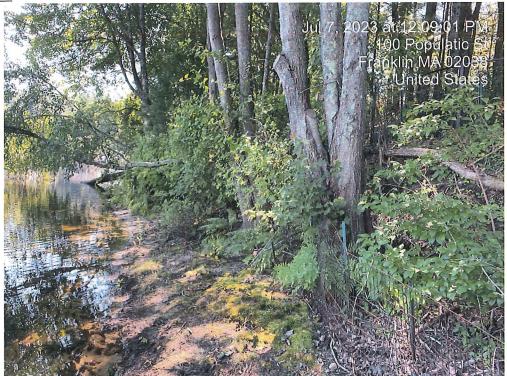


Photo 1. View of BVW at edge of Populatic Pond.



Photo 2. Upland soil sample pulled upgradient of flag GCA9.





Photo 3. Wetland soil sample pulled downgradient of flag GCA9.

Sincerely,

Goddard Consulting, LLC

Chris Frattaroli Wetland Scientist

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site:	100 Populatic Street		City/Town: Fran	ıklin			Sampling Date: 7/7/23
Applicant/Owner:	Richard and Alicia Karas		Sampling Point or Zone: GCA9			A9	
Investigator(s):	Chris Frattaroli		Latitude/Longitude: 42.12812829320563, -7			29320563, -71.3809049858	
Soil Map Unit Name:	Hinckley Loamy Sand		NWI or DEP Classification: Open Water, Bog			r, Bog	
Are Vegetation Are Vegetation	c conditions on the site typic	Hydrology	significantly disturbe naturally problematio	d? (If yes, exp c? (If yes, exp	plain in Re plain in Re	marks) marks)	f no, explain in Remarks)
Wetland vegetation cri	terion met? Yes	No X	Is the Sampled Area w	ithin a Wetl	and?	Yes	No X
Hydric Soils criterion m			is the sampled Alea w	itilli a vveti	anu:	163_	_ NO <u>X</u>
Wetlands hydrology pr	esent? Yes	No X					
Wetlands Hydrology pr		_ NO _X					
Remarks, Photo Details	, Flagging, etc.:						
HYDROLOGY Field Observations:					N	V	Double from
Surface Water Present?			Ye		No	X	Depth (in)
Water Table Present?	luding capillary fringe)?			es es	No No	X	Depth (in)
			16	es	INO	Χ	Depth (in)
Wetland Hydrology I		T					
Reliable Indicators of W	/etlands		an be Reliable with		Indicator	s of the I	nfluence of Water
Hydrology		Proper Interpret					
Water-stained leav			ogical records				rvation of inundation
Evidence of aquation Iron deposits	стаипа	Saturat	ter in a soil test hole			ainage pa ift lines	atterns
Algal mats or crust	•	Water				oured are	225
Oxidized rhizosphe			im lines			diment d	
Thin muck surfaces		POLICIES EN	e of reduced iron	•		rface soil	
Plants with air-fille			plants with adventiti	ious			getated concave
(aerenchyma)	id tissue	roots	piants with daventre	lous		face	Scratca concave
Plants with polym	ornhic leaves	8 2 8 25	ith shallow root syste	oms	0.000		graphic relief
Plants with floatin	(*)		plants with enlarged			1.5	position (depression,
Hydrogen sulfide o	-		prants with emarged	10.11.00.0			e, fringing lowland)
	rded data from stream gauge	. monitoring well	aerial photos, previou	us inspection			,
,			, , , , , , , , , , , , , , , , , , , ,		,		

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

Tre	ee Stratum	Plot size 30'					
	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)	% Dominant
1	Red oak	Quercus rubra	FACU	38.0%	X	,	64.96%
2		Prunus serotina	FACU	20.5%	Х		35.04%
3							
4							
5							
6							
7							
8							
9	1						
	× ∞			58.5%	=Total Cover		
Shr	rub/Sapling Stratum	Plot size15'			-		
	Γ	T		Т	т т	Wetland	
			Indicator	Absolute %	Dominant?	Indictor?	%
	Common Name	Scientific name	Status	Cover	(yes/no)	(yes/no)	Dominant
1	Sassafras	Sassafras albidum	FACU	20.5%	X	VI	87.23%
2		Clethra alnifolia	FAC	3.0%		Х	12.77%
3						170-	
4							
5							
6							
7							
8							
9							
				23.5%	=Total Cover		
<u>Her</u>	r <u>b Stratum</u>	Plot size 5'			-		
	1					Wetland	
	Comman Name	C-itific name	Indicator	Absolute%	Dominant?	Indictor?	%
	Common Name Creeping buttercup	Scientific name	Status	Cover	(yes/no)	(yes/no)	Dominant
	Common chickweed	Ranunculus repens Stellaria media	FAC	10.5%	X	X	31.82%
_	Oriental bittersweet	Celastrus orbiculatus	FACU	10.5%	Х		31.82%
	Garden smartweed	Persicaria wallichii	FACU FAC	3.0%			9.09%
_	Lily-of-the-valley	Convallaria majalis	UPL			Х	9.09%
	Upright Yellow Wood-Sorrel	Oxalis stricta	FACU	3.0%			9.09%
7		Oxans stricta	FACU	3.0%	 		9.09%
8							
9		+					
10		+					
11					 		
12				 			
	<u> </u>			33.0%	=Total Cover		
				33.0%	=10tal Cover		

VEGETATION – continued.

Wo	ody Vine Stratum F	Plot size 30'					
						Wetland	
			Indicator	Absolute %	Dominant?	Indictor?	%
	Common Name	Scientific name	Status	Cover	(yes/no)	(yes/no)	Dominant
1	Oriental bittersweet	Celastrus orbiculatus	FACU	20.5%	X		46.07%
2	Green brier	Smilax rotundifolia	FAC	10.5%	Х	X	23.60%
3	Virginia creeper	Parthenocissus quinquefolia	FACU	10.5%	Х		23.60%
4	Fox grape	Vitis labrusca	FACU	3.0%			6.74%
	-			44.5%	=Total Cover		

Rapid Test:	Do all dominant species have an indic	ator status of OBL or FAC	CW?	Yes	No X	
Dominance Test:	Number of dominant species	Number of dominant sp	ecies that are	Do wetland indicator plants make		
		wetland indicator plant	ts	up≥50% of d	ominant plant	
		, v		species?		
	8	2		Yes	No X	
Prevalence Index:		Total % Cover	Multiply by:		Result	
		(all strata)	372 73 15			
	OBL species	0%	x1	=	0%	
	FACW species	0%	x2	=	0%	
	FAC species	27%	x3	=	81%	
	FACU species	130%	x4	=	518%	
	UPL species	3%	x5	=	15%	
	Column Totals (A)	160%		(B)	614%	
¥	Prevalence Index	B/A=	3.85	Is the Prevale	nce Index ≤3.0?	
				Yes	No X	
Wetland vegetation 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 %	3.00%
6-15 %	10.50%
15-25 %	20.50%
26-50 %	38.00%
51-75 %	63.00%
76-95 %	85.50%
96-100 %	98.00%

Profile Description: (Describe to the	denth	needed to doc	umen	t the indicator or co	nfirm the absence of indica	ators)				
Depth	Matrix	асри		umen	Redox Feature		1	Ĭ			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Location ²	Texture	Remarks			
0-1	10YR3/2		` ′		1		FSL				
1-14	10YR5/2						FSL				
14-24	10YR5/6					Nat	FSL				
		2					198				
								<u> </u>			
1Type: C=Concentration	D=Dopletion	DAA-Do	duced Matrix M	C=N/ac	kod Sand Crains 21 acr	I ation: PL=Pore Lining, M=Mat					
Hydric Soil Indicators				3-IVIAS	keu sanu Granis Loca	Indicators for Problema					
Histosol (A1)	(Check all that	appiy	Sandy Re	dov (C	Ε1	2 cm Muck (A1	WINDOW AND WALLEST PARTY STREET				
Histic Epipedon (A2	2)		Stripped		•	,	5 cm Mucky Peat or Peat (S3)				
Black Histic (A3)	-1				w Surface (S8)	Dark Surface (S					
Hydrogen Sulfide (A	14)		Thin Dark			Polyvalue Belor	(5)				
Stratified Layers (AS	3				Λineral (F1)	Thin Dark Surfa					
Depleted Below Da				•	Matrix (F2)	Iron-Manganes	8/ 8				
Thick Dark Surface			Depleted			Mesic Spodic (A					
Sandy Mucky Miner	ral (S1)		Redox Da			Red Parent Mat					
Sandy Gleyed Matri	ix (S4)		Depleted	Dark S	Surface (F8)	Very Shallow D	ark Surface (TF12)				
Dark Surface (S7)						Other (Include	Explanation in Rem	ıarks)			
Restrictive Layer (if observed) Type: Depth (inches):											
Remarks											
Hydric Soils criterion m	et?	Yes	No	X							

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site:	100 Populatic Street		City/Town: Fran	klin			Sampling Date	: 7/7/23
Applicant/Owner:	Richard and Alicia Karas		Sampling Point or Zone: GCA9				- 17 17	
Investigator(s):	Chris Frattaroli		La	titude/Lo	ngitude:	42.1281	1436844563, -71	.3808942570
Soil Map Unit Name:	Hinckley Loamy Sand		NWI or	DEP Classi	fication:	Open Wa	ater, Bog	
Are Vegetation Are Vegetation	c conditions on the site typic, Soil, or, Soil, or NGS – Attach site map an	Hydrology Hydrology	significantly disturbe naturally problemation		xplain in xplain in f	Remarks Remarks)	(If no, explain in)	Remarks)
Wetland vegetation cri	CORPORATION CONTRACTOR		Is the Sampled Area w	ithin a We	tland?	Yes	X No	-
Wetlands hydrology pr		_ No						
Wettands nydrology pr	CSCITC: 1CSX_	_ ""						
INVENDED								
HYDROLOGY								
Field Observations:								
Surface Water Present?			Ye		No		Depth (in)	0
Water Table Present?			Ye		No	X	Depth (in)	
2012/21 W W W/W D WW W	luding capillary fringe)?		Ye	es X	No		Depth (in)	0
Wetland Hydrology I								
Reliable Indicators of W	/etlands	0	an be Reliable with		Indicat	ors of the	e Influence of Wat	er
Hydrology		Proper Interpret						
Water-stained leav			ogical records		_		servation of inun	dation
Evidence of aquation	c fauna		ater in a soil test hole			-	patterns	
Iron deposits		X Satural				Drift line		
Algal mats or crust		Water				Scoured		
Oxidized rhizosphe			rim lines				t deposits	
Thin muck surfaces			ce of reduced iron				oil cracks	
Plants with air-fille	ed tissue		plants with adventiti	ous			vegetated concave	2
(aerenchyma)		roots				surface		
Plants with polymo			ith shallow root syste				oographic relief	
Plants with floating	9	woody	plants with enlarged	lenticels			nic position (depr	
Hydrogen sulfide o	rded data from stream gauge	monitoring	acrial photos presides	is Inspect!			pe, fringing lowla	naj
Welligi <i>vs (nesc</i> ribe (600)	rucu uata nom stream gauge	, monitoring well,	aeriai piiotos, previot	is inspecti	uiis, ii dVa	партеј:		

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

Common Name	<u>Tre</u>	e Stratum	Plot size 30'					
All Red maple					2000 000 000 000 000 000 000 000 000 00	0.0000000000000000000000000000000000000	Indictor?	%
2 American elm Ulmus americana FACW 10.5% X X 33.8 3 4					190000000000000000000000000000000000000			Dominant
3								66.13%
A	_		Ulmus americana	FACW	10.5%	X	X	33.87%
Shrub/Sapling Stratum								
Shrub/Sapling Stratum	-							
The common Name								
Shrub/Sapling Stratum	_							
Shrub/Sapling Stratum								
Shrub/Sapling Stratum	_							
Indicator Absolute Dominant? Wetland Indicator Yes/no) Dominant? Wetland Indicator Yes/no Dominant? Yes/no Yes/no Dominant? Yes/no Dominant? Yes/no Yes/no Dominant? Yes/no	9							
Common Name Scientific nam		502			31.0%	_=Total Cover		
Common Name Scientific nam	Shr	ub/Sapling Stratum	Plot size 15'					
Common Name								
Common Name Scientific name Status Cover (yes/no) (yes/no) Domin								T
Sweet pepperbush Clethra alnifolia FAC 10.5% X X 100.								%
2								Dominant
3		Sweet pepperbush	Clethra alnitolia	FAC	10.5%	X	X	100.00%
A								
S S S S S S S S S S	_					 		
Common Name Common Name Common Scientific name Common Name Com						1		
The composition The compos						 		
Royal fern Size S								
Herb Stratum	10.0							
Herb Stratum Plot size 5' Indicator Absolute Dominant? (yes/no) Dominant. (yes/no) Dominant? (yes/no) Dominant. (yes/no) Dominant. (yes/no) Dominant. (yes/no) Dominant. (yes/no) Dominant. (yes/no) Dominant. (yes/no) Domi	_							
Herb Stratum	9	<u> </u>						
Indicator Absolute	<u>Her</u>	<u>b Stratum</u>	Plot size 5'		10.376	_= 0tal cover		
Common Name Scientific name Status Cover (yes/no) (yes/no) Domination 1 Royal fern Osmunda spectabilis OBL 38.0% X X 71. 2 Beggar Ticks Bidens frondosa FACW 3.0% X 5. 3 False nettle Boehmeria cylindrica OBL 3.0% X 5. 4 Purple loosestrife Lythrum salicaria OBL 3.0% X 5. 5 Cardinal-flower Lobelia cardinalis OBL 3.0% X 5. 6 Jewelweed Impatiens capensis FACW 3.0% X 5. 7 Total Total Total Total Total Total 9 Total Total Total Total Total Total Total 10 Total	1 1				1		VII. 12 - VEILLE AND	
1 Royal fern Osmunda spectabilis OBL 38.0% X X 71. 2 Beggar Ticks Bidens frondosa FACW 3.0% X 5. 3 False nettle Boehmeria cylindrica OBL 3.0% X 5. 4 Purple loosestrife Lythrum salicaria OBL 3.0% X 5. 5 Cardinal-flower Lobelia cardinalis OBL 3.0% X 5. 6 Jewelweed Impatiens capensis FACW 3.0% X 5. 7 Impatiens capensis FACW 3.0% X 5. 8 Impatiens capensis Impatiens capen	!	L		(1.58/mag/1542445050004	PACSES AS SOURCE PROGRAMME AND ADDRESS.	II Car Diceron Chicago Compagnica	ALLES CONTRACTOR CONTRACTOR	%
2 Beggar Ticks Bidens frondosa FACW 3.0% X 5. 3 False nettle Boehmeria cylindrica OBL 3.0% X 5. 4 Purple loosestrife Lythrum salicaria OBL 3.0% X 5. 5 Cardinal-flower Lobelia cardinalis OBL 3.0% X 5. 6 Jewelweed Impatiens capensis FACW 3.0% X 5. 7 S	_				177.00. 040.700			Dominant
3 False nettle Boehmeria cylindrica OBL 3.0% X 5. 4 Purple loosestrife Lythrum salicaria OBL 3.0% X 5. 5 Cardinal-flower Lobelia cardinalis OBL 3.0% X 5. 6 Jewelweed Impatiens capensis FACW 3.0% X 5. 7 Impatiens capensis FACW 3.0% X 5. 8 Impatiens capensis Impatiens c						<u> </u>		71.70%
4 Purple loosestrife Lythrum salicaria OBL 3.0% X 5. 5 Cardinal-flower Lobelia cardinalis OBL 3.0% X 5. 6 Jewelweed Impatiens capensis FACW 3.0% X 5. 7 Impatiens capensis FACW 3.0% X 5. 8 Impatiens capensis Im	2	Beggar Ticks						5.66%
5 Cardinal-flower Lobelia cardinalis OBL 3.0% X 5. 6 Jewelweed Impatiens capensis FACW 3.0% X 5. 7 5. 8								5.66%
6 Jewelweed Impatiens capensis FACW 3.0% X 5. 7								5.66%
7								5.66%
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		Jewelweed	Impatiens capensis	FACW	3.0%		X	5.66%
9								
10	-							
11 12	$\overline{}$							
12	$\overline{}$							
		3						
53.0% =Total Cover	12							
					53.0%	=Total Cover		

VEGETATION - continued.

Wo	ody Vine Stratum	Plot size 30'					
	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)	% Dominant
1	Fox grape	Vitis labrusca	FACU	10.5%	Х		100.00%
2							
3							
4							
	10.5% =Total Cover						

Rapid Test:	Rapid Test: Do all dominant species have an indicator status of OBL or FACW? Yes No X						
Dominance Test:	Number of dominant species	Number of dominant s	species that are	Do wetland indicator plants make			
	**	wetland indicator plar	nts	up ≥ 50% of do	ominant plant		
				species?			
	5	4		Yes X	No		
<u>Prevalence Index:</u>		Total % Cover (all strata)	Multiply by:		Result		
	OBL species	47%	x1	=	47%		
	FACW species	17%	x2	=	33%		
	FAC species	31%	х3	=	93%		
	FACU species	11%	x4	=	42%		
	UPL species	0%	x5	=	0%		
	Column Totals (A)	105%		(B)	215%		
	Prevalence Index	B/A=	2.05	Is the Prevaler	iceIndex ≤3.0?		
				Yes X	No		
Wetland vegetation criter	ion met? Yes X No	•		•			

Definitions of Vegetation Strata

Tree

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

Shrub/Sapling

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

Herb

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

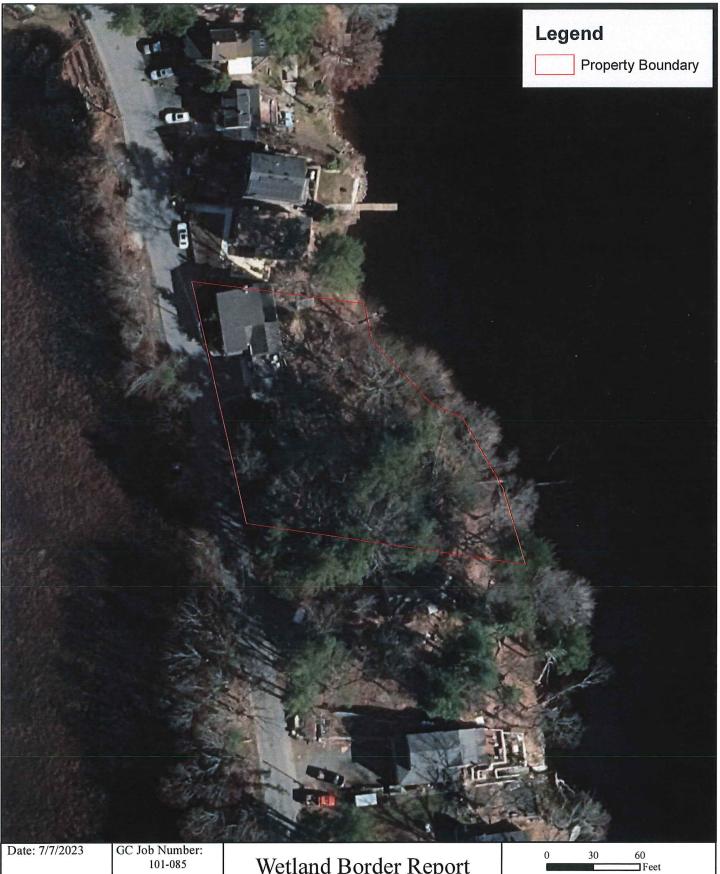
Woody vines

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

Cover	Cover Ranges					
Range	Midpoint					
1-5 %	3.00%					
6-15 %	10.50%					
15-25 %	20.50%					
26-50 %	38.00%					
51-75 %	63.00%					
76-95 %	85.50%					
96-100 %	98.00%					

SOIL

Profile Description: (Describe to the	depth	needed to doc	umen	t the indicator or co	nfirm the absence of indica	ators)	
Depth	Matrix		Redox Features			5		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Location ²	Texture	Remarks
0-3	10YR6/1						Sand	
3-4	10YR3/2						Sandy Ioam	
4-6	10YR6/3						Sandy Ioam	
6-24	10YR7/2						FSL	
								<u> </u>
1-								
				IS=Mas	ked Sand Grains *Loca	tion: PL=Pore Lining, M=Mat		
Hydric Soil Indicators (Check all that apply)						Indicators for Problematic Hydric Soils		
Histosol (A1)			Sandy Redox (S5)			2 cm Muck (A10)		
Histic Epipedon (A2)			Stripped Matrix (S6)			5 cm Mucky Peat or Peat (S3)		
Black Histic (A3)			Polyvalue Below Surface (S8)			Dark Surface (S7)		
Hydrogen Sulfide (A4)			Thin Dark Surface (S9)			Polyvalue Below Surface (S8)		
Stratified Layers (A5)			Loamy Mucky Mineral (F1)			Thin Dark Surface (S9)		
Depleted Below Dark Surface (A11)			Loamy Gleyed Matrix (F2)			Iron-Manganese Masses (F12)		
Thick Dark Surface (A12)			X Depleted Matrix (F3)			Mesic Spodic (A17)		
Sandy Mucky Mineral (S1)			Redox Dark Surface (F7)			Red Parent Material (F21)		
Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F8)			Very Shallow Dark Surface (TF12) Other (Include Explanation in Remarks)		
Dark Surface (S7)								
Restrictive Layer (if observed) Type: Depth (inches):								
Remarks								
Hydric Soils criterion met? Yes X No								



GODDARD CONSULTING Strategic Ecological Consulting

Wetland Border Report Orthophoto of Locus Site

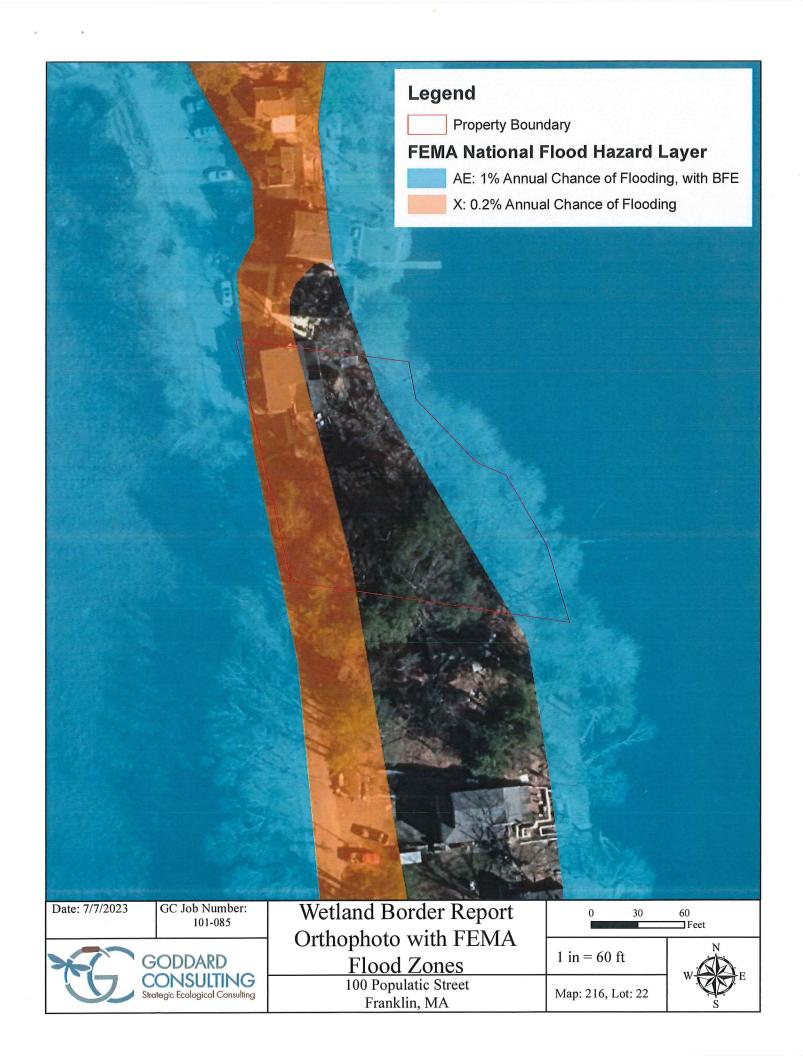
> 100 Populatic Street Franklin, MA

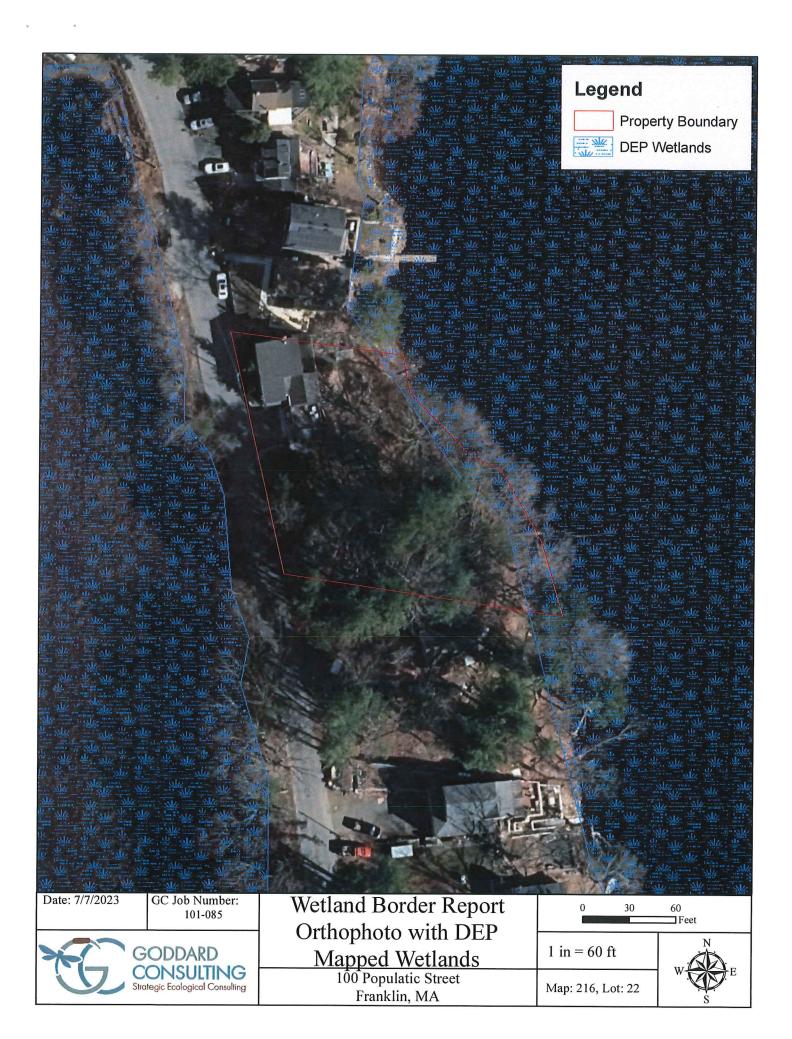
1 in = 60 ft

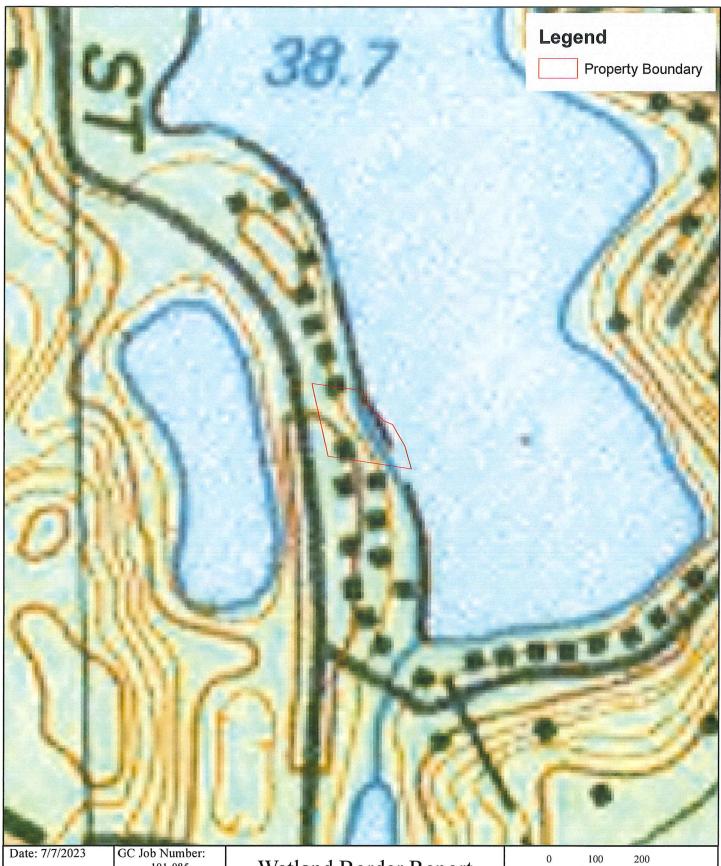
Map: 216, Lot: 22











101-085



Wetland Border Report USGS of Site

> 100 Populatic Street Franklin, MA

200 Feet

1 in = 200 ft

Map: 216, Lot: 22







Appendix C

Site Plans & Additional Materials