

**Table 1: Isolated Land Subject to Flooding (ILSF) Qualification Calculations  
Montague Road Project  
Updated June 9, 2022**

Wetland ID	Wetland Area (Square Feet)	Observed Maximum Depth (Inches)	Volume Based on Maximum Depth (Acre-Feet)
W-GR-16	4,764	18	0.16
W-GR-17	12,086	12	0.28
W-MBF-15	2,023	24	0.09

**Notes:**

1. TRC observed wetlands during multiple field visits. W-MBF-15 was observed between mid-March through mid June of 2020, the period when maximum flooding is typically observed. W-GR-16 and W-GR-17 were observed in April and May 2022 during maximum seasonal flooding is typically observed.
2. Leaf staining was observed within a portion of W-GR-16, indicating that at least a portion of this wetland floods seasonally. A depth of 18 inches was conservatively assumed for this calculation in the December 2021 ANRAD filing. More recent site observations in April and May 2022 indicate that flooding is actually between 10 and 12 inches in depth. **The original, more conservative assumption has been retained.**
3. Volumes were conservatively calculated based on the maximum observed depth for each wetland rather than the average observed depth.
4. While the isolated wetlands at the site meet the minimum water depth requirement, based on the above calculations **only W-GR-17 holds a large enough volume of water to qualify as ILSF** under 310 CMR 10.57(2)(b)1: a minimum average water depth of 6 inches *and* a minimum water volume of 1/4 acre-feet. **Therefore, W-GR-16 and W-MBF-15 do not qualify as ILSF.**

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Montague City/County: Shutesbury, Franklin County Sampling Date: 2022-Mar-31  
 Applicant/Owner: W.D. Cows State: MA Sampling Point: W-MBF-10\_PFO-3  
 Investigator(s): Greg Russo, Molly Lennon Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 42.4772820902 Long: -72.4294742849 Datum: WGS84  
 Soil Map Unit Name: 75B: Pillsbury fine sandy loam, 0 to 8 percent slopes, very stony NWI classification: None  
 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? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation  Soil  or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: (Explain alternative procedures here or in a separate report)		If yes, optional Wetland Site ID: <u>W-MBF-10</u>
Covertyp is PFO. Area is wetland, all three wetland parameters are present.		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b>	<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input checked="" type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<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>6</u>
Saturation Present?                      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>4</u>
(includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: The criterion for wetland hydrology is met.	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-MBF-10\_PFO-3

	Absolute % Cover	Dominant Species?	Indicator Status																																																	
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)																																																
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**Remarks: (Include photo numbers here or on a separate sheet.)**  
 Dominance test is met as well. In MA *Tsuga canadensis* can be counted as FAC..



Hydrology Photos



Photo of Sample Plot  
North





Photo of Sample Plot  
East

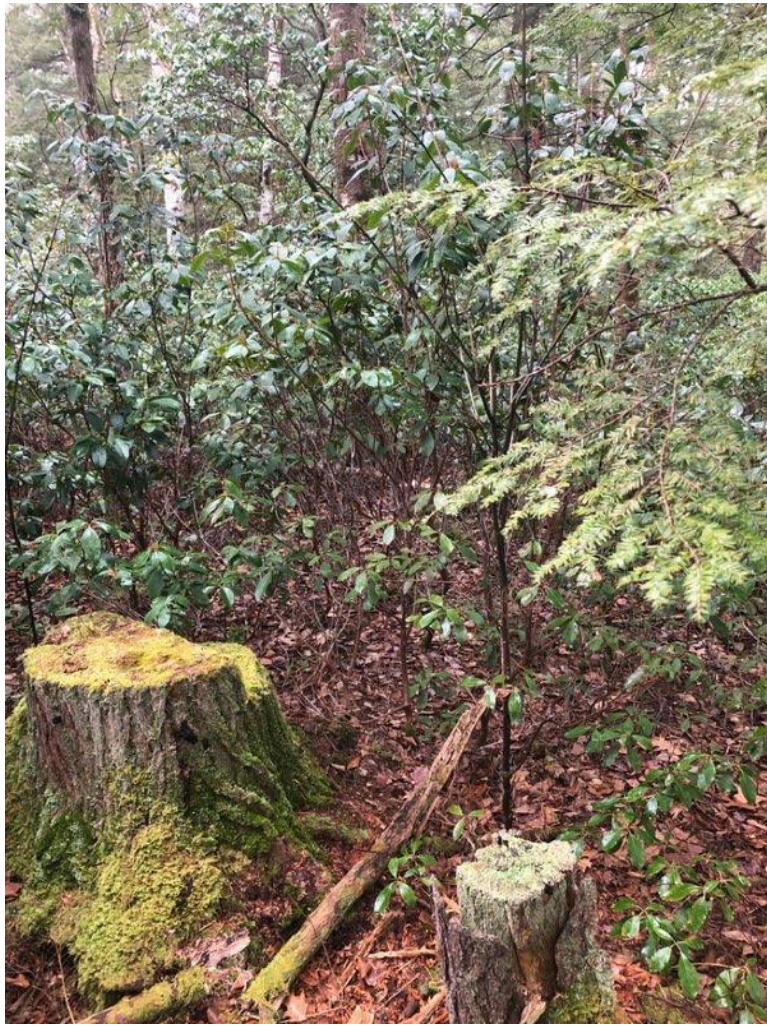


Photo of Sample Plot  
South





Photo of Sample Plot  
West



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<b>Remarks: (Explain alternative procedures here or in a separate report)</b>		
Covertypes is UPL. Area is upland, not all three wetland parameters are present.		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
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<b>Remarks:</b>	
The criterion for wetland hydrology is not met.	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-MBF-10\_UPL-3

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2. <i>Kalmia latifolia</i>	15	Yes	FACU																									
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<b>Remarks: (Include photo numbers here or on a separate sheet.)</b> No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC- or drier).																												

SOIL

Sampling Point: W-MBF-10\_UPL-3

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>	Loc <sup>2</sup>		
0 - 2	10YR 2/2	100					Org matter Loam	
2 - 4	10YR 4/1	100					Sandy Clay Loam	
4 - 6	2.5YR 3/4	100					Silty Clay Loam	
6 - 16	2.5Y 6/4	100					Silty Clay Loam	

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

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)		<input type="checkbox"/> Other (Explain in Remarks)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	Yes ___ No <input checked="" type="checkbox"/>
Type:	Rock		
Depth (inches):	16		

**Remarks:**  
 No positive indication of hydric soils was observed.



Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West

