

September 24, 2019

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## 7431 East Mercer Way, Wetland and Stream Reconnaissance Report

The Watershed Company Reference Number: 190911

### Summary

This report has been prepared to present the findings of a wetland and stream reconnaissance study located at 7431 East Mercer Way, in the City of Mercer Island, Washington (parcel #2579500162). In addition to the information and findings presented in this report, the following documents are enclosed:

- Wetland and Stream Reconnaissance Sketch
- Wetland Determination Data Forms

One stream (Stream A) is located on a neighboring property to the south of the subject parcel. It is a Type Np stream and requires a standard buffer of 60 feet. No wetlands were observed within, or potentially encumbering the property. Based on the buffer width, and approximate stream location, the property appears to be unencumbered by wetlands, streams, and their buffers.

Table 1. Summary of streams and required buffers.

Feature Name	Stream Type	Buffer (ft)
Stream A	Np	60

### Study Area

The study area is defined as parcel #2579500162 and is listed by King County as 9,850 square feet in size (see enclosed *Wetland and Stream Reconnaissance Sketch*). Adjacent public or private property was screened from the edge of parcel or nearest publicly accessible land; no private

property was accessed without permission. It is situated within Section 30 of Township 24 North, Range 05 East of the Public Land Survey System.

## Methods

Field investigations for the delineation study were conducted on September 23, 2019 by The Watershed Company ecologist Sam Payne.

The study area was evaluated for wetlands using methodology from the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region Version 2.0* (U.S. Army Corps of Engineers 2010). Presence or absence of wetlands was determined on the basis of an examination of vegetation, soils and hydrology. These parameters were sampled at several locations to determine the presence or absence of wetlands.

Characterization of climatic conditions for precipitation in the Wetland Determination Data Forms were determined using the WETS table methodology (USDA, NRCS 2015). The "Seattle Tacoma Intl AP" station from 1981-2010 was used as a source for precipitation data (<http://agacis.rcc-acis.org/>). The WETS table methodology uses climate data from the three months prior to the site visit month to determine if normal conditions are present in the study area region.

The study area was evaluated for streams based on the presence or absence of an ordinary high water mark (OHWM) as defined by Section 404 of the Clean Water Act, the Washington Administrative Code (WAC) 220-660-030, and the Revised Code of Washington (RCW) 90.58.030 and guidance documents including *Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State* (Anderson 2016) and *A Guide to Ordinate High Water Mark (OHWM) Delineation for Non-Perennial Streams in the Western Mountains, Valleys, and Coast Region of the United States* (Mersel 2016).

Public-domain information on the subject properties was reviewed for this reconnaissance study. Resources and review findings are presented in Table 2 of the "Environmental Setting" section of this letter.

## Environmental Setting

The study area is within in the Cedar-Sammamish Water Resource Inventory Area (WRIA 8). It is located in the southeastern area of Mercer Island, on a hillslope approximately 500 feet from Lake Washington.

The property is developed with a tennis court and fencing, presumably as an amenity to the neighboring house. It appears to have been graded to create a flat terrace for the tennis court.

Reviewed public-domain information for the site is summarized below (Table 2).

Table 2. Summary of online mapping and inventory resources.

Resource	Summary
USDA NRCS: Web Soil Survey	<i>Kitsap silt loam, 15 to 30 percent slopes</i>
USFWS: NWI Wetland Mapper	<i>No wetlands</i>
WDFW: PHS on the Web	<i>No priority species or habitats</i>
WDFW: SalmonScope	<i>No salmon bearing streams</i>
WA-DNR: Forest Practices Activity Mapping Tool	<i>No streams</i>
King County iMap	<i>No streams or wetlands</i>
City of Mercer Island GIS Portal	<i>Stream shown approximately 90 feet south of subject parcel.</i>
WETS Climatic Condition	<i>Normal</i>

## Findings

### Wetlands

No wetlands were identified on the subject property, or potentially encumbering the subject property. Two wetland determination data points, DP-1 and DP-2 were recorded to document site conditions.

Vegetation on the property compose a non-wetland plant community and include the dominant species: big-leaf maple (*Acer macrophyllum*), western red cedar (*Thuja plicata*), red alder (*Alnus rubra*), western hemlock (*Tsuga heterophylla*), English holly (*Ilex aquifolium*), cherry laurel (*Prunus laurocerasus*), Himalayan blackberry (*Rubus armeniacus*), English ivy (*Hedera helix*). Additionally, a variety of non-wetland ornamental plants have been installed in landscaped areas.

Soils exhibit a very dark grayish brown (2.5Y 3/2) clay loam surface layer, generally above an olive brown (2.5Y 4/4) sublayer. Some locations near the base of the cut slope contain clay loam soils with a depleted matrix (5Y 5/1) and minimal to absent redoximorphic features. These appear to be subsoils that were exposed during excavation for the tennis court and are very compact. No evidence of wetland hydrology was observed during the site visit.

## Streams

One stream, hereafter referred to as Stream A, was identified on the neighboring property to the south. Stream A is approximately two feet in width and confined within a narrow armored channel that conveys streamflow toward Lake Washington, to the east. The average stream gradient from the neighboring property to Lake Washington averages approximately 29% according to topographic data obtained from the Mercer Island GIS Portal. Gradients above 16% generally act as a natural barrier to fish passage, therefore, Stream A would not be considered fish bearing. Based on the amount of streamflow observed during the site visit, Stream A is assumed to be a perennial watercourse. No other streams were observed within, or potentially encumbering the subject property.

## Local Regulations

Watercourses are regulated by the City of Mercer Island through the Mercer Island Municipal Code (MIMC) Chapter 19.07.180 (Watercourses). According to the water typing system described in 19.08.180.A, Stream A is classified as a Type Np watercourse because it is perennial and non-fish bearing. Type Np watercourses require a standard buffer of 60 feet (MIMC 19.07.180.C). Additionally, a building setback of 10 feet is required beyond the edges of a watercourse buffer. Based on a review of stream mapping provided by Mercer Island GIS Portal, Stream A appears to be at least 90 feet south of the subject parcel. Therefore, the project appears to be unencumbered by Stream A and associated buffers. Since the stream is located on private property, this statement is limited to the accuracy of stream mapping and topographic data provided by Mercer Island GIS Portal, and a review of open channel segments visible on aerial imagery.

## Disclaimer

The information contained in this letter is based on the application of technical guidelines currently accepted as the best available science and in conjunction with the manuals and criteria referenced above. All discussions, conclusions and recommendations reflect the best professional judgment of the author(s) and are based upon information available at the time the study was conducted. All work was completed within the constraints of budget, scope, and timing. The findings of this report are subject to verification and agreement by the appropriate local, state and federal regulatory authorities. No other warranty, expressed or implied, is made.

Please call if you have any questions or if we can provide you with any additional information.

Sincerely,

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

Sam Payne  
Ecologist

## References

- Anderson, P.S. et al. 2016. Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State. (Publication #16-06-029). Olympia, WA: Shorelands and Environmental Assistance Program, Washington Department of Ecology.
- Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Mersel, M.K. and Lichvar, R.W. 2014. A Guide to Ordinary High Water Mark (OHWM) Delineation for Non-Perennial Streams in the Western Mountains, Valleys, and Coast Region of the United States. ERDC/CRREL TR-14-13.
- U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). ed. J. S. Wakely, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-10-3. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). 2015. National Engineering Handbook, Part 650 Engineering Field Handbook, Chapter 19 Hydrology Tools for Wetland Identification and Analysis. ed. R. A. Weber. 210-VI-NEH, Amend. 75. Washington, DC.

## Site Photos



Photo 1. Tennis court occupies much of the property area.

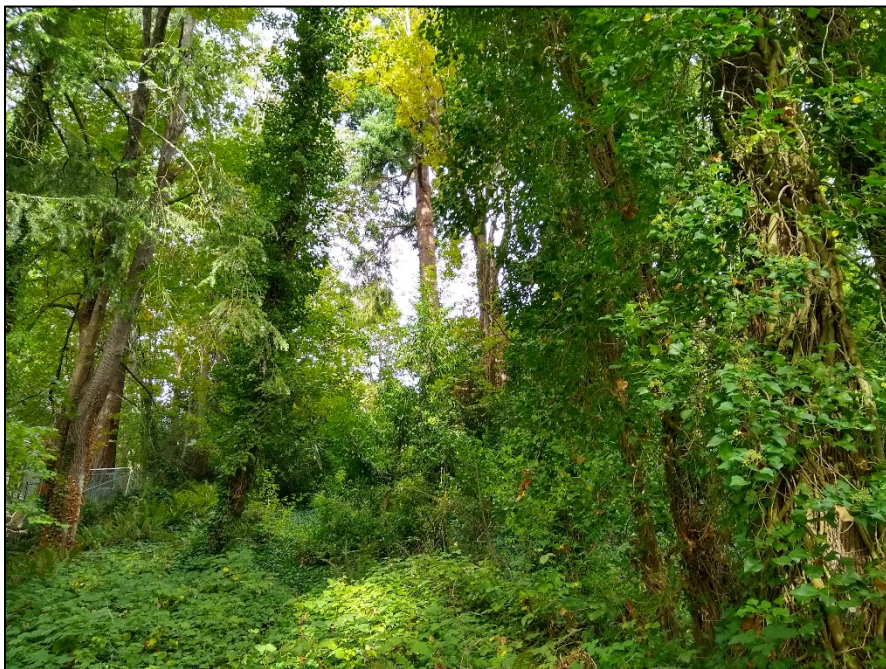


Photo 2. Forest stand on the slope uphill from the tennis court, heavily covered in English ivy.



Photo 3. Steep cut-slope excavated to create the terrace.



Photo 4. Stream A on the neighboring property.

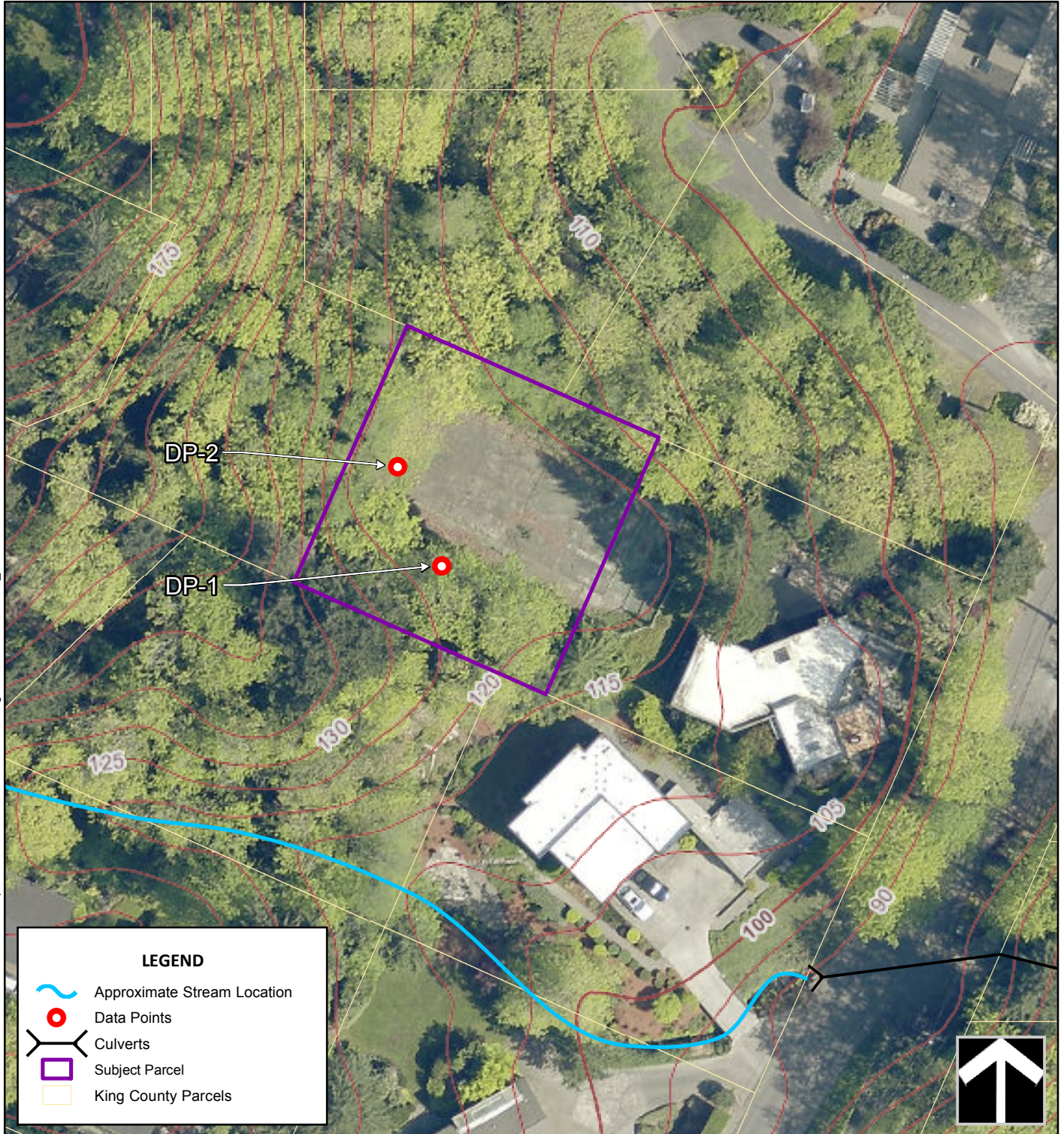


# Wetland and Stream Reconnaissance Sketch

Site Address: 7431 East Mercer Way  
Parcel Number: 2579500162  
Site Visit Date: September 23, 2019

Prepared for: Melissa Yang  
TWC Reference #: 190911

Document Path: H:\PROJECTS\2019\09 - September\190911 - Mercer Island Yang\GIS\Reconnaissance\_Sketch.mxd



Note: Field sketch only. Features approximate and not to scale. Data points are marked with yellow- and black-striped flags.

Project/Site: 7431 E Mercer Way, Mercer Island City/County: Mercer Island / King Sampling date: 9/23/2019  
 Applicant/Owner: Melissa Yang State: WA Sampling Point: DP-1  
 Investigator(s): Sam Payne Section, Township, Range: S30, T24N, R05E  
 Landform (hillslope, terrace, etc): Terrace Local relief (concave, convex, none): Concave Slope (%): 0  
 Subregion (LRR): A Lat: - Long: - Datum: -  
 Soil Map Unit Name: Kitsap silt loam, 15 to 30 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 on the site?  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"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <b>Data point located at the base of slope.</b>					

**VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size: 5-m diameter)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. _____				Number of Dominant Species that are OBL, FACW, or FAC:	1 (A)
2. _____				Total Number of Dominant Species Across all Strata:	3 (B)
3. _____				Percent of Dominant Species that are OBL, FACW, or FAC:	33 (A/B)
4. _____					
	0	= Total Cover			
Sapling/Shrub Stratum (Plot size: 3-m diameter)				<b>Prevalence Index worksheet:</b>	
1. <u>Rubus armeniacus</u>	35	Y	FAC	Total % Cover of:	Multiply by:
2. _____				OBL species	x 1 = _____
3. _____				FACW species	x 2 = _____
4. _____				FAC species	x 3 = _____
5. _____				FACU species	x 4 = _____
	35	= Total Cover		UPL species	x 5 = _____
				Column Totals:	(A) (B)
Herb Stratum (Plot size: 1-m diameter)				Prevalence Index = B/A =	
1. <u>Hedera helix</u>	50	Y	FACU	<b>Hydrophytic Vegetation Indicators:</b>	
2. <u>Polystichum munitum</u>	30	Y	FACU	<input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation	
3. <u>Ranunculus repens</u>	10	N	FAC	<input type="checkbox"/> 2 – Dominance Test is > 50%	
4. <u>Rubus Ursinus</u>	10	N	FACU	<input type="checkbox"/> 3 – Prevalence Index is ≤ 3.0 <sup>1</sup>	
5. _____				<input type="checkbox"/> 4 – Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
6. _____				<input type="checkbox"/> 5 – Wetland Non-Vascular Plants <sup>1</sup>	
7. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
8. _____				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
9. _____					
10. _____					
11. _____					
	100	= Total Cover			
Woody Vine Stratum (Plot size: 3-m diameter)				<b>Hydrophytic Vegetation Present?</b>	
1. _____				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. _____					
	0	= Total Cover			
% Bare Ground in Herb Stratum: 0					
Remarks: Paved area excluded from vegetation plot.					

**SOIL**

Sampling Point: DP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Redox Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	2.5Y 3/2	100					Clay loam	
6-16	2.5Y 4/4	95	10YR 3/6	5	C	M	Clay loam	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loc: PL=Pore Lining, M=Matrix.								
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>			
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> 2cm 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)					<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6)								
<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)								
<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)								
<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____					<b>Hydric soil present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Remarks:								

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required: check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> <del>Water Stained Leaves (except MLRA 1, 2, 4A &amp; 4B) (B9)</del>	<input type="checkbox"/> Water Stained Leaves (B9) (MLRA 1, 2, 4A & 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (explain in remarks)	<input type="checkbox"/> Frost-Heave Hummocks	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (in): _____ Water Table Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (in): _____ Saturation Present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (in): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Project/Site: 7431 E Mercer Way, Mercer Island City/County: Mercer Island / King Sampling date: 9/23/2019  
 Applicant/Owner: Melissa Yang State: WA Sampling Point: DP-2  
 Investigator(s): Sam Payne Section, Township, Range: S30, T24N, R05E  
 Landform (hillslope, terrace, etc): Terrace Local relief (concave, convex, none): Concave Slope (%): 0  
 Subregion (LRR): A Lat: - Long: - Datum: -  
 Soil Map Unit Name: Kitsap silt loam, 15 to 30 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 on the site?  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"/> Hydric Soils Present?                      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present?              Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <b>Data point located at the base of slope.</b>	

**VEGETATION** – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: 5-m diameter)				
1. _____				
2. _____				
3. _____				
4. _____				
<u>0</u> = Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot size: 3-m diameter)				
1. <u>Rubus armeniacus</u>	70	Y	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
<u>70</u> = Total Cover				
<b>Herb Stratum</b> (Plot size: 1-m diameter)				
1. <u>Hedera helix</u>	100	Y	FACU	
2. <u>Rubus ursinus</u>	10	N	FACU	
3. <u>Polystichum munitum</u>	5	N	FACU	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
<u>115</u> = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: 3-m diameter)				
1. _____				
2. _____				
<u>0</u> = Total Cover				
% Bare Ground in Herb Stratum:      0				
Remarks:				

**Dominance Test worksheet:**  
 Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across all Strata: 2 (B)  
 Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of:                      Multiply by:  
 OBL species                      x 1 = \_\_\_\_\_  
 FACW species                      x 2 = \_\_\_\_\_  
 FAC species                      x 3 = \_\_\_\_\_  
 FACU species                      x 4 = \_\_\_\_\_  
 UPL species                      x 5 = \_\_\_\_\_  
 Column Totals:                      (A)                      (B)  
 Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**  
 1 – Rapid Test for Hydrophytic Vegetation  
 2 – Dominance Test is > 50%  
 3 – Prevalence Index is ≤ 3.0<sup>1</sup>  
 4 – Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 5 – Wetland Non-Vascular Plants<sup>1</sup>  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?**                      Yes     No

**SOIL**

Sampling Point: DP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Redox Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	2.5Y 3/2	100					Silty clay loam	
10-16	5Y 5/1	100					Silty clay loam	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loc: PL=Pore Lining, M=Matrix.								
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>								
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5)								
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6)								
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)								
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2)								
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Depleted Matrix (F3)								
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6)								
<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)								
						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
						<input type="checkbox"/> 2cm Muck (A10)		
						<input type="checkbox"/> Red Parent Material (TF2)		
						<input type="checkbox"/> Very Shallow Dark Surface (TF12)		
						<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 present):</b> Type: _____ Depth (inches): _____					<b>Hydric soil present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Remarks:      Depleted matrix appears to be in subsoils exposed by excavating the slope to level it for a tennis court.								

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required: check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> <del>Water Stained Leaves (B9)</del> (MLRA 1, 2, 4A & 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) ( <b>LRR A</b> ) <input type="checkbox"/> Other (explain in remarks)	<input type="checkbox"/> Water Stained Leaves (B9) ( <b>MLRA 1, 2, 4A &amp; 4B</b> ) <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) ( <b>LRR A</b> ) <input type="checkbox"/> Frost-Heave Hummocks	
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (in): _____ Water Table Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (in): _____ Saturation Present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (in): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			