



# Wetland Delineation Report

## Proposed Hingham Center for Active Living Facility

### EDM Studio, Inc

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SLR Project No.: 141.051021.00001

November 19, 2025

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## Acronyms and Abbreviations

BVW	Bordering Vegetated Wetland
FEMA	Federal Emergency Management Agency
GIS	Geographic Information Systems
GPS	Global Positioning System
LF	Linear feet
MassDEP	Massachusetts Department of Environmental Protection
MAHW	Mean Annual High Water
PEM	Palustrine Emergent Wetland
PFO	Palustrine Forested Wetland
PSS	Palustrine Scrub Shrub Wetland
PWS	Professional Wetland Scientist
NHESP	Natural Heritage & Endangered Species Program
NRCS	Natural Resources Conservation Service
SLR	SLR International Corporation
SF	Square feet
USACE	U.S. Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey



## 1.0 Introduction

On July 29, 2025, Megan B. Raymond, Professional Wetland Scientist (PWS) and Registered Soil Scientist (RSS), and Matthew Ormrod, Environmental Scientist, of SLR International Corporation (SLR) completed wetland delineation activities within a pre-defined study area in Hingham, Massachusetts (**Figure 1**). The study area is comprised of the proposed Development Area Boundary, and the area within approximately 200 linear feet of this boundary. Anticipated redevelopment activities will require the demolition of an existing building, removal of concrete pads, stone ledge, gravel, utility poles, guy wires, and metal posts, followed by construction of a new 28,000 square foot (SF) one-story building and associated parking areas and accessible sidewalks, site service utilities (water, sanitary, storm), stormwater management basins, and landscaping elements.

Proposed activities are limited to a  $\pm 5.3$ -acre area, referred to herein as the “Development Area Boundary”, **Figure 1**. Resource delineation efforts and classification of existing natural communities within approximately 200 linear feet of this area were completed as part of this study to support land-use decision making. In total, the “study area” is approximately 20 acres and the Development Area Boundary is  $\pm 5.3$  acres.

In summary, freshwater, forested bordering vegetated wetlands (BVW) were delineated east and north of the Development Area Boundary. The northern BVW appears to be isolated and contains a potential vernal pool (PVP), as designated and mapped by the Massachusetts Department of Environmental Protection (MassDEP). The eastern BVW is associated with a larger inland wetland complex, including a watercourse and confirmed vernal pool. Wetland and upland areas exhibit varying degrees of historical, anthropogenic disturbances including evidence of grading and filling. Non-native, invasive species have colonized understory areas within wetland and edge habitats.

The BVWs and PVP are located within the Weymouth Back River Area of Critical Environmental Concern (ACEC) and Coastal Zone boundary, as designated MassDEP. The proposed project has been designed to avoid any development within the 100-foot buffer zone of BVWs. Based on a combination of topography, distance, and design elements, no adverse effects to regulated resource areas subject to protection under M.G.L c. 131, § 40 are anticipated from proposed development activities. A wide vegetated buffer will be retained between aspects of the proposed development and existing resource areas.

### 1.1 Site Description

The study area and general vicinity were historically developed for use as the Hingham Naval Ammunition Depot – a 991-acre facility established by Congress in 1903. Naval operations continued into the early 1960s, when the property was transferred to the Town of Hingham. Several of the original naval facility buildings still remain in the area. Other former naval facility parcels have been redeveloped by the town for recreational purposes.

Topography within the study area is irregular with many pits and mounds indicative of historical ground disturbances. Portions of the study area have been graded nearly flat to accommodate buildings and roads. In general, the land surface slopes towards the east, in the direction of an inland wetland and perennial watercourse. Cart paths, dry stacked stone walls, and terraced landforms east of the study area indicate historical agricultural activities in this area. Elevations range from 41 feet (NAVD88) in the central portion of the study area, to 20 feet along the eastern portion of the study area.



### 1.1.1 FEMA Mapping

The Federal Emergency Management Agency (FEMA) has issued Flood Insurance Rate Map (FIRM) No. 25023C0081K, revised July 3, 2024, for the study area and vicinity. Based on this FIRM, the study area is not located within a FEMA-designated flood hazard area. The closest mapped flood hazard area to the study area is located approximately 1,200 linear feet to the southwest.

## 2.0 Methodology

Wetlands and watercourses were delineated using the methodology provided in the United States Army Corps of Engineers (USACE) *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, as well as wetland resource area definitions set forth in 310 CMR 10.00. The classification system of the National Cooperative Soil Survey and *Field Indicators of Hydric Soils in the United States* (USDA, 2024) were used in this investigation. A second-order soil survey in accordance with the principle and practices noted in the United States Department of Agriculture (USDA) publication *Soil Survey Manual* (2017) was completed at the study site.

Soil types were identified by observation of soil morphology (soil texture, color, structure, etc.). To observe the morphology of soils within the study area, hand auger boring (maximum depth of 2 feet) were completed, where possible. During field investigations, weather conditions were clear and sunny with air temperatures reaching a high of 90°F. Site conditions were suitable for wetland delineation work.

## 3.0 Results

Geospatial data were accessed via the USDA – Natural Resources Conservation Service (USDA-NRCS) web soil survey mapping. The soil survey mapping is appended (**Figure 2**). The survey identifies the following soil mapping units with associated NRCS map number in the study area:

- Freetown muck, 0 to 1 percent slopes (52A) – Very poorly drained
- Quonset sandy loam, 8 to 15 percent slopes (262C) – Excessively drained
- Udorthents, 0 to 8 percent slopes, gravelly (659B) – Well drained

The soil survey mapping identified one very poorly drained soil unit within the study area, Freetown muck. In general, soils were found to be consistent with those mapped by NRCS.

## 4.0 Massachusetts Wetlands Protection Act Resource Areas

Wetland resources were delineated and characterized in accordance with the Massachusetts Wetlands Protection Act 310 CMR 10.00. No wetland resource areas were identified within the Development Area Boundary. However, resource areas were identified within close proximity to the study area including:

- 310 CMR 10.55 – Bordering Vegetated Wetlands



## 4.1 Bordering Vegetated Wetlands

Two palustrine forested wetland areas were delineated east and north of the Development Area Boundary. The eastern resource area is delineated by flag series WA-100 through WA-118 (Wetland A) on **Figure 3**.

Per the United States Fish and Wildlife Service's (USFWS) wetland classification system described in *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin, et al., 1979), two wetland areas are present within the study area both of which are classified as freshwater, forested/shrub wetland habitats (PFO1E), considered bordering vegetated wetlands (BVW) based on the definition in 310 CMR 10.55. The BVWs are associated with a riverine habitat (R5UBH) that, based on MassGIS data, is located further east and north of the study area. The unnamed watercourse appears to be partially hydrologically supported by stormwater discharges from adjacent, developed parcels and/or roadways. The watercourse is shown to flow in a northeasterly direction for approximately 1,600 feet, then west for approximately 1.25 miles, before discharging into Weymouth Back River.

Western portions of Wetland A, and the 100-buffer zone extending further west, appear to have been historically disturbed as evidenced by graded land surfaces, historical cart paths/farm roads, and dry stacked stone walls. Soils within this wetland area exhibited a mucky surface overlying sandy loam deposits. The understory community in the buffer zone, and western portions of Wetland A, features a densely vegetated understory comprised of roundleaf greenbrier (*Smilax rotundifolia*), Virginia-creeper (*Parthenocissus quinquefolia*), marginal wood fern (*Dryopteris marginalis*), glossy false buckthorn (*Frangula alnus*), poison ivy (*Toxicodendron radicans*), and common blackberry (*Rubus allegheniensis*). The vegetative community becomes more dominated by hydrophytic species moving east from the wetland boundary. Northern spicebush (*Lindera benzoin*) and coastal sweet-pepperbush (*Clethra alnifolia*) grow in dense thickets under a patchy canopy of red maple (*Acer rubrum*). Skunk-cabbage (*Symlocarpus foetidus*) is ubiquitous on the ground level.

The northern resource area, delineated by flag series WB-1 through WB-12 (Wetland B), is an isolated depression (i.e., isolated vegetated wetland) approximately 0.75 acres in area. At the time of SLR's site visit, standing water was present in the central, deeper portions of the depression. Water depths reached a maximum of approximately 10-inches. Leaf staining adjacent to areas with standing water were observed and are indicative of fluctuating water levels throughout the seasons. This wetland is mapped as a potential vernal pool by MassDEP.

Wetland B is characterized by a small area of open, shallow water with moderately dense emergent herbaceous vegetation and woody shrubs around the perimeter edge of water. Dominant shrub species include northern spicebush and coastal sweet-pepperbush. Roundleaf greenbrier (*Smilax rotundifolia*) and cinnamon fern (*Osmundastrum cinnamomeum*) are ubiquitous on the ground level throughout wetland areas and transitional areas east and north of the study area. Red maple and bitternut hickory (*Carya cordiformis*) are the dominant canopy species of Wetland B. Glossy false buckthorn (*Frangula alnus*), a non-native woody species, is also prevalent throughout the area. A potentially man-made swale or drainage ditch in the northwestern portion of Wetland B was observed during the site visit.

The principal functions of the wetlands include the following:

- Groundwater Discharge
- Sediment/Toxicant Retention
- Nutrient Removal/Retention/Transformation



- Wildlife Habitat

## 5.0 Conclusion

In July 2025, SLR wetland scientists delineated wetlands and characterized natural communities within a ±20-acre study area in Hingham, MA. Freshwater, forested wetlands bordering an unnamed stream were delineated east and north of the study area. A potential vernal pool and confirmed vernal pool are mapped within the boundaries of the delineated resource areas. The study area is located within the Weymouth Back River Area of Critical Environmental Concern (ACEC) and Coastal Zone boundary, as designated by the Massachusetts Department of Environmental Protection.

Thank you for the opportunity to assist you. If you have any questions regarding this report, please do not hesitate to contact us at (203) 271-1773 or either of our email addresses provided below.

Sincerely,

**SLR International Corporation**



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# Appendix A Figures

## Wetland Delineation Report

Proposed Hingham Center for Active Living Facility

EDM Studio, Inc

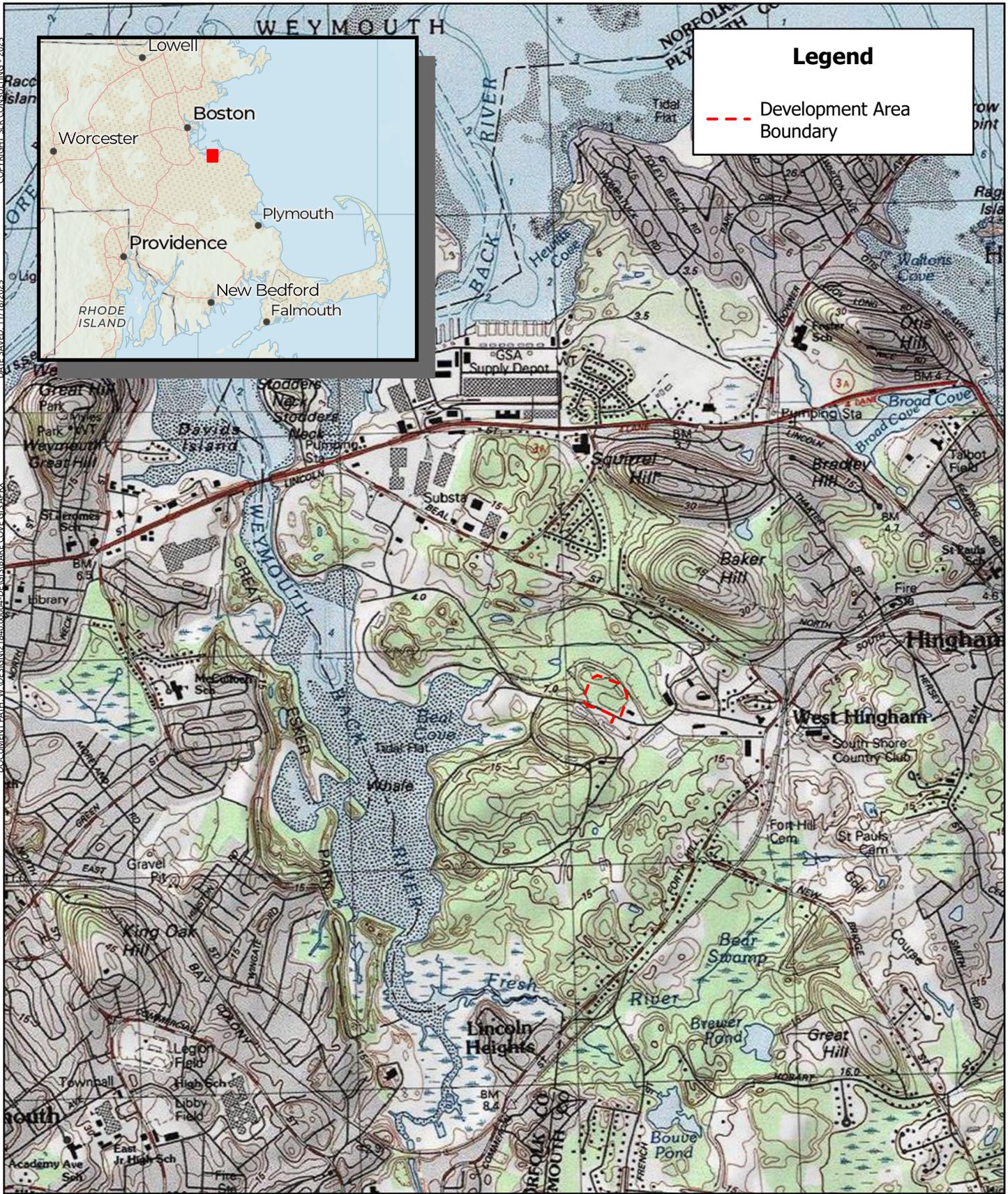
SLR Project No.: 141.051021.00001

November 19, 2025



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DATE SAVED: 11/18/2025

DOCUMENT PATH: W:\DESIGN\21840.0004\DESIGN\BARE COVE GIS APPX



**Legend**

--- Development Area Boundary

**SLR**

99 REALTY DRIVE  
CHESHIRE, CT 06410  
203.271.1773

**USGS LOCUS MAP**

HINGHAM CENTER FOR ACTIVE LIVING  
EDM STUDIO, INC.  
BARE COVE PARK DRIVE  
HINGHAM, MASSACHUSETTS

N

0 2,000 Feet

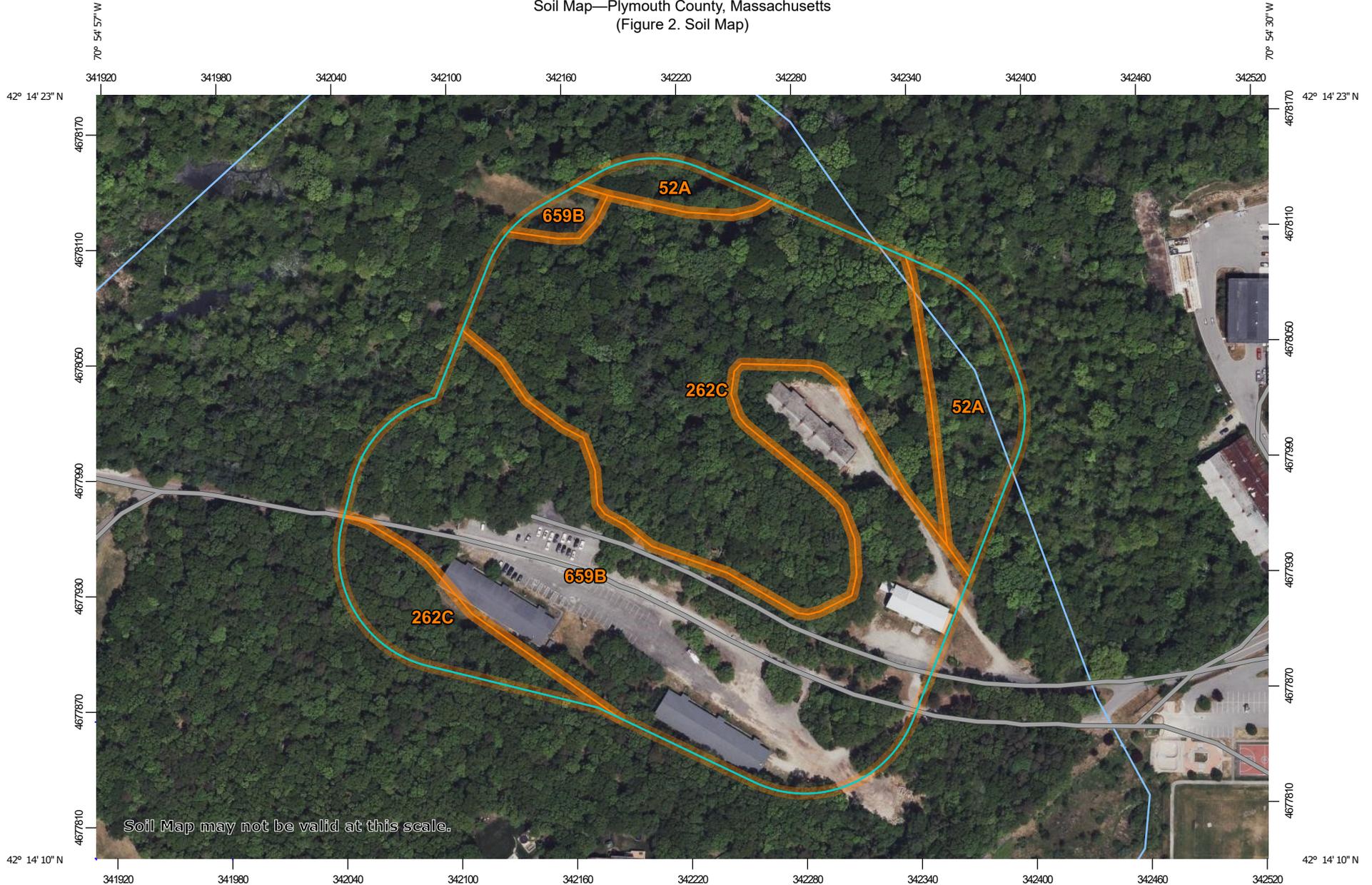
SCALE 1" = 2,000'

DATE 11/18/2025

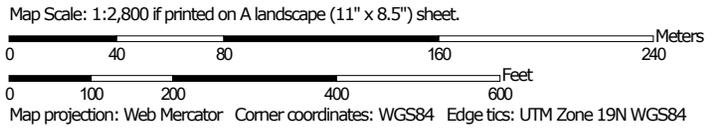
141.021840.00004  
PROJ. NO.

**FIG. 1**

Soil Map—Plymouth County, Massachusetts  
(Figure 2. Soil Map)



Soil Map may not be valid at this scale.



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Plymouth County, Massachusetts

Survey Area Data: Version 18, Sep 5, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 22, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
52A	Freetown muck, 0 to 1 percent slopes	1.8	9.1%
262C	Quonset sandy loam, 8 to 15 percent slopes	9.1	44.9%
659B	Udorthents, 0 to 8 percent slopes, gravelly	9.3	46.1%
<b>Totals for Area of Interest</b>		<b>20.2</b>	<b>100.0%</b>



MassGIS, NHESP, MassGIS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, NHESP, MassGIS

**SLR**

99 REALTY DRIVE  
CHESHIRE, CT 06410  
203.271.1773

**WETLANDS AND WATERCOURSES**  
HINGHAM CENTER FOR ACTIVE LIVING  
EDM STUDIO, INC.  
BARE COVE PARK DRIVE  
HINGHAM, MASSACHUSETTS

N

0 300

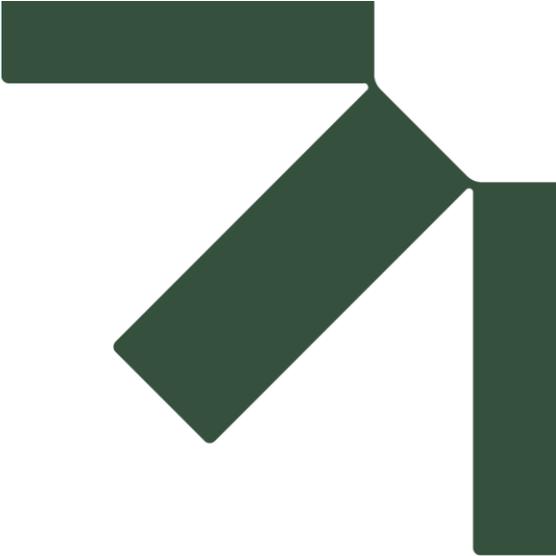
Feet

SCALE 1" = 300'

DATE 11/19/2025

141.021840.00004  
PROJ. NO.

**FIG. 3**



# **Appendix B    Bordering Vegetated Wetland Determination Forms**

## **Wetland Delineation Report**

Proposed Hingham Center for Active Living Facility

**EDM Studio, Inc**

SLR Project No.: 141.051021.00001

November 19, 2025

**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: Bare Cove Park Road City/Town: Hingham Sampling Date: 7/29/2025  
 Applicant/Owner: Town of Hingham Sampling Point or Zone: BVW-DF1  
 Investigator(s): MBR, MJO (SLR) Latitude / Longitude: 70.9105°W 42.2392°N  
 Soil Map Unit Name: Freetown Muck (52A) NWI or DEP Classification: PFO1E

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? (If yes, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If yes, explain in Remarks)

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

Wetland vegetation criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soils criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Wetlands hydrology present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:			
Soil surface shows some signs of historical disturbances (grading/terracing, piles, stone walls). Understory vegetation colonized by non-native species, dense greenbriar.			

**HYDROLOGY**

<b>Field Observations:</b>		
Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Water Table Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> Depth (inches) <u>9.00</u>
Saturation Present (including capillary fringe)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> Depth (inches) _____
<b>Wetland Hydrology Indicators</b>		
Reliable Indicators of Wetlands Hydrology <input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input checked="" type="checkbox"/> Oxidized rhizospheres/pore linings <input checked="" type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	Indicators that can be Reliable with Proper Interpretation <input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input checked="" type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input checked="" type="checkbox"/> Presence of reduced iron <input checked="" type="checkbox"/> Woody plants with adventitious roots <input checked="" type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	Indicators of the Influence of Water <input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input checked="" type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available): Densely vegetated, canopy partially closed, more open closer to perennial watercourse further east.		

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

**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u> Plot size <u>30 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Red Maple	Acer rubrum	FAC	30.0	Yes	Yes
2. Shellbark hickory	Carya laciniosa	FACW	10.0	No	Yes
3. American elm	Ulmus americana	FACW	10.0	No	Yes
4. White ash	Fraxinus americana	FACU	10.0	No	No
5.					
6.					
7.					
8.					
9.					
			<u>60.0</u>	= Total Cover	
<u>Shrub/Sapling Stratum</u> Plot size <u>15</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Northern Spicebush	Lindera benzoin	FACW	40.0	Yes	Yes
2. Coastal sweet pepperbush	Clethra alnifolia	FACW	30.0	Yes	Yes
3. Common winterberry	Ilex verticillata	FACW	10.0	No	Yes
4. Glossy flase buckthorn	Frangula alnus	FAC	20.0	Yes	No
5.					
6.					
7.					
8.					
9.					
			<u>100.0</u>	= Total Cover	
<u>Herb Stratum</u> Plot size <u>5</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Roundleaf greenbriar	Smilax rotundifolia	FAC	60.0	Yes	Yes
2. Rambler rose	Rosa multiflora	FACU	20.0	Yes	No
3. Cinnamon fern	Osmundastrum cinnamomeum	FACW	10.0	No	Yes
4. Skunk-cabbage	Symplocarpus foetidues	OBL	10.0	No	Yes
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			<u>100.0</u>	= Total Cover	

**VEGETATION – continued.**

<u>Woody Vine Stratum</u>		Plot size <u>30</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Poison ivy	Toxicodendron radicans	FAC	5.0	No	Yes
2. Asiatic bittersweet	Celastrus orbiculatus	UPL	5.0	No	No
3. Fox grape	Vitis labrusca	FACU	5.0	No	No
4.					
			<u>15.0</u> = Total Cover		

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<b>Dominance Test:</b>	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species?	
	6	4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:	Result
	OBL species	1	X 1	= 1.00
	FACW species	6	X 2	= 12.00
	FAC species	4	X 3	= 12.00
	FACU species	3	X 4	= 12.00
	UPL species	1	X 5	= 5.00
	Column Totals	(A) 15		(B) 42
Prevalence Index		B/A = <b>2.80</b>		Is the Prevalence Index ≤ 3.0?
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Wetland vegetation criterion met?</b>			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Definitions of Vegetation Strata**

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

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



**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: Bare Cove Park Road City/Town: Hingham Sampling Date: 7/29/2025  
 Applicant/Owner: Town of Hingham Sampling Point or Zone: BVW-DF2  
 Investigator(s): MBR, MJO (SLR) Latitude / Longitude: 70.9108845°W 42.2392124°N  
 Soil Map Unit Name: Quonset sandy loam, 8-15% slope (262C) NWI or DEP Classification: Deciduous forest

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? (If yes, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If yes, explain in Remarks)

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

Wetland vegetation criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.: Dense greenbriar in understory.			

**HYDROLOGY**

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

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

**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u> Plot size <u>30 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Red oak	Quercus rubra	FACU	30.0	Yes	No
2. Shagbark hickory	Carya ovata	FACU	15.0	No	No
3. Cherry birch	Betula lenta	FACU	10.0	No	No
4. Red maple	Acer rubrum	FAC	30.0	Yes	Yes
5.					
6.					
7.					
8.					
9.					
			<u>85.0</u>	= Total Cover	
<u>Shrub/Sapling Stratum</u> Plot size <u>15</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Glossy flase buckthorn	Frangula alnus	FAC	5.0	No	Yes
2. American beech	Fagus grandifolia	FACU	5.0	No	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			<u>10.0</u>	= Total Cover	
<u>Herb Stratum</u> Plot size <u>5</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Roundleaf greenbriar	Smilax rotundifolia	FAC	20.0	Yes	Yes
2. Virginia creeper	Parthenocissus quinquefolia	FACU	20.0	Yes	No
3. Common blackberry	Rubus allegheniensis	FACU	20.0	Yes	No
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			<u>60.0</u>	= Total Cover	

**VEGETATION – continued.**

<u>Woody Vine Stratum</u>		Plot size <u>30</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1.					
2.					
3.					
4.					
			<u>0.0</u> = Total Cover		

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Dominance Test:</b>	Number of dominant species <u>5</u>	Number of dominant species that are wetland indicator plants <u>1</u>	Do wetland indicator plants make up ≥ 50% of dominant plant species? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:
	OBL species	0	X 1 = 0.00
	FACW species	0	X 2 = 0.00
	FAC species	3	X 3 = 9.00
	FACU species	6	X 4 = 24.00
	UPL species	0	X 5 = 0.00
	Column Totals	(A) 9	(B) 33
Prevalence Index		B/A = <b>3.67</b>	
		Is the Prevalence Index ≤ 3.0? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Wetland vegetation criterion met?</b>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

**Definitions of Vegetation Strata**

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

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



**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: Bare Cove Park Road City/Town: Hingham Sampling Date: 7/29/2025  
 Applicant/Owner: Town of Hingham Sampling Point or Zone: BVW-DF3  
 Investigator(s): MBR, MJO (SLR) Latitude / Longitude: 70.9120779°W 42.2394278°N  
 Soil Map Unit Name: Quonset sandy loam, 8-15% slope (262C) NWI or DEP Classification: PFO1E

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? (If yes, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If yes, explain in Remarks)

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

Wetland vegetation criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.: small manmade channel in northeast portion of wetland appears to terminate in upland.			

**HYDROLOGY**

<b>Field Observations:</b>		
Surface Water Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> Depth (inches) <u>10.00</u>
Water Table Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> Depth (inches) _____
<b>Wetland Hydrology Indicators</b>		
Reliable Indicators of Wetlands Hydrology <input checked="" type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input checked="" type="checkbox"/> Oxidized rhizospheres/pore linings <input checked="" type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	Indicators that can be Reliable with Proper Interpretation <input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input checked="" type="checkbox"/> Water marks <input checked="" type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input checked="" type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	Indicators of the Influence of Water <input checked="" type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input checked="" type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available): Potential vernal pool mapped (MassGIS) in IVW.		

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

**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u> Plot size <u>30 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Red maple	Acer rubrum	FAC	65.0	Yes	Yes
2. Shagbark hickory	Carya ovata	FACU	10.0	No	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			<u>75.0</u>	= Total Cover	
<u>Shrub/Sapling Stratum</u> Plot size <u>15</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Northern spicebush	Lindera benzoin	FACW	20.0	Yes	Yes
2. Coastal sweet-pepperbush	Clethra alnifolia	FAC	30.0	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			<u>50.0</u>	= Total Cover	
<u>Herb Stratum</u> Plot size <u>5</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Tussock sedge	Carex stricta	OBL	5.0	No	Yes
2. Virginia creeper	Parthenocissus quinquefolia	FACU	10.0	No	No
3. Poison ivy	Toxicodendron radicans	FAC	10.0	No	Yes
4. Roundleaf greenbriar	Smilax rotundifolia	FAC	40.0	Yes	Yes
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			<u>65.0</u>	= Total Cover	

**VEGETATION – continued.**

<u>Woody Vine Stratum</u>		Plot size <u>30</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1. Poison ivy	Toxicodendron radicans		FAC	5.0	No	Yes	
2.							
3.							
4.							
				<u>5.0</u> = Total Cover			

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<b>Dominance Test:</b>	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species?	
	4	4	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:	Result
	OBL species	1	X 1	= 1.00
	FACW species	1	X 2	= 2.00
	FAC species	4	X 3	= 12.00
	FACU species	2	X 4	= 8.00
	UPL species	0	X 5	= 0.00
	Column Totals	(A) 8		(B) 23
Prevalence Index		B/A = <b>2.88</b>		Is the Prevalence Index ≤ 3.0?
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Wetland vegetation criterion met?</b>			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Definitions of Vegetation Strata**

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

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



**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: Bare Cove Park Road City/Town: Hingham Sampling Date: 7/29/2025  
 Applicant/Owner: Town of Hingham Sampling Point or Zone: BVW-DF4  
 Investigator(s): MBR, MJO (SLR) Latitude / Longitude: 70.9121557°W 42.2393005°N  
 Soil Map Unit Name: Quonset sandy loam, 8-15% slope (262C) NWI or DEP Classification: Deciduous forest

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? (If yes, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If yes, explain in Remarks)

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

Wetland vegetation criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydic Soils criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.: Dense greenbriar in understory.			

**HYDROLOGY**

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

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

**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u> Plot size <u>30 feet</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Red oak	Quercus rubra	FACU	30.0	Yes	No
2. Shagbark hickory	Carya ovata	FACU	15.0	No	No
3. Cherry birch	Betula lenta	FACU	10.0	No	No
4. Red maple	Acer rubrum	FAC	30.0	Yes	Yes
5.					
6.					
7.					
8.					
9.					
			<u>85.0</u>	= Total Cover	
<u>Shrub/Sapling Stratum</u> Plot size <u>15</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Glossy flase buckthorn	Frangula alnus	FAC	5.0	No	Yes
2. American beech	Fagus grandifolia	FACU	5.0	No	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			<u>10.0</u>	= Total Cover	
<u>Herb Stratum</u> Plot size <u>5</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Roundleaf greenbriar	Smilax rotundifolia	FAC	60.0	Yes	Yes
2. Virginia creeper	Parthenocissus quinquefolia	FACU	20.0	Yes	No
3. Common blackberry	Rubus allegheniensis	FACU	20.0	Yes	No
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			<u>100.0</u>	= Total Cover	

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
				<u>0.0</u> = Total Cover			

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<b>Dominance Test:</b>	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?
	5	1		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:	Result
	OBL species	0	X 1	= 0.00
	FACW species	0	X 2	= 0.00
	FAC species	3	X 3	= 9.00
	FACU species	6	X 4	= 24.00
	UPL species	0	X 5	= 0.00
	Column Totals	(A) 9		(B) 33
Prevalence Index		B/A = <b>3.67</b>		Is the Prevalence Index ≤ 3.0?
				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>Wetland vegetation criterion met?</b>			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

**Definitions of Vegetation Strata**

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

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

**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Location <sup>2</sup>		
0-5	10YR 4/3	100.00					sandy loam	thin O horizon over sand
5-18	10YR 5/4	90.00					coarse	channery sand loam
18-24	2.5Y 5/4	90.00					sandy loam	loose rock/coarse sand

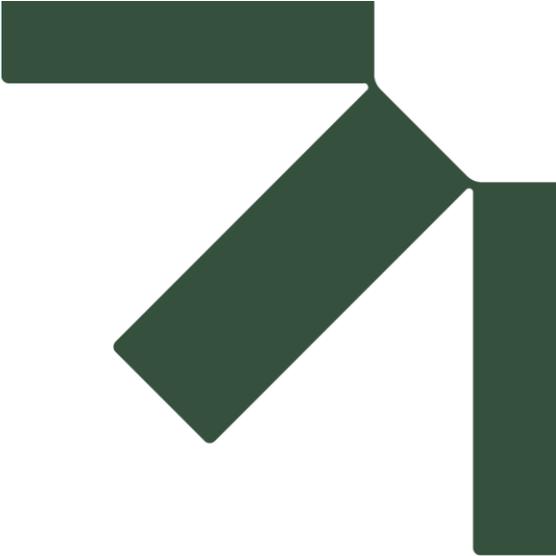
<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains    <sup>2</sup>Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		Indicators for Problematic Hydric Soils
<input type="checkbox"/> Histic Sol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Mesic Spodic (A17)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		
<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> Other (Include Explanation in Remarks)
<input type="checkbox"/> Stripped Matrix (S6)		
<input type="checkbox"/> Dark Surface (S7)		

**Restrictive Layer (if observed)**    Type: \_\_\_\_\_    Depth (inches): \_\_\_\_\_

Remarks: sandy loam is very channery past 18"

Hydric Soils criterion met?    Yes     No



# Appendix C Photographic Log

## Wetland Delineation Report

Proposed Hingham Center for Active Living Facility

EDM Studio, Inc

SLR Project No.: 141.051021.00001

November 19, 2025

Client Name: Town of Hingham

Site Location: Bare Cove Park Road, Hingham, MA

Project No.  
141.051021.00001

Photo No.  
1

Date:  
7/31/25

Direction Photo Taken:  
South

Description:  
Existing building (Bare Cove  
Fire Museum) and gravel  
roads



Photo No.  
2

Date:  
7/31/25

Direction Photo Taken:  
Northwest

Description:  
Existing, vacated  
commercial building.



Client Name: Town of Hingham	Site Location: Bare Cove Park Road, Hingham, MA	Project No. 141.051021.00001
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Photo No. 3	Date: 7/31/25
Direction Photo Taken: Northwest	



Description:  
Edge habitats between the existing built environment (left) and protected resource areas (off frame right) are colonized by non-native species, like Asiatic bittersweet (*Celastrus orbiculatus*) shown here.

Photo No. 4	Date: 7/31/25
Direction Photo Taken: Northeast	



Description:  
The buffer zone to the BVW east of the study area.

Client Name: Town of Hingham	Site Location: Bare Cove Park Road, Hingham, MA	Project No. 141.051021.00001
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Photo No. 5	Date: 7/31/25
Direction Photo Taken: Northeast	

Description:

Typical vegetation within 100' buffer zone and edge of wetlands.



Photo No. 6	Date: 7/31/25
Direction Photo Taken: East	

Description:

The canopy over the BVWs is nearly closed, however, is partially open due to the presence of standing/flowing water and scrub-shrub vegetation dominating wetter areas (i.e., closer to the stream).



Client Name: Town of Hingham	Site Location: Bare Cove Park Road, Hingham, MA	Project No. 141.051021.00001
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Photo No. 7	Date: 7/31/25
Direction Photo Taken: North	



Description:  
The wetland boundary was previously delineated, as evidenced by pre-existing flags.

Photo No. 8	Date: 7/31/25
Direction Photo Taken: Southeast	



Description:  
Typical view of understory wetland areas.

Client Name: Town of Hingham

Site Location: Bare Cove Park Road, Hingham, MA

Project No.  
141.051021.00001

Photo No.  
9

Date:  
7/31/25

Direction Photo Taken:

Northwest

Description:

An isolated depression with standing water north of the development limit boundary. A Potential Vernal Pool is mapped within this wetland area.



Photo No.  
10

Date:  
7/31/25

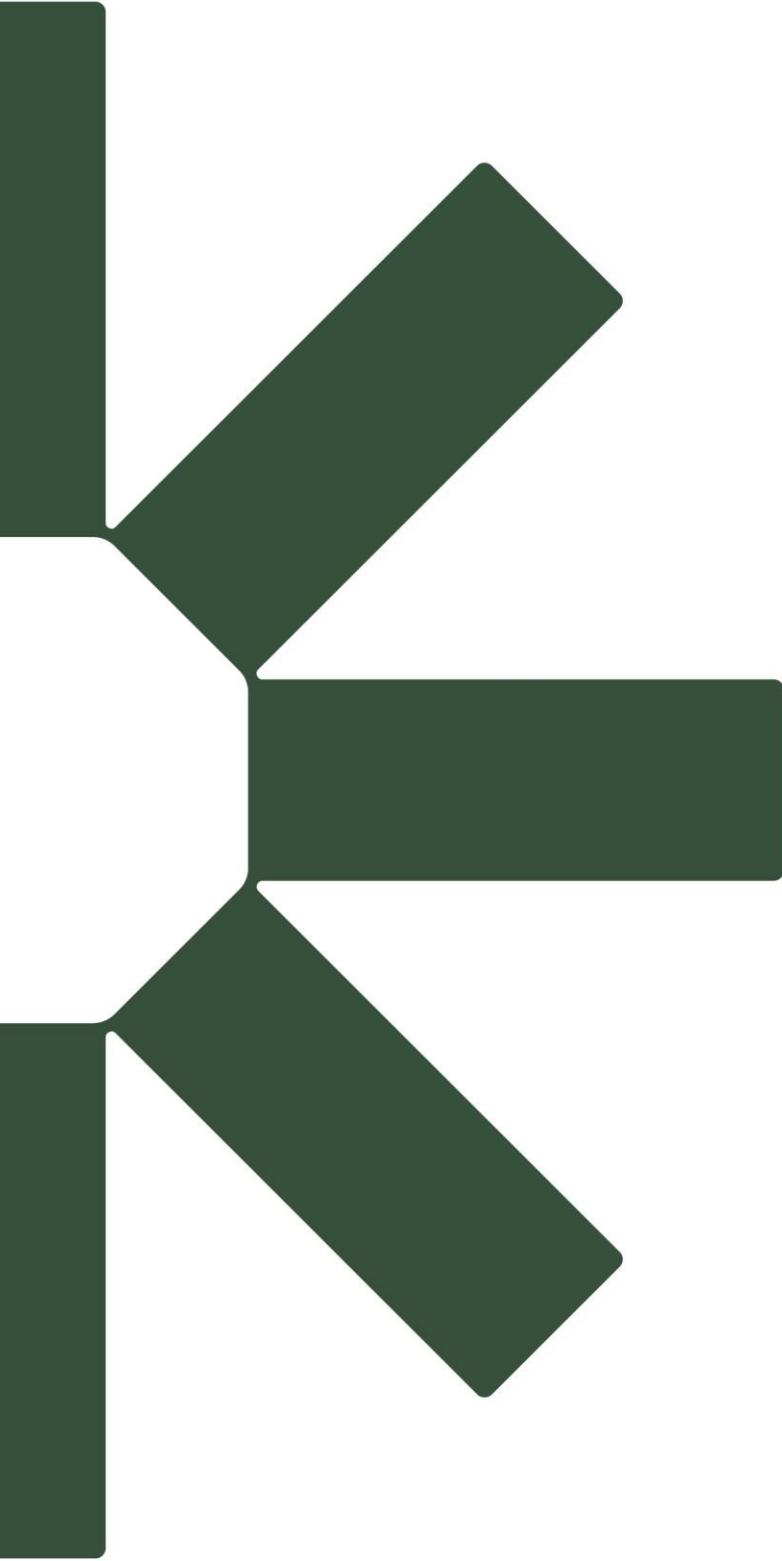
Direction Photo Taken:

West/Southwest

Description:

Stained leaves indicate fluctuating water levels within the PVP.





Making Sustainability Happen