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AOA

Environmental
Planning &
Landscape
Architecture



February 6, 2025

AOA-7686

David Knight
DavidRKnight@landmaninc.com

**SUBJECT: Wetland and Stream Reconnaissance for 6423 E Mercer Way
Parcels 302405-9001, -9043, -9151 Mercer Island, WA**

Dear David,

On January 24, 2025, AOA conducted a wetland and stream reconnaissance on the subject property utilizing the methodology outlined in the May 2010 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)*. No wetlands were identified on or adjacent to the property during the field investigation.

Stream 1

One stream (Stream 1) was observed off-site to the south during the review. This stream is accurately mapped on the City of Mercer Island GIS. Another stream is mapped northeast of the site on the City GIS and this stream was deemed nonexistent during our review and the mapping is inaccurate. This no stream determination is corroborated by a recent Decision (File No. 20-002) made for an adjacent parcel (302405-9120) on November 9, 2020.

Stream 1 flows from northwest to southeast off-site to the south of the site through a large ravine. Vegetation along the stream corridor was forested and consisted of western red cedar (*Thuja plicata*), western hemlock (*Tsuga heterophylla*), big leaf maple (*Acer macrophyllum*), and western sword fern (*Polystichum munitum*). Stream 1 is considered a Type Np stream by the City of Mercer Island and requires a 60-foot buffer per MIMC 19.07.180.C.1. An additional 10-foot structure setback from the buffer is required per MIMC 19.07.180.C.7. This buffer does not cross East Mercer Way into the proposed area of development on the site.

On-site Conditions

The site is currently developed with a dilapidated single-family residence and yard but is primarily forested with vegetation dominated by Douglas fir (*Pseudotsuga menziesii*), big leaf maple (*Acer macrophyllum*), black cottonwood (*Populus balsamifera*), western red cedar (*Thuja plicata*), beaked hazelnut (*Corylus cornuta*), red huckleberry (*Vaccinium parvifolium*), salal (*Gaultheria shallon*), western sword fern (*Polystichum munitum*), and English ivy (*Hedera helix*). No hydrophytic plant

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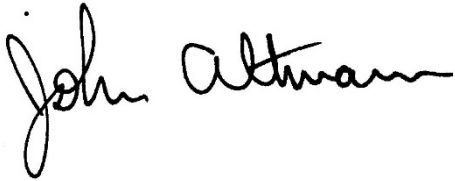
communities were observed on or directly adjacent to the property. The site is heavily sloped in most areas.

Borings taken throughout and adjacent the site revealed high chroma non-hydric soils and there was no evidence of ponding or prolonged soil saturation anywhere on or directly adjacent to the property. **Attachment A** contains data sheets prepared for representative locations in the uplands on the site. These data sheets document the vegetation, soil, and hydrology information that aided in the no wetland determination for the property.

If you have any questions regarding the reconnaissance, please give me a call.

Sincerely,

ALTMANN OLIVER ASSOCIATES, LLC

A handwritten signature in black ink that reads "John Altmann". The signature is written in a cursive, flowing style.

John Altmann
Ecologist

Attachments

City of Mercer Island
3024059001, -9043, and -9151

AOA-7686

Critical Areas Map



- Subject Properties
- King_County_Parcel
- Approximate Data Plot Locations
- Approximate Stream 1 Type Np
- Approximate 60' Stream Buffer
- Approximate 10' Structure Setback

0 37.5 75 150 225 300
US Feet



ATTACHMENT A

DATA SHEETS

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Parcels: 3024059001, -9043, and -9151 City/County: Mercer Island/ Sampling Date: 1-24-25
 Applicant/Owner: Gill State: WA Sampling Point: DP#1
 Investigator(s): Dain Altmann, Jason Panzera Section, Township, Range: S30, T24N, R5E
 Landform (hillslope, terrace, etc.): ravine Local relief (concave, convex, none): concave Slope (%):
 Subregion (LRR): A Lat: 47.545147 Long: -122.21294 Datum: NAD83
 Soil Map Unit Name: KpD NWI classification: N/A
 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 ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: Upland plot, see map. Drier than normal.			

VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: 10')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	
1. <u>Pseudotsuga menziesii</u>	<u>75</u>	<u>yes</u>	<u>FACU</u>	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. <u>Acer macrophyllum</u>	<u>25</u>	<u>yes</u>	<u>FACU</u>	Total Number of Dominant Species Across All Strata:	<u>4</u> (B)
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A/B)
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
50% = <u>50</u> , 20% = <u>20</u>	<u>100</u>	= Total Cover			
Sapling/Shrub Stratum (Plot size: 10')				Prevalence Index worksheet:	
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Total % Cover of: Multiply by:	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	OBL species	<u> </u> x1 = <u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FACW species	<u> </u> x2 = <u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FAC species	<u> </u> x3 = <u> </u>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FACU species	<u> </u> x4 = <u> </u>
50% = <u> </u> , 20% = <u> </u>	<u> </u>	= Total Cover		UPL species	<u> </u> x5 = <u> </u>
Herb Stratum (Plot size: 10')				Column Totals:	<u> </u> (A) <u> </u> (B)
1. <u>Polystichum munitum</u>	<u>40</u>	<u>yes</u>	<u>FACU</u>	Prevalence Index = B/A = <u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Indicators:	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 1 – Rapid Test for Hydrophytic Vegetation	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 2 - Dominance Test is >50%	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 3 - Prevalence Index is ≤3.0 ¹	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 5 - Wetland Non-Vascular Plants ¹	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ Problematic Hydrophytic Vegetation ¹ (Explain)	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes ☐ No ☒	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
50% = <u>20</u> , 20% = <u>8</u>	<u>40</u>	= Total Cover			
Woody Vine Stratum (Plot size: 10')					
1. <u>Hedera helix</u>	<u>100</u>	<u>yes</u>	<u>FACU</u>		
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
50% = <u>50</u> , 20% = <u>20</u>	<u>100</u>	= Total Cover			
% Bare Ground in Herb Stratum <u> </u>					

Remarks:

SOILSampling Point: DP#1**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 ¹	Loc ²		
<u>0-16</u>	<u>10 YR 4/2</u>	<u>100</u>	_____	_____	_____	_____	<u>GCL</u>	<u>gravel clay loam</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1) **(except MLRA 1)**
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if present):**

Type: _____

Depth (inches): _____

Hydric Soils Present?Yes ☐ No ☒

Remarks: No redoximorphic features

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
(except MLRA 1, 2, 4A, and 4B)
☐ Salt Crust (B11)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Stunted or Stresses Plants (D1) **(LRR A)**
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water-Stained Leaves (B9)
(MLRA 1, 2, 4A, and 4B)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)
☐ Raised Ant Mounds (D6) **(LRR A)**
☐ Frost-Heave Hummocks (D7)

Field Observations:Surface Water Present? Yes ☐ No ☒ Depth (inches): _____Water Table Present? Yes ☐ No ☒ Depth (inches): _____Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Dry

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Parcels: 3024059001, -9043, and -9151 City/County: Mercer Island/ Sampling Date: 1-24-25
 Applicant/Owner: Gill State: WA Sampling Point: DP#2
 Investigator(s): Dain Altmann, Jason Panzera Section, Township, Range: S30, T24N, R5E
 Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): concave Slope (%):
 Subregion (LRR): A Lat: 47.545147 Long: -122.21294 Datum: NAD83
 Soil Map Unit Name: KpD NWI classification: N/A
 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 ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: Upland plot, see map. Drier than normal.			

VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: 10')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	
1. <u>Thuja plicata</u>	<u>20</u>	<u>yes</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2. <u>Pseudotsuga menziesii</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>	Total Number of Dominant Species Across All Strata:	<u>4</u> (B)
3. <u>Arbutus menziesii</u>	<u>5</u>	<u>no</u>	<u>NL (UPL)</u>	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>25</u> (A/B)
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
50% = <u>17.5</u> , 20% = <u>2</u>	<u>35</u>	= Total Cover			
Sapling/Shrub Stratum (Plot size: 10')				Prevalence Index worksheet:	
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Total % Cover of:	Multiply by:
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	OBL species <u> </u>	x1 = <u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FACW species <u> </u>	x2 = <u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FAC species <u> </u>	x3 = <u> </u>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FACU species <u> </u>	x4 = <u> </u>
50% = <u> </u> , 20% = <u> </u>	<u> </u>	= Total Cover		UPL species <u> </u>	x5 = <u> </u>
Herb Stratum (Plot size: 10')				Column Totals: <u> </u> (A)	<u> </u> (B)
1. <u>Polystichum munitum</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>	Prevalence Index = B/A = <u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
50% = <u>5</u> , 20% = <u>2</u>	<u>10</u>	= Total Cover			
Woody Vine Stratum (Plot size: 10')				Hydrophytic Vegetation Indicators:	
1. <u>Hedera helix</u>	<u>100</u>	<u>yes</u>	<u>FACU</u>	☐ 1 – Rapid Test for Hydrophytic Vegetation	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 2 - Dominance Test is >50%	
50% = <u>50</u> , 20% = <u>20</u>	<u>100</u>	= Total Cover		☐ 3 - Prevalence Index is ≤3.0 ¹	
% Bare Ground in Herb Stratum <u> </u>				☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
				☐ 5 - Wetland Non-Vascular Plants ¹	
				☐ Problematic Hydrophytic Vegetation ¹ (Explain)	
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
				Hydrophytic Vegetation Present? Yes ☐ No ☒	

Remarks:

SOILSampling Point: DP#2**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 ¹	Loc ²		
0-16	10 YR 3/2	100	_____	_____	_____	_____	gravel loam	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1) **(except MLRA 1)**
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if present):**

Type: _____

Depth (inches): _____

Hydric Soils Present?Yes ☐ No ☒

Remarks: No redoximorphic features

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
(except MLRA 1, 2, 4A, and 4B)
☐ Salt Crust (B11)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Stunted or Stresses Plants (D1) **(LRR A)**
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water-Stained Leaves (B9)
(MLRA 1, 2, 4A, and 4B)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)
☐ Raised Ant Mounds (D6) **(LRR A)**
☐ Frost-Heave Hummocks (D7)

Field Observations:Surface Water Present? Yes ☐ No ☒ Depth (inches): _____Water Table Present? Yes ☐ No ☒ Depth (inches): _____Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Dry

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Parcels: 3024059001, -9043, and -9151 City/County: Mercer Island/ Sampling Date: 1-24-25
 Applicant/Owner: Gill State: WA Sampling Point: DP#3
 Investigator(s): Dain Altmann, Jason Panzera Section, Township, Range: S30, T24N, R5E
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): concave Slope (%):
 Subregion (LRR): A Lat: 47.545147 Long: -122.21294 Datum: NAD83
 Soil Map Unit Name: KpD NWI classification: N/A
 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 ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: Upland plot, see map. Drier than normal.			

VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: 10')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	
1. <u>Pseudotsuga menziesii</u>	<u>50</u>	<u>yes</u>	<u>FACU</u>	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A/B)
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
50% = <u>25</u> , 20% = <u>10</u>	<u>50</u>	= Total Cover			
Sapling/Shrub Stratum (Plot size: 10')				Prevalence Index worksheet:	
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Total % Cover of:	Multiply by:
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	OBL species <u> </u>	x1 = <u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FACW species <u> </u>	x2 = <u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FAC species <u> </u>	x3 = <u> </u>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	FACU species <u> </u>	x4 = <u> </u>
50% = <u> </u> , 20% = <u> </u>	<u> </u>	= Total Cover		UPL species <u> </u>	x5 = <u> </u>
Herb Stratum (Plot size: 10')				Column Totals: <u> </u> (A)	<u> </u> (B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index = B/A = <u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Indicators:	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 1 – Rapid Test for Hydrophytic Vegetation	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 2 - Dominance Test is >50%	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 3 - Prevalence Index is ≤3.0 ¹	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ 5 - Wetland Non-Vascular Plants ¹	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	☐ Problematic Hydrophytic Vegetation ¹ (Explain)	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes ☐ No ☒	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>		
50% = <u> </u> , 20% = <u> </u>	<u> </u>	= Total Cover			
Woody Vine Stratum (Plot size: 10')					
1. <u>Vinca minor</u>	<u>30</u>	<u>yes</u>	<u>NL (UPL)</u>		
2. <u>Hedera helix</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>		
50% = <u>20</u> , 20% = <u>8</u>	<u>40</u>	= Total Cover			
% Bare Ground in Herb Stratum <u> </u>					
Remarks: Moss covered, not bare ground					

SOILSampling Point: DP#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 ¹	Loc ²		
0-3	10 YR 2/1	100	_____	_____	_____	_____	loam	_____
4-18	10 YR 3/3	100	_____	_____	_____	_____	sand	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) **(except MLRA 1)**
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if present):**

Type: _____

Depth (inches): _____

Hydric Soils Present?Yes ☐ No ☒

Remarks: No redoximorphic features

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stresses Plants (D1) **(LRR A)**
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water-Stained Leaves (B9) **(MLRA 1, 2, 4A, and 4B)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)
- ☐ Raised Ant Mounds (D6) **(LRR A)**
- ☐ Frost-Heave Hummocks (D7)

Field Observations:Surface Water Present? Yes ☐ No ☒ Depth (inches): _____Water Table Present? Yes ☐ No ☒ Depth (inches): _____Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Dry