

TALASAEA

CONSULTANTS, INC.

Natural Resources Consulting | Environmental Planning & Design

4 February 2022

TAL-1941

Mr. Kalis Sathappan
Goddard Schools
4420-220 Street SE
Bothell, WA 98012
Via Email: S_Kaliappan@hotmail.com

REFERENCE: Property located at Highway 99 and 188th Street SW in Lynnwood, Washington
SUBJECT: Critical Areas – Existing Conditions Letter Report

Dear Mr. Sathappan,

Per your request, Talasaea Consultants has completed an evaluation of the subject property located at Highway 99 and 188th Street Southwest in Lynnwood, Washington (Snohomish County tax parcel 27041600300100, **Photo 1**). No adjacent properties were accessed without owner permission; thus, our assessment of adjacent properties is based on visual observation and knowledge of work previously completed by Talasaea Consultants. The Site, and 300 feet surrounding the Site, are referred to jointly as the “study area”.



Photo 1: Snohomish County SCOPI Screen Capture of Property.

Resource & Environmental Planning

15020 Bear Creek Road Northeast • Woodinville, Washington 98077 • Bus: (425) 861-7550 • Fax: (425) 861-7549

Methodology. Wetland determinations were made using the routine approach described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region* (U.S. Army Corps of Engineers 2010). Plant species were identified according to the taxonomy of Hitchcock and Cronquist (Hitchcock, *et al.* 2018). Taxonomic names were updated, and plant wetland status was assigned according to *North American Digital Flora: National Wetland Plant List, Version 2.4.0* (Lichvar, *et al.* 2012). Wetland classes were evaluated with the U.S. Fish and Wildlife Service's system of wetland classification (Cowardin, *et al.* 1979). Vegetation was considered hydrophytic if greater than 50% of the dominant plant species had a wetland indicator status of facultative or wetter (*i.e.*, facultative, facultative wetland, or obligate wetland). Soils on the Site were considered hydric if one or more of the hydric soil indicators listed in the Corps' Regional Supplement were present. Indicators include presence of organic soils, reduced, depleted, or gleyed soils, or redoximorphic features in association with reduced soils.

Background information from the following sources was reviewed prior to field investigations:

- US Fish and Wildlife Service (USFWS) Wetlands Online Mapper (National Wetlands Inventory, NWI) (www.wetlandsfws.er.usgs.gov/wtlnds/launch.html);
- Natural Resources Conservation Service (NRCS), Web Soil Survey (www.websoilsurvey.nrcs.usda.gov/app);
- Snohomish County Critical Areas Database (Snohomish County PDS, 2022);
- City of Lynnwood GIS Layers (Connect Lynnwood, 2022);
- Washington Department of Fish and Wildlife (WDFW) Priority Habitats and Species (PHS) Database on the Web (wdfw.wa.gov/mapping/phs);
- Washington Department of Natural Resources (DNR) Natural Heritage GIS database, 2022;
- Fish usage data from SalmonScape (<http://apps.wdfw.wa.gov/salmonscape/map.html>), StreamNet (<http://www.streamnet.org/data/interactive-maps-and-gis-data/>) and the Northwest Indian Fisheries Commission (<https://geo.nwifc.org/swifd/>);
- Orthophotography from Earth Explorer (2022), and Google Earth (2022); and

Field Investigations and Critical Areas. Site visits were conducted on 1 and 2 February 2022. We identified an area in the southeast corner of the parcel that could potentially support wetland conditions, as well as a surface stormwater drainage along the southeastern property boundary (**Figure 1**).

Stormwater Drainage. The surface stormwater drainage flows along the Site's southeastern boundary before entering a stormwater culvert under 55th Avenue West (Object ID 339637 on City of Lynnwood's Storm Culverts GIS layer) and entering Scriber Creek. We believe this ditch was created during construction of the single family homes to the south. Per Lynnwood Municipal Code (LMC) 17.10.030, streams are not to include irrigation ditches, canals, storm or surface water runoff devices or other entirely artificial watercourses unless they are used by salmonids or used to convey streams naturally occurring prior to development in such watercourses. At the time of our site reconnaissance and following a month of above average precipitation patterns, the outfall of the stormwater ditch to Scriber Creek was substantially higher in elevation and without flow sufficient to allow access to the ditch for salmonids or other fish species. We conclude that the feature does not meet the definition of a stream.

Potential Wetland Area. Site visits were conducted on 1 and 2 February 2022. During our initial Site reconnaissance on 1 February 2022, we identified a potential wetland area in the southeast corner of the property. The potential wetland area was devoid of a sapling/shrub stratum, with herbaceous vegetation

dominated almost entirely by Japanese knotweed (*Polygonum cuspidatum*). The tree stratum south of the wetland area is predominantly Douglas fir (*Pseudotsuga menziesii*) and one (1) bitter cherry (*Prunus emarginata*). Red alder (*Alnus rubra*) characterized the remaining tree layer to the north/northeast of the area.

During our 1 February 2022 Site visit we established two wetland determination test plots (TP-A1 and A2, see **Figure 1** & **Attachment 1**). Following the desk-top analysis of those test plot data, we concluded that the test plot performed within the wetland *did not* satisfy the criteria for a hydric soil or hydrophytic vegetation indicator. The test plot *did* meet both the high water table and saturation indicators for hydrology. The upland plot satisfied no indicator for hydrology, hydrophytic vegetation, or hydric soils.

However, to be entirely confident in those data collected, we revisited the Site again on 2 February 2022 to perform an additional three (3) test plots, two (2) of which were located within the potential wetland area (**Figure 1**). These test plots confirmed our initial conclusions as neither of the test plots within the potential wetland area satisfied any indicator of hydrophytic vegetation, nor hydric soils. Based on those data collected using the routine approach described in the Army Corps of Engineers *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valley's, and Coast Regions* (U.S. Army Corps of Engineers 2010), we conclude that no wetlands are located on the subject property.

It is our general conclusion that the Site was disturbed at one point in time. Disturbance may have been associated with the construction of the homes to the south or of 55th Avenue West. This premise is supported by the substantial amount of trash and/or debris that was found within *every* test plot area. At times, trash and debris were found at depths exceeding 15 inches below the soil surface. We further conclude that past disturbance created soil conditions that reflect a mixture of both native and fill material. Although redoximorphic features were found in numerous test plots, they were generally found at depths and thicknesses that did not align with any hydric soil indicator, further supporting our general disturbance hypothesis.

Should you have any questions or require additional information at this time, please feel free to contact Jacob Prater or me at (425) 861-7550.

Thank you.

Sincerely,

TALASAEA CONSULTANTS, INC.



William E. Shiels
Principal

Attachment: **Figure 1** - Existing Conditions, Talasaea Consultants Inc, 2022

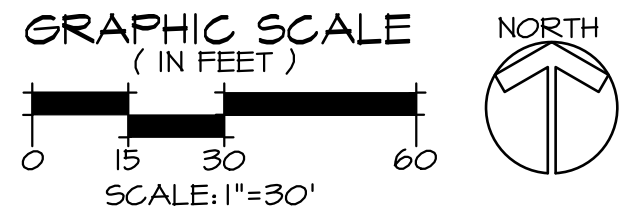
Attachment 1 – Wetland Data Forms, Talasaea Consultants Inc, 2022




EXISTING CONDITIONS

PLAN LEGEND

- — — — — PROPERTY LINE
- AREA ASSESSED FOR WETLAND CONDITIONS
- TP-# TEST PLOT LOCATION
- - - - - APPROXIMATE STORMWATER DRAINAGE



 <p>TALASAEA CONSULTANTS, INC. Resource & Environmental Planning 15020 Bear Creek Road Northeast Woodinville, Washington 98077 Bus (425)861-7550 - Fax (425)861-7549</p>	FIGURE #1	DESIGN FH	PROJECT 1941
	EXISTING CONDITIONS GODDARD SCHOOLS LYNNWOOD, WASHINGTON	SCALE AS SHOWN	
		DATE 2-3-2022	
		REVISED	

Z:\DRAWING\1900-1999\TAL1941\Plans\TAL-1941 WP 2022-02.dwg

Attachment 1
Wetland Data Forms, Talasaea Consultants Inc, 2022

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, & Coast

Project/Site: TAL-1941 Goddard Schools City/County: Lynnwood, Snohomish County Sampling Date: 02/01/2022
 Applicant/Owner: Kalis Sathappan State: WA Sampling Point: TP-A1
 Investigator(s): Jacob A. Prater, Talasaea Consultants Section, Township, Range: SW 1/4 SEC16 T27N R04E
 Landform (hillslope, terrace, etc): Depression Local relief (concave, convex, none): concave Slope (%): 1
 Subregion (LRR): A Lat: 47.82801046 Long: -122.30759659 Datum: NAD83
 Soil Map Unit Name: McKenna gravelly silt loam, 0 to 8 percent slopes 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 type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks: Hydrologic conditions are potentially wetter than normal.					

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
Tree Stratum (Plot size: <u>30</u>)																		
1. <u><i>Alnus rubra</i> / Red alder</u>	40	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0</u> (A/B)														
2. <u><i>Prunus emarginata</i> / Bitter cherry</u>	5	No	FACU															
3. <u><i>Pseudotsuga menziesii</i> / Douglas fir</u>	5	No	FACU															
4. _____																		
	50	= Total Cover																
Sapling/Shrub Stratum (Plot size: <u>15</u>)																		
1. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species <u>95</u></td> <td>x 4 = <u>380</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>135</u> (A)</td> <td><u>500</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.7</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>40</u>	x 3 = <u>120</u>	FACU species <u>95</u>	x 4 = <u>380</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>135</u> (A)	<u>500</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>40</u>	x 3 = <u>120</u>																	
FACU species <u>95</u>	x 4 = <u>380</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>135</u> (A)	<u>500</u> (B)																	
2. _____																		
3. _____																		
4. _____																		
5. _____																		
	0	= Total Cover																
Herb Stratum (Plot size: <u>5</u>)																		
1. <u><i>Polygonum cuspidatum</i> / Japanese knotweed</u>	85	Yes	FACU															
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
	85	= Total Cover																
Woody Vine Stratum (Plot size: _____)																		
1. _____																		
2. _____																		
	0	= Total Cover																
% Bare Ground in Herb Stratum _____																		

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, & Coast

Project/Site: TAL-1941 Goddard Schools City/County: Lynnwood, Snohomish County Sampling Date: 02/01/2022
 Applicant/Owner: Kalis Sathappan State: WA Sampling Point: TP-A2
 Investigator(s): Jacob A. Prater, Talasaea Consultants Section, Township, Range: SW 1/4 SEC16 T27N R04E
 Landform (hillslope, terrace, etc): Terrace Local relief (concave, convex, none): convex Slope (%): 2
 Subregion (LRR): A Lat: 47.82798255 Long: -122.30747128 Datum: NAD83
 Soil Map Unit Name: McKenna gravelly silt loam, 0 to 8 percent slopes 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 type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Hydrologic conditions are potentially wetter than normal.					

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																																				
Tree Stratum (Plot size: <u>30</u>)																																							
1. <u><i>Alnus rubra</i> / Red alder</u>	50	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0</u> (A/B)																																			
2. _____																																							
3. _____																																							
4. _____																																							
	50	= Total Cover																																					
Sapling/Shrub Stratum (Plot size: <u>15</u>)																																							
1. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">60</td> <td>x 3 =</td> <td style="text-align: center;">180</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">45</td> <td>x 4 =</td> <td style="text-align: center;">180</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">105</td> <td></td> <td style="text-align: center;">360</td> <td style="text-align: center;">(B)</td> </tr> </tbody> </table> Prevalence Index = B/A = <u>3.43</u>	Total % Cover of:		Multiply by:			OBL species	0	x 1 =	0		FACW species	0	x 2 =	0		FAC species	60	x 3 =	180		FACU species	45	x 4 =	180		UPL species	0	x 5 =	0		Column Totals:	105		360	(B)
Total % Cover of:		Multiply by:																																					
OBL species	0	x 1 =	0																																				
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2. _____																																							
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	0	= Total Cover																																					
Herb Stratum (Plot size: <u>5</u>)																																							
1. <u><i>Polygonum cuspidatum</i> / Japanese knotweed</u>	45	Yes	FACU	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																			
2. <u><i>Rubus armeniacus</i> / Himalayan blackberry</u>	10	No	FAC																																				
3. _____																																							
4. _____																																							
5. _____																																							
6. _____																																							
7. _____																																							
8. _____																																							
9. _____																																							
10. _____																																							
11. _____																																							
	55	= Total Cover																																					
Woody Vine Stratum (Plot size: _____)																																							
1. _____																																							
2. _____																																							
	0	= Total Cover																																					
% Bare Ground in Herb Stratum _____																																							

Remarks:

SOIL

Sampling Point: TP-A2

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		
0-6	2.5Y 3/2						Fine Sndy Lm	
6-18	2.5Y 3/2						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.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
--	---

Remarks: Heavy root presence from near-by Red Alder.

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along 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"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input type="checkbox"/> FAC-Neutral Test (D5)
	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
	<input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:	Wetland Hydrology Present? Yes _____ No <u>X</u>
Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____	
Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____	
Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	

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

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, & Coast

Project/Site: TAL-1941 Goddard School City/County: Lynnwood, Snohomish County Sampling Date: 02/02/2022
 Applicant/Owner: Kalis Sathappan State: WA Sampling Point: TP-A3
 Investigator(s): Jacob A. Prater, Talasaea Consultants Section, Township, Range: SW 1/4 SEC16 T27N R04E
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 Soil Map Unit Name: McKenna gravelly silt loam, 0 to 8 percent slopes NWI classification: None
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 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 type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks: Hydrologic conditions potentially wetter than normal.					

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
Tree Stratum (Plot size: <u>30</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.0</u> (A/B)														
1. <i>Pseudotsuga menziesii</i> / Douglas fir	30	Yes	FACU															
2. <i>Prunus emarginata</i> / Bitter cherry	10	Yes	FACU															
3. <i>Alnus rubra</i> / Red alder	10	Yes	FAC															
4. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Total % Cover of:</td> <td style="width: 50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>125</u></td> <td>x 4 = <u>500</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>135</u> (A)</td> <td><u>530</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.93</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>125</u>	x 4 = <u>500</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>135</u> (A)	<u>530</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>10</u>	x 3 = <u>30</u>																	
FACU species <u>125</u>	x 4 = <u>500</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>135</u> (A)	<u>530</u> (B)																	
Sapling/Shrub Stratum (Plot size: <u>15</u>)																		
1. _____																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
	<u>0</u>	= Total Cover																
Herb Stratum (Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
1. <i>Polygonum cuspidatum</i> / Japanese knotweed	85	Yes	FACU															
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
	<u>85</u>	= Total Cover																
Woody Vine Stratum (Plot size: _____)																		
1. _____																		
2. _____																		
	<u>0</u>	= Total Cover																
% Bare Ground in Herb Stratum _____																		

Remarks:

SOIL

Sampling Point: TP-A3

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		
0-12	2.5Y 3/2	100					Fine Sndy Lm	
12-18	2.5Y 3/3	99	7.5YR 3/4	1	C	M	Crse Sndy Lm	

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.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
--	---

Remarks: Redoximorphic features are very faint, and may even be less than 1%. Plastic bags / hard plastic pieces found 12-15 inches below soil surface.

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Field Observations:	Wetland Hydrology Present? Yes <u>X</u> No _____
Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____	
Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u>	
Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>5</u>	
(includes capillary fringe)	

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

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, & Coast

Project/Site: TAL-1941 Goddard Schools City/County: Lynnwood, Snohomish County Sampling Date: 02/02/2022
 Applicant/Owner: Kalis Sathappan State: WA Sampling Point: TP-A4
 Investigator(s): Jacob A. Prater, Talasaea Consultants Section, Township, Range: SW 1/4 SEC16 T27N R04E
 Landform (hillslope, terrace, etc): Hillslope Local relief (concave, convex, none): convex Slope (%): 2-5
 Subregion (LRR): A Lat: 47.82804948 Long: -122.30762492 Datum: NAD83
 Soil Map Unit Name: McKenna gravelly silt loam, 0 to 8 percent slopes 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 type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Hydrologic conditions potentially wetter than normal.					

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
Tree Stratum (Plot size: <u>30</u>)																		
1. <i>Pseudotsuga menziesii</i> / Douglas fir	15	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0</u> (A/B)														
2. <i>Prunus emarginata</i> / Bitter cherry	4	No	FACU															
3. <i>Alnus rubra</i> / Red alder	4	No	FAC															
4. _____																		
	23	= Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>6</u></td> <td>x 3 = <u>18</u></td> </tr> <tr> <td>FACU species <u>104</u></td> <td>x 4 = <u>416</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>434</u> (B)</td> </tr> </tbody> </table> Prevalence Index = B/A = <u>3.95</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>6</u>	x 3 = <u>18</u>	FACU species <u>104</u>	x 4 = <u>416</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>110</u> (A)	<u>434</u> (B)
Total % Cover of:	Multiply by:																	
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Sapling/Shrub Stratum (Plot size: <u>15</u>)																		
1. _____																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
	0	= Total Cover																
Herb Stratum (Plot size: <u>5</u>)																		
1. <i>Polygonum cuspidatum</i> / Japanese knotweed	85	Yes	FACU															
2. <i>Rubus armeniacus</i> / Himalayan blackberry	2	No	FAC															
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
	87	= Total Cover																
Woody Vine Stratum (Plot size: _____)																		
1. _____																		
2. _____																		
	0	= Total Cover																
% Bare Ground in Herb Stratum _____																		

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, & Coast

Project/Site: TAL-1941 Goddard Schools City/County: Lynnwood, Snohomish County Sampling Date: 02/02/2022
 Applicant/Owner: Kalis Sathappan State: WA Sampling Point: TP-A5
 Investigator(s): Jacob A. Prater, Talasaea Consultants Section, Township, Range: SW 1/4 SEC16 T27N R04E
 Landform (hillslope, terrace, etc): Hillslope Local relief (concave, convex, none): convex Slope (%): 2
 Subregion (LRR): A Lat: 47.82795175 Long: -122.30747673 Datum: NAD83
 Soil Map Unit Name: McKenna gravelly silt loam, 0 to 8 percent slopes 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 type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Remarks: Hydrologic conditions potentially wetter than normal. TP-A5 performed almost directly adjacent to property surface drainage.			

VEGETATION - Use scientific names of plants.

<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Absolute % Cover</th> <th style="width: 10%;">Dominant Species?</th> <th style="width: 10%;">Indicator Status</th> </tr> </thead> <tbody> <tr> <td>Tree Stratum (Plot size: <u>30</u>)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1. <u><i>Prunus emarginata</i> / Bitter cherry</u></td> <td style="text-align: center;">55</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">FACU</td> </tr> <tr> <td>2. <u><i>Alnus rubra</i> / Red alder</u></td> <td style="text-align: center;">30</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">FAC</td> </tr> <tr> <td>3. <u><i>Pseudotsuga menziesii</i> / Douglas fir</u></td> <td style="text-align: center;">30</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">FACU</td> </tr> <tr> <td>4. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">115</td> <td colspan="2" style="text-align: center;">= Total Cover</td> </tr> <tr> <td>Sapling/Shrub Stratum (Plot size: <u>15</u>)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">0</td> <td colspan="2" style="text-align: center;">= Total Cover</td> </tr> <tr> <td>Herb Stratum (Plot size: <u>5</u>)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1. <u><i>Polygonum cuspidatum</i> / Japanese knotweed</u></td> <td style="text-align: center;">60</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">FACU</td> </tr> <tr> <td>2. <u><i>Ranunculus repens</i> / Crowfoot, Creeping buttercup</u></td> <td style="text-align: center;">5</td> <td style="text-align: center;">No</td> <td style="text-align: center;">FAC</td> </tr> <tr> <td>3. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>11. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">65</td> <td colspan="2" style="text-align: center;">= Total Cover</td> </tr> <tr> <td>Woody Vine Stratum (Plot size: _____)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2. _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">0</td> <td colspan="2" style="text-align: center;">= Total Cover</td> </tr> <tr> <td colspan="4"> % Bare Ground in Herb Stratum _____ </td> </tr> </tbody> </table>		Absolute % Cover	Dominant Species?	Indicator Status	Tree Stratum (Plot size: <u>30</u>)				1. <u><i>Prunus emarginata</i> / Bitter cherry</u>	55	Yes	FACU	2. <u><i>Alnus rubra</i> / Red alder</u>	30	Yes	FAC	3. <u><i>Pseudotsuga menziesii</i> / Douglas fir</u>	30	Yes	FACU	4. _____					115	= Total Cover		Sapling/Shrub Stratum (Plot size: <u>15</u>)				1. _____				2. _____				3. _____				4. _____				5. _____					0	= Total Cover		Herb Stratum (Plot size: <u>5</u>)				1. <u><i>Polygonum cuspidatum</i> / Japanese knotweed</u>	60	Yes	FACU	2. <u><i>Ranunculus repens</i> / Crowfoot, Creeping buttercup</u>	5	No	FAC	3. _____				4. _____				5. _____				6. _____				7. _____				8. _____				9. _____				10. _____				11. _____					65	= Total Cover		Woody Vine Stratum (Plot size: _____)				1. _____				2. _____					0	= Total Cover		% Bare Ground in Herb Stratum _____				<p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>4</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.0</u> (A/B)</p> <hr/> <p>Prevalence Index worksheet:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply by:</th> <th style="width: 30%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">35</td> <td>x 3 =</td> <td style="text-align: center;">105</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">145</td> <td>x 4 =</td> <td style="text-align: center;">580</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">180</td> <td>(A)</td> <td style="text-align: center;">685 (B)</td> </tr> </tbody> </table> <p style="text-align: center;">Prevalence Index = B/A = <u>3.81</u></p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation</p> <p><input type="checkbox"/> 2 - Dominance Test is >50%</p> <p><input type="checkbox"/> 3 - Prevalence Index ≤3.0¹</p> <p><input type="checkbox"/> 4 - Morphological Adaptations¹ (Provide supporting</p> <p><input type="checkbox"/> 5 - Wetland Non-Vascular Plants¹</p> <p><input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p><small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small></p> <hr/> <p>Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	Total % Cover of:		Multiply by:		OBL species	0	x 1 =	0	FACW species	0	x 2 =	0	FAC species	35	x 3 =	105	FACU species	145	x 4 =	580	UPL species	0	x 5 =	0	Column Totals:	180	(A)	685 (B)
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SOIL

Sampling Point: TP-A5

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		
0-12	10YR 2/2	100					Fine Sndy Lm	
12-16	10YR 2/2	98	7.5YR 4/6	2	C	M	Fine Sndy Lm	
16-18	10YR 3/2	78	7.5YR 4/6	2	C	M	Fine Sndy Lm	
			2.5Y 3/1	15	D	M	Fine Sndy Lm	
			10YR 3/6	5	C	M	Fine Sndy Lm	

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 Soil Present? Yes _____ No X

Remarks:
2.5Y 3/1 redox profile only found in this test plot.

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 Stressed Plants (D1) **(LRR A)**
- Other (Explain in Remarks)

Secondary Indicators (minimum of two 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 X Depth (inches): _____
 Water Table Present? Yes X No _____ Depth (inches): 5
 Saturation Present? Yes X No _____ Depth (inches): 4
 (includes capillary fringe)

Wetland Hydrology Present? Yes X No _____

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

Remarks:
Test plot is located closer to drainage than any other plot.