

# Operations and Maintenance Facility South

## ATTACHMENT G3-4

**Wetland Data Determination Forms** 



**Table G3-4.1 Wetland Determination Sample Points** 

Sample Point	Wetland Determination (wetland/upland) <sup>1</sup>	USFWS Wetland Classification <sup>2</sup>	Vegetation	Soils	Hydrology	Report Notes
SP FW V1	Upland	n/a	Dominance Test	none	none	
SP FW V2	Upland	n/a	none	none	none	
SP FW V3	Upland	n/a	none	none	none	
SP FW V4	Upland	n/a	none	none	none	
SP FW V5	Upland	n/a	none	none	Primary: A1, A2, A3	
SP FW V6	Upland	n/a	Dominance Test	none	Primary: A2, A3	
SP FW V7	Upland	n/a	Dominance Test	none	Primary: A2, A3	
SP FW V8	Upland	n/a	Dominance Test	n/a	none	
SP WFW 1-1	Wetland	PFO	Dominance Test	A12	Secondary: D2, D5	
SP WFW 1-2	Wetland	PFO	Dominance Test	A12	Secondary: D2, D5	
SP WFW 1-3	Upland	n/a	none	none	none	
SP WFW 1-4	Wetland	PEM	Dominance Test	Other	Secondary: D2, D5	Hydric Soils rationale: Sample plot nearly meets indicator for F6, Redox Dark Surface. Dark surface layers may have redox that is difficult to see. Given presence of hydrophytic vegetation and geomorphic position below OHWM of East Fork Hylebos Creek, soil is likely seasonally flooded for 14 or more consecutive days during the growing season, and therefore hydric soils presumed to exist.
SP WFW 1-5	Upland	n/a	none	none	none	
SP WFW 1-6	Wetland	PFO	Dominance Test	F6	Primary: B1 Secondary: B9, D2	
SP WFW 1-7	Upland	n/a	none	none	none	
SP WFW 1-8	Wetland	PFO	Dominance Test	Other	Primary: B1 Secondary: C2, D5	Hydric Soils rationale: Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area is inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.
SP WFW 2-1	Wetland	PFO	Rapid Test for Hydrophytic Vegetation	A1	Primary: A1, A2, A3, B1	
SP WFW 2-2	Upland	n/a	Dominance Test	none	none	
SP WFW 2-3	Wetland	PFO	Dominance Test	A4, A12	Primary: A2, A3	

**Table G3-4.1 Wetland Determination Sample Points (continued)** 

Sample Point	Wetland Determination (wetland/upland) <sup>1</sup>	USFWS Wetland Classification <sup>2</sup>	Vegetation	Soils	Hydrology	Report Notes
SP WFW 2-4	Upland	n/a	none	none	none	
SP WFW 3-1	Wetland	PSS	Dominance Test	F6	Primary: A2, A3	
SP WFW 3-2	Upland	n/a	none	none	none	
SP WFW 4-1	Wetland	PSS	Dominance Test	F6	Primary: A2, A3	
SP WFW 4-2	Upland	n/a	Dominance Test	none	none	
SP WFW 5-1	Wetland		Dominance Test	A12	Primary: A1, A2, A3	
SP WFW 5-2	Upland	n/a	none	none	none	
SP WFW 6-1	Wetland		Dominance Test	F6	Primary: A1, A2, A3	
SP WFW 6-2	Upland	n/a	none	none	none	
WFW-07-SP1	Wetland	PEM	Dominance Test	Other	Primary: A2, A3 Secondary: D2, D5	Hydric Soil Rationale: Soils appear to be a fluvial entisol with an aquic moisture regime. Hydric soils supported by hydrophytic vegetation and strong hydrology indicators.
WFW-07-SP2	Upland	n/a	Dominance Test	none	none	
WFW-07-SP3	Wetland	PSS	Dominance Test	A11, F3	Primary: A3, B2, B3 Secondary: D2, D5	
WFW-07-SP4	Upland	n/a	none	none	none	
WFW-08-SP1	Wetland	PSS	Dominance Test	none	Other	Hydric Soil Rationale: Stream has been heavily modified, evidenced by quarry spalls at 4.5 inches below ground surface, and appears to be used as a constructed stormwater facility. Soil appears to be a fluvial entisol with aquic moisture regime. Supported by strong hydrophytic vegetation, geomorphic position on stream bench, significant organics in soils, and strong wetland hydrology indicators
WFW-08-SP2	Upland	n/a	none	none	none	
WFW-08-SP3	Wetland	PEM	Dominance Test		Other	Hydric Soil Rationale: Stream has been heavily modified, evidenced by quarry spalls at 4.5 inches below ground surface, and appears to be used as a constructed stormwater facility. Soil appears to be a fluvial entisol with aquic moisture regime. Supported by strong hydrophytic vegetation, geomorphic position on stream bench, and strong wetland hydrology indicators.
WFW-09-SP1	Wetland	PSS	Dominance Test	A11 and F3	Primary: A2, A3, C3 Secondary: D2, D5	
WFW-09-SP2	Upland	n/a	Dominance Test	none	Secondary: D5	

**Table G3-4.1 Wetland Determination Sample Points (continued)** 

Sample Point	Wetland Determination (wetland/upland) <sup>1</sup>	USFWS Wetland Classification <sup>2</sup>	Vegetation	Soils	Hydrology	Report Notes
WFW-10-SP01	Wetland	PFO	Dominance Test	Other	Primary: A2, A3 Secondary: D2, D5	Hydric Soil Rationale: Soils appear to be a fluvial entisol with an aquic moisture regime. Hydric soils supported by hydrophytic vegetation and strong hydrology indicators.
WFW-10-SP02	Upland	n/a	Dominance Test	none	none	
WFW-10-SP03	Wetland	PFO	Dominance Test	A4, A11	Primary: A2, A3 Secondary: D2	
WFW-10-SP04	Upland	n/a	none	none	none	
WFW-10-SP05	Wetland	PFO	Dominance Test	F6	Primary: A3 Secondary: D2	
WFW-10-SP06	Upland	n/a	Dominance Test	none	none	
WFW-10-SP07	Wetland	PFO	Dominance Test	F6	Primary: A2, A3 Secondary: D5	
WFW-10-SP08	Upland	n/a	Dominance Test	none	Secondary: D5	
WFW-10-SP09	Wetland	PFO	Dominance Test	A11	Primary: A3	
WFW-10-SP10	Upland	n/a	None	none	none	
WFW-10-SP11	Upland	n/a	Prevalence Index	none	none	
WFW-10-SP12	Wetland	PFO	Dominance Test	Other	A2, A3	Hydric Soil Rationale: Soils appear to be a fluvial entisol with an aquic moisture regime. Hydric soils supported by strong hydrophytic vegetation and strong hydrology indicators.
WFW-10-SP13	Wetland	PFO	Dominance Test	F6	A2, A3	
WFW-11-SP1	Wetland	PFO	Dominance Test	A11, F3	Primary: A2, A3 Secondary: D2, D5	
WFW-11-SP2	Upland	n/a	none	none	none	
WFW-11-SP3	Wetland	PEM	Dominance Test	F6	Primary: A2, A3 Secondary: D5	
WFW-11-SP4	Upland	n/a	Dominance Test	none	none	
WFW-12-SP1	Wetland	PEM	Dominance Test	other	Primary: A2, A3, B1 Secondary: D2, D5	Hydric Soil Rationale: Sample point is approximately 2m from wetted stream and is within the floodplain. The stream has been highly modified. Soils are a fluvial entisol with aquic moisture regime. Soils have high organic content that may also mask redox. Supported by strong hydrophytic vegetation and wetland hydrology
WFW-12-SP2	Upland	n/a	Dominance Test	none	none	
WFW-13-SP1	Wetland	PSS	Dominance Test	A11, F3	Primary: A3 Secondary: D2	

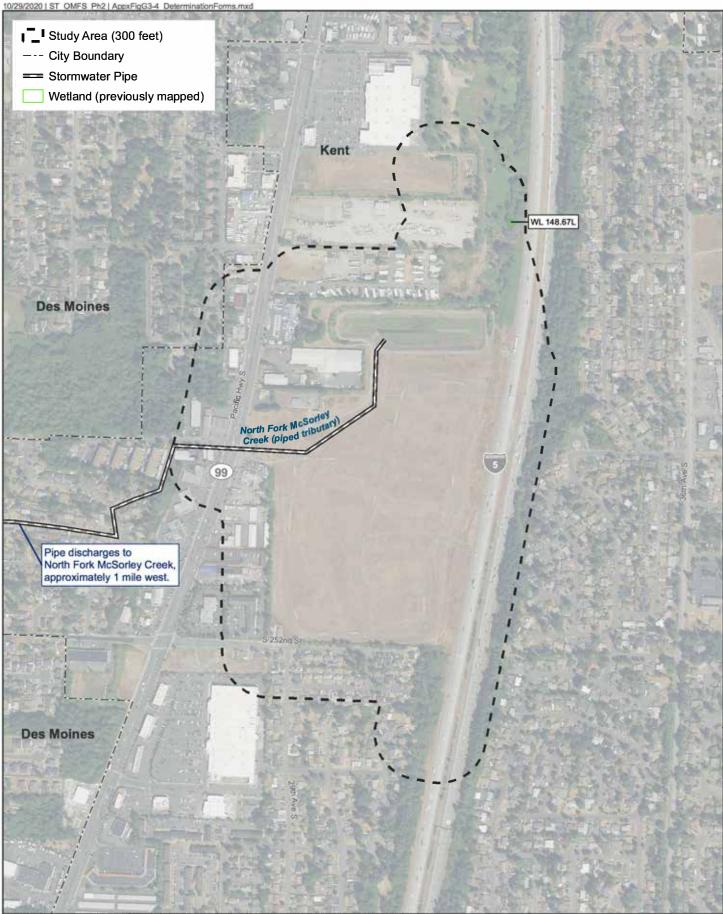
**Table G3-4.1 Wetland Determination Sample Points (continued)** 

Sample Point	Wetland Determination (wetland/upland) <sup>1</sup>	USFWS Wetland Classification <sup>2</sup>	Vegetation	Soils	Hydrology	Report Notes
WFW-13-SP2	Upland	n/a	none	none	none	
WFW-14-SP1	Wetland	PEM	Dominance Test	F3	Primary: C3 Secondary: D2	
WFW-14-SP2	Upland	n/a	Dominance Test	none	none	
WFW-14-SP3	Upland	n/a	Dominance Test	none	none	
WFW-15-SP1	Wetland	PFO	Dominance Test	A11	A3	
WFW-15-SP2	Upland	n/a	none	none	none	
WFW-16-SP1	Wetland	PEM	Dominance Test	A11, F3	Primary: A3, Secondary: B10, D5	
WFW-16-SP2	Upland	n/a	none	A11, F3	none	
WFW-16-SP3	Wetland	PSS	Dominance Test	A11, F3	Primary: A2, A3 Secondary: D5	
WFW-16-SP4	Upland	n/a	Dominance Test	none	none	
SP WFW 17-1	Wetland	PFO	Dominance Test	F3	Primary: A2, A3	
SP WFW 17-2	Upland	n/a	Dominance Test	none	Primary: A2, A3	
SP WFW 18-1	Wetland	PFO	Dominance Test	F3	Primary: A2, A3	
SP WFW 18-2	Upland	n/a	Dominance Test	none	Primary: A2, A3	
WFW-21-SP1	Wetland	PSS	Dominance Test	F6	Primary: A2, A3, B1, B2, B3 Secondary: D2, D5	
WFW-21-SP2	Upland	n/a	none	A11, F3	none	
WFW-22-SP1	Wetland	PSS	Dominance Test	A11, F3	Primary: A1, A2, A3, B4 Secondary: D2, D5	
WFW-22-SP2	Upland	n/a	Dominance Test	F3	none	

#### Notes:

<sup>1</sup> Wetland determinations based on the U.S. Army 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 (Corps 2010).

<sup>2</sup> PEM = palustrine emergent; PFO = palustrine forested; PSS = palustrine scrub-shrub (Cowardin et al. 1979, FGDC 2013).

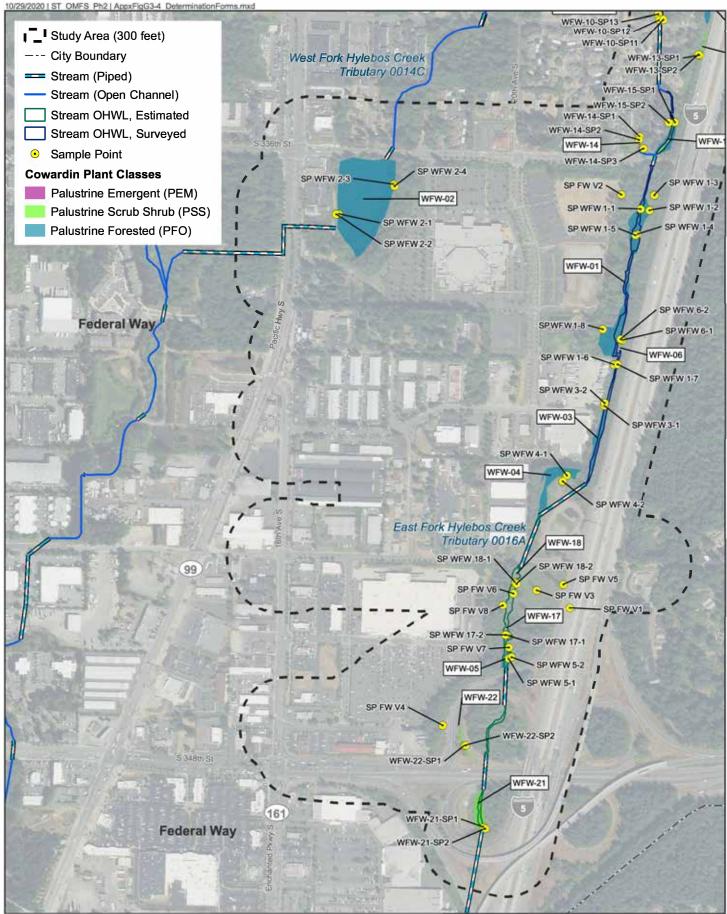


Data Sources: Valtus (2017); WDFW (2020); King County; Cities of Des Moines, Federal Way, Kent (2019).

FIGURE G3-4.1
Wetland Determination Sample Points
Midway Landfill Alternative



FIGURE G3-4.2 Wetland Determination Sample Points Mainline Track Options



Data Sources: Valtus (2017); WDFW (2020); King County; Cities of Des Moines, Federal Way, Kent (2019).

FIGURE G3-4.3
Wetland Determination Sample Points
South 336th Street and South 344th Street Alternatives

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Date	e: 10/9/2019		
Applicant/Owner: Sound Transit		-	State: WA	Sampling Poir	nt: SP FW V1		
Investigators: DANIELSKI			Section, Township, I	Range: T21N R4E S2	1		
Landform (hillslope, terrace, etc.): Depression		Local Relie	ef (concave, convex,	none): Concave	Slo	pe(%): 0	
Subregion (LRR): A	Lat: 47.29261	0 Long:	-122.305954	Datum: V	VGS84		
Soil Map Unit Name: Alderwood gravelly sandy lo	oam		NWI Classific	ation: UPL			
Are climatic / hydrologic conditions on the site typi	cal for this time of y	ear? Yes	No X	(If No, explain in Rer	marks)		
Are Vegetation: Soil or Hydrology	significantly dis	turbed?	Are "Normal Circum	- nstances" present?	Yes	X N	0
Are Vegetation: Soil or Hydrology	 naturally proble	ematic?	(If needed, explain	any answers in Rema	rks.)		
SUMMARY OF FINDINGS - Attach a s	 ite map showin	g sampling	point locations	, transects, impo	rtant featu	ures, etc.	
	X No	<u> </u>	•	•		<u> </u>	
Hydric Soil Present? Yes		Is the	Sampled Area				
Wetland Hydrology Present? Yes	NoX		a Wetland?	Yes		No X	
Remarks:							
Verification plot in salmonberry dominated swale. than normal; however, site visit occurred at end of						months were	wetter
than normal, nowever, site visit occurred at end of	the dry season so t	ary season cond	Itions were still consi	dered when evaluating	g riyarology.		
V=0=TATION II : ::							
VEGETATION – Use scientific names	of plants.						
	Absolute	Dominant	Indicator	Dominance Test W	orksheet:		
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominan	t Species		
1				That Are OBL, FAC	N, or FAC:	2	_ (A)
2				Total Number of Dor	minant		
3				Species Across All S	Strata:	2	<b>_</b> (B)
4				Percent of Dominant	t Species		
		= Total Cover		That Are OBL, FAC	N, or FAC:	100	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index w	orksheet:		
1. Rubus spectabilis	70	Yes	FAC	Total % Cover of:	Mu	ltiply by:	
2. Oemleria cerasiformis	5	No	FACU	OBL species	x1=	·	
3. Rubus ursinus	5	No	FACU	FACW species	x2=	- 0	
4.				FAC species	85 x3=	255	
5.				FACU species	10 x4=	40	
	80	= Total Cover		UPL species	x5=	= 0	
Herb Stratum (Plot size: 1m)				Column Totals:	95 (A)	295	(B)
1. Tolmiea menziesii	15	Yes	FAC				_
2.				Prevalence Inde	x = B/A =	3.1	1
3.				Hydrophytic Vegeta	ation Indicat	ors:	
4.				1 - Rapid Test	for Hydrophy	ytic Vegetatio	on
5.				X 2 - Dominance	e Test is >50°	%	
6.				3 - Prevalence	e Index is ≤3.0	O¹	
7.					ical Adaptatio	ons¹ (Provide	)
				4 - Morpholog			heet)
8.					emarks or on	a separate s	
8. 9.					emarks or on		
				data in Re	emarks or on on-Vascular I	Plants <sup>1</sup>	xplain)
9.				data in Re 5 - Wetland N Problematic H	emarks or on on-Vascular I lydrophytic Ve	Plants¹ egetation¹ (E	
9.		= Total Cover		data in Re	emarks or on on-Vascular f lydrophytic Ve soil and wetla	Plants <sup>1</sup> egetation <sup>1</sup> (E and hydrolog	у
9. 10. 11.	15	= Total Cover		data in Re 5 - Wetland N Problematic H Indicators of hydric	emarks or on on-Vascular f lydrophytic Ve soil and wetla	Plants <sup>1</sup> egetation <sup>1</sup> (E and hydrolog	у
9. 10. 11. Woody Vine Stratum (Plot size: )	15	= Total Cover		data in Re 5 - Wetland N Problematic H Indicators of hydric must be present, uni	emarks or on on-Vascular f lydrophytic Ve soil and wetla	Plants <sup>1</sup> egetation <sup>1</sup> (E and hydrolog	у
9. 10. 11. Woody Vine Stratum (Plot size:) 1.	15	= Total Cover		data in Re 5 - Wetland N Problematic H Indicators of hydric must be present, unl Hydrophytic	emarks or on on-Vascular I lydrophytic Ve soil and wetla less disturbed	Plants <sup>1</sup> egetation <sup>1</sup> (E and hydrolog	у
9.	15			data in Re 5 - Wetland N Problematic H Indicators of hydric must be present, unl Hydrophytic Vegetation	emarks or on on-Vascular I lydrophytic Ve soil and wetla less disturbed	Plants <sup>1</sup> egetation <sup>1</sup> (E and hydrolog	у
9. 10. 11. Woody Vine Stratum (Plot size:) 1.		= Total Cover = Total Cover		data in Re 5 - Wetland N Problematic H Indicators of hydric must be present, unl Hydrophytic	emarks or on on-Vascular I lydrophytic Ve soil and wetla less disturbed	Plants <sup>1</sup> egetation <sup>1</sup> (E and hydrolog	у

Profile Desc	ription: (Describe	to the depth ne	eded to	document the	indicator o	or confirm	the abse	ence of indicators.)				
Depth	Ma				ox Feature							
(inches)	Color (moist)	%	Co	olor (moist)	%	Type¹	Loc²	Texture		Remark	(S	
0-14	10YR 3/3	100						Sandy Loam				
								. <u> </u>				
								. <u> </u>				
¹Type: C= Co	oncentration, D= D	epletion, RM=Re	duced Ma	atrix, CS=Cove	red or Coat	ted Sand G	rains.	²Loca	tion: PL=	=Pore Lining,	M=Matr	ix.
Hydric Soil I	ndicators: (Appli	cable to all LRR	s, unless	s otherwise no	ted.)			Indicators for Prob	lematic !	Hydric Soils	3.	
Histos	sol (A1)		s	andy Redox (S	5)			2 cm Muck (	410)			
— Histic	Epipedon (A2)		s	tripped Matrix (	S6)			Red Parent N	√aterial (	TF2)		
	Histic (A3)			oamy Mucky Mi		(except ML	RLA 1)	Very Shallow				
	gen Sulfide (A4)			oamy Gleyed M				Other (Expla	in in Rem	narks)		
	ted Below Dark Su			epleted Matrix								
	Dark Surface (A12			ledox Dark Surf				<sup>3</sup> Indicators of hydr		-	d	
	/ Mucky Mineral (S	•		epleted Dark S		)		wetland hydrolog		-		
	√ Gleyed Matrix (S₄	•	R	edox Depression	ons (F8)			unless disturbed	or proble	ematic.		
	Layer (if present	):										
Type:			_									
Depth	(inches):		_					Hydric Soil Prese	ent?	Yes	No	X
Sample plot is	acks indicators of h	nyaric soil.										
HYDROLO	OGY											
	ydrology Indicato											
l	licators (minimum	of one required; of		11 77				Secondary Indicat				
	ce Water (A1)		w	later-Stained Le	` ′	(except		Water Staine		s (B9) ( <b>MRL</b>	1, 2,	
	Water Tables (A2)			MRLA 1, 2, 4				4A, and 4				
	ation (A3)			alt Crust (B11)				Drainage Pa	,	•		
	Marks (B1)			quatic Inverteb	, ,			Dry-Season Saturation Vi		• ,	m. (CO)	
	nent Deposits (B2) Deposits (B3)			lydrogen Sulfide xidized Rhizosi			note (C2)			•	(C9)	
	Mat or Crust (B4)			resence of Red		-	JUIS (US)	Shallow Aqu				
	eposits (B5)			ecent Iron Red	`	'	<u> </u>	FAC-Neutral				
	ce Soil Cracks (B6)	1		tunted or Stress		•		Raised Ant N				
	ation Visible on Ae			ther (Explain in		(B1) ( <b>LIII</b>	Α,	Frost-Heave				
	ley Vegetated Con			(2xp.a						5.10 (57)		
Field Obse			,									
	ater Present? Ye	es No	X D	epth (inches):								
Water Table		es No		epth (inches):								
Saturation I		es No		epth (inches):			Wetlan	d Hydrology Preser	nt?	Yes	No	Х
(includes ca	apillary fringe)			, ,				,			_	
	corded Date (stream	m gauge monitor	ing well	aerial nhotos, n	revious ins	nections) i	<u>I</u> f availabl	le·				
Doddingo rec	orded Bate (Streat	n gaaga, mama	ing won,	aonai priotos, p		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ravanasi					
Remarks:												
No primary or	r secondary wetlan	d hydrology indic	ators obs	served.								

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ite: 10/10/20	)19	
Applicant/Owner: Sound Transit			State: WA	Sampling Po	int: SP FW \	<b>/</b> 2	
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S	21		
Landform (hillslope, terrace, etc.): Depression		Local Reli	ef (concave, convex,	none): Concave	S	lope(%): 0	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2999	88 Long:	-122.304810	Datum:	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy I	laom		NWI Classific	cation: UPL			
Are climatic / hydrologic conditions on the site typ	ical for this time of	year? Yes	s No_X	(If No, explain in R	emarks)		
Are Vegetation: SoilX or Hydrology	significantly di	sturbed?	Are "Normal Circun	nstances" present?	Yes _	X N	اس
Are Vegetation: Soil or Hydrology	naturally probl		•	any answers in Rem	•		
SUMMARY OF FINDINGS - Attach a s	ite map showi	ng sampling	point locations	, transects, imp	ortant fea	tures, etc.	
Hydrophytic Vegetation Present? Yes _	No X						
Hydric Soil Present? Yes _	No <u>X</u>	Is the	Sampled Area				
Wetland Hydrology Present? Yes _	No <u>X</u>	withir	n a Wetland?	Yes		No X	
Remarks:							
Verification plot located in ditch south of S. 336th wetter than normal; however, site visit occurred a	t end of the dry sea						hs were
VEGETATION – Use scientific names	•		1 2 .	la ·			
T 01.1 (DI.1.)	Absolute	Dominant	Indicator	Dominance Test			
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	_ Status	Number of Domina		4	<b>(A)</b>
1.				That Are OBL, FAC	•	1	— <sup>(A)</sup>
2. 3.				Total Number of Do		2	(D)
4.			- —	Percent of Domina			— <sup>(B)</sup>
<del></del>		= Total Cover	_	That Are OBL, FAC	•	50	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)		= Total Cover		Prevalence Index			(A/D)
1. Rubus armeniacus	4	Yes	FAC	Total % Cover of:		lultiply by:	
2.				OBL species		1=	
3.				FACW species		2= 10	_
4.				FAC species		3= 63	_
5.				FACU species		4= 72	_
	4	= Total Cover		UPL species		5= 20	_
Herb Stratum (Plot size: 1m)				Column Totals:	48 (A		— <sub>(B)</sub>
1. Hypochaeris radicata	15	Yes	FACU		`	′ ———	<b>—</b> ` ′
2. Agrostis capillaris	7	No	FAC	Prevalence Ind	lex = B/A=	3.4	14
3. Conium maculatum	5	NI-	- —	Huduan budia Vana		ators:	
A Disabella de a musualita a casa	J	No	FAC	Hydrophytic Vege	tation indica		ion
<ol> <li>Phalaris arundinacea</li> </ol>	5	No	- FAC FACW			hytic Vegetat	011
					st for Hydrop	hytic Vegetat	
5. Carduus nutans	5	No	FACW	1 - Rapid Te	st for Hydrop ce Test is >5	hytic Vegetat 0%	011
<ul><li>5. Carduus nutans</li><li>6. Claytonia sibirica</li></ul>	5 4	No No	FACW UPL	1 - Rapid Te 2 - Dominand 3 - Prevalend	st for Hydrop ce Test is >5 ce Index is ≤0	hytic Vegetat 0%	
<ul><li>5. Carduus nutans</li><li>6. Claytonia sibirica</li><li>7. Galium aparine</li></ul>	5 4 3	No No No	FACW UPL FAC	1 - Rapid Te 2 - Dominan 3 - Prevalence 4 - Morpholo	st for Hydrop ce Test is >5 ce Index is ≤3 gical Adapta	hytic Vegetat 0% 3.0¹	e
<ol> <li>Carduus nutans</li> <li>Claytonia sibirica</li> <li>Galium aparine</li> <li>Ranunculus repens</li> </ol>	5 4 3 3	No No No	FACW UPL FAC FACU	1 - Rapid Te 2 - Dominan 3 - Prevalence 4 - Morpholo	st for Hydrop ce Test is >5 ce Index is ≤0 gical Adapta Remarks or o	hytic Vegetat 0% 3.0¹ tions¹ (Provid n a separate	e
<ul><li>5. Carduus nutans</li><li>6. Claytonia sibirica</li><li>7. Galium aparine</li><li>8. Ranunculus repens</li><li>9.</li></ul>	5 4 3 3	No No No	FACW UPL FAC FACU	1 - Rapid Te 2 - Dominand 3 - Prevalend 4 - Morpholo data in F 5 - Wetland	st for Hydrop ce Test is >5 ce Index is ≤ gical Adapta Remarks or o Non-Vascula	hytic Vegetat 0% 3.0¹ tions¹ (Provid n a separate	e sheet)
<ul> <li>5. Carduus nutans</li> <li>6. Claytonia sibirica</li> <li>7. Galium aparine</li> <li>8. Ranunculus repens</li> <li>9.</li> <li>10.</li> </ul>	5 4 3 3	No No No	FACW UPL FAC FACU	1 - Rapid Te 2 - Dominand 3 - Prevalend 4 - Morpholo data in F 5 - Wetland	st for Hydrop ce Test is >5 ce Index is ≤3 gical Adapta Remarks or o Non-Vascula Hydrophytic	hytic Vegetat 0% 3.0¹ tions¹ (Provid n a separate : r Plants¹ Vegetation¹ (I	e sheet) Explain)
5. Carduus nutans 6. Claytonia sibirica 7. Galium aparine 8. Ranunculus repens 9. 10. 11.	5 4 3 3	No No No	FACW UPL FAC FACU FACU	1 - Rapid Te 2 - Dominan 3 - Prevalenc 4 - Morpholo data in F 5 - Wetland I	st for Hydrop ce Test is >5 ce Index is ≤0 gical Adapta Remarks or o Non-Vascula Hydrophytic c soil and we	hytic Vegetat 0% 3.01 tions1 (Provid n a separate r Plants1 Vegetation1 (I tland hydrolog	e sheet) Explain) gy
5. Carduus nutans 6. Claytonia sibirica 7. Galium aparine 8. Ranunculus repens 9. 10. 11. Woody Vine Stratum (Plot size:)	5 4 3 3 2	No No No No	FACW UPL FAC FACU FACU	1 - Rapid Te 2 - Dominand 3 - Prevalend 4 - Morpholo data in F 5 - Wetland I Problematic  Indicators of hydric must be present, u	st for Hydrop ce Test is >5 ce Index is ≤0 gical Adapta Remarks or o Non-Vascula Hydrophytic c soil and we	hytic Vegetat 0% 3.01 tions1 (Provid n a separate r Plants1 Vegetation1 (I tland hydrolog	e sheet) Explain) gy
5. Carduus nutans 6. Claytonia sibirica 7. Galium aparine 8. Ranunculus repens 9. 10. 11. Woody Vine Stratum (Plot size:) 1.	5 4 3 3 2	No No No No	FACW UPL FAC FACU FACU	1 - Rapid Te 2 - Dominand 3 - Prevalend 4 - Morpholo data in F 5 - Wetland I Problematic Indicators of hydric must be present, u	st for Hydrop ce Test is >5 ce Index is <5 gical Adapta Remarks or o Non-Vascula Hydrophytic c soil and we nless disturb	hytic Vegetat 0% 3.0¹ tions¹ (Provid n a separate r Plants¹ Vegetation¹ (I tland hydrologed or problem	e sheet) Explain) Gy atic.
5. Carduus nutans 6. Claytonia sibirica 7. Galium aparine 8. Ranunculus repens 9. 10. 11. Woody Vine Stratum (Plot size:) 1.	5 4 3 3 2	No No No No Total Cover	FACW UPL FAC FACU FACU	1 - Rapid Te 2 - Dominand 3 - Prevalend 4 - Morpholo data in F 5 - Wetland I Problematic Indicators of hydric must be present, u  Hydrophytic Vegetation	st for Hydrop ce Test is >5 ce Index is ≤0 gical Adapta Remarks or o Non-Vascula Hydrophytic c soil and we	hytic Vegetat 0% 3.01 tions1 (Provid n a separate r Plants1 Vegetation1 (I tland hydrolog	e sheet) Explain) Gy atic.
<ul><li>5. Carduus nutans</li><li>6. Claytonia sibirica</li><li>7. Galium aparine</li></ul>	5 4 3 3 2	No No No No	FACW UPL FAC FACU FAC	1 - Rapid Te 2 - Dominand 3 - Prevalend 4 - Morpholo data in F 5 - Wetland I Problematic Indicators of hydric must be present, u	st for Hydrop ce Test is >5 ce Index is <5 gical Adapta Remarks or o Non-Vascula Hydrophytic c soil and we nless disturb	hytic Vegetat 0% 3.0¹ tions¹ (Provid n a separate r Plants¹ Vegetation¹ (I tland hydrologed or problem	e sheet) Explain) Gy atic.

Profile Descr	iption: (Descr	ibe to the	depth ne	eded	to document the i	ndicator o	or confirm	the abse	ence of indicators.)		-			
Depth		Matrix			Redo	ox Feature	s							
(inches)	Color (moi	st)	%		Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Re	emarks		
0-16	10YR 3/2		100						Silt Loam					
16-18										Drain ı	ock			
¹Type: C= Co	ncentration, D	= Depletior	n, RM=Re	duced	Matrix, CS=Cover	ed or Coat	ted Sand G	rains.	²Loca	tion: P	L=Pore L	ining, M	=Matri:	х.
Hydric Soil In	ndicators: (Ap	plicable t	o all LRR	s, unl	ess otherwise not	ted.)			Indicators for Prob	lemati	c Hydric :	Soils³:		
Histos	ol (A1)				Sandy Redox (S5	5)			2 cm Muck (/	410)				
Histic	Epipedon (A2)				Stripped Matrix (	S6)			Red Parent N	<i>M</i> ateria	l (TF2)			
Black	Histic (A3)				Loamy Mucky Mi	neral (F1)	(except ML	RLA 1)	Very Shallow		· ·	ΓF12)		
Hydro	gen Sulfide (A4	)			Loamy Gleyed M	atrix (F2)			Other (Expla	in in Re	emarks)			
	ed Below Dark	•	411)		Depleted Matrix (									
	Dark Surface (A				Redox Dark Surfa				<sup>3</sup> Indicators of hydr		•			
l ——	Mucky Mineral				_ Depleted Dark Su -				wetland hydrolog			ent,		
	Gleyed Matrix	· ·			Redox Depressio	ns (F8)			unless disturbed	or pro	blematic.			
Restrictive	Layer (if pres	ent):												
Type:				_										
Depth	(inches):			_					Hydric Soil Prese	ent?	Yes _		No _	X
HYDROLC		otovo.												
1	rdrology Indica icators (minimu			باممط	-11 46 -4 ()				Coopedan Indian	· (0		(المحادث معار		
l ——	e Water (A1)	iii oi one i	equired, c	HECK	Water-Stained Le	20100 (PO)	/oveent		Secondary Indicat Water Staine					
	e water (A1) Vater Tables (A	2)			MRLA 1, 2, 4A	. ,	(except		4A, and 4		es (D9) (I	VINLA I	, ∠,	
	tion (A3)	· _ /			Salt Crust (B11)	i, and 4D)			Drainage Pa	,	B10)			
	Marks (B1)				- Aquatic Invertebr	ates (B13)			Dry-Season			)		
	ent Deposits (E	32)			- Hydrogen Sulfide				Saturation Vi		•	•	(C9)	
	eposits (B3)	_,			Oxidized Rhizosp			oots (C3)					( )	
l ——	Mat or Crust (B	4)			Presence of Red		-	( , ,	Shallow Aqui		` '			
	eposits (B5)	,			- Recent Iron Redu			26)	FAC-Neutral					
Surfac	e Soil Cracks (	B6)			- Stunted or Stress	ed Plants	(D1) ( <b>LRR</b> .	<b>A</b> )	Raised Ant N	lounds	(D6) ( <b>LR</b>	RA)		
Inunda	ation Visible on	Aeriel Ima	gery (B		Other (Explain in	Remarks)			Frost-Heave	Humm	ocks (D7)			
Sparsl	ey Vegetated C	Concave S	urface (B8	5)	_									
Field Obse	rvations:													
Surface Wa	ter Present?	Yes	No	Χ	Depth (inches):									
Water Table	e Present?	Yes	No	Χ	Depth (inches):									
Saturation F	Present?	Yes _	No _	Х	Depth (inches):			Wetland	d Hydrology Preser	ıt?	Yes _		No _	Х
(includes ca	pillary fringe)													
Describe Rec	orded Date (str	eam gaug	e, monitor	ing we	ell, aerial photos, p	revious ins	pections), i	f availabl	e:					
Remarks:														
No primary or	secondary wet	land hydro	ology indic	ators	observed.									

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Dat	e: 10/22/20	19	
Applicant/Owner: Sound Transit			State: WA	Sampling Poi	nt: SP FW V	/3	
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S2	21		
Landform (hillslope, terrace, etc.): Flat		Local Reli	ef (concave, convex,	none): None	Sle	ope(%): 0	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.292	915 Long:	-122.306824	Datum:	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy I	oam		NWI Classific	cation: UPL			
Are climatic / hydrologic conditions on the site type	ical for this time of	year? Yes	S NoX	(If No, explain in Re	marks)		
Are Vegetation: Soil or Hydrology	significantly o		Are "Normal Circur	nstances" present?	Yes	X N	lo
Are Vegetation: Soil or Hydrology	naturally prob	olematic?	(If needed, explain	any answers in Rema	rks.)		
SUMMARY OF FINDINGS - Attach a s	ite map show	ing sampling	point locations	, transects, impo	ortant feat	tures, etc.	
Hydrophytic Vegetation Present? Yes _	No X						
Hydric Soil Present? Yes	No X	Is the	Sampled Area				
Wetland Hydrology Present? Yes _	No _X	withi	n a Wetland?	Yes _		No X	
Remarks:							
Conditions wetter than normal for time of year. Sa	mple plot has 0 of	3 indicators, is no	ot located in a wetlan	d.			
	, p - p	, ,					
VEGETATION – Use scientific names	of plants.						
	Absolute	Dominant	Indicator	Dominance Test V	Vorksheet:		
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominar	nt Species		
Pseudotsuga menziesii	10	Yes	FACU	That Are OBL, FAC	W, or FAC:	1	(A)
2.				Total Number of Do	minant		
3.				Species Across All	Strata:	2	(B)
4.				Percent of Dominan	t Species		
	10	= Total Cover		That Are OBL, FAC	W, or FAC:	50	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index v	worksheet:		
1. Rubus armeniacus	85	Yes	FAC	Total % Cover of:	<u>M</u> ı	ultiply by:	
2. Prunus emarginata	5	No	FACU	OBL species	x1	=	
3.				FACW species	x2	?= 0	
4.				FAC species	85 x3	3= 255	
5.				FACU species	15 x4	÷= 60	
	90	= Total Cover		UPL species	x5	j=0	_
Herb Stratum (Plot size: 1m)				Column Totals:	100 (A	315	(B)
1							
2				Prevalence Inde		3.	5
3				Hydrophytic Veget			
4.				1 - Rapid Tes		-	on
5.						)%	
				2 - Dominanc			
6.				3 - Prevalenc	e Index is ≤3	3.0 <sup>1</sup>	
7.				3 - Prevalenc 4 - Morpholog	e Index is ≤3 gical Adaptati	3.0¹ ions¹ (Provide	
7.				3 - Prevalenc 4 - Morpholog data in R	e Index is ≤3 gical Adaptati emarks or or	3.01 ions1 (Providen a separate s	
7. 8. 9.				3 - Prevalenc 4 - Morpholog data in R 5 - Wetland N	e Index is ≤3 gical Adaptati emarks or or Ion-Vascular	3.01 ions¹ (Providen a separate s Plants¹	sheet)
7. 8. 9.				3 - Prevalenc 4 - Morpholog data in R 5 - Wetland N Problematic H	e Index is ≤3 gical Adaptati emarks or or Ion-Vascular Hydrophytic \	3.01 ions1 (Provida n a separate s Plants1 Vegetation1 (E	sheet) Explain)
7. 8. 9.		- Total Cover		3 - Prevalenc 4 - Morpholog data in R 5 - Wetland N Problematic H  Indicators of hydric	e Index is ≤3 gical Adaptati emarks or or lon-Vascular Hydrophytic \ soil and wet	3.01 ions1 (Provident a separate separa	sheet) Explain) By
7. 8. 9. 10.		= Total Cover		3 - Prevalenc 4 - Morpholog data in R 5 - Wetland N Problematic H	e Index is ≤3 gical Adaptati emarks or or lon-Vascular Hydrophytic \ soil and wet	3.01 ions1 (Provident a separate separa	sheet) Explain) By
7. 8. 9. 10. 11. Woody Vine Stratum (Plot size:)		= Total Cover		3 - Prevalenc 4 - Morpholog data in R 5 - Wetland N Problematic H Indicators of hydric must be present, un	e Index is ≤3 gical Adaptati emarks or or lon-Vascular Hydrophytic \ soil and wet	3.01 ions1 (Provident a separate separa	sheet) Explain) By
7.  8.  9.  10.  11.  Woody Vine Stratum (Plot size:)  1.		= Total Cover		3 - Prevalenc 4 - Morpholog data in R 5 - Wetland N Problematic I Indicators of hydric must be present, un	e Index is ≤3 gical Adaptati emarks or or lon-Vascular Hydrophytic \ soil and wet less disturbe	3.01 ions¹ (Providen a separate s Plants¹ Vegetation¹ (Estand hydrologed or problem	Explain) By atic.
7. 8. 9. 10. 11. Woody Vine Stratum (Plot size:)				3 - Prevalenc 4 - Morpholog data in R 5 - Wetland N Problematic I Indicators of hydric must be present, un Hydrophytic Vegetation	e Index is ≤3 gical Adaptati emarks or or lon-Vascular Hydrophytic \ soil and wet	3.01 ions1 (Provident a separate separa	Explain) By atic.
7.  8.  9.  10.  11.  Woody Vine Stratum (Plot size:)  1.	2/ 00	= Total Cover  = Total Cover ver of Biotic Crus		3 - Prevalenc 4 - Morpholog data in R 5 - Wetland N Problematic I Indicators of hydric must be present, un	e Index is ≤3 gical Adaptati emarks or or lon-Vascular Hydrophytic \ soil and wet less disturbe	3.01 ions¹ (Providen a separate s Plants¹ Vegetation¹ (Estand hydrologed or problem	Explain) By atic.

Profile Descr	iption: (Describe	to the depth ne	eded to document the i	ndicator	or confirm	the abse	ence of indicators.)			
Depth	Ма	trix	Rede	ox Feature	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Rem	arks	
0-8	10YR 3/3	100					Sandy Loam			
8-18	10YR 4/6	100					Sandy Loam			
							· <del></del>			
							<del></del>			
							<del></del>			
		_			·					
		_			·					
¹Type: C= Co	ncentration, D= D	epletion, RM=Re	duced Matrix, CS=Cover	ed or Coa	ted Sand G	rains.	²Location:	PL=Pore Linir	ıg, M=Matı	rix.
Hydric Soil In	dicators: (Appli	cable to all LRR	s, unless otherwise not	ted.)			Indicators for Problema	tic Hydric So	ils³:	
Histoso	ol (A1)		Sandy Redox (St	5)			2 cm Muck (A10)			
Histic E	Epipedon (A2)		Stripped Matrix (	S6)			Red Parent Mater	al (TF2)		
Black H	Histic (A3)		Loamy Mucky Mi	neral (F1)	(except ML	RLA 1)	Very Shallow Dark	Surface (TF1	2)	
Hydrog	gen Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Other (Explain in F	Remarks)		
Deplete	ed Below Dark Sເ	ırface (A11)	Depleted Matrix (	F3)						
Thick [	Dark Surface (A12	?)	Redox Dark Surfa	ace (F6)			<sup>3</sup> Indicators of hydrophyt	ic vegetation a	and	
l ——	Mucky Mineral (S	•	Depleted Dark St	•	)		wetland hydrology mu	ist be present,		
Sandy	Gleyed Matrix (S	4)	Redox Depression	ns (F8)			unless disturbed or pr	oblematic.		
Restrictive	Layer (if present	):								
Type:										
Depth	(inches):		_				Hydric Soil Present?	Yes	No	X
HYDROLO	GY									
Wetland Hy	drology Indicato	rs:								
Primary Indi	cators (minimum	of one required; of	check all that apply)				Secondary Indicators (2	? or more requ	ired)	
Surface	e Water (A1)		Water-Stained Le	eaves (B9)	(except		Water Stained Lea	aves (B9) (MR	LA 1, 2,	•
High W	/ater Tables (A2)		MRLA 1, 2, 4A	, and 4B)	)		<b>4A</b> , and 4B)			
Satura	tion (A3)		Salt Crust (B11)				Drainage Patterns	(B10)		
Water	Marks (B1)		Aquatic Invertebr	ates (B13)	)		Dry-Season Water	Table (C2)		
Sedime	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1	)		Saturation Visible	on Aeriel Imaç	gery (C9)	
Drift De	eposits (B3)		Oxidized Rhizosp	heres alo	ng Living Ro	oots (C3)	Geomorphic Posit	ion (D2)		
	fat or Crust (B4)		Presence of Red				Shallow Aquitard (			
	eposits (B5)		Recent Iron Redu		`	,	FAC-Neutral Test			
	e Soil Cracks (B6		Stunted or Stress			<b>A</b> )	Raised Ant Mound	. , .	<b>A</b> )	
	tion Visible on Ae	3 , (	Other (Explain in	Remarks)	)		Frost-Heave Humi	mocks (D7)		
	ey Vegetated Con	cave Surface (Bo	3)							
Field Obser			V D 11 (1 1 )							
Surface Wat			X Depth (inches):							
Water Table Saturation P		es	X Depth (inches): X Depth (inches):			Wotland	d Hydrology Present?	Vos	No	х
	pillary fringe)	=S NO .	Deptil (iliches).			welland	a nyarology Present?	Yes		
			dan		:		1			
Describe Reco	orded Date (streat	n gauge, monitoi	ring well, aerial photos, p	revious ins	spections), r	avallabi	ie:			
Remarks:										
No primary or	secondary hydrol	ogy indicators ob	served.							

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	te: 10/22/	2019		
Applicant/Owner: Sound Transit			State: WA	Sampling Po	int: SP FV	V V4		
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S	21			
Landform (hillslope, terrace, etc.): Hillslope		Local Reli	ef (concave, convex,	none): None		Slope	(%): 2	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2904	<u>–</u> 162 Long:	-122.309219	Datum:	WGS84			
Soil Map Unit Name: Alderwood gravelly sandy lo	oam	_	NWI Classific	cation: UPL				
Are climatic / hydrologic conditions on the site typi	cal for this time of	year? Yes	No X	(If No, explain in Re	emarks)			
Are Vegetation: Soil or Hydrology	significantly d	isturbed?	Are "Normal Circun	nstances" present?	Yes	Х	N	0
Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain	any answers in Rema	arks.)			
SUMMARY OF FINDINGS - Attach a si	te map showi	ng sampling	point locations	, transects, impe	ortant fe	eature	es, etc.	
Hydrophytic Vegetation Present? Yes	No X							
Hydric Soil Present? Yes	No X	Is the	Sampled Area					
Wetland Hydrology Present? Yes	No X	withir	n a Wetland?	Yes			No X	
Remarks:				<u> </u>		'		
In stand of PSME on hill between off ramp and Wa a wetland.		wetter than norm	al for time of year. Sa	ample plot has 0 of 3	wetland cr	riteria, i	s not loca	ated in
VEGETATION – Use scientific names	of plants.			_				
	Absolute	Dominant	Indicator	Dominance Test \				
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominar				
Pseudotsuga menziesii	80	Yes	FACU FACU	That Are OBL, FAC		): _	0	_ <sup>(A)</sup>
2				Total Number of Do				
3				Species Across All		_	2	_ <sup>(B)</sup>
4				Percent of Dominar	•			
	80	= Total Cover		That Are OBL, FAC			0	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index				
Gaultheria shallon	60	Yes	FACU FACU	Total % Cover of:		<u>Multip</u>	<u>ly by:</u>	
Oemleria cerasiformis	10	No	FACU	OBL species		x1= _		_
3. Arbutus menziesii	5	No	UPL	FACW species		x2= _	0	_
4. Thuja plicata	3	No	FAC	FAC species	3	×3= _	9	_
5				FACU species	150	×4= _	600	_
(B)	78	= Total Cover		UPL species	5	×5= _	25	<b>–</b> "
<u>Herb Stratum</u> (Plot size: 1m)				Column Totals:	158	(A) _	634	— <sup>(B)</sup>
1			<u> </u>		5.4		4.0	
2			<del>-</del> ———	Prevalence Inde			4.0	1
3.			<del>-</del> ———	Hydrophytic Vege				
4		-		1 - Rapid Tes 2 - Dominano			vegetati	ori
5.				3 - Prevalence				
6. 7.			- —	4 - Morpholog			1 (Provide	
8.					gicai Adap Remarks or			
9.			- —	5 - Wetland N			•	nieet)
								(volain
10				I Problematic		ic veue	talion (∟	
				Problematic I		_	l hydrolog	y
11.		- Total Cover		<sup>1</sup> Indicators of hydric	soil and v	vetland		atic
11.		= Total Cover			soil and v	vetland		atic.
11. Woody Vine Stratum (Plot size: )		= Total Cover		<sup>1</sup> Indicators of hydric must be present, ur	soil and v	vetland		atic.
11. Woody Vine Stratum (Plot size: ) 1.		= Total Cover		¹Indicators of hydric must be present, ur Hydrophytic	soil and v	vetland	problem	
11. Woody Vine Stratum (Plot size: ) 1.				¹Indicators of hydric must be present, ur Hydrophytic Vegetation	soil and v	vetland		
	9/ Co	= Total Cover  = Total Cover  ver of Biotic Crus		¹Indicators of hydric must be present, ur Hydrophytic	soil and v	vetland	problem	

Profile Desc Depth	Matri	-			ox Feature	es.						
(inches)	Color (moist)	%	Colo	r (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks	
0-6	10YR 2/2	100						Silt Loam	Signific	cant duff and		
6-18	10YR 4/6	100						Silt Loam	Signine	Jani dun and	icai iillei	
0-10			· <del></del>					- Silt LOAIII	-			
			·						-			
	-											
								·				
								·				
Tunou C. Ci	anaphration D. Day	lation DM D	Mot	iv CC Cavar		tod Cond C		21 04	otion. D	I Dava Linir	~ M Mot	wis.
	oncentration, D= Depoint of the Depointment of the					teu Sanu G	iairis.	Indicators for Pro		L=Pore Linir	•	IIX.
-	sol (A1)			idy Redox (S5				2 cm Muck		o riyano oo		
	Epipedon (A2)			oped Matrix (S	•			Red Paren	` '	L/TE2\		
	Histic (A3)			my Mucky Mir	•	(except MI	DIA 1)			Surface (TF1	2)	
	gen Sulfide (A4)			my Gleyed Ma		(except ML	nLA I)	Other (Exp		·•	۷)	
	ted Below Dark Surf	aca (Δ11)		oleted Matrix (				— Other (Exp	allillille	iliaiks)		
	Dark Surface (A12)	ace (ATT)		lox Dark Surfa				<sup>3</sup> Indicators of hy	drophytic	vegetation :	and	
	/ Mucky Mineral (S1)			oleted Dark Su		١		wetland hydrol		-	a io	
	/ Gleyed Matrix (S4)			lox Depressio	` '	,		unless disturbe		-		
	Layer (if present):									olomatio.		
Type:												
Type.			_					Hardela Call Bua		V	No	
Donth	(inches):								200+2			~
Remarks: Sample plot l	acks hydric soil indic	ators.	_					Hydric Soil Pre	sent?	Yes	NO	X
Remarks: Sample plot li	acks hydric soil indic							Hydric Soll Pre	sent?	Yes	INU	X
Remarks: Sample plot le  HYDROLO  Wetland Hy  Primary Ind	acks hydric soil indic  OGY  ydrology Indicators dicators (minimum of	:		,				Secondary Indic	ators (2 c	or more requ	ired)	X
Remarks: Sample plot li  HYDROLO  Wetland Hy  Primary Ind  Surface	acks hydric soil indic  OGY ydrology Indicators dicators (minimum of	:	Wat	ter-Stained Le		(except		Secondary Indic	<i>ators (2 d</i> ned Leav	_	ired)	X
Remarks: Sample plot li  HYDROLO  Wetland Hy  Primary Ind  Surface	acks hydric soil indic  OGY  ydrology Indicators dicators (minimum of	:	Wat	,		(except		Secondary Indic	ators (2 c ned Leav	or more requ es (B9) ( <b>MR</b>	ired)	X
HYDROLO Wetland Hy Primary Ind Surface High V	acks hydric soil indicators  ydrology Indicators dicators (minimum of the Water (A1)  Nater Tables (A2) ation (A3)	:	Wat N Salt	ter-Stained Le	a, and 4B)			Secondary Indic Water Stain 4A, and Drainage P	ators (2 ded Leav 4B) atterns (l	or more requ es (B9) ( <b>MR</b> B10)	ired)	X
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water	acks hydric soil indicators  ydrology Indicators dicators (minimum of the Water (A1)  Water Tables (A2) ation (A3)  Marks (B1)	:	Wate Wate Wate No. 1975 Wate N	ter-Stained Le IRLA 1, 2, 4A Crust (B11) Latic Invertebra	ates (B13)	)		Secondary Indic Water Stair 4A, and Drainage P	ators (2 c ned Leav <b>4B</b> ) atterns (l	or more requeses (B9) (MRB10)	ired) LA 1, 2,	X
HYDROLO Wetland Hy Primary Ind Surfac High V Satura Water Sedim	acks hydric soil indicators ydrology Indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) ment Deposits (B2)	:	Wate No. 1 N	ter-Stained Le IRLA 1, 2, 4A Crust (B11) latic Invertebra Irogen Sulfide	<b>a, and 4B</b> ) ates (B13) Odor (C1	)		Secondary Indic Water Stair 4A, and Drainage P Dry-Seasor Saturation	ators (2 d ned Leav <b>4B</b> ) atterns (I n Water T	or more requ es (B9) ( <b>MR</b> B10) Γable (C2) n Aeriel Imag	ired) LA 1, 2,	X
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D	acks hydric soil indicators  dicators (minimum of the Water (A1))  Water Tables (A2)  ation (A3)  Marks (B1)  ment Deposits (B2)  Deposits (B3)	:	Wate No. 1 No. 2 N	ter-Stained Le IRLA 1, 2, 4A : Crust (B11) latic Invertebra Irogen Sulfide dized Rhizosp	ates (B13) Odor (C1 Oheres alor	) ) ng Living Ro	pots (C3)	Secondary Indic Water Stain 4A, and Drainage F Dry-Season Saturation Geomorphi	ators (2 de ned Leav 4B) atterns (len Water Touristele on Visible on c Positio	es (B9) ( <b>MR</b> B10) Fable (C2) In Aeriel Imag	ired) LA 1, 2,	X
HYDROLO  Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal	acks hydric soil indicators  ydrology Indicators dicators (minimum of the Water (A1)  Water Tables (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3)  Mat or Crust (B4)	:	Wating Wa	ter-Stained Le IRLA 1, 2, 4A Crust (B11) Latic Invertebra Irogen Sulfide dized Rhizosp sence of Redu	ates (B13) Odor (C1 Oheres alou uced Iron	) ) ng Living Ro (C4)		Secondary Indic Water Stain 4A, and Drainage F Dry-Season Saturation Geomorphi Shallow Ac	ators (2 c ned Leav 4B) atterns (I n Water 1 Visible or c Positio uitard (D	es (B9) (MR B10) Fable (C2) In Aeriel Imag In (D2)	ired) LA 1, 2,	X
HYDROLO Wetland Hy Primary Ind Surface High N Satura Water Sedim Drift D Algal I	acks hydric soil indicators ydrology Indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	:	Wat  N Salt Aqu Hyc Oxic Pre	ter-Stained Lean IRLA 1, 2, 4A Crust (B11) Leatic Invertebration Sulfide dized Rhizospasence of Reducent Iron Reducert Iron Redu	ates (B13) Odor (C1 Oheres alou uced Iron oution in Ti	) ) ng Living Ro (C4) illed Soils (C	26)	Secondary Indic Water Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac	ators (2 content Leave 4B) atterns (In Water Toursible or content (Double 1 al Test (Eal Test (E	es (B9) (MR B10) Fable (C2) n Aeriel Imag n (D2) 3)	ired) LA 1, 2,	X
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface	acks hydric soil indicators ydrology Indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6)	: one required;	Wat  N Salt Aqu Hyc Oxic Pre- Rec Stur	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) latic Invertebra Irogen Sulfide dized Rhizosp sence of Redu cent Iron Redu Inted or Stress	ates (B13) Odor (C1 oheres alou uced Iron o uction in Ti	) ng Living Ro (C4) illed Soils (C	26)	Secondary Indic Water Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac FAC-Neutr	ators (2 content Leave 4B) atterns (In Water To Visible on the Content Content (December 2) with the content (December 2) and the co	or more requies (B9) (MR B10) Γable (C2) n Aeriel Imag n (D2) 3) D5) (D6) (LRR M	ired) LA 1, 2,	X
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda	acks hydric soil indicators  dicators (minimum of the Water (A1)  Water Tables (A2)  ation (A3)  Marks (B1)  ment Deposits (B2)  Deposits (B3)  Mat or Crust (B4)  Deposits (B5)  De Soil Cracks (B6)  ation Visible on Aeric	: one required;	Wate No. 10 No.	ter-Stained Lean IRLA 1, 2, 4A Crust (B11) Leatic Invertebration Sulfide dized Rhizospasence of Reducent Iron Reducert Iron Redu	ates (B13) Odor (C1 oheres alou uced Iron o uction in Ti	) ng Living Ro (C4) illed Soils (C	26)	Secondary Indic Water Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac	ators (2 content Leave 4B) atterns (In Water To Visible on the Content Content (December 2) with the content (December 2) and the co	or more requies (B9) (MR B10) Γable (C2) n Aeriel Imag n (D2) 3) D5) (D6) (LRR M	ired) LA 1, 2,	
HYDROLO Wetland Hy Primary Ind Surface High N Satura Water Sedim Drift D Algal I Iron D Surface Inunda	acks hydric soil indicators ydrology Indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) the Soil Cracks (B6) ation Visible on Aeric ley Vegetated Conca	: one required;	Wate No. 10 No.	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) latic Invertebra Irogen Sulfide dized Rhizosp sence of Redu cent Iron Redu Inted or Stress	ates (B13) Odor (C1 oheres alou uced Iron o uction in Ti	) ng Living Ro (C4) illed Soils (C	26)	Secondary Indic Water Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac FAC-Neutr	ators (2 content Leave 4B) atterns (In Water To Visible on the Content Content (December 2) with the content (December 2) and the co	or more requies (B9) (MR B10) Γable (C2) n Aeriel Imag n (D2) 3) D5) (D6) (LRR M	ired) LA 1, 2,	<u></u>
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars	acks hydric soil indicators ydrology Indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6) ation Visible on Aeric ley Vegetated Conce	: one required; ol Imagery (B	Wat   Name	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) latic Invertebra Irogen Sulfide dized Rhizosp sence of Redu sent Iron Redu nted or Stress er (Explain in	ates (B13) Odor (C1 oheres alou uced Iron o uction in Ti	) ng Living Ro (C4) illed Soils (C	26)	Secondary Indic Water Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac FAC-Neutr	ators (2 content Leave 4B) atterns (In Water To Visible on the Content Content (December 2) with the content (December 2) and the co	or more requies (B9) (MR B10) Γable (C2) n Aeriel Imag n (D2) 3) D5) (D6) (LRR M	ired) LA 1, 2,	X
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse	acks hydric soil indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6) ation Visible on Aeric ley Vegetated Concatervations: ater Present? Yes	: one required; el Imagery (B ve Surface (B	Wat   Name	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) Latic Invertebrations Irogen Sulfide dized Rhizospa sence of Redu Lent Iron Redu- Lent Iron	ates (B13) Odor (C1 oheres alou uced Iron o uction in Ti	) ng Living Ro (C4) illed Soils (C	26)	Secondary Indic Water Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac FAC-Neutr	ators (2 content Leave 4B) atterns (In Water To Visible on the Content Content (December 2) with the content (December 2) and the co	or more requies (B9) (MR B10) Γable (C2) n Aeriel Imag n (D2) 3) D5) (D6) (LRR M	ired) LA 1, 2,	
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Wa Water Table	acks hydric soil indicators  dicators (minimum of the Water (A1)  Water Tables (A2)  ation (A3)  Marks (B1)  ment Deposits (B2)  Deposits (B3)  Mat or Crust (B4)  Deposits (B5)  De Soil Cracks (B6)  ation Visible on Aeric  ley Vegetated Concatervations:  ater Present? Yes  e Present? Yes	: one required; el Imagery (B ave Surface (B	Wat   N   Salt   Aqu   Hyc   Oxic   Pre:   Rec   Stui   Oth   8)   X   Dep   X   Dep	der-Stained Lean IRLA 1, 2, 4A control Crust (B11) attice Invertebration Sulfider dized Rhizospasence of Reducted Iron Redunted or Stresser (Explain in both (inches):	ates (B13) Odor (C1 oheres alou uced Iron o uction in Ti	) ng Living Ro (C4) illed Soils (C	C6) <b>A</b> )	Secondary Indice Water Stain 4A, and Drainage P Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav	ators (2 c ned Leav 4B) atterns (I n Water 7 Visible or c Positio uitard (D al Test (I Mounds e Humm	es (B9) (MR B10) Fable (C2) In Aeriel Imag In (D2) 3) D5) (D6) (LRR /	ired) LA 1, 2, gery (C9)	-
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Wa Water Table Saturation	acks hydric soil indicators (winding and acks hydric soil indicators (winding and acks) and acks (Marks (Ma	: one required; el Imagery (B ve Surface (B	Wat   N   Salt   Aqu   Hyc   Oxic   Pre:   Rec   Stui   Oth   8)   X   Dep   X   Dep	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) Latic Invertebrations Irogen Sulfide dized Rhizospa sence of Redu Lent Iron Redu- Lent Iron	ates (B13) Odor (C1 oheres alou uced Iron o uction in Ti	) ng Living Ro (C4) illed Soils (C	C6) <b>A</b> )	Secondary Indic Water Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac FAC-Neutr	ators (2 c ned Leav 4B) atterns (I n Water 7 Visible or c Positio uitard (D al Test (I Mounds e Humm	es (B9) (MR B10) Γable (C2) n Aeriel Imag n (D2) 3) D5) (D6) (LRR M	ired) LA 1, 2,	
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Wa Water Table Saturation I (includes ca	acks hydric soil indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6) ation Visible on Aeric ley Vegetated Concatervations: ater Present? Present? Yes apillary fringe)	el Imagery (B ave Surface (B	Wat   N   Salt   Aqu   Hyc   Oxic   Pre:   Rec   Stur   Oth   8)   X   Dep	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) latic Invertebrations Sulfide dized Rhizospasence of Redu- tent Iron Redu- lated or Stressaler (Explain in Incompany)	ates (B13) Odor (C1 Oheres alor uced Iron uction in Ti sed Plants Remarks)	ng Living Ro (C4) illed Soils (C (D1) ( <b>LRR</b>	C6) A) Wetlan	Secondary Indice Water Stain 4A, and Drainage P Dry-Season Saturation Geomorphi Shallow Act FAC-Neutr Raised Ant Frost-Heav	ators (2 c ned Leav 4B) atterns (I n Water 7 Visible or c Positio uitard (D al Test (I Mounds e Humm	es (B9) (MR B10) Fable (C2) In Aeriel Imag In (D2) 3) D5) (D6) (LRR /	ired) LA 1, 2, gery (C9)	-
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Wa Water Table Saturation I (includes ca	acks hydric soil indicators (winding and acks hydric soil indicators (winding and acks) and acks (Marks (Ma	el Imagery (B ave Surface (B	Wat   N   Salt   Aqu   Hyc   Oxic   Pre:   Rec   Stur   Oth   8)   X   Dep	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) latic Invertebrations Sulfide dized Rhizospasence of Redu- tent Iron Redu- lated or Stressaler (Explain in Incompany)	ates (B13) Odor (C1 Oheres alor uced Iron uction in Ti sed Plants Remarks)	ng Living Ro (C4) illed Soils (C (D1) ( <b>LRR</b>	C6) A) Wetlan	Secondary Indice Water Stain 4A, and Drainage P Dry-Season Saturation Geomorphi Shallow Act FAC-Neutr Raised Ant Frost-Heav	ators (2 c ned Leav 4B) atterns (I n Water 7 Visible or c Positio uitard (D al Test (I Mounds e Humm	es (B9) (MR B10) Fable (C2) In Aeriel Imag In (D2) 3) D5) (D6) (LRR /	ired) LA 1, 2, gery (C9)	-
HYDROLO Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Wa Water Table Saturation I (includes ca	acks hydric soil indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6) ation Visible on Aeric ley Vegetated Concatervations: ater Present? Present? Yes apillary fringe)	el Imagery (B ave Surface (B	Wat   N   Salt   Aqu   Hyc   Oxic   Pre:   Rec   Stur   Oth   8)   X   Dep	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) latic Invertebrations and suffice dized Rhizospasence of Redu- sent Iron Redu- lated or Stressaler (Explain in and the control of the cont	ates (B13) Odor (C1 Oheres alor uced Iron uction in Ti sed Plants Remarks)	ng Living Ro (C4) illed Soils (C (D1) ( <b>LRR</b>	C6) A) Wetlan	Secondary Indice Water Stain 4A, and Drainage P Dry-Season Saturation Geomorphi Shallow Act FAC-Neutr Raised Ant Frost-Heav	ators (2 c ned Leav 4B) atterns (I n Water 7 Visible or c Positio uitard (D al Test (I Mounds e Humm	es (B9) (MR B10) Fable (C2) In Aeriel Imag In (D2) 3) D5) (D6) (LRR /	ired) LA 1, 2, gery (C9)	-
HYDROLO  Wetland Hy Primary Ind Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars  Field Obse Surface Wa Water Table Saturation I (includes ca	acks hydric soil indicators dicators (minimum of the Water (A1) Water Tables (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6) ation Visible on Aeric ley Vegetated Concatervations: ater Present? Present? Yes apillary fringe)	: one required; el Imagery (B ive Surface (B No No No gauge, monito	Wat  N Salt Aqu Hyc Oxic Pre Rec Stur Oth 8)  X Dep X Dep x Dep	ter-Stained Lea IRLA 1, 2, 4A Crust (B11) latic Invertebrations and suffice dized Rhizospasence of Redu- sent Iron Redu- lated or Stressaler (Explain in and the control of the cont	ates (B13) Odor (C1 Oheres alor uced Iron uction in Ti sed Plants Remarks)	ng Living Ro (C4) illed Soils (C (D1) ( <b>LRR</b>	C6) A) Wetlan	Secondary Indice Water Stain 4A, and Drainage P Dry-Season Saturation Geomorphi Shallow Act FAC-Neutr Raised Ant Frost-Heav	ators (2 c ned Leav 4B) atterns (I n Water 7 Visible or c Positio uitard (D al Test (I Mounds e Humm	es (B9) (MR B10) Fable (C2) In Aeriel Imag In (D2) 3) D5) (D6) (LRR /	ired) LA 1, 2, gery (C9)	-

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	te: 12/19/	2019		
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	int: SP FV	V V5		
Investigators: STORY, DANIELSKI			Section, Township,	Range: T21N R4E S	21			
Landform (hillslope, terrace, etc.): Channel		Local Rel	ief (concave, convex,	none): None		Slope	(%): 0	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2930	D34 Long	-122.306145	Datum:	WGS84			
Soil Map Unit Name: Alderwood gravelly sandy k	oam	_	NWI Classifi	cation: UPL				
Are climatic / hydrologic conditions on the site typi	cal for this time of	year? Ye	s X No	(If No, explain in Re	emarks)			
Are Vegetation: Soil or Hydrology	significantly d	isturbed?	Are "Normal Circur	nstances" present?	Yes	X	<u> </u>	o
Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain	any answers in Rema	arks.)			
SUMMARY OF FINDINGS - Attach a si	ite map showi	ng sampling	point locations	, transects, impe	ortant fe	eatur	es, etc.	
Hydrophytic Vegetation Present? Yes	No X							
Hydric Soil Present? Yes	No X	Is the	Sampled Area					
Wetland Hydrology Present? Yes	X No	withi	n a Wetland?	Yes			No X	
Remarks:		-						
Sample plot located in small side channel. Sample	plot has 1 of 3 we	etland criteria, is	not located in a wetla	nd.				
, , , , , , , , , , , , , , , , , , ,	,	,						
VEGETATION – Use scientific names	of plants.							
	Absolute	Dominant	Indicator	Dominance Test \		t:		
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominar	nt Species	;		
1.		-	_	That Are OBL, FAC	W, or FAC	<b>D</b> :	2	(A)
2.				Total Number of Do	minant	_		_
3.				Species Across All	Strata:		4	(B)
4.				Percent of Dominar	nt Species	_		_
		= Total Cover		That Are OBL, FAC	W, or FAC	D:	50	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index	workshee	t:		
1. Rubus armeniacus	20	Yes	FAC	Total % Cover of:		Multip	ly by:	
2. Rubus laciniatus	10	Yes	FACU	OBL species		x1=		
3.			_	FACW species		x2=	0	
4.				FAC species	60	x3= _	180	
5.				FACU species	20	x4=	80	
	30	= Total Cover	•	UPL species		.x5= _	0	_
Herb Stratum (Plot size: 1m)				Column Totals:	80	(A) _	260	_ (B)
1. Agrostis capillaris	40	Yes	FAC					
2. Pteridium aquilinum	10	Yes	FACU	Prevalence Inde			3.2	5
3			_	Hydrophytic Vege	tation Ind	icator	s:	
4				1 - Rapid Tes			Vegetation	on
5				2 - Dominano				
6.				3 - Prevalenc				
7.				4 - Morpholog	•		,	
8.					emarks or			sheet)
9.			_	5 - Wetland N				
10.				Problematic I				
11			<del>-</del>	¹Indicators of hydric				-
Moody Vino Stratum (Plat size: )	50	= Total Cover		must be present, ur	ness aistu	rbea o	r problem	alic.
Woody Vine Stratum (Plot size:)				Hydronbytic				
1.				Hydrophytic	Voc		do Y	
2		= Total Cover		Vegetation Present?	Yes	— '	√0 X	_
% Bare Ground in Herb Stratum 50		er of Biotic Crus	t	r resent?				
		TOT OF BIORIC OTUS						
Remarks: Sample plot does not meet dominance test or prev	alence index for h	ydrophytic veget	ation.					

Profile Descr	iption: (Describe to	the depth needs	ed to document the i	ndicator c	or confirm	the abse	ence of indicators.	)			
Depth	Matrix		Redo	ox Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Ren	narks	
0-9	10YR 3/2	100					Sandy Loam				
9-12	10YR 3/3	100					Sandy Loam	Gravell	y, compac	ted	
¹Type: C= Co	ncentration, D= Deple	etion, RM=Reduc	ed Matrix, CS=Cover	ed or Coat	ted Sand G	rains.	²Loc	ation: PL	_=Pore Lin	ing, M=Mat	ırix.
Hydric Soil Ir	ndicators: (Applicab	le to all LRRs, ι	ınless otherwise not	ted.)			Indicators for Pro	blematic	Hydric S	oils³:	
Histose	ol (A1)	_	Sandy Redox (S5	5)			2 cm Muck	(A10)			
Histic I	Epipedon (A2)	_	Stripped Matrix (S	S6)			Red Parent				
Black I	Histic (A3)	_	Loamy Mucky Mi	neral (F1)	(except ML	RLA 1)	Very Shallo	w Dark S	urface (TF	12)	
l — ' '	gen Sulfide (A4)	_	Loamy Gleyed M				Other (Expl	ain in Re	marks)		
·	ed Below Dark Surfac	ce (A11)	Depleted Matrix (	,							
	Dark Surface (A12)	_	Redox Dark Surfa	, ,			<sup>3</sup> Indicators of hyd		-		
	Mucky Mineral (S1)	_	Depleted Dark Su		1		wetland hydrol		-	t,	
	Gleyed Matrix (S4)	_	Redox Depressio	ns (F8)			unless disturbe	ed or prob	lematic.		
Restrictive	Layer (if present):										
Type:											
Depth	(inches):						Hydric Soil Pres	sent?	Yes _	No	X
Remarks:											
Sample plot la	acks hydric soil indicat	ors.									
HYDROLO	GY										
Wetland Hy	drology Indicators:										
_	cators (minimum of o	ne required; ched	ck all that apply)				Secondary Indic	ators (2 o	r more req	uired)	
	e Water (A1)		Water-Stained Le	aves (B9)	(except		Water Stair				-
X High W	Vater Tables (A2)	_	MRLA 1, 2, 4A	, and 4B)			4A, and	<b>4B</b> )			
X Satura	tion (A3)		Salt Crust (B11)				Drainage P	atterns (E	310)		
Water	Marks (B1)	_	Aquatic Invertebr	ates (B13)			Dry-Seasor	n Water T	able (C2)		
Sedim	ent Deposits (B2)	_	Hydrogen Sulfide	Odor (C1)	)		Saturation '	Visible on	Aeriel Ima	agery (C9)	
Drift D	eposits (B3)	_	Oxidized Rhizosp	heres alor	ng Living Ro	oots (C3)	Geomorphi	c Position	n (D2)		
Algal N	Mat or Crust (B4)	_	Presence of Redu	,	. ,		Shallow Aq	uitard (D3	3)		
	eposits (B5)	_	Recent Iron Redu				FAC-Neutra	al Test (D	5)		
	e Soil Cracks (B6)	_	Stunted or Stress		(D1) ( <b>LRR</b> /	<b>A</b> )	Raised Ant			A)	
	tion Visible on Aeriel	- · · · -	Other (Explain in	Remarks)			Frost-Heav	e Hummo	ocks (D7)		
Sparsl	ey Vegetated Concav	e Surface (B8)									
Field Obser											
	ter Present? Yes	_X_No	Depth (inches):		1.00						
Water Table		XNo	Depth (inches):		0.0	 					
Saturation F		No	Depth (inches): -		0.0	Wetland	d Hydrology Prese	ent?	Yes _	X No	
	pillary fringe)										
Describe Reco	orded Date (stream ga	auge, monitoring	well, aerial photos, pr	revious ins	pections), it	f availabl	e:				
Remarks:											
	ide channel, possibly	old roadbed. Flo	oded from recent rain	s. Sample	plot meets	primary I	hydrology indicators	s for surfa	ace water,	high water	table,
and saturation	1.										

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Date	e: 12/19/2019		
Applicant/Owner: Sound Transit		_	State: WA	Sampling Poin	t: SP FW V6		
Investigators: STORY, DANIELSKI		(	 Section, Township, F	ange: T21N R4E S2	1		
Landform (hillslope, terrace, etc.): Channel		Local Relie	f (concave, convex,	none): None	Slope	(%): 0	
Subregion (LRR): A	Lat: 47.2928	_	-122.307457		/GS84		
Soil Map Unit Name: Alderwood gravelly sandy loar	 n		NWI Classific	ation: UPL			
Are climatic / hydrologic conditions on the site typical	for this time of	year? Yes	X No	(If No, explain in Ren	narks)		
Are Vegetation: Soil or Hydrology	significantly di	sturbed?	Are "Normal Circum	stances" present?	Yes >	. N	0
Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain a	any answers in Remar	ks.)		
SUMMARY OF FINDINGS - Attach a site	_ map showi	ng sampling p	point locations,	transects, impo	rtant featur	es, etc.	
Hydrophytic Vegetation Present? Yes X	No No	T	,				
Hydric Soil Present? Yes	No X	Is the	Sampled Area				
Wetland Hydrology Present? Yes X	No No		a Wetland?	Yes		No X	
Remarks:							
Sample plot lacks hydric soil and is not located within VEGETATION – Use scientific names of		visit occurred out	side of growing seas	on.			
	Absolute	Dominant	Indicator	Dominance Test W	orksheet:		
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominant	Species		
Salix scouleriana	25	Yes	FAC	That Are OBL, FACV		3	(A)
2.				Total Number of Don	ninant –		_
3.				Species Across All S	trata:	5	(B)
4.				Percent of Dominant	Species		_
	25	= Total Cover		That Are OBL, FACV	V, or FAC:	60	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index w	orksheet:		
1. Rubus spectabilis	35	Yes	FAC	Total % Cover of:	<u>Multip</u>	ly by:	
2. Rubus ursinus	30	Yes	FACU	OBL species	x1=		
3. Rubus armeniacus	15	No	FAC	FACW species	x2=	0	_
4.				FAC species	95 x3=	285	
5.				FACU species	55 x4=	220	
	80	= Total Cover		UPL species	x5=	0	
Herb Stratum (Plot size: 1m)				Column Totals:	150 (A)	505	— (B)
1. Ranunculus repens	20	Yes	FAC	_	_		_
2. Pteridium aquilinum	20	Yes	FACU	Prevalence Index	x = B/A =	3.3	7
3. Polystichum munitum	5	No	FACU	Hydrophytic Vegeta	tion Indicator	s:	
4.				1 - Rapid Test	for Hydrophytic	Vegetation	on
5.				X 2 - Dominance	Test is >50%		
6.				3 - Prevalence	Index is ≤3.0¹		
7.				4 - Morphologi	cal Adaptations	<sup>1</sup> (Provide	)
8.				data in Re	marks or on a	separate s	heet)
9.				5 - Wetland No	n-Vascular Pla	ınts¹	
10.				Problematic H	ydrophytic Veg	etation¹ (E	xplain)
11.				<sup>1</sup> Indicators of hydric s	soil and wetland	d hydrolog	у
	45	= Total Cover		must be present, unle	ess disturbed o	r problema	atic.
Woody Vine Stratum (Plot size:)							
1.				Hydrophytic			
2.				Vegetation	Yes X	No	_
		= Total Cover		Present?			_
% Bare Ground in Herb Stratum 25		er of Biotic Crust					
Pomarke:							

Sample plot meets dominance test but not prevalence index for hydrophytic vegetation. Hydrophytic species found in plot are primarily deep-rooted tree and shrub species that have access to a deeper water table.

Profile Descr	iption: (Describe to	the depth need	ded to document the	indicator o	or confirm	the abse	nce of indicators.	)			
Depth	Matrix		Red	ox Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remark	(S	
0-9	10YR 3/2	100					Sandy Loam				
9-12	10YR 3/3	100					Sandy Loam	Gravelly			
								-			
	•		uced Matrix, CS=Cover		ted Sand G				Pore Lining,		ix.
_		le to all LRRs,	unless otherwise no	ted.)			Indicators for Pro	blematic H	lydric Soils	3:	
— Histose		-	Sandy Redox (S	5)			2 cm Muck				
	Epipedon (A2)	-	Stripped Matrix (	,			Red Parent				
	Histic (A3)	-	Loamy Mucky Mi		(except ML	RLA 1)			face (TF12)		
l — ' '	gen Sulfide (A4)	-	Loamy Gleyed M	, ,			Other (Expl	ain in Rema	arks)		
·	ed Below Dark Surfac	e (A11)	Depleted Matrix (				31	dan and based as a second		.1	
	Dark Surface (A12)	-	Redox Dark Surf	, ,	•		<sup>3</sup> Indicators of hyd		•	a	
	Mucky Mineral (S1) Gleyed Matrix (S4)	-	Depleted Dark Si Redox Depression		)		wetland hydrol unless disturbe		•		
	. ,	-	—— nedox Depressio	115 (1 6)			uriless disturbe	d of proble	manc.		
	Layer (if present):										
Type:	(inches):						Uvdrie Ceil Dre		/oo	No	V
	(inches):						Hydric Soil Pres	sent?	/es 	No	X
Remarks:											
Sample plot la	ıcks hydric soil indicat	ors.									
HYDROLO	GY										
	drology Indicators:										
_	cators (minimum of o	ne required; che	eck all that apply)				Secondary Indica	ators (2 or n	more require	ed)	
	e Water (A1)		Water-Stained Le	eaves (B9)	(except				(B9) ( <b>MRL</b> A		
	Vater Tables (A2)	-	MRLA 1, 2, 4 <i>A</i>		•		4A, and		, , ,		
X Satura	tion (A3)		Salt Crust (B11)				Drainage P	atterns (B10	0)		
Water	Marks (B1)	-	Aquatic Invertebr	ates (B13)	)		Dry-Seasor	n Water Tab	ole (C2)		
Sedim	ent Deposits (B2)	_	Hydrogen Sulfide	Odor (C1	)		Saturation	Visible on A	eriel Imagei	y (C9)	
Drift D	eposits (B3)		Oxidized Rhizosp	oheres alor	ng Living Ro	oots (C3)	Geomorphi	c Position (I	D2)		
Algal N	Mat or Crust (B4)		Presence of Red	uced Iron (	(C4)		Shallow Aq	uitard (D3)			
	eposits (B5)	-	Recent Iron Red				FAC-Neutra	al Test (D5)			
	e Soil Cracks (B6)	-	Stunted or Stress			<b>A</b> )	Raised Ant	•	, ,		
	tion Visible on Aeriel	- · · · · -	Other (Explain in	Remarks)			Frost-Heav	e Hummock	ks (D7)		
Sparsl	ey Vegetated Concav	e Surface (B8)									
Field Obser											
Surface Wa		No	X Depth (inches):								
Water Table		X No _	Depth (inches):		1.0		d Handra I. and Barra		/ V	NI.	
Saturation F		_X_No _	Depth (inches):		0.0	wetland	d Hydrology Prese	ent? Y	res X	_ No	
	pillary fringe)										
Describe Reco	orded Date (stream ga	auge, monitorin	g well, aerial photos, p	revious ins	spections), i	f availabl	e:				
Remarks:											
Sample plot m	neets primary hydrolog	gy indicators for	saturation and high w	ater table.							

South Tame       South Tame         State         State       State       State       State       State       State       State       State       State       State       State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State     State   State     State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   Stat	Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ate: 12/19	/2019		
Landborn   Millslape, terrace, test;   Flat	Applicant/Owner: Sound Transit			State: WA	Sampling Po	oint: SP FV	N V7		
Subsequent   Late   37.291878   Long   123.307533   Datum:   WGSB4   VERT   V	Investigators: Danielski, Story			Section, Township,	Range: T21N R4E S	21			
Note   Map Unit Name   Adderwood gravely sandy learn   Note   N	Landform (hillslope, terrace, etc.): Flat		Local Reli	ief (concave, convex	, none): None		Slope	(%): 0	
Are clamatic   hydrologic conditions on the site spical for this time of year?   Yes   X   No	Subregion (LRR): A	Lat: 47.2918	<u> </u>	: -122.307533	Datum:	WGS84	•		
Ava Vegetation   Soil	Soil Map Unit Name: Alderwood gravelly sandy loa	<u></u> am		NWI Classifi	cation: UPL				
Solition   Solition	Are climatic / hydrologic conditions on the site typica	al for this time of	year? Yes	s X No	(If No, explain in Ro	emarks)			
SUMMARY OF FINDINGS - Attach a site map showing sampling point locations, transects, important features, etc.   Hydrophytic Vegetation Present?   Yes	Are Vegetation: Soil or Hydrology	significantly d	isturbed?	Are "Normal Circur	nstances" present?	Yes	Х	C N	lo
Hydric Soli   Present?   Yes   X   No   Within a Wetland Pythoriogy Present?   Yes   X   No   Within a Wetland Pythoriogy Present?   Yes   X   No   Within a Wetland Pythoriogy Present?   Yes   X   No   X   Within a Wetland Pythoriogy Present?   Yes   X   No   X   Within a Wetland Pythoriogy Present?   Yes   X   No   X   Within a Wetland?   Yes   X   No   X   Within	Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain	any answers in Rem	arks.)			
No   No   No   No   No   No   No   No	SUMMARY OF FINDINGS - Attach a sit	— e map showi	ng sampling	point locations	, transects, imp	ortant fo	eatur	es, etc.	
Welland Hydrology Present?   Yes   X   No     Within a Welland?   Yes   No   X	Hydrophytic Vegetation Present? Yes X	( No							
Westland Hydrology Present?   Yes   X   No	Hydric Soil Present? Yes	NoX	Is the	Sampled Area					
Sample plot has 2 of 3 wetland indicators. Sample plot lacks hydric soil and is not located in a wetland. Site visit occurred outside of growing season.	Wetland Hydrology Present? Yes X		withi	n a Wetland?	Yes			No X	
Sample plot has 2 of 3 wetland indicators. Sample plot lacks hydric soil and is not located in a wetland. Site visit occurred outside of growing season.	Pomorko						•		
Note	Sample plot has 2 of 3 wetland indicators. Sample p		soil and is not loc	ated in a wetland. Si	te visit occurred outsi	de of grow	ving sea	ason.	
Time   Statum   (Plot size: 5m)   % Cover   Species?   Status   Number of Dominant Species   Name of	VEGETATION – Ose scientific flames c	· · · · · · · · · · · · · · · · · · ·	Dominant	Indicator	Deminance Test	Waykahaa			
1.   Populus balsamifera	Trop Statum (Plot cize: 5m)								
2. Thuja plicata 10 Yes FAC Total Number of Dominant Species Aross All Strata: 5 (8) 4.	,				.			2	<b>(A)</b>
Species Across All Strata:   5   8	<u> </u>				•		J. <b>–</b>		— <sup>(A)</sup>
			165		.			5	(B)
Sapling/Shrub Stratum   (Plot size: 3m)   Factor   Fact				_	·   '		_		<b>—</b> (B)
Sapiracion   Stratum   (Plot size: 3m)   1.   Spiraca douglasii   50   Yes   FACW   Total % Cover of:   Multiply by:   1.   Spiraca douglasii   10   No   FAC   OBL species   11   Spiraca douglasii   10   No   FAC   OBL species   11   Spiraca   10   Spiraca   Spira	4.		Total Cover	<del>.</del>	.	•		60	/ <b>/</b> / <b>D</b> \
1. Spiraea douglasii 50 Yes FACW   Total % Cover of:   Multiply by:   Spiraea douglasii   10 No FAC   OBL species   11   10   10   10   10   10   10   1	Sonling/Shrub Stratum (Plat size: 2m)		= Total Cover						(A/b)
2. Rubus spectabilis 10 No FAC OBL species x1=  3.		50	Voo	EACW		worksnee		dy by:	
Section   Sec					•			<u>ly Dy.</u>	
FAC species   35   x3   105   FACU species   10   x4   40   40   40   40   40   40   4	·			_ <u> </u>	.			100	_
FACU species   10					.				_
Herb Stratum (Plot size: 1m)   Hedera helix   5   Yes   FACU   Prevalence Index = B/A =   2.58     1.   Hedera helix   5   Yes   FACU   Prevalence Index = B/A =   2.58     3.   Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation     5   Yes   FACU   Prevalence Index = B/A =   2.58     8   Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation     6				_	.				_
Helder Allelix   5   Yes   FACU   Prevalence Index = B/A =   2.58	o		Total Cover	<del>.</del>	.				_
1. Hedera helix       5       Yes       FACU       Prevalence Index = B/A = 2.58         2. Polystichum munitum       5       Yes       FACU       Prevalence Index = B/A = 2.58         3	Harb Stratum (Plat aiza: 1m)		= Total Cover						— <sub>(B)</sub>
2. Polystichum munitum       5       Yes       FACU       Prevalence Index = B/A=       2.58         3. Hydrophytic Vegetation Indicators:         4. A. Sapid Test for Hydrophytic Vegetation         5. Sapid Test for Hydrophytic Vegetation         5. Sapid Test for Hydrophytic Vegetation         5. Sapid Test for Hydrophytic Vegetation         X 2 - Dominance Test is >50%         X 3 - Prevalence Index is ≤3.0¹         4 - Morphological Adaptations¹ (Provide data in Remarks or on a separate sheet)         9. Sapid Test for Hydrophytic Vegetation¹ (Explain)         10. Problematic Hydrophytic Vegetation¹ (Explain)         11. Problematic Hydrophytic Vegetation¹ (Explain)         11. Problematic Hydrophytic Vegetation Indicators         Woody Vine Stratum (Plot size:)       Total Cover         Wegetation Yes X No       Present?         Yegetation Yes X No       Present?		5	Voc	EACH	Column Totals.		- (^) –		<b>—</b> (B)
### Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  5					. Provalence Inc	lov - R/A-		2.5	:ο
1 - Rapid Test for Hydrophytic Vegetation   X 2 - Dominance Test is >50%			163						
X 2 - Dominance Test is >50%				_					on
X 3 - Prevalence Index is ≤3.0¹   7.   4 - Morphological Adaptations¹ (Provide data in Remarks or on a separate sheet)   8.   5 - Wetland Non-Vascular Plants¹   10.   Problematic Hydrophytic Vegetation¹ (Explain)   11.   1   1   1   1   1   1   1   1				_	· <del></del>			, vegetatit	011
7.				_	. ——				
8. data in Remarks or on a separate sheet) 9. 5 - Wetland Non-Vascular Plants¹ 10. Problematic Hydrophytic Vegetation¹ (Explain) 11. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Woody Vine Stratum (Plot size:) 1. Hydrophytic 2. Hydrophytic Vegetation Yes X No Present?				_	· <del></del>			e¹ (Provide	2
9				_	· <del></del>			,	
10. Problematic Hydrophytic Vegetation¹ (Explain)  11. Indicators of hydric soil and wetland hydrology  10 = Total Cover  Woody Vine Stratum (Plot size:)  1. Hydrophytic  2. Hydrophytic  Vegetation Yes X No  = Total Cover  % Bare Ground in Herb Stratum 90 % Cover of Biotic Crust				_	•				ineet)
11					. ——				(volain
Moody Vine Stratum (Plot size: )  1. Hydrophytic  2. Hogetation Yes X No  = Total Cover % Bare Ground in Herb Stratum 90 % Cover of Biotic Crust  must be present, unless disturbed or problematic.  Hydrophytic  Vegetation Yes X No  Present?				_	· <b> </b>		_		
Woody Vine Stratum (Plot size: )           1.         Hydrophytic           2.         Vegetation         Yes X No           = Total Cover         Present?           % Bare Ground in Herb Stratum         90         % Cover of Biotic Crust	'''	10	- Total Cover	<del>.</del>	•				
1. Hydrophytic 2. Vegetation Yes X No = Total Cover % Bare Ground in Herb Stratum 90 % Cover of Biotic Crust	Woody Vine Stratum (Plot size: )		- TOTAL COVEL		must be present, u	riicaa uiall	Dea 0	PLODIELLI	ullo.
2. Vegetation Yes X No = Total Cover	,				Hydrophytic				
= Total Cover % Bare Ground in Herb Stratum 90 % Cover of Biotic Crust				_	.	Vec	ΥN	No.	
% Bare Ground in Herb Stratum 90	<u> </u>		- Total Cover	_	·   -	163		· —	_
	% Bare Ground in Herb Stratum 90	% Co							
					. [				

Sample plot meets dominance test and prevalence index for hydrophytic vegetation. Hydrophytic species found in plot are primarily deep-rooted tree and shrub species that have access to a deeper water table.

0-9 9-14 14-16	Color (moist)		D-	day Faatiwa		the abse	ence of indicators.)	
0-9 9-14				dox Feature:		12	<b>- - - - - - - - - -</b>	Demonder
9-14	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	10YR 3/2	100					Sandy Loam	
14-16	10YR 3/3	100					Sandy Loam	
	10YR 4/3	100					Sandy Loam	
			-				<u> </u>	
							<u> </u>	
		<u> </u>						
<sup>1</sup> Type: C= Cor	ncentration, D= De	epletion, RM=Re	educed Matrix, CS=Cove	ered or Coat	ed Sand G	rains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil In	dicators: (Applic	able to all LRR	s, unless otherwise n	oted.)			Indicators for Problem	atic Hydric Soils³:
Histoso	ol (A1)		Sandy Redox (S	S5)			2 cm Muck (A10)	
Histic E	Epipedon (A2)		Stripped Matrix	(S6)			Red Parent Mate	rial (TF2)
Black F	Histic (A3)		Loamy Mucky N	lineral (F1)	(except ML	RLA 1)	Very Shallow Da	rk Surface (TF12)
Hydrog	gen Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Other (Explain in	Remarks)
Deplete	ed Below Dark Su	face (A11)	Depleted Matrix	(F3)				
Thick D	Dark Surface (A12)	)	Redox Dark Su	face (F6)			<sup>3</sup> Indicators of hydrophy	tic vegetation and
Sandy	Mucky Mineral (S	1)	Depleted Dark S	Surface (F7)			wetland hydrology m	oust be present,
Sandy	Gleyed Matrix (S4	)	Redox Depress	ions (F8)			unless disturbed or p	problematic.
Restrictive !	Layer (if present)	,:						
Type:			_					
Depth (	(inches):		_				Hydric Soil Present?	Yes No X
-	drology Indicator							(0)
	,	f one required; o	check all that apply)	(50)	, .		Secondary Indicators	· · · · · · · · · · · · · · · · · · ·
	e Water (A1)		Water-Stained I		(except			eaves (B9) ( <b>MRLA 1, 2,</b>
	/ater Tables (A2)		MRLA 1, 2, 4	·			4A, and 4B)	(D40)
	tion (A3)		Salt Crust (B11)				Drainage Pattern	,
	Marks (B1)		Aquatic Inverteb				Dry-Season Water	
	ent Deposits (B2)		— Hydrogen Sulfic			t- (CO)		e on Aeriel Imagery (C9)
	eposits (B3)		Oxidized Rhizos  Presence of Re	-	-	bois (C3)	· <del></del>	, ,
	Mat or Crust (B4)		Recent Iron Rec	`	,	C6)	Shallow Aquitard FAC-Neutral Tes	
	eposits (B5) e Soil Cracks (B6)		Stunted or Street		,		Raised Ant Mour	` '
	tion Visible on Aer	riel Imagery (R	Other (Explain i		(DT) (ERR	<b>A</b> )	Frost-Heave Hun	, , , , ,
	ev Vegetated Con	• • •		ii Neiliaiks)				illilocks (D1)
Field Obser	, ,							
i iciu Obsei		es No	X Depth (inches):					
Surface Water			Depth (inches):		5.0			
Surface Water			Depth (inches):		1.0	Wetlan	nd Hydrology Present?	Yes X No
Water Table		<u> </u>						<u> </u>
Water Table Saturation P	pillary fringe)							
Water Table Saturation P (includes cap	pillary fringe)		ring well aerial photos	nravialle inc	nactione) i	f availah	مام٠	
Water Table Saturation P (includes cap		n gauge, monito	ring well, aerial photos,	previous ins	pections), i	f availab	ole:	
Water Table Saturation P (includes cap		n gauge, monito	ring well, aerial photos,	previous ins	pections), i	f availab	ole:	
Water Table Saturation Pi (includes cap Describe Reco	orded Date (strean						es for saturation and high	water table.

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Date	: 12/19/2019	9	
Applicant/Owner: Sound Transit		_	State: WA	Sampling Point	: SP FW V8	}	
nvestigators: Danielski, Story			Section, Township,	Range: T21N R4E S21			
andform (hillslope, terrace, etc.): Flat		Local Rel	ief (concave, convex	, none): None	Slop	oe(%): 0	
Subregion (LRR): A	Lat: 47.292	641 Long	-122.307724	Datum: W	GS84		
Soil Map Unit Name: Alderwood gravelly sandy	loam		NWI Classifi	cation: UPL			
Are climatic / hydrologic conditions on the site ty	oical for this time of	year? Yes	s_XNo	_ (If No, explain in Rem	arks)		
Are Vegetation: Soil or Hydrology	significantly o	disturbed?	Are "Normal Circur	nstances" present?	Yes	X N	°
Are Vegetation: Soil or Hydrology				any answers in Remark			
SUMMARY OF FINDINGS - Attach a	site map show	ing sampling	point locations	, transects, impor	tant featu	ıres, etc.	
Hydrophytic Vegetation Present? Yes	X No						
Hydric Soil Present? Yes	No X	Is the	Sampled Area				
Vetland Hydrology Present? Yes	No X	withi	n a Wetland?	Yes _		No X	
Remarks:							
Sample plot has 1 of 3 wetland indicators and is	not located in a we	tland.					
/EGETATION – Use scientific name	s of plants.						
	Absolute	Dominant	Indicator	Dominance Test We	orksheet:		
ree Statum (Plot size: 5m)	% Cover	Species?	Status	Number of Dominant	Species		
. Populus balsamifera	40	Yes	FAC	That Are OBL, FACW	, or FAC:	4	(A)
2. Alnus rubra	20	Yes	FAC	Total Number of Dom	inant		_
3.				Species Across All St	rata:	5	(B)
ı.			_	Percent of Dominant	Species		_
	60	= Total Cover		That Are OBL, FACW	, or FAC:	100	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index wo	orksheet:		
. Rubus armeniacus	10	Yes	FAC	Total % Cover of:	<u>Mul</u>	tiply by:	
2. Prunus occidentalis	7	Yes		OBL species	x1=		_
3.	_			FACW species	x2=	0	_
l	_		_	FAC species	130 x3=	390	
5.				FACU species	x4=	0	_
	17	= Total Cover		UPL species	x5=	0	_
Herb Stratum (Plot size: 1m)				Column Totals:	130 (A)	390	_ (B)
. Ranunculus repens	60	Yes	_ FAC				
2				Prevalence Index		3.0	0
3. 				Hydrophytic Vegeta			
l				1 - Rapid Test		_	on
). 	_		_	X 2 Dominance			
j				X 3 - Prevalence			
				4 - Morphologic			
3.				5 - Wetland No	marks or on a		neet)
0.				Problematic Hy			volain)
1.			_	¹Indicators of hydric s			
l I •			_	·			
		- Total Cover	•			or problem	alic.
Moody Vine Stratum (Plot size: )	60	= Total Cover	•	must be present, unle	ss disturbed		
Noody Vine Stratum (Plot size: )	60	= Total Cover		·	ss disturbed		
Noody Vine Stratum (Plot size: )	60	= Total Cover		Hydrophytic		No	
Noody Vine Stratum (Plot size: )	60		<u> </u>	Hydrophytic Vegetation	Yes X	No	_
Noody Vine Stratum (Plot size:)  2.  8 Bare Ground in Herb Stratum 40		= Total Cover  = Total Cover ver of Biotic Crus		Hydrophytic		No	_

Profile Desci	ription: (Describ	e to the depth no	eded to	document the i	indicator c	or confirm	the abse	ence of indicators.)	-			
Depth	M	atrix		Rede	ox Feature	s						
(inches)	Color (moist	:) %	C	olor (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remark	s	
	-											
¹Type: C= Co	oncentration, D=	Depletion, RM=R	educed M	latrix, CS=Cover	ed or Coat	ed Sand G	rains.	²Locati	on: PL=Po	ore Lining,	M=Matr	ix.
Hydric Soil I	ndicators: (App	licable to all LRF	Rs, unles	s otherwise no	ted.)			Indicators for Proble	matic Hy	dric Soils³	:	
Histos	sol (A1)			Sandy Redox (St	5)			2 cm Muck (A	10)			
Histic	Epipedon (A2)			Stripped Matrix (	S6)			Red Parent Ma	aterial (TF	2)		
	Histic (A3)			₋oamy Mucky Mi		(except ML	RLA 1)	Very Shallow I				
	gen Sulfide (A4)			_oamy Gleyed M				Other (Explain	in Remar	ks)		
l ——	ted Below Dark S	` '		Depleted Matrix (								
	Dark Surface (A			Redox Dark Surfa				<sup>3</sup> Indicators of hydro			l	
	Mucky Mineral (	•		Depleted Dark Su				wetland hydrology				
	Gleyed Matrix (	*		Redox Depressio	ons (F8)			unless disturbed o	or problem	atic.		
	Layer (if prese	nt):										
Type:									_			
Depth	(inches):		_					Hydric Soil Preser	it? Ye	es	_ No	X
HYDROLO	OGY											
Wetland Hy	ydrology Indica	tors:										
Primary Ind	licators (minimun	of one required;	check all	that apply)				Secondary Indicato				
	ce Water (A1)		'	Water-Stained Le	` '	(except		Water Stained	,	39) ( <b>MRLA</b>	1, 2,	
	Water Tables (A2	)		MRLA 1, 2, 4A	A, and 4B)			4A, and 4B				
	ation (A3)			Salt Crust (B11)	. (5.40)			Drainage Patte	, ,			
	Marks (B1)			Aquatic Invertebr				Dry-Season W			(00)	
	nent Deposits (B2 Deposits (B3)	:)		Hydrogen Sulfide Oxidized Rhizosp			note (C3)	Saturation Vis Geomorphic P			y (C9)	
	Mat or Crust (B4)			Presence of Red		•	ous (CS)	Shallow Aquita	,	<b>2</b> )		
	eposits (B5)	'		Recent Iron Redu	`	,	ce)	FAC-Neutral T				
	ce Soil Cracks (B	6)		Stunted or Stress				Raised Ant Mo		(LRR A)		
	ation Visible on A	·		Other (Explain in		, , ,	,	Frost-Heave H	, ,			
		oncave Surface (B			·			<del></del>		, ,		
Field Obse	rvations:						Ι					
Surface Wa	ater Present?	Yes No	ΧΙ	Depth (inches):								
Water Table	e Present?	Yes No		Depth (inches):								
Saturation I	Present?	Yes No	ı	Depth (inches):			Wetland	d Hydrology Present	? Ye	es	No	X
(includes ca	apillary fringe)			•								
Describe Rec	orded Date (stre	am gauge, monito	ring well,	aerial photos, p	revious ins	pections), it	f availabl	e:				
Remarks:												
Sample plot la	acks primary and	secondary indica	tors of w	etland hydrology								

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	te: 10/9/	2019		
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	int: SP V	VFW 1-	-1	
Investigators: DANIELSKI, STORY			Section, Township, I	Range: T21N R4E S	21			
Landform (hillslope, terrace, etc.): Flat		Local Reli	ef (concave, convex,	none): None		Slope	e(%): 0	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2997	_ 40          Long:	-122.304298	Datum:	WGS84			
Soil Map Unit Name: Alderwood gravelly sandy loan	m	-	NWI Classific	ation: PFO				
Are climatic / hydrologic conditions on the site typica	I for this time of y	ear? Yes	No X	(If No, explain in Re	emarks)			
Are Vegetation: Soil or Hydrology	_ significantly di	sturbed?	Are "Normal Circum	nstances" present?	Ye	s	X N	lo
Are Vegetation: Soil or Hydrology	_ naturally probl	ematic?	(If needed, explain	any answers in Rema	arks.)			
SUMMARY OF FINDINGS - Attach a site	map showii	ng sampling	point locations	, transects, imp	ortant	featui	res, etc.	
Hydrophytic Vegetation Present? Yes X	No							
Hydric Soil Present? Yes X	No	Is the	Sampled Area					
Wetland Hydrology Present? Yes X	No	withi	n a Wetland?	Yes	Χ	_	No	
Remarks:	<u> </u>							
On low bank of Hylebos creek, looks like possible we season so dry season conditions were still considere								
1.		0 , 0,						
VEGETATION – Use scientific names of	f plants.							
	Absolute	Dominant	Indicator	Dominance Test \		et:		
<u>Tree Statum</u> (Plot size: 5)	% Cover	Species?	Status	Number of Domina	nt Specie	s		
1. Fraxinus latifolia	60	Yes	FACW	That Are OBL, FAC	W, or FA	C:	3	(A)
2.				Total Number of Do	minant	-		_
3.				Species Across All	Strata:		4	(B)
4.				Percent of Dominar	nt Specie	s -		
	60	= Total Cover		That Are OBL, FAC	W, or FA	C:	75	(A/B)
Sapling/Shrub Stratum (Plot size: 3)				Prevalence Index	workshe	et:		
Oemleria cerasiformis	20	Yes	FACU	Total % Cover of:		Multi	ply by:	
2. Acer circinatum	5	No	FAC	OBL species		_ x1=		
3. Cornus alba	3	No	FACW	FACW species	123	x2=	246	
4.				FAC species	35	_x3=	105	
5				FACU species	20	_ ×4=	80	_
	28	= Total Cover		UPL species		_ ×5= _	0	_
Herb Stratum (Plot size: 1)				Column Totals:	178	_ (A) _	431	(B)
1. Phalaris arundinacea	60	Yes	FACW					
2. Ranunculus repens	30	Yes	FAC	Prevalence Ind			2.4	2
3				Hydrophytic Vege				
4				1 - Rapid Tes	-		•	on
5.				X 2 Dominano				
6.				X 3 Prevalence				
7.				4 - Morpholo				
8.				supporting data in F				sheet)
9.				5 - Wetland N				
10.				Problematic		-		
11			<del>-</del>	¹Indicators of hydrid				•
Mandy Vine Chatter (District)	90	= Total Cover		must be present, ur	niess aist	urbea d	or problem	atic.
Woody Vine Stratum (Plot size: )				Hydrophytic				
1.		-		Hydrophytic Vegetation	Voc	v	No	
2		= Total Cover		Present?	Yes	<u>X</u>		_
% Bare Ground in Herb Stratum 10		= Total Cover er of Biotic Crus	t	i resent:				
Remarks:			<u> </u>					
	adox for budges	utio vogototion						
Sample plot meets dominance test and prevalence in	idex for Hydroph	yuc vegetation.						

Profile Descr	iption: (Describe to	the depth ne	eded to document	the indicator	or confirm	the abse	ence of indicators.	)
Depth	Matrix			Redox Featur				
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-16	7.5YR 2.5/1	100					Sandy Loam	
16-18	10YR 4/1	98	7.5 YR 4/6	2	C	M	Sandy Loam	Very gravelly from 10-18+
¹Type: C= Co	ncentration, D= Dep	etion, RM=Re	duced Matrix, CS=C	overed or Coa	ated Sand G	irains.	²Loc	eation: PL=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators: (Applical	ole to all LRR	s, unless otherwise	e noted.)			Indicators for Pro	blematic Hydric Soils³:
Histos	ol (A1)		Sandy Redo	x (S5)			2 cm Muck	(A10)
Histic I	Epipedon (A2)		Stripped Ma	trix (S6)			Red Parent	: Material (TF2)
Black I	Histic (A3)		Loamy Muck	ky Mineral (F1)	(except ML	.RLA 1)	Very Shallo	w Dark Surface (TF12)
Hydrog	gen Sulfide (A4)		Loamy Gley	ed Matrix (F2)			Other (Expl	ain in Remarks)
	ed Below Dark Surfa	ce (A11)	Depleted Ma					
	Dark Surface (A12)		Redox Dark				•	drophytic vegetation and
	Mucky Mineral (S1)			rk Surface (F7	7)			ogy must be present,
Sandy	Gleyed Matrix (S4)		Redox Depre	essions (F8)			unless disturbe	ed or problematic.
Restrictive	Layer (if present):							
Type:			_					
Depth	(inches):		_				Hydric Soil Pres	sent? Yes X No
Remarks:								
Sample plot n	neets hydric soil indic	ator A12, thick	с аагк ѕипасе.					
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary Indi	icators (minimum of o	one required; o	heck all that apply)				Secondary Indica	ators (2 or more required)
Surfac	e Water (A1)		Water-Staine	ed Leaves (B9	) (except		Water Stair	ned Leaves (B9) (MRLA 1, 2,
High V	Vater Tables (A2)		MRLA 1,	2, 4A, and 4B	)		4A, and	<b>4B</b> )
Satura	tion (A3)		Salt Crust (E	311)			Drainage P	atterns (B10)
— Water	Marks (B1)		Aquatic Inve	rtebrates (B13	3)		Dry-Seasor	n Water Table (C2)
Sedim	ent Deposits (B2)		Hydrogen Sı	ulfide Odor (C	1)		Saturation	Visible on Aeriel Imagery (C9)
Drift D	eposits (B3)		Oxidized Rh	izospheres alc	ong Living R	oots (C3)	X Geomorphi	c Position (D2)
Algal N	Mat or Crust (B4)		Presence of	Reduced Iron	(C4)		Shallow Aq	uitard (D3)
Iron De	eposits (B5)		Recent Iron	Reduction in T	Filled Soils (	C6)	X FAC-Neutra	al Test (D5)
Surfac	e Soil Cracks (B6)		Stunted or S	tressed Plants	s (D1) ( <b>LRR</b>	A)	Raised Ant	Mounds (D6) (LRR A)
Inunda	tion Visible on Aerie	Imagery (B	Other (Expla	iin in Remarks	s)		Frost-Heav	e Hummocks (D7)
Sparsl	ey Vegetated Conca	ve Surface (B8	3)					
Field Obse	rvations:						-	
Surface Wa	ter Present? Yes	No _	X Depth (inche	es):				
Water Table	Present? Yes	No	X Depth (inche	es):				
Saturation F	Present? Yes	No	X Depth (inche	es):		Wetlan	d Hydrology Prese	ent? Yes X No
(includes ca	pillary fringe)							
Describe Rec	orded Date (stream g	auge, monitor	ing well, aerial photo	os, previous in	spections), i	if availab	le:	
Remarks:								
1	ocated in forested are	a No primary	indicators observed	roughly 6 fee	et from OHM	/M of Hvl	lehos Creek, Samol	e plot meets secondary hydrology
	FAC-Neutral Test (D			,		Oi i iyi	eres or com oumpi	- F.Ecoto cocodai y ilyanology

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ate: 10/9/2	2019		
Applicant/Owner: Sound Transit			State: WA	Sampling Po	oint: SP W	FW 1-2	2	
Investigators: DANIELSKI, STORY			Section, Township,	Range: T21N R4E S	21			
Landform (hillslope, terrace, etc.): Flat		Local Reli	ef (concave, convex,	none): None		Slope	(%): 0	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2997	<sup>7</sup> 21 Long:	-122.304062	Datum:	WGS84			
Soil Map Unit Name: Alderwood gravelly sandy loa	m	_	NWI Classific	cation: PFO				
Are climatic / hydrologic conditions on the site typical	al for this time of	year? Yes	S NoX	_ (If No, explain in R	emarks)			
Are Vegetation: Soil or Hydrology	significantly d	isturbed?	Are "Normal Circur	nstances" present?	Yes	X	<u> </u>	10
Are Vegetation: Soil or Hydrology	_ naturally prob		•	any answers in Rem	•			
SUMMARY OF FINDINGS - Attach a site	e map showi	ng sampling	point locations	, transects, imp	ortant f	eatur	es, etc.	
Hydrophytic Vegetation Present? Yes X	No							
Hydric Soil Present? Yes X	No	Is the	Sampled Area					
Wetland Hydrology Present? Yes X	No	withi	n a Wetland?	Yes	X	-	No	
Remarks:								
The preceding three months were wetter than normal evaluating hydrology. Located in depression adjaces 1.	nt to East Fork H							
VEGETATION – Use scientific names o	·		1 2 .	15				
Trace Obstance (District Section)	Absolute	Dominant	Indicator	Dominance Test				
Tree Statum (Plot size: 5m)	% Cover 40	Species? Yes	_ Status FACW	Number of Domina			_	<b>(A)</b>
<ol> <li>Fraxinus latifolia</li> <li>Alnus rubra</li> </ol>	15	Yes	- FACVV FAC	That Are OBL, FAC	·	J. <b>–</b>	5	— <sup>(A)</sup>
3.				Species Across All			5	(B)
4.				Percent of Domina		_		— <sup>(D)</sup>
	<del></del> 55	= Total Cover	<del></del>	That Are OBL, FAC	•		100	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)		= 10tal 00vol		Prevalence Index			100	
Acer circinatum	30	Yes	FAC	Total % Cover of:		<u>Multip</u>	olv bv:	
2. Rubus spectabilis	5	No	FAC	OBL species	30	x1=	30	
3.				FACW species	40	- x2=	80	
4.				FAC species	83	- x3= -	249	_
5.				FACU species		- x4=	0	
	35	= Total Cover		UPL species		x5=	0	
Herb Stratum (Plot size: 1m)				Column Totals:	153	(A)	359	— (B)
1. Ranunculus repens	30	Yes	FAC					
2. Carex obnupta	30	Yes	OBL	Prevalence Inc	lex = B/A=		2.3	35
3. Urtica dioica	3	No	FAC	Hydrophytic Vege	etation Ind	licator	s:	
4.				1 - Rapid Te	st for Hydr	ophytic	c Vegetati	on
5				X 2 - Dominan	ce Test is	>50%		
6				X 3 - Prevalen	ce Index is	3.01		
7				4 - Morpholo	gical Adap	otations	s¹ (Provide	Э
8					Remarks o			sheet)
9				5 - Wetland				
10				Problematic		_		
11				<sup>1</sup> Indicators of hydri				
11	63	= Total Cover		must be present, u	nless distu	irbed o	r problem	atic.
Woody Vine Stratum (Plot size:)								
Woody Vine Stratum (Plot size: )				Hydrophytic	V	ν.	ıl-	
Woody Vine Stratum (Plot size:)		Table		Vegetation	Yes	_ <u></u> 1	No	_
Woody Vine Stratum (Plot size: )		= Total Cover			Yes	_ <u></u>	No	_

Profile Descr	iption: (Describe to	the depth nee	eded to document the i	indicator	or confirm	the abse	ence of indicators.	)		
Depth	Matrix		Red	ox Feature	es					
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc <sup>2</sup>	Texture		Remarks	3
0-22	10YR 2/1	100					Silt Loam			
22-24	2.5Y 4/2	95	2.5Y 4/4	5			Silty Clay Loam	Lots of col	bble/gravel	
								-		
<sup>1</sup> Type: C= Co	ncentration, D= Deple	etion, RM=Red	duced Matrix, CS=Cover	ed or Coa	ted Sand G	rains.	²Loc	ation: PL=F	Pore Lining, I	M=Matrix.
Hydric Soil Ir	ndicators: (Applicab	le to all LRRs	s, unless otherwise no	ted.)			Indicators for Pro	blematic H	ydric Soils³:	
Histos	ol (A1)		Sandy Redox (St	5)			2 cm Muck	(A10)		
Histic I	Epipedon (A2)		Stripped Matrix (	S6)			Red Parent	Material (TI	F2)	
Black I	Histic (A3)		Loamy Mucky Mi	neral (F1)	(except ML	RLA 1)	Very Shallo	w Dark Surf	ace (TF12)	
—— Hydro	gen Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Other (Expl	ain in Rema	ırks)	
Deplet	ed Below Dark Surfac	e (A11)	Depleted Matrix (	(F3)			<u>—</u>			
X Thick I	Dark Surface (A12)		Redox Dark Surf	ace (F6)			<sup>3</sup> Indicators of hyd	drophytic ve	getation and	
Sandy	Mucky Mineral (S1)		Depleted Dark Si	urface (F7	)		wetland hydrol	ogy must be	present,	
Sandy	Gleyed Matrix (S4)		Redox Depression	ns (F8)			unless disturbe	ed or probler	natic.	
Restrictive	Layer (if present):									
Type:										
Depth	(inches):		-				Hydric Soil Pres	sent? Y	es X	No
Remarks:										
HYDROLO Wetland Hy	GY drology Indicators:									
•	cators (minimum of o	ne reauired: cl	heck all that apply)				Secondary Indica	ators (2 or m	nore reauired	<del>(</del> )
	e Water (A1)	1 / -	Water-Stained Le	eaves (B9)	(except				(B9) ( <b>MRLA</b>	
	Vater Tables (A2)		MRLA 1, 2, 4A	` '			4A, and		() (	-, -,
	tion (A3)		Salt Crust (B11)	,				atterns (B10	))	
—— Water	Marks (B1)		Aquatic Invertebr	ates (B13)	)			n Water Tab	•	
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1	)				eriel Imagery	(C9)
—— Drift D	eposits (B3)		Oxidized Rhizosp	heres alo	ng Living Ro	oots (C3)	X Geomorphi	c Position (E	02)	
Algal N	Mat or Crust (B4)		Presence of Red	uced Iron	(C4)		Shallow Aq	uitard (D3)		
Iron De	eposits (B5)		Recent Iron Redu	uction in T	illed Soils (0	C6)	X FAC-Neutra	al Test (D5)		
Surfac	e Soil Cracks (B6)		Stunted or Stress	sed Plants	(D1) ( <b>LRR</b>	<b>A</b> )	Raised Ant	Mounds (D6	6) ( <b>LRR A</b> )	
Inunda	tion Visible on Aeriel	lmagery (B	Other (Explain in	Remarks)	1		Frost-Heav	e Hummock	s (D7)	
Sparsl	ey Vegetated Concav	e Surface (B8	)							
Field Obse	rvations:									
	ter Present? Yes	No	X Depth (inches):							
Water Table	Present? Yes	No	X Depth (inches):							
Saturation F	Present? Yes	No	X Depth (inches):			Wetland	d Hydrology Prese	ent? Y	es X	_No
(includes ca	pillary fringe)									
Describe Rec	orded Date (stream ga	auge, monitori	ng well, aerial photos, p	revious ins	spections), i	f availabl	e:			
Remarks:										
No primary inc	dicators observed. Sa	mple plot mee	ts secondary hydrology	indicators	for FAC-Ne	eutral Tes	st (D5) and Geomor	phic Positio	n (D2).	

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	te: 10/9/201	9	
Applicant/Owner: Sound Transit			State: WA	Sampling Po	int: SP WFW	<i>l</i> 1-3	
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S	21		
Landform (hillslope, terrace, etc.): Hillslope		Local Reli	ief (concave, convex,	none): None	SI	ope(%): 2	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2999	92 Long:	: -122.303947	Datum:	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy lo	am		NWI Classific	cation: UPL			
Are climatic / hydrologic conditions on the site typic	al for this time of y	vear? Yes	s No_X	(If No, explain in Re	emarks)		
Are Vegetation: Soil or Hydrology _	significantly di	sturbed?	Are "Normal Circur	nstances" present?	Yes	X N	lo
Are Vegetation: Soil or Hydrology _	naturally probl	ematic?	(If needed, explain	any answers in Rema	arks.)		
SUMMARY OF FINDINGS - Attach a sit	te map showii	ng sampling	point locations	, transects, impe	ortant fea	tures, etc.	
Hydrophytic Vegetation Present? Yes	No X						
Hydric Soil Present? Yes	No _X	Is the	e Sampled Area				
Wetland Hydrology Present? Yes	No _X	withi	n a Wetland?	Yes		No X	
Remarks:							
Sample plot has 0 of 3 wetland criteria, is not locate however, site visit occurred at end of the dry seaso					were wetter t	han normal;	
VEGETATION – Use scientific names of	of plants.						
	Absolute	Dominant	Indicator	Dominance Test \	Norksheet:		
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominar	nt Species		
1. Acer macrophyllum	35	Yes	FACU	That Are OBL, FAC	W, or FAC:	1	_ (A)
Pseudotsuga menziesii	30	Yes	_ FACU	Total Number of Do	minant		
3				Species Across All		5	<b>—</b> (B)
4				Percent of Dominar			
	65	= Total Cover	•	That Are OBL, FAC	•	20	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index			
1. Rubus ursinus	40	Yes	_ FACU	Total % Cover of:	<u>M</u>	ultiply by:	
2. Gaultheria shallon	30	Yes	_ FACU	OBL species	x1		_
3. Acer circinatum	25	Yes	_ FAC	FACW species	x2		_
4. Rubus spectabilis	10	No No	FAC	FAC species	35 x3		_
5. Acer macrophyllum	10	No	FACU	FACU species	145 x4		_
	115	= Total Cover	•	UPL species	x5		<b>–</b> "
Herb Stratum (Plot size: 1m)				Column Totals:	180 (A	685	— <sup>(B)</sup>
1				Prevalence Inde	au D/4	0.0	
2. 3.				Hydrophytic Vege		3.8	01
				1 - Rapid Tes			on
4 5.				2 - Dominano			OH
6.				3 - Prevalence			
7.				4 - Morpholog			۵
8.						n a separate s	
9.	-			5 - Wetland N		•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
10.			_	Problematic I			xplain)
11.				¹Indicators of hydric			
<u> </u>		= Total Cover		must be present, ur			•
Woody Vine Stratum (Plot size:)						- 1	
1.				Hydrophytic			
2.			_	Vegetation	Yes	No X	
		= Total Cover		Present?	_		_
% Bare Ground in Herb Stratum 60		er of Biotic Crus	t				
Remarks:	<u> </u>			1			
Sample plot does not meet dominance test or previous	alence index for h	drophytic veget	ation.				
Sample plot association most domination tool of provi	aloneo maex for m	, op. 1, 110 voget					

Profile Descr	ription: (Describe to	the depth ne	eded 1	to document the	indicator o	or confirm	the abse	ence of indicators.)					
Depth	Matrix	(		Red	ox Feature	s		-					
(inches)	Color (moist)	%		Color (moist)	%	Type¹	Loc²	Texture		Rem	narks		
0-8	10YR 3/3	100						Silt Loam					
8-18	10YR 4/4	100						Silt Loam					
¹Type: C= Co	oncentration, D= Dep	oletion, RM=Re	duced	Matrix, CS=Cove	red or Coat	ted Sand G	rains.	²Locat	tion: PL	.=Pore Lini	ng, M=Mat	rix.	
Hydric Soil Ir	ndicators: (Applica	ble to all LRR	s, unl	ess otherwise no	ted.)			Indicators for Probl	lematic	Hydric So	ils³:		
Histos	ol (A1)			_Sandy Redox (S	5)			2 cm Muck (A	<del>\</del> 10)				
	Epipedon (A2)			Stripped Matrix (	,			Red Parent M		` '			
	Histic (A3)			Loamy Mucky Mi		(except ML	RLA 1)	Very Shallow		•	12)		
	gen Sulfide (A4)			_Loamy Gleyed M				Other (Explai	n in Rer	marks)			
	ed Below Dark Surf	ace (A11)		Depleted Matrix									
	Dark Surface (A12)			Redox Dark Surf				<sup>3</sup> Indicators of hydro		•			
	Mucky Mineral (S1)			_ Depleted Dark S		1		wetland hydrolog			•		
	Gleyed Matrix (S4)		-	Redox Depression	ons (F8)			unless disturbed	or prob	iematic.			
	Layer (if present):												
Type:			_							.,			
Depth	(inches):		_					Hydric Soil Prese	nt?	Yes	No	X	
HYDROLO	)GY												
Wetland Hy	drology Indicators	:											
Primary Ind	icators (minimum of	one required; o	heck a	all that apply)				Secondary Indicate	ors (2 oı	r more requ	uired)		
Surfac	e Water (A1)	<u> </u>		Water-Stained Le	eaves (B9)	(except		Water Staine	d Leave	es (B9) ( <b>MF</b>	LA 1, 2,	-	
High V	Vater Tables (A2)			- MRLA 1, 2, 4	A, and 4B)			4A, and 4E	В)				
Satura	ition (A3)			Salt Crust (B11)				Drainage Patterns (B10)					
Water	Marks (B1)			Aquatic Inverteb	rates (B13)			Dry-Season Water Table (C2)					
Sedim	ent Deposits (B2)			_ Hydrogen Sulfide	Odor (C1)	)		Saturation Visible on Aeriel Imagery (C9)					
Drift D	eposits (B3)			Oxidized Rhizos	oheres alor	ng Living Ro	oots (C3)	Geomorphic	Position	(D2)			
	Mat or Crust (B4)			Presence of Red	`	'		Shallow Aqui					
	eposits (B5)			Recent Iron Red		,		FAC-Neutral					
	e Soil Cracks (B6)			Stunted or Stress		(D1) ( <b>LRR</b> .	<b>A</b> )	Raised Ant M	,	. , ,	<b>A</b> )		
	ation Visible on Aerie		.,—	Other (Explain in	Remarks)			Frost-Heave	Hummo	cks (D7)			
	ey Vegetated Conca	eve Surrace (Ba	5)										
Field Obse			v	D :: ('   )									
	ter Present? Yes		X	Depth (inches):									
Water Table Saturation F			X	Depth (inches):			Wetler	d Uvdvolovy Drocon		Vaa	Na	v	
	Present? Yes apillary fringe)	No _	X	Depth (inches):			wellan	d Hydrology Presen	l?	Yes	No	<u> </u>	
Describe Rec	orded Date (stream	gauge, monitor	ing we	ell, aerial photos, p	revious ins	spections), r	t availabi	le:					
Remarks:													
No primary or	secondary indicator	s observed, dry	/ to 18	·									

Project/Site: S	Sound Transit C	MFS		City/County:	Federal Way, King	Sampling Date	e: <u>10/9/2</u>	:019		
Applicant/Owner:	Sound Tra	nsit		_	State: WA	Sampling Poir	nt: SP W	FW 1-4		
nvestigators: D	) anielski				Section, Township,	Range: T21N R4E S2	1			
andform (hillslope	e, terrace, etc.):	Depression		Local Rel	ief (concave, convex,	, none): Concave		Slope	(%): 0	
Subregion (LRR):	Α		Lat: 47.299	<u> </u>	: -122.304367	Datum: V	VGS84	'		
Soil Map Unit Nam	e: Alderwood	gravelly sandy loar			NWI Classific	cation: PEM1				
Are climatic / hydro	ologic condition	s on the site typica	for this time of	year? Yes	s No X	(If No, explain in Rer	narks)			
Are Vegetation:	Soil	or Hydrology	significantly o	listurbed?	Are "Normal Circur	 mstances" present?	Yes	Х		0
Are Vegetation:	Soil —	or Hydrology	<ul> <li>naturally prob</li> </ul>	olematic?	(If needed, explain	any answers in Remar	ks.)			
SUMMARY OF	FINDINGS	- - Attach a site	_ map show	ing sampling	point locations	, transects, impo	rtant fe	eature	es, etc.	
Hydrophytic Veget		Yes X	No	1		· · · · · · · · · · · · · · · · · · ·				
Hydric Soil Presen	t?	Yes X		Is the	Sampled Area					
vetland Hydrology		Yes X	_ <sub>No</sub>		n a Wetland?	Yes X			No	
						_		'		
Remarks:	of O wotland or	itaria la lacatad in l	DEM community	, in \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	proceding three man	the wore wetter then n	ormalı ba		oito vioit	
					preceding three moner on evaluating hydrolog	iths were wetter than n	ormai; no	wever.	, site visit	
	,	,								
/EGETATION	_ llea ecia	ntific names of	f nlante							
/EGETATION	<u> </u>	Titilic Hailles O	•	Daminant	lo di a a ta u	Daminanas Tast W	/	4.		
Ot-t //	Dist =:==		Absolute	Dominant	Indicator	Dominance Test W				
<u>Free Statum</u> (I	Plot size: 5m)		% Cover	Species?	Status	Number of Dominant			0	/A)
·						That Are OBL, FACV		· –	2	— <sup>(A)</sup>
·						Total Number of Don			0	(D)
·						Species Across All S		_	2	— <sup>(B)</sup>
··				Tatal Cause	<del>.</del> ———	Percent of Dominant	•		100	(A /D)
Samble at (Charth Chua	Atuma (Dist	ai (2ma)		= Total Cover		That Are OBL, FACV	•	_	100	(A/B)
Sapling/Shrub Stra	,	size: 3m)	0	Vas	FACIAL		orksnee		le e le ce	
Salix lasiandr	a		2	Yes	_ FACW	Total % Cover of:		Multip	<u>ıy by:</u>	
<u> </u>						OBL species		x1= _	101	_
3. <u> </u>						FACW species	92	x2= _	184	_
·. . ———						FAC species	25	×3= _	75	_
). 				Tatal Cause	<del>.</del> ———	FACU species		×4= _	0	_
lorb Stratum (1	Diet eizer 1m)		2	= Total Cover		UPL species	117	×5= –	0	— <sub>(B)</sub>
<u>Herb Stratum</u> (I L. Phalaris arun	Plot size: 1m)		00	Von	EACW	Column Totals: –	117	(A) _	259	_ <sup>(B)</sup>
			90	Yes No	_ FACW FAC	. Prevalence Inde	v D/A		2.2	.4
2. Athyrium cycl			5					iootore		. 1
Ranunculus r     Solanum dulc			5	No No	_ FAC FAC	Hydrophytic Vegeta 1 - Rapid Test				<b>.</b>
5. Urtica dioica	Janara		5	No	FAC	X 2 - Dominance			vegetati	JII
o. Orlica dioica						X 3 - Prevalence				
,					_	4 - Morphologi			1 (Provide	`
					_	data in Re				
·					<del>-</del>	5 - Wetland No			•	illeet)
·					_	Problematic H				(volain
10						· <del></del>		_		
						Indicators of hydric			i iiyui oloc	у
1.			115	Total Cover	<del>.</del> ———	¹Indicators of hydric				otio
1.	um (Plot cizo: )		115	= Total Cover	<del>.</del>	**Indicators of hydric smust be present, unl				atic.
1.	um (Plot size: )	)	115	= Total Cover	<del>.</del> ———	must be present, unl				atic.
1.	ım (Plot size: )	)	115	= Total Cover	<del>.</del> ———	must be present, unl	ess distu	rbed o	problem	atic.
1.	um (Plot size: )	)	115			must be present, unl  Hydrophytic  Vegetation			problem	atic.
—		0		= Total Cover  = Total Cover ver of Biotic Crus		must be present, unl	ess distu	rbed o	problem	atic.

	iption: (Describe t	o the depth ne	eded to document the i	ndicator o	or confirm	the abse	nce of indicators.)	!			
Depth	Matri			ox Feature							
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Re	marks	;
0-11	7.5 YR 2/2	100					Sandy Loam				
11-20	7.5 YR 2/2	95	5YR 4/6	5	C	M	Sandy Loam	Gravel	lly		
							-				
- ''		· · · · · · · · · · · · · · · · · · ·	educed Matrix, CS=Cover		ted Sand G				L=Pore Li		
-		able to all LRR	s, unless otherwise not				Indicators for Pro		c Hydric S	3oils³:	
—— Histoso			Sandy Redox (S5	•			2 cm Muck				
	Epipedon (A2)		Stripped Matrix (S	•			Red Parent				
	Histic (A3)		Loamy Mucky Mir		(except ML	RLA 1)	Very Shallo		•	F12)	
l —— '	gen Sulfide (A4)	(4.4.4)	Loamy Gleyed Ma				X Other (Expl	ain in Re	emarks)		
	ed Below Dark Surf	ace (A11)	Depleted Matrix (				3lasliastava of bura	مالد بما مرسا			
	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark Surfa Depleted Dark Su	` '	<b>\</b>		<sup>3</sup> Indicators of hydrole		•		
l ——	Gleyed Matrix (S4)	)		wetland hydrolo unless disturbe			111,				
			Redox Depressio	113 (1 0)			uriless disturbe		Diematic.		
	Layer (if present):										
Type:	(inches):		_				Hydric Soil Pres	ont?	Yes	Х	No
Remarks:	(IIICHES).		_				Tryunc 3011 Fres	ent:		$\stackrel{\sim}{=}$	
growing seaso	on, and therefore hy	dric soils presu	M of East Fork Hylebos C imed to exist.	Creek, soil	is likely sea	asonally f	looded for 14 or mo	re conse	ecutive da	ys duri	ing the
Wetland Hy	drology Indicators	<b>:</b> :									
Primary Indi	cators (minimum of	one required;	check all that apply)				Secondary Indica	itors (2 d	or more re	quired	1)
	e Water (A1)		Water-Stained Le	` ′	•		Water Stain	ed Leav	es (B9) ( <b>N</b>	IRLA	1, 2,
<u> </u>	/ater Tables (A2)		MRLA 1, 2, 4A	, and 4B)			4A, and	,			
	tion (A3)		Salt Crust (B11)				Drainage Patterns (B10)				
	Marks (B1)		Aquatic Invertebra	, ,			Dry-Season Water Table (C2)				
	ent Deposits (B2)		—— Hydrogen Sulfide	,	•	nata (C2)		Saturation Visible on Aeriel Imagery (C9) Geomorphic Position (D2)			
	eposits (B3) Mat or Crust (B4)		Oxidized Rhizosp Presence of Redu			00is (C3)	Shallow Aq		. ,		
l —	eposits (B5)		Recent Iron Redu			C6)	X FAC-Neutra				
	e Soil Cracks (B6)		Stunted or Stress		,	,	Raised Ant			RA)	
	tion Visible on Aerie	el Imagery (B	Other (Explain in			/	Frost-Heave			,	
	ey Vegetated Conca			,					(,		
Field Obser	vations:	· ·									
Surface Wat		No	X Depth (inches):								
Water Table	Present? Yes	No	X Depth (inches):								
Saturation P	resent? Yes	No No	X Depth (inches):			Wetland	d Hydrology Prese	nt?	Yes	X	No
(includes ca	pillary fringe)								_		
Describe Reco	orded Date (stream	gauge, monito	ring well, aerial photos, pr	revious ins	spections), i	f available	e:				
Remarks:											
			condary indicators Geomo peginning of water year, b					esent. B	elow OHV	VM of I	Hylebos
Subsequent vi	isit on 10/18 showe	d sample plot u	nder several inches of wa	ater. <b>I</b> s like	ely seasona	lly ponde	d.				

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ate: 10/9/2019	9	
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	oint: SP WFW	1-5	
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S	21		
Landform (hillslope, terrace, etc.): Hillslope		Local Reli	ef (concave, convex,	none): None	Slo	ope(%): 3	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2992	 !71	-122.304420	Datum:	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy lo	<u> </u>		NWI Classific	cation: UPL			
Are climatic / hydrologic conditions on the site typic	al for this time of	year? Yes	No X	(If No, explain in Re	emarks)		
Are Vegetation: Soil or Hydrology	significantly di	sturbed?	Are "Normal Circur	nstances" present?	Yes	X N	lo
Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain	any answers in Rem	arks.)		
SUMMARY OF FINDINGS - Attach a si	te map showi	ng sampling	point locations	, transects, imp	ortant feat	ures, etc.	
Hydrophytic Vegetation Present? Yes	No X						
Hydric Soil Present? Yes	No	Is the	Sampled Area				
Wetland Hydrology Present? Yes	No X	withir	n a Wetland?	Yes		No X	
Remarks:							
Slightly upslope from wetland boundary and chann for WFW-1 The preceding three months were wette considered when evaluating hydrology.	er than normal; ho						
VEGETATION – Use scientific names	<del>-</del>			1			
	Absolute	Dominant	Indicator	Dominance Test			
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	- Status	Number of Domina	•		(4)
1. Thuja plicata	30	Yes	- FAC	That Are OBL, FAC	•	3	— <sup>(A)</sup>
2. Pseudotsuga menziesii	<u>20</u> 15	Yes Yes	_ FACU FAC	Total Number of Do		0	(D)
3. Alnus rubra  Prupus omarginata	10	No	- FACU	Species Across All Percent of Domina		6	— <sup>(B)</sup>
4. Prunus emarginata	75	= Total Cover		That Are OBL, FAC	•	50	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)		= Total Cover		Prevalence Index			(A/D)
1. Rubus ursinus	60	Yes	FACU	Total % Cover of:		ultiply by:	
2. Acer circinatum	20	Yes	- FACO FAC	OBL species	<u>ıvı.</u> x1:	ultiply by: _	
3. Sambucus racemosa	7	No	- FACU	FACW species	x1:		_
4. Oemleria cerasiformis	5	No	- FACU	FAC species	65 x3:		_
5.				FACU species	132 x4		
	92	= Total Cover		UPL species	x5:		_
Herb Stratum (Plot size: 1m)		- rotal covol		Column Totals:	197 (A)		— <sub>(B)</sub>
Polystichum munitum	30	Yes	FACU			,	<b>—</b> (-)
2.				Prevalence Ind	lex = B/A=	3.6	67
3.				Hydrophytic Vege			
4.					st for Hydroph		ion
5.				2 - Dominan	ce Test is >50	)%	
6.				3 - Prevalenc	ce Index is ≤3	.0¹	
7.				4 - Morpholo	gical Adaptati	ons¹ (Provide	е
8.				data in F	Remarks or on	ı a separate :	sheet)
9.				5 - Wetland I	Non-Vascular	Plants <sup>1</sup>	
10.				Problematic	Hydrophytic V	/egetation1 (E	Explain)
11.				<sup>1</sup> Indicators of hydri	c soil and wetl	land hydrolog	ЭУ
	30	= Total Cover		must be present, u	nless disturbe	d or problem	atic.
Woody Vine Stratum (Plot size:)							
1				Hydrophytic			
2.				Vegetation	Yes	NoX	
		= Total Cover		Present?			
% Bare Ground in Herb Stratum 10	% Cov	er of Biotic Crust	t				
Remarks:							
Sample plot does not meet dominance test or prev	alence index for h	ydrophytic vegeta	ation.				

Profile Desci	ription: (Describ	e to the depth ne	eded	to document the	indicator o	or confirm	the abse	ence of indicators.)					
Depth	Ma	atrix		Red	ox Feature	s							
(inches)	Color (moist)	%		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remar	·ks		
0-18	7.5YR 3/3	100						Silt Loam					
¹Type: C= Co	oncentration, D= I	Depletion, RM=Re	duced	Matrix, CS=Cove	red or Coat	ted Sand G	rains.	²Loca <sup>†</sup>	tion: PL	=Pore Lining	, M=Matr	ix.	
Hydric Soil I	ndicators: (App	licable to all LRR	s, unl	ess otherwise no	ted.)			Indicators for Prob	lematic	Hydric Soils	3³:		
	sol (A1)			_ Sandy Redox (S	5)			2 cm Muck (A	<del>1</del> 10)				
	Epipedon (A2)			_ Stripped Matrix (				Red Parent N	,	,			
	Histic (A3)			_ Loamy Mucky Mi		(except ML	RLA 1)	Very Shallow		•	)		
	gen Sulfide (A4)			_ Loamy Gleyed M				Other (Explai	n in Ren	narks)			
	ted Below Dark S	7		_ Depleted Matrix									
	Dark Surface (A1			Redox Dark Surf				<sup>3</sup> Indicators of hydro		•	ıd		
	/ Mucky Mineral (	•		_ Depleted Dark S		)		wetland hydrolog		•			
	/ Gleyed Matrix (S			Redox Depression	ons (F8)			unless disturbed	or probl	ematic.			
	Layer (if preser	it):											
Type:			_										
Depth	(inches):		_					Hydric Soil Prese	nt?	Yes	No	X	
	acks indicators of	•											
HYDROLC	OGY												
Wetland Hy	ydrology Indicat	ors:											
Primary Ind	licators (minimum	of one required; of	check	all that apply)				Secondary Indicat	ors (2 or	more requir	ed)	_	
	ce Water (A1)			Water-Stained Le	eaves (B9)	(except		Water Staine		s (B9) ( <b>MRL</b>	A 1, 2,		
l —	Water Tables (A2)			MRLA 1, 2, 4				4A, and 4I					
	ation (A3)			_ Salt Crust (B11)				Drainage Patterns (B10)					
	Marks (B1)			_ Aquatic Inverteb	, ,			Dry-Season Water Table (C2)					
	nent Deposits (B2	)		_ Hydrogen Sulfide			. (00)	Saturation Visible on Aeriel Imagery (C9)					
	Deposits (B3)			Oxidized Rhizos		-	oots (C3)						
	Mat or Crust (B4)			Presence of Red	·	'	20)	Shallow Aqui					
	eposits (B5)	2)		Recent Iron Red		,		FAC-Neutral					
	ce Soil Cracks (Be ation Visible on A			Stunted or Stress Other (Explain in		(DI) ( <b>LNN</b> .	<b>A</b> )	Raised Ant M					
		ncave Surface (B		_ Other (Explain in	i nemarks)			—— Flost-neave	Пипппос	CKS (D7)			
Field Obse		Ticave Guriace (Be											
		'es No	Х	Depth (inches):									
Water Table		es — No - 'es No	X	Depth (inches):									
Saturation I		/esNo	$\frac{\lambda}{X}$	Depth (inches):			Wetlan	d Hydrology Presen	ıt?	Yes	No	X	
	apillary fringe)	· - · ·		- Dopur (monoc):			Wouldern	a riyarology r rocon			—"		
		am gauga manitar	ina w	ell, aerial photos, p	rovious inc	nootiona\ i	f availabl	lo:					
Describe nec	orded Date (Street	im gauge, monitor	ing we	iii, aeriai priotos, p	nevious iris	spections), i	i avallabl	i <del>c</del> .					
Remarks:													
No primary or	r secondary wetla	nd hydrology indic	ators	observed.									

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Date	e: 10/9/2019		
Applicant/Owner: Sound Transit		_	State: WA	Sampling Poir	nt: SP WFW 1-	6	
Investigators: DANIELSKI, STORY			Section, Township,	——— Range: T21N R4E S2	:1		
Landform (hillslope, terrace, etc.): Flat		Local Reli	ef (concave, convex,	none): None	Slope	e(%): 0	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.296	<u>—</u> 963 Long:	-122.304909	Datum: V	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy loa	<u>—</u> ———		NWI Classific	cation: PFO			
Are climatic / hydrologic conditions on the site typical	al for this time of	year? Yes	No X	(If No, explain in Re	marks)		
Are Vegetation: Soil or Hydrology _	significantly o	disturbed?	Are "Normal Circur	nstances" present?	Yes	<u>х</u> N	o
Are Vegetation: Soil or Hydrology	naturally prol	olematic?	(If needed, explain	any answers in Rema	rks.)		
SUMMARY OF FINDINGS - Attach a sit	e map show	ing sampling	point locations	, transects, impo	rtant featui	es, etc.	
Hydrophytic Vegetation Present? Yes X	No						
Hydric Soil Present? Yes X	No	Is the	Sampled Area				
Wetland Hydrology Present? Yes X	No No	withir	n a Wetland?	Yes 2	<u> </u>	No	
Remarks:							
The preceding three months were wetter than norm evaluating hydrology. Sample plot meets 3 of 3 wetle	and criteria, is lo		end of the dry seaso	n so dry season condit	ions were still o	considered	when
VEGETATION – Use scientific names of				1			
T 01.1 (DL. 1 5.)	Absolute	Dominant	Indicator	Dominance Test W			
Tree Statum (Plot size: 5m)	% Cover	Species?	Status	Number of Dominan	•	_	<b>(A)</b>
<ol> <li>Populus balsamifera</li> <li>Salix scouleriana</li> </ol>	<u>20</u> 5	Yes Yes	FAC FAC	That Are OBL, FACN	· -	5	— <sup>(A)</sup>
3.			- — FAC	Species Across All S		5	(B)
4.			_	Percent of Dominan	-		<b>—</b> (D)
T	25	= Total Cover	_	That Are OBL, FAC	•	100	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)		= 10tal 00vel		Prevalence Index v	<del></del>	100	
Rubus armeniacus	12	Yes	FAC	Total % Cover of:		oly by:	
2. Acer circinatum	5	Yes	FAC	OBL species	x1=	<del></del>	
3. Crataegus monogyna	3	No	FAC	FACW species	x2=	0	_
4.				FAC species	97 x3=	291	_
5.				FACU species	x4=	0	_
	20	= Total Cover		UPL species	x5=	0	_
Herb Stratum (Plot size: 1m)				Column Totals:	97 (A)	291	— (B)
1. Agrostis stolonifera	40	Yes	FAC	_			_
2. Ranunculus repens	10	No	FAC	Prevalence Inde	ex = B/A =	3.0	0
3. Solanum dulcamara	2	No	FAC	Hydrophytic Veget	ation Indicator	s:	
4.				1 - Rapid Tes	t for Hydrophyti	c Vegetati	on
5				X 2 - Dominance	e Test is >50%		
6.				X 3 - Prevalence	e Index is ≤3.0¹		
7				4 - Morpholog	ical Adaptation	s¹ (Provide	)
8.			_		emarks or on a		heet)
9					on-Vascular Pl		
10.					lydrophytic Veg		
11.			_	¹Indicators of hydric			
Moody Vino Strature (District)	52	= Total Cover		must be present, un	iess disturbed d	or problema	atic.
Woody Vine Stratum (Plot size:)				Hydronbyti-			
1.				Hydrophytic	Von V	No	
2		= Total Cover		Vegetation Present?	Yes X		_
% Bare Ground in Herb Stratum 48		= Total Cover ver of Biotic Crust	<b>t</b>	riesell!			
		VGI OI DIOLIC OTUSI					
Remarks:	Sandari ( ) ( )	facial and the second					
Sample plot meets dominance test and prevalence	maex for nyarop	nytic vegetation.					

Profile Desci	ription: (Descril	oe to the depth ne	eded to document the	indicator	or confirm	the abse	ence of indicators.)				
Depth	N	latrix	Red	ox Feature	es						
(inches)	Color (mois	t) %	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks			
0-18	10YR 2/1	93	10YR 3/4	7	<u> </u>		Silt Loam	Lot of gravel in profile starting at 14			
				· <u> </u>				Zot of graver in prome starting at 11			
								_			
	-										
				· <del></del>							
l		<del></del>	· <del></del>	<del></del>	<del></del> .						
		•	educed Matrix, CS=Cove		ited Sand G			ation: PL=Pore Lining, M=Matrix.			
-		olicable to all LRF	s, unless otherwise no					blematic Hydric Soils³:			
	sol (A1)		Sandy Redox (S	•			2 cm Muck				
	Epipedon (A2)		Stripped Matrix (	•				Material (TF2)			
	Histic (A3)		Loamy Mucky M		(except ML	RLA 1)		w Dark Surface (TF12)			
	gen Sulfide (A4)		Loamy Gleyed M	, ,			Other (Expl	ain in Remarks)			
l ——	ted Below Dark S		Depleted Matrix	-							
	Dark Surface (A		X Redox Dark Surf				-	Irophytic vegetation and			
	Mucky Mineral	•	Depleted Dark S		)		=	ogy must be present,			
Sandy	/ Gleyed Matrix (	S4)	Redox Depression	ons (F8)			unless disturbe	d or problematic.			
Restrictive	Layer (if prese	nt):									
Type:			_								
Depth	(inches):						Hydric Soil Pres	sent? Yes X No			
Remarks:	·-		<del>_</del>								
Sample plot r	meets hydric soil	indicator F6, Redo	x Dark Surface.								
	, , , , , , , , , , , , , , , , , , , ,	,									
HYDROLO	GY										
Wetland Hy	ydrology Indica	tors:									
Primary Ind	licators (minimur	n of one required;	check all that apply)				Secondary Indica	ators (2 or more required)			
	ce Water (A1)		Water-Stained Lo	eaves (B9)	(except			ed Leaves (B9) ( <b>MRLA 1, 2,</b>			
	Nater Tables (A2	2)	MRLA 1, 2, 4	, ,			4A, and 4B)				
	ation (A3)	,	Salt Crust (B11)	, ,			Drainage Patterns (B10)				
	Marks (B1)		Aquatic Inverteb	rates (B13)	)		Dry-Season Water Table (C2)				
	nent Deposits (B	2)	Hydrogen Sulfide	` '	•		Saturation Visible on Aeriel Imagery (C9)				
	Deposits (B3)	,	Oxidized Rhizos			oots (C3)	<del></del>				
	Mat or Crust (B4	)	Presence of Red		0 0	( , ,	Shallow Aqu	, ,			
	eposits (B5)	,	Recent Iron Red		• •	26)	FAC-Neutra	, ,			
	ce Soil Cracks (E	36)	Stunted or Stress	sed Plants	(D1) ( <b>LRR</b>	<b>A</b> )		Mounds (D6) ( <b>LRR A</b> )			
	•	Aeriel Imagery (B	Other (Explain in			,		e Hummocks (D7)			
Spars	ley Vegetated Co	oncave Surface (B		,				,			
Field Obse	ervations:	· · · · · · · · · · · · · · · · · · ·	,								
		Yes No	X Depth (inches):								
Water Table		Yes No	X Depth (inches):								
Saturation I		Yes No	X Depth (inches):			Wetland	d Hydrology Prese	ent? Yes X No			
	apillary fringe)		Z Doptii (monoo):				a 11, a1 010 g , 1 1000	<u> </u>			
					:	f:I-I-I	<u> </u>				
Describe Rec	corded Date (stre	eam gauge, monito	ring well, aerial photos, p	revious ins	spections), i	Tavallabi	e:				
Remarks:											
					secondary i	ndicators	s for water stained le	eaves and geomorphic position. A			
site visit on 10	0/18 had 6 inche	s of surface water	in the area near the sam	ple plot.							

Project/Site: Sound Transit OMFS		_ City/County:	Federal Way, King	Sampling Date:	10/9/201	9					
Applicant/Owner: Sound Transit			State: WA	Sampling Point	: SP WFW	<i>l</i> 1-7					
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S21							
Landform (hillslope, terrace, etc.): Hillslope		Local Reli	ef (concave, convex,	none): Convex	Sle	ope(%): 40					
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2969	70 Long:	-122.304825	Datum: W	GS84						
Soil Map Unit Name: Alderwood gravelly sandy	loam		NWI Classific	cation: UPL							
Are climatic / hydrologic conditions on the site type	oical for this time of	year? Yes	No _X	_ (If No, explain in Rem	arks)						
Are Vegetation: SoilX or Hydrology	significantly d	sturbed?	Are "Normal Circur	nstances" present?	Yes	X N	۰۰				
Are Vegetation: Soil or Hydrology			, ,	any answers in Remark	,						
SUMMARY OF FINDINGS - Attach a s	site map showi	ng sampling	point locations	, transects, impor	tant feat	tures, etc.					
Hydrophytic Vegetation Present? Yes _	No X										
Hydric Soil Present? Yes	No X	Is the	Sampled Area								
Wetland Hydrology Present? Yes _	No _X	withir	n a Wetland?	Yes		No X					
Remarks:											
Sample plot meets 0 of 3 wetland criteria, is not however, site visit occurred at end of the dry seas	son so dry season c										
VEGETATION – Use scientific names	<u> </u>			T							
	Absolute	Dominant	Indicator	Dominance Test Wo							
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominant	•						
1.				That Are OBL, FACW		1	— <sup>(A)</sup>				
2.				Total Number of Dom		0	(D)				
3.				Species Across All St		2	— <sup>(B)</sup>				
4		Total Cayor		Percent of Dominant	•	<b>50</b>	/ <b>/</b> / <b>D</b> \				
Conline (Charle Charters (Diet einer One)		= Total Cover		That Are OBL, FACW		50	(A/B)				
Sapling/Shrub Stratum (Plot size: 3m)	70	Vaa	FAC			وروا والمالة					
1. Rubus armeniacus		Yes	- FAC	Total % Cover of:		ultiply by:					
2.				OBL species	x1		_				
3.			<del></del>	FACW species —	x2		_				
4 5.				FAC species	70 x3		_				
5. <u> </u>	70	= Total Cover		FACU species UPL species	20 x4 x5		_				
Herb Stratum (Plot size: 1m)		= Total Cover		Column Totals:	90 (A		— <sub>(B)</sub>				
Polystichum munitum	20	Yes	FACU	—	(		<b>—</b> (D)				
2.		103		Prevalence Index	- R/A-	3.2	22				
3.	<del>-</del> ———		<del></del>	Hydrophytic Vegeta							
4.				1 - Rapid Test f			ion				
5.	_		-	2 - Dominance							
6.				3 - Prevalence							
7.				4 - Morphologic			е				
8.						n a separate					
9.			<u> </u>	5 - Wetland No			,				
10.				Problematic Hy	drophytic \	/egetation¹ (l	Explain)				
				Problematic Hydrophytic Vegetation¹ (Explain)							
11.				¹Indicators of hydric s	oil and wet	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
11		= Total Cover		· ·			atic.				
11	20	= Total Cover		· ·			atic.				
Woody Vine Stratum (Plot size:)	20	= Total Cover		· ·			atic.				
Woody Vine Stratum (Plot size: ) 1.	20	= Total Cover		must be present, unle							
	20	= Total Cover		must be present, unle	ess disturbe	ed or problem					
Woody Vine Stratum (Plot size: ) 1.				must be present, unle	ess disturbe	ed or problem					

SOIL Sampling Point: SP WFW 1-7

	•	-	eded t		ence of indicators.)								
Depth		atrix			ox Feature				_				
(inches)	Color (moist)	%		Color (moist)	<u></u> %	Type <sup>1</sup>	Loc²	Texture	R	emarks			
				Matrix, CS=Cover		ted Sand G			on: PL=Pore L		atrix.		
-		icable to all LRF	is, unle	ess otherwise not				Indicators for Proble		Soils <sup>3</sup> :			
	ol (A1)			Sandy Redox (St	-			2 cm Muck (A	•				
	Epipedon (A2)			Stripped Matrix (S	,		D. A. ()	—— Red Parent Material (TF2) Very Shallow Dark Surface (TF12)					
	Histic (A3)			Loamy Mucky Mi		(except ML	RLA 1)			IF12)			
	gen Sulfide (A4)			Loamy Gleyed M				Other (Explain	ı in Hemarks)				
l —	ted Below Dark Si Dark Surface (A1:			Depleted Matrix (				<sup>3</sup> Indicators of hydrophytic vegetation and					
	Mucky Mineral (S			Redox Dark Surfa Depleted Dark Su				wetland hydrolog					
	Gleyed Matrix (S			Redox Depression				unless disturbed	•	ent,			
		·		Tredox Depressio	7113 (1 0)			uniess disturbed	- problematic.				
	Layer (if presen	ι).											
Type:	(inches):		_					Hydric Soil Presei	nt? Yes	No	Х		
Берит	(ITICHES).		_					Tiyunc Son Fresei	<u></u>				
	ydrology Indicate												
	icators (minimum	of one required;	check a	II that apply)				Secondary Indicato			_		
	ce Water (A1)			Water-Stained Le	` '	(except			Leaves (B9) (	MRLA 1, 2,			
l —	Vater Tables (A2)			MRLA 1, 2, 4A	A, and 4B)			4A, and 4B	′				
	ation (A3)			Salt Crust (B11)				Drainage Patterns (B10)					
	Marks (B1)			Aquatic Invertebr	,			Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery (C9)					
	ient Deposits (B2) Jeposits (B3)			Hydrogen Sulfide Oxidized Rhizosp			note (C2)			magery (C9)			
	Mat or Crust (B4)			Presence of Red		-	oois (C3)	Shallow Aquit					
	eposits (B5)			Recent Iron Redu			26)	FAC-Neutral					
	ce Soil Cracks (B6	;)		Stunted or Stress		•	,		ounds (D6) ( <b>LR</b>	RRA)			
	ation Visible on A			Other (Explain in		( ) (	/		Hummocks (D7				
	ley Vegetated Cor	• • •	8)		,					,			
Field Obse	rvations:						T						
Surface Wa	iter Present? Y	es No	Х	Depth (inches):									
Water Table	e Present? Y	es No	Х	Depth (inches):									
Saturation I	Present? Y	es No	Х	Depth (inches):			Wetland	d Hydrology Present	? Yes	No	X		
(includes ca	apillary fringe)								-				
Describe Rec	orded Date (strea	m gauge, monito	ring we	ll, aerial photos, p	revious ins	pections), i	f availabl	e:					
Remarks:													
No primary or	secondary hydro	logy indicators ob	served										

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ite: 10/10/2019	9		
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	Sampling Point: SP WFW 1-8			
Investigators: STORY, PACE			Section, Township,	<del></del> Range: T21N R4E S	21			
Landform (hillslope, terrace, etc.): Flat		Local Reli	ef (concave, convex,	none): None	Slop	pe(%): 0		
Subregion (LRR): A - Northwestern Forest,	Lat: 47.297	<u>—</u> 585 Long:	-122.305229	Datum:	WGS84			
Soil Map Unit Name: Alderwood gravelly sandy loa	ım		NWI Classific	cation: PFO				
Are climatic / hydrologic conditions on the site typical	al for this time of	year? Yes	No X	(If No, explain in Ro	emarks)			
Are Vegetation: Soil or Hydrology	significantly of	disturbed?	Are "Normal Circur	nstances" present?	Yes	X N	lo	
Are Vegetation: Soil or Hydrology	naturally prob	olematic?	(If needed, explain	any answers in Rem	arks.)			
SUMMARY OF FINDINGS - Attach a site	e map show	ing sampling	point locations	, transects, imp	ortant featu	ıres, etc.		
Hydrophytic Vegetation Present? Yes X	No							
Hydric Soil Present? Yes X	No	Is the	Sampled Area					
Wetland Hydrology Present? Yes X	No	withir	n a Wetland?	Yes	Χ	No		
Remarks:								
The preceding three months were wetter than normal evaluating hydrology. Sample plot has 3 of 3 wetlan	d criteria, is loca		end of the dry seaso	n so dry season cond	litions were still	considered	when	
VEGETATION – Use scientific names o				T				
	Absolute	Dominant	Indicator	Dominance Test				
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Domina	•	•	(4)	
Fraxinus latifolia     Panulus halassifaus	20	Yes	- FACW	That Are OBL, FAC	*	6	_ <sup>(A)</sup>	
2. Populus balsamifera	15	Yes	_ FAC	Total Number of Do		6	(D)	
3.			_	Species Across All Percent of Domina			— <sup>(B)</sup>	
4	35	= Total Cover	_	That Are OBL, FAC		100	(A/B)	
Sapling/Shrub Stratum (Plot size: 3m)		= Total Cover		Prevalence Index	·	100	(A/b)	
1. Acer circinatum	25	Yes	FAC	Total % Cover of:		tiply by:		
2. Salix lasiandra	20	Yes	- FACW	OBL species	35 x1=			
3. Rubus spectabilis	7	No	- FACV	FACW species	40 x2=		_	
4.			<u> </u>	FAC species	$\frac{40}{102}$ x3=		_	
5.			_	FACU species	X3= X4=	0	_	
	52	= Total Cover		UPL species	x5=		_	
Herb Stratum (Plot size: 1m)		= 10tal 00101		Column Totals:	177 (A)	421	— (B)	
Ranunculus repens	55	Yes	FAC		(,,		<b>—</b> (-)	
2. Carex obnupta	30	Yes	OBL	Prevalence Ind	lex = B/A=	2.3	88	
3. Oenanthe sarmentosa	5	No	OBL	Hydrophytic Vege				
4.					st for Hydrophy		on	
5.				X 2 - Dominan	ce Test is >50%	6		
6.				X 3 - Prevalence	ce Index is ≤3.0	)1		
7.				4 - Morpholo	gical Adaptatio	ns¹ (Provide	e	
8.				data in F	Remarks or on a	a separate s	sheet)	
9.				5 - Wetland I	Non-Vascular F	Plants <sup>1</sup>		
10.				Problematic	Hydrophytic Ve	egetation1 (E	xplain)	
11.				<sup>1</sup> Indicators of hydri	c soil and wetla	nd hydrolog	Jy	
	90	= Total Cover		must be present, u	nless disturbed	or problem	atic.	
Woody Vine Stratum (Plot size:)					· · · · ·			
1.				Hydrophytic				
2.				Vegetation	Yes X	No		
		= Total Cover		Present?		·		
% Bare Ground in Herb Stratum 10	% Co	ver of Biotic Crust	t					
Remarks:				•				
Sample plot meets dominance test and prevalence	ndex for hydrop	hytic vegetation.						

SOIL Sampling Point: SP WFW 1-8

Depth   Matrix   Redox Features   Color (moist)   %   Type'   Loc'   Texture   Remarks	Profile Description: (Describe to the depth nee	ded to document the i	ndicator o	or confirm	the abse	nce of indicators.)	
Co-14	Depth Matrix	Redo	ox Feature	es			
Type: C= Concentration, D= Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.	(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
Type: C= Concentration, D= Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.	0-14 10YB 2/1 100					Silt Loam	
**Type: C= Concentration, D= Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  **Plocation: PL=Pore Lining, M=Matrix **Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  **Histosci (A1)		10YR 3/4	<del></del> 5			Silty Clay Loam	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Black Histosol (A2)  Histic Epipedon (A2)  Stripped Matrix (S6)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRLA 1)  Hydrogen Sulfidie (A4)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Any Gleyed Matrix (S4)  Redox Depressions (F8)  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (except Matrix (B1)  Hydric Soil Present):  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9) (except Water Stained Leaves (B9) (mRLA 1, 2, 4, 4, and 4B)  Saturation (A3)  Saturation (A3)  Satirctus (B11)  Poristo Poposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aeriel Imagery (C9)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Black Histosol (A2)  Histic Epipedon (A2)  Stripped Matrix (S6)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRLA 1)  Hydrogen Sulfidie (A4)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Any Gleyed Matrix (S4)  Redox Depressions (F8)  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (except Matrix (B1)  Hydric Soil Present):  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9) (except Water Stained Leaves (B9) (mRLA 1, 2, 4, 4, and 4B)  Saturation (A3)  Saturation (A3)  Satirctus (B11)  Poristo Poposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aeriel Imagery (C9)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Black Histosol (A2)  Histic Epipedon (A2)  Stripped Matrix (S6)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRLA 1)  Hydrogen Sulfidie (A4)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Any Gleyed Matrix (S4)  Redox Depressions (F8)  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (except Matrix (B1)  Hydric Soil Present):  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9) (except Water Stained Leaves (B9) (mRLA 1, 2, 4, 4, and 4B)  Saturation (A3)  Saturation (A3)  Satirctus (B11)  Poristo Poposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aeriel Imagery (C9)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Black Histosol (A2)  Histic Epipedon (A2)  Stripped Matrix (S6)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRLA 1)  Hydrogen Sulfidie (A4)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Any Gleyed Matrix (S4)  Redox Depressions (F8)  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (except Matrix (B1)  Hydric Soil Present):  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9) (except Water Stained Leaves (B9) (mRLA 1, 2, 4, 4, and 4B)  Saturation (A3)  Saturation (A3)  Satirctus (B11)  Poristo Poposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aeriel Imagery (C9)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Black Histosol (A2)  Histic Epipedon (A2)  Stripped Matrix (S6)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRLA 1)  Hydrogen Sulfidie (A4)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Any Gleyed Matrix (S4)  Redox Depressions (F8)  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (except Matrix (B1)  Hydric Soil Present):  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9) (except Water Stained Leaves (B9) (mRLA 1, 2, 4, 4, and 4B)  Saturation (A3)  Saturation (A3)  Satirctus (B11)  Poristo Poposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aeriel Imagery (C9)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Black Histosol (A2)  Histic Epipedon (A2)  Stripped Matrix (S6)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRLA 1)  Hydrogen Sulfidie (A4)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Any Gleyed Matrix (S4)  Redox Depressions (F8)  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (except Matrix (B1)  Hydric Soil Present):  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9) (except Water Stained Leaves (B9) (mRLA 1, 2, 4, 4, and 4B)  Saturation (A3)  Saturation (A3)  Satirctus (B11)  Poristo Poposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aeriel Imagery (C9)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Black Histosol (A2)  Histic Epipedon (A2)  Stripped Matrix (S6)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRLA 1)  Hydrogen Sulfidie (A4)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Any Gleyed Matrix (S4)  Redox Depressions (F8)  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (except Matrix (B1)  Hydric Soil Present):  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9) (except Water Stained Leaves (B9) (mRLA 1, 2, 4, 4, and 4B)  Saturation (A3)  Saturation (A3)  Satirctus (B11)  Poristo Poposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aeriel Imagery (C9)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)	1Type: C- Concentration D- Depletion BM-Rec	Juced Matrix CS-Cover	ed or Coat	ted Sand G		2l ocation	· PI –Pore Lining M–Matriy
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2)  Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRLA 1) Very Shallow Dark Surface (F512) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) X Other (Explain in Remarks)  Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No  Remarks: Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the are inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except Water Stained Leaves (B9) (MRLA 1, 2, 4, 4, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) X Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation (Visible on Aeriel Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)	**	·		tea Garia G			<u> </u>
Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRLA 1)  Hydrogen Sulfide (A4)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Replace (Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9) (except  High Water Tables (A2)  MRLA 1, 2, 4A, and 4B)  Saturation (A3)  Satl Crust (B11)  X Other (Explain in Remarks)  Very Shallow Dark Surface (TF12)  No Other (Explain in Remarks)  No Other (Explain in Remarks)  Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present?  Yes X No  Remarks:  Sample pot a surface (TF12)  Wetland Hydrology Indicators  Secondary Indicators (2 or more required)  Water Stained Leaves (B9) (MRLA 1, 2, 4A, and 4B)  Parinary Indicators of hydrophytic vegetation and wetland hydrology in the stain p							•
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRLA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No  Remarks: Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Tables (A2) High Water Tables (A2) MRLA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Saturation (A3) Salt Crust (B11) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)	l <del></del>		•				
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8)  Restrictive Layer (if present): Type: Depth (inches):  Apple plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the are inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Tables (A2) High Water Tables (A2) High Water Tables (A2) Saturation (A3) Salt Crust (B11) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3)  Verification in Remarks:  A Other (Explain in Remarks)  **Indicators of hydrophytic vegetation and wetland hydrology must be present.  **Indicators of hydrophytic vegetation and wetland hydrology must be present.  **Wetland Hydric Soil Present?**  Hydric Soil Present?  Yes X No  **No  **Remarks:  **Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  **Hydric Soil Present?**  Hydric Soil Present?  Yes X No  **No  **Remarks:  Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area and presence of hydrophytic vegetation, it is assumed that the area and presence of hydrophytic vegetation.  **Hydric Soil Present?**  Yes X No  **No  **No  **Remarks:  Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area and presence of hydrophytic vegetation.  **Hydric	<del></del>		,	(except MI	RIA1)		, ,
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Depleted Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present): Type: Depth (inches):  Begin Inches):  Hydric Soil Present? Yes X No  Remarks:  Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Surface Water (A1) High Water Tables (A2) MRLA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Vater Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Setimation (D2)				(except ivit			` '
Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No  Remarks:  Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the are inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Tables (A2) MRLA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) X Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)	<del>-                                   </del>					Other (Explain in	Hemarks)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No  Remarks: Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the are inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Tables (A2) High Water Tables (A2) Saturation (A3) Salt Crust (B11) X Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)						3Indicators of hydroph	vtic vegetation and
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.  Restrictive Layer (if present):     Type:     Depth (inches): Hydric Soil Present? Yes X No  Remarks:  Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the are inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9) (except High Water Tables (A2) MRLA 1, 2, 4A, and 4B)  Saturation (A3) Salt Crust (B11)  X Water Marks (B1) Aquatic Invertebrates (B13)  Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)  Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)	` '			١			,
Restrictive Layer (if present):	<del></del>	<del></del> ·	` '	,			
Type: Depth (inches):  Remarks:  Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the are inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Tables (A2) High Water Tables (A2) Saturation (A3) Salt Crust (B11) X Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)						amoso distarboa or p	7001011101101
Depth (inches):  Remarks:  Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Surface Water (A1)  High Water Tables (A2)  MRLA 1, 2, 4A, and 4B)  Saturation (A3)  Salt Crust (B11)  X Water Marks (B1)  Aquatic Invertebrates (B13)  Dry-Season Water Table (C2)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aeriel Imagery (C9)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)							
Remarks:  Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Tables (A2)  MRLA 1, 2, 4A, and 4B)  Saturation (A3)  Salt Crust (B11)  X Water Marks (B1)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)		•				Uvdria Cail Dracant?	Voc V No
Sample plot nearly meets redox dark surface. Given presence of water marks in the area and presence of hydrophytic vegetation, it is assumed that the area inundated for 14 or more consecutive days during growing season and therefore hyric soil is present.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Tables (A2)  MRLA 1, 2, 4A, and 4B)  Saturation (A3)  Salt Crust (B11)  X Water Marks (B1)  Aquatic Invertebrates (B13)  Dry-Season Water Table (C2)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation (D2)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)	Deptif (incres):	<u>.                                      </u>				nyaric Soil Present?	
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Tables (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)  Water Stained Leaves (B9) (except MRLA 1, 2, 4A, and 4B)  Salt Crust (B11) Aquatic Invertebrates (B13) Drift Deposits (B2) Drift Deposits (B3)  Secondary Indicators (2 or more required)  Water Stained Leaves (B9) (MRLA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)							
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High Water Tables (A2) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) X Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)		,	aves (R9)	(except			· · · · · ·
Saturation (A3)  X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3)  Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery (C9) Geomorphic Position (D2)	·		, ,				,aves (B5) ( <b>MITTER 1, 2,</b>
X       Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aeriel Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)			., a.i.a i.b.,			, ,	ıs (B10)
Sediment Deposits (B2) Drift Deposits (B3) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Saturation Visible on Aeriel Imagery (C9) Geomorphic Position (D2)	<del></del>		ates (B13)	)			
Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)							, ,
<del></del>	<del></del>	<u> </u>	, ,	•	oots (C3)		
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)	l <del></del>			-	,		, ,
Iron Deposits (B5)  Recent Iron Reduction in Tilled Soils (C6)  X FAC-Neutral Test (D5)	<del></del>				C6)		
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)	Surface Soil Cracks (B6)						
Inundation Visible on Aeriel Imagery (B Other (Explain in Remarks) Frost-Heave Hummocks (D7)	Inundation Visible on Aeriel Imagery (B	Other (Explain in	Remarks)			Frost-Heave Hur	nmocks (D7)
Sparsley Vegetated Concave Surface (B8)	Sparsley Vegetated Concave Surface (B8)						
Field Observations:	Field Observations:						
Surface Water Present? Yes No X Depth (inches):	Surface Water Present? Yes No	X Depth (inches):					
Water Table Present? Yes No X Depth (inches):	Water Table Present? Yes No	X Depth (inches):					
Saturation Present? Yes X No Depth (inches): 16.0 Wetland Hydrology Present? Yes X No	Saturation Present? Yes X No	Depth (inches):		16.0	Wetland	d Hydrology Present?	Yes X No
(includes capillary fringe)	(includes capillary fringe)						
Describe Recorded Date (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Date (stream gauge, monitoring	ng well, aerial photos, pr	revious ins	spections), i	if availabl	e:	
Remarks:	Remarks:						
Saturated at 16. Sample plot meets primary hydrology indicator for water marks and secondary hydrology indicator for FAC-neutral test. Although October is technically during the wet season, in a forested depressional wetland, groundwater has not yet recharged. Water marks indicate area around sample plot is inundated at least occasionally.	technically during the wet season, in a forested de						

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Date:	10/16/2019	
Applicant/Owner: Sound Transit		_	State: WA	Sampling Point:	SP WFW 2-1	
nvestigators: STORY, PACE			Section, Township,	Range: T21N R4E S21		
andform (hillslope, terrace, etc.): Depression		Local Rel	ief (concave, convex,	none): None	Slope(%): 0	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.299	564 Long	:122.312294	Datum: WG	S84	
Soil Map Unit Name: Tukwila muck			NWI Classific	cation: PFO		
Are climatic / hydrologic conditions on the site typ	pical for this time of	year? Yes		_ (If No, explain in Rema	arks)	
Are Vegetation: Soil or Hydrology	significantly o	disturbed?	Are "Normal Circun	nstances" present?	Yes X	No
Are Vegetation: Soil or Hydrology	naturally prob		, ,	any answers in Remarks	,	
SUMMARY OF FINDINGS - Attach a	site map show	ing sampling	point locations	, transects, import	ant features, etc	<b>).</b>
Hydrophytic Vegetation Present? Yes _	X No					
Hydric Soil Present? Yes_	X No		e Sampled Area			
Vetland Hydrology Present? Yes	No	withi	n a Wetland?	Yes X	No	
Remarks:						
Sample plot meets 3 of 3 wetland criteria, is loca dry season so dry season conditions were still co				nan normal; however, site	e visit occurred at end	d of the
/EGETATION – Use scientific names	of plants.					
	Absolute	Dominant	Indicator	Dominance Test Wor		
Tree Statum (Plot size: 5m)	% Cover	Species?	Status	Number of Dominant S	•	
Salix lasiandra	80	Yes	FACW	That Are OBL, FACW,		(A)
2				Total Number of Domir		<b>(B</b> )
3.				Species Across All Stra		— <sup>(B)</sup>
ł			<del>.</del> ———	Percent of Dominant S	•	(A (D)
Conding (Church Churchurg (Diet eines Ore)	80	= Total Cover	•	That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size: 3m)	15	Yes	FACW	Prevalence Index wor		
Spiraea douglasii     Salix lasiandra	- 15 10	Yes	FACW	Total % Cover of:	<u>Multiply by:</u> x1=	
3.				OBL species FACW species	105 x2= 210	
				FAC species	x3 = 0	
 5.				FACU species	x4=0	
	25	= Total Cover	<del>.</del> ———	UPL species	x5= 0	
Herb Stratum (Plot size: 1m)					105 (A) 210	— (B)
(					( ,	(/
2.				Prevalence Index :	= <i>B/A</i> = 2	2.00
3.	_			Hydrophytic Vegetati	on Indicators:	
l				X 1 - Rapid Test fo	or Hydrophytic Vegeta	ation
j.				X 2 - Dominance T	est is >50%	
).			_	X 3 - Prevalence In	ndex is ≤3.0¹	
7.				4 - Morphologica	al Adaptations¹ (Provi	de
3.				data in Rem	arks or on a separate	sheet)
).				5 - Wetland Non	-Vascular Plants <sup>1</sup>	
				Problematic Hyd	Irophytic Vegetation1	(Explain)
·						ogy
				<sup>1</sup> Indicators of hydric so	il and wetland hydrol	
		= Total Cover		<sup>1</sup> Indicators of hydric so must be present, unles	•	matic.
1.		= Total Cover	- ————————————————————————————————————	must be present, unles	•	matic.
Noody Vine Stratum (Plot size:)		= Total Cover		must be present, unles	s disturbed or proble	matic.
10.  Noody Vine Stratum (Plot size:)  1.			<del>-</del>	must be present, unles  Hydrophytic  Vegetation	•	matic.
Noody Vine Stratum (Plot size: )		= Total Cover  = Total Cover ver of Biotic Crus	= ==	must be present, unles	s disturbed or proble	matic.

SOIL Sampling Point: SP WFW 2-1

	ription: (Describe to t	he depth neede	eded to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			ox Feature			-				
(inches)	Color (moist)	<u></u> %	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	}	
0-18	10YR 3/1	100					Organic	Muck			
¹Type: C= Co	oncentration, D= Deple	tion, RM=Reduc	ed Matrix, CS=Cover	red or Coa	ted Sand G	rains.	²Loc	ation: PL=Po	re Lining, I	M=Matrix.	
Hydric Soil I	ndicators: (Applicab	le to all LRRs, ເ	ınless otherwise no	ted.)			Indicators for Pro	blematic Hyd	ric Soils <sup>3</sup> :		
X Histos	ol (A1)	_	Sandy Redox (S	-			2 cm Muck				
	Epipedon (A2)	_	Stripped Matrix (					Material (TF2	<i>'</i>		
	Histic (A3)	_	Loamy Mucky Mi		(except ML	RLA 1)		w Dark Surfac			
	gen Sulfide (A4)	_	Loamy Gleyed M				Other (Expl	ain in Remark	.s)		
	ed Below Dark Surfac	e (A11)	Depleted Matrix (								
	Dark Surface (A12)	_	Redox Dark Surf				<sup>3</sup> Indicators of hyd	. ,			
	Mucky Mineral (S1)	_	Depleted Dark S		)		wetland hydrol				
	Gleyed Matrix (S4)	_	Redox Depression	ons (F8)			unless disturbe	d or problema	itic.		
	Layer (if present):										
Type:											
Depth	(inches):						Hydric Soil Pres	sent? Yes	• <u>X</u>	_ <sup>No</sup>	
Remarks:											
Sample plot n	neets hydric soil indica	tor A1, Histosol.									
LIVEROLG	201/										
HYDROLC											
1	/drology Indicators:						0 , , , , ,				
l <del></del>	icators (minimum of or	ne required; chec		(Da)	, .		Secondary Indica				
	e Water (A1)	_	Water-Stained Le	, ,				ed Leaves (B	9) ( <b>MRLA</b>	1, 2,	
	Vater Tables (A2)		MRLA 1, 2, 4	A, and 4B)			4A, and				
X Satura		_	Salt Crust (B11)	(D40)				atterns (B10)	(00)		
	Marks (B1)	_	Aquatic Invertebr	, ,				Water Table		. (00)	
	ent Deposits (B2)	_	— Hydrogen Sulfide			+- (00)		/isible on Aeri		, (C9)	
	eposits (B3)	_	Oxidized Rhizosp Presence of Red		-	oois (C3)		Position (D2)	)		
	Mat or Crust (B4)	_	Recent Iron Red			C6)	Shallow Aq				
	eposits (B5) e Soil Cracks (B6)	_	Stunted or Stress		,	,	X FAC-Neutra	Mounds (D6)	/I DD A\		
	ation Visible on Aeriel	lmagery (B	Other (Explain in		. , ,	A)		Hummocks			
	ey Vegetated Concav	- · · · -	— Other (Explain III	riemarks)				FIIUIIIIIOCKS	(17)		
		C Guriace (Bo)				1					
Field Obse		V No	Donth (inches)		0.50						
	ter Present? Yes	X No —	Depth (inches):  Depth (inches):		0.50						
Water Table Saturation I		X No —	Depth (inches):		0.0	Wetlan	d Hydrology Prese	nt? Voc	s X	No	
	apillary fringe)		— Deptir (inches).		0.0	Wellan	a riyarology Frese	ent? Yes	, <u> </u>	_ 110	
Describe Rec	orded Date (stream ga	auge, monitoring	well, aerial photos, p	revious ins	spections), i	t availabl	le:				
Remarks:											
	neets primary hydrolog		Surface Water (A1), F	High Water	Table (A2)	, Saturati	ion (A3), and Water	Marks (B1) a	nd second	ary hydrology	
indicator for F	AC-Neutral Test (D5).	-									

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ite: 10/16/2019		
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	int: SP WFW 2	-2	
Investigators: STORY, PACE			Section, Township,	<del></del> Range: T21N R4E S	21		
Landform (hillslope, terrace, etc.): Flat		Local Reli	ef (concave, convex,	none): Convex	Slop	e(%): 15	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2995	<u> </u>	-122.312218	Datum:	WGS84		
Soil Map Unit Name: Tukwila muck			NWI Classific	cation: UPL			
Are climatic / hydrologic conditions on the site typical	al for this time of	year? Yes	No X	(If No, explain in R	emarks)		
Are Vegetation: SoilX or Hydrology	significantly d	isturbed?	Are "Normal Circun	nstances" present?	Yes	X N	lo
Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain	any answers in Rem	arks.)		
<b>SUMMARY OF FINDINGS - Attach a site</b>	e map showi	ng sampling	point locations	, transects, imp	ortant featu	res, etc.	
Hydrophytic Vegetation Present? Yes X	No						
Hydric Soil Present? Yes	No X	Is the	Sampled Area				
Wetland Hydrology Present? Yes	No X	withi	n a Wetland?	Yes		No X	
Remarks:		-					
On constructed fill berm upslope from boundary. Sa wetter than normal for time of year.		of 3 wetland crite	ria, is not located in a	wetland. Paired upla	and plot for WF\	V 2-1. Cond	ditions
VEGETATION – Use scientific names o				T= . =			
	Absolute	Dominant	Indicator	Dominance Test			
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Domina	'		(4)
1. Alnus rubra	15	Yes	_ FAC	That Are OBL, FAC	•	4	_ <sup>(A)</sup>
2				Total Number of Do		6	(D)
3.				Species Across All Percent of Domina		6	— <sup>(B)</sup>
4	15	= Total Cover	<del>.</del>	That Are OBL, FAC	·	67	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)		= Total Cover		Prevalence Index			(A/b)
1. Rubus ursinus	5	Yes	FACU	Total % Cover of:		iply by:	
Rubus armeniacus	4	Yes	- FACO FAC	OBL species	<u>wun</u> x1=	ipiy by.	
3. Rubus spectabilis	3	Yes	- FAC	FACW species	x1= x2=	0	_
4.				FAC species	72 x3=	216	_
5.				FACU species	$\frac{72}{35}$ x4=	140	_
	12	= Total Cover		UPL species	x5=	0	_
Herb Stratum (Plot size: 1m)		= 10tal 00101		Column Totals:	107 (A)	356	— (B)
Agrostis capillaris	50	Yes	FAC				<b>—</b> (-/
2. Dactylis glomerata	30	Yes	FACU	Prevalence Ind	lex = B/A=	3.3	33
3.				Hydrophytic Vege	tation Indicato	rs:	
4.				1 - Rapid Te	st for Hydrophy	tic Vegetati	on
5.				X 2 - Dominan	ce Test is >50%	)	
6.				3 - Prevalenc	ce Index is ≤3.0	1	
7.				4 - Morpholo	gical Adaptation	ns¹ (Provide	e
8.				data in F	Remarks or on a	separate s	sheet)
9.				5 - Wetland I	Non-Vascular P	lants¹	
10.				Problematic	Hydrophytic Ve	getation¹ (E	xplain)
11.				<sup>1</sup> Indicators of hydri	c soil and wetla	nd hydrolog	Jy
	80	= Total Cover		must be present, u	nless disturbed	or problem	atic.
Woody Vine Stratum (Plot size:)							
1				Hydrophytic			
2.				Vegetation	Yes X	No	
		= Total Cover		Present?			_
% Bare Ground in Herb Stratum 20		er of Biotic Crus	t				
Remarks:			<del></del> _	•			
Sample plot meets dominance test but not prevalen	ce index for hydr	ophytic vegetatic	n.				

SOIL Sampling Point: SP WFW 2-2

Profile Desc	ription: (Describ	e to the depth ne	eded to	document the i	indicator c	or confirm	the abse	ence of indicators.)				
Depth	M	atrix		Red	ox Feature	s						
(inches)	Color (moist	) %	C	color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	S	
0-14	10 YR 3/3	100						Sandy Loam				
¹Type: C= Co	oncentration, D=	Depletion, RM=Re	duced N	Matrix, CS=Cover	ed or Coat	ted Sand G	rains.	²Locat	ion: PL=	Pore Lining,	M=Matr	ix.
Hydric Soil I	ndicators: (App	licable to all LRR	s, unles	ss otherwise no	ted.)			Indicators for Probl	ematic H	lydric Soils	³:	
	sol (A1)			Sandy Redox (S	•			2 cm Muck (A				
	Epipedon (A2)			Stripped Matrix (	•			Red Parent M	,	•		
	Histic (A3)			Loamy Mucky Mi		(except ML	RLA 1)	Very Shallow				
	gen Sulfide (A4)			Loamy Gleyed M				Other (Explai	n in Rema	arks)		
	ted Below Dark S	* *		Depleted Matrix (				<b>21</b> II				
	Dark Surface (A1			Redox Dark Surf				<sup>3</sup> Indicators of hydro		ŭ	ť	
	/ Mucky Mineral (	•		Depleted Dark S		)		wetland hydrolog	-	•		
	Gleyed Matrix (S	•		Redox Depressio	IIS (FO)			unless disturbed	or proble	malic.		
	Layer (if preser	nt):										
	Quarry Spall	1.4	_					Undein Cail Dean	+O \	/	NI-	v
Depth	(inches):	14	_					Hydric Soil Prese	<u>nt?</u>	Yes	No	X
HYDROLO	OGY											
Wetland Hy	ydrology Indicat	ors:										
Primary Ind	licators (minimum	of one required;	check al	l that apply)				Secondary Indicate	ors (2 or i	more require	d)	
Surfac	ce Water (A1)		,	Water-Stained Le	eaves (B9)	(except		Water Staine	d Leaves	(B9) (MRLA	1, 2,	
High \	Water Tables (A2)	)		MRLA 1, 2, 4A	A, and 4B)			4A, and 4E	3)			
Satura	ation (A3)			Salt Crust (B11)				Drainage Pat	terns (B1	0)		
	Marks (B1)			Aquatic Invertebr	, ,			Dry-Season \		` '		
	nent Deposits (B2	)		Hydrogen Sulfide				Saturation Vis		_	y (C9)	
	eposits (B3)			Oxidized Rhizosp		-	oots (C3)		•	D2)		
	Mat or Crust (B4)			Presence of Red	,	'		Shallow Aqui				
	eposits (B5)	0)		Recent Iron Redu		•		FAC-Neutral				
	ce Soil Cracks (B	•		Stunted or Stress		(D1) ( <b>LRR</b>	<b>A</b> )	Raised Ant M	•	, , , ,		
	ation Visible on A			Other (Explain in	Hemarks)			Frost-Heave	Hummock	KS (D7)		
		ncave Surface (B	) ————————————————————————————————————					-				
Field Obse		v/oo No	v	Donth (inches)								
Water Table		Yes — No Yes No		Depth (inches): Depth (inches):								
Saturation I		Yes No		Depth (inches): . Depth (inches):			Wetlan	d Hydrology Presen	t2 \	Yes	No	х
	apillary fringe)			Deptii (iiiciies).			Wellan	a riyarology Fresen			_''	
			d				f:lalal	1				
Describe Nec	orded Date (Sirea	am gauge, monitoi	ing weii	, aeriai priotos, p	revious iris	spections), i	i avallabi	ie.				
Remarks:												
No primary or	r secondary hydro	ology indicators ob	served.									

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	te: 10/16/2019	)			
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	int: SP WFW 2	:-3			
Investigators: STORY, PACE			Section, Township, I	Range: T21N R4E S	21				
Landform (hillslope, terrace, etc.): Depression		Local Reli	ef (concave, convex,	none): None	Slop	e(%): 1			
Subregion (LRR): A - Northwestern Forest,	Lat: 47.3000	 98	-122.310761	Datum:	Datum: WGS84				
Soil Map Unit Name: Alderwood gravelly sandy loa	am		NWI Classific	ation: PFO					
Are climatic / hydrologic conditions on the site typical	al for this time of y	vear? Yes	S No X	(If No, explain in Re	emarks)				
Are Vegetation: Soil or Hydrology _	significantly di	sturbed?	Are "Normal Circum	stances" present?	Yes	<u>X N</u>	lo		
Are Vegetation: Soil or Hydrology _	naturally probl	ematic?	(If needed, explain	any answers in Rema	arks.)				
SUMMARY OF FINDINGS - Attach a sit	e map showii	ng sampling	point locations	, transects, imp	ortant featu	res, etc.			
Hydrophytic Vegetation Present? Yes X	. No								
Hydric Soil Present? Yes X	No	Is the	Sampled Area						
Wetland Hydrology Present? YesX	No	withir	n a Wetland?	Yes	X	No			
Remarks:									
Plot in WFW 2. Sample plot has 3 of 3 criteria, is loc	cated in a wetland	. Conditions wet	ter than normal for tir	ne of year.					
VEGETATION – Use scientific names of	of plants.								
	Absolute	Dominant	Indicator	Dominance Test \	Worksheet:				
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Domina	nt Species				
1. Fraxinus latifolia	60	Yes	FACW	That Are OBL, FAC	CW, or FAC:	3	_ (A)		
2				Total Number of Do					
3				Species Across All		3	<b>—</b> <sup>(B)</sup>		
4				Percent of Domina	·				
	60	= Total Cover		That Are OBL, FAC	•	100	(A/B)		
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index					
Rubus spectabilis	40	Yes	FAC	Total % Cover of:		<u>iply by:</u>			
2. Spiraea douglasii	20	Yes	FACW	OBL species	x1=		_		
3.				FACW species	80 x2=	160	_		
4.				FAC species	40 x3=	120	_		
5.			_	FACU species	x4=	0	_		
Howle Christian (Diet since the)	60	= Total Cover		UPL species	x5=	0	— <sub>(B)</sub>		
Herb Stratum (Plot size: 1m)				Column Totals:	120 (A)	280	— <sup>(B)</sup>		
1.				Prevalence Ind	ov D/A	0.0			
2. 3.				Hydrophytic Vege		2.3			
4.					st for Hydrophy		on		
5.					ce Test is >50%	_	OH		
6.					ce Index is ≤3.0				
7.					gical Adaptatio		2		
8.					Remarks or on a				
9.					Non-Vascular P		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
10.							xplain)		
11.				Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology					
<u> </u>		= Total Cover		must be present, ui					
Woody Vine Stratum (Plot size:)				, , , , , , , , , , , , , , , , , , ,		- p. 30.0711			
1.				Hydrophytic					
2.				Vegetation	Yes X	No			
		= Total Cover		Present?		·	_		
% Bare Ground in Herb Stratum 100		er of Biotic Crust	t						
Remarks:	<del>_</del>								
Sample plot meets dominance test and prevalence	index for hydroph	vtic vegetation							
Cample plot moote dominance test and prevalence	acx for flydropfi	, vogotation.							

SOIL Sampling Point: SP WFW 2-3

Profile Descr	iption: (Descri	be to t	he dept	h need	ed to document the i	indicator o	or confirm	the abse	ence of indicators.)			
Depth	N	/latrix			Rede	ox Feature	s					
(inches)	Color (mois	st)	%		Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remark	s
0-14	10YR 2/1		100						Silt Loam			
14-18	10 YR 4/2	2	97		10YR 3/4	3	С	М	Silty Clay Loam			
					ced Matrix, CS=Cover		ted Sand G			tion: PL=Po		
1		plicabl	e to all l	LRRs, ı	unless otherwise not				Indicators for Prob	_	dric Soils	3:
— Histos				_	Sandy Redox (St	•			2 cm Muck (	•		
	Epipedon (A2)			_	Stripped Matrix (	•		D. 4.4)	Red Parent I	,	,	
	Histic (A3)			_	Loamy Mucky Mi		(except ML	.RLA 1)	Very Shallov			
	gen Sulfide (A4)		~ /Add\	_	Loamy Gleyed M				Other (Expla	ın ın Remarı	KS)	
	ed Below Dark Dark Surface (A		e (A11)	_	Depleted Matrix (				3Indicators of buds	ranhutia waa	atation and	<u>ا</u>
	Mucky Mineral			_	Redox Dark Surfa Depleted Dark St				<sup>3</sup> Indicators of hydrolo wetland hydrolo			ı
	Gleyed Matrix			_	Redox Depression		,		unless disturbed			
	Layer (if prese			_					umoss distance			
Type:	Layer (II prese	:iii).										
1	(inches):								Hydric Soil Prese	ent? Ye	es X	No
	(inches).								Tryunc con rics		<u> </u>	
Remarks:			0 1				0.10		40 11 1 1 1			
Hydrogen suii	iide odor at 10 ii	nches.	Sample	piot me	ets hydric soil indicate	or A4, Hya	rogen Sulli	ue, and A	112, thick dark surfac	e.		
HYDROLO	GY											
Wetland Hy	drology Indica	tors:										
Primary Ind	icators (minimu	m of on	ne requir	ed; che	ck all that apply)				Secondary Indica	tors (2 or ma	ore require	ed)
Surfac	e Water (A1)				Water-Stained Le	eaves (B9)	(except		Water Staine			
X High V	Vater Tables (A	2)		_	MRLA 1, 2, 4A	A, and 4B)			4A, and 4	<b>B</b> )		
X Satura	ition (A3)				Salt Crust (B11)				Drainage Pa	tterns (B10)		
Water	Marks (B1)				Aquatic Invertebr	ates (B13)	•		Dry-Season	Water Table	(C2) ÷	
Sedim	ent Deposits (B	2)			X Hydrogen Sulfide	Odor (C1	)		Saturation V	isible on Aer	riel Imager	y (C9)
Drift D	eposits (B3)			_	Oxidized Rhizosp	oheres alor	ng Living R	oots (C3)	Geomorphic	Position (D2	2)	
Algal N	Mat or Crust (B4	·)		_	Presence of Red	uced Iron (	(C4)		Shallow Aqu	itard (D3)		
	eposits (B5)			_	Recent Iron Redu		•		FAC-Neutral	Test (D5)		
	e Soil Cracks (E	•		_	Stunted or Stress			<b>A</b> )	Raised Ant N			
	ation Visible on		• .	· –	Other (Explain in	Remarks)			Frost-Heave	Hummocks	(D7)	
	ey Vegetated C	oncave	• Surface	e (B8)								
Field Obse												
	ter Present?	Yes	N		X Depth (inches):							
Water Table		Yes	X N	_	Depth (inches):		8.0		d Ukadaa la aas Daa aas	-10 V-	- v	NI-
Saturation F		Yes	<u>X</u> N	° —	Depth (inches): .		0.0	wetiand	d Hydrology Preser	nt? Ye	es X	No
	pillary fringe)							<u> </u>				
Describe Rec	orded Date (stre	eam ga	.uge, mo	nitoring	well, aerial photos, p	revious ins	spections), i	f availabl	e:			
Remarks:												
	neets wetland h	ydrolog	y indica	tors for	High Water Table (A2	2), Saturation	on (A3), an	d Hydrog	en Sulfide Odor (C1)	). Surface w	ater prese	nt in vicinity of
plot.												

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ite: 10/16/201	9	
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	int: SP WFW	2-4	
Investigators: STORY, PACE			Section, Township, F	Range: T21N R4E S	21		
Landform (hillslope, terrace, etc.): Hillslope		Local Reli	ef (concave, convex,	none): Convex	Slo	pe(%): 15	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.30004	<u>-</u> 15 Long:	-122.310776	Datum:	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy loa			NWI Classific	ation: UPL			
Are climatic / hydrologic conditions on the site typical	I for this time of y	ear? Yes	No X	(If No, explain in Re	emarks)		
Are Vegetation: Soil or Hydrology	significantly dis	sturbed?	Are "Normal Circum	stances" present?	Yes	X N	0
Are Vegetation: Soil or Hydrology	naturally proble	ematic?	(If needed, explain a	any answers in Rema	arks.)		
<b>SUMMARY OF FINDINGS - Attach a site</b>	e map showir	ng sampling	point locations,	transects, imp	ortant featu	ıres, etc.	
Hydrophytic Vegetation Present? Yes	No X						
Hydric Soil Present? Yes	No _X	Is the	Sampled Area				
Wetland Hydrology Present? Yes	No _X	withir	n a Wetland?	Yes		No X	
Remarks:							
Upland plot for wetland WFW 2. Sample plot has 0 o		ia, is not located	l in a wetland. Conditi	ons wetter than norr	nal for time of y	year.	
VEGETATION – Use scientific names o	•		1 2 .	la ·			
Too o Otations (District Section)	Absolute	Dominant	Indicator	Dominance Test			
Tree Statum (Plot size: 5m)	% Cover	Species?	Status	Number of Domina	•	0	<b>(A)</b>
Fraxinus latifolia     Pseudotsuga menziesii	<del>30</del>	Yes Yes	- FACW FACU	That Are OBL, FAC	•	2	_ <sup>(A)</sup>
3.		162	- <u>FACO</u>	Species Across All		7	(B)
4.				Percent of Domina			<b>—</b> (D)
	40	= Total Cover		That Are OBL, FAC	•	29	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)		- rotal covor		Prevalence Index			
Rubus ursinus	50	Yes	FACU	Total % Cover of:		tiply by:	
Rubus spectabilis	20	Yes	FAC	OBL species	x1=		
3. Oemleria cerasiformis	20	Yes	FACU	FACW species	30 x2=		_
4. Symphoricarpos albus	20	Yes	FACU	FAC species	20 x3=		_
5.				FACU species	130 x4=	520	_
	110	= Total Cover		UPL species	x5=	0	_
Herb Stratum (Plot size: 1m)				Column Totals:	180 (A)	640	— (B)
1. Polystichum munitum	30	Yes	FACU	,			
2.				Prevalence Ind	lex = B/A=	3.5	6
3.				Hydrophytic Vege	tation Indicat	ors:	
4.				1 - Rapid Te	st for Hydrophy	tic Vegetation	on
5.				2 - Dominano	ce Test is >50%	%	
6.				3 - Prevalend	ce Index is ≤3.0	O <sup>1</sup>	
7				4 - Morpholo	gical Adaptatic	ns¹ (Provide	)
8				data in F	Remarks or on	a separate s	heet)
9					Non-Vascular F		
10					Hydrophytic Ve	-	
11.				<sup>1</sup> Indicators of hydric			
 	30	= Total Cover		must be present, u	nless disturbed	or problema	atic.
Woody Vine Stratum (Plot size:)				l.,			
1.				Hydrophytic	V	NI= 27	
2		T-1-1-0		Vegetation	Yes	_No _X	_
9/ Para Cround in Harb Strature 22		= Total Cover		Present?			
% Bare Ground in Herb Stratum 20	<u>~</u> % Cove	er of Biotic Crust					
Remarks:							
Sample plot does not meet dominance test or preval	lence index for hy	drophytic vegeta	ation.				

SOIL Sampling Point: SP WFW 2-4

Profile Desc	ription: (Describe	to the depth ne	eeded to document the indicator or confirm the absence of indicators.)									
Depth	Mat	rix		Red	ox Feature	S						
(inches)	Color (moist)	%	C	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remar	ks	
0-18	10YR 3/2	100						Silt Loam				
¹Type: C= Co	oncentration, D= D	epletion, RM=Re	duced I	Matrix, CS=Cover	red or Coat	ted Sand G	rains.	²Locat	tion: PL	=Pore Lining	, M=Matr	rix.
Hydric Soil I	ndicators: (Appli	cable to all LRR	s, unle	ss otherwise no	ted.)			Indicators for Prob	lematic	Hydric Soils	) <sup>3</sup> :	
	sol (A1)			Sandy Redox (St	5)			2 cm Muck (A	<del>1</del> 10)			
	Epipedon (A2)			Stripped Matrix (				Red Parent N	,			
	Histic (A3)			Loamy Mucky Mi		(except ML	RLA 1)	Very Shallow			)	
	gen Sulfide (A4)			Loamy Gleyed M	, ,			Other (Explai	n in Ren	narks)		
	ted Below Dark Su			Depleted Matrix (								
	Dark Surface (A12			Redox Dark Surf				<sup>3</sup> Indicators of hydro		•	d	
	Mucky Mineral (S	·		Depleted Dark Si				wetland hydrolog		·		
	Gleyed Matrix (S	•		Redox Depression	ons (F8)			unless disturbed	or probl	ematic.		
	Layer (if present	):										
Type:			_									
Depth	(inches):		_					Hydric Soil Prese	:nt?	Yes	No	X
	acks hydric soil ind											
HYDROLO	OGY											
Wetland Hy	ydrology Indicato	rs:										
Primary Ind	licators (minimum o	of one required; o	heck al	ll that apply)				Secondary Indicate	ors (2 or	more require	<i>∋d)</i>	_
Surfac	ce Water (A1)			Water-Stained Le	eaves (B9)	(except		Water Staine	d Leave:	s (B9) ( <b>MRL</b> /	A 1, 2,	
High \	Water Tables (A2)			MRLA 1, 2, 4 <i>A</i>	A, and 4B)			4A, and 4I				
Satura	ation (A3)			Salt Crust (B11)				Drainage Pat	,	•		
	Marks (B1)			Aquatic Invertebr	,			Dry-Season \		, ,		
	nent Deposits (B2)			Hydrogen Sulfide				Saturation Vi		_	ry (C9)	
	eposits (B3)			Oxidized Rhizosp		-	oots (C3)					
	Mat or Crust (B4)			Presence of Red	`	· ′		Shallow Aqui				
	eposits (B5)			Recent Iron Redu		,		FAC-Neutral				
	Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A)						<b>A</b> )	Raised Ant M				
	ation Visible on Ae			Other (Explain in	Remarks)			Frost-Heave	Hummod	CKS (D7)		
	ley Vegetated Con	cave Surface (Bo	P)									
Field Obse		Ni-	V	Daniel Carlos V								
Water Table	ater Present? Ye			Depth (inches):								
Saturation I				Depth (inches): Depth (inches):			Wotlan	d Hydrology Presen	+2	Yes	No	х
	apillary fringe)	- 100 -		Deptil (inches).			Wellan	a riyarology Fresen	IL f		_ 140	
		<u>.</u>										
Describe Red	orded Date (strear	n gauge, monitor	ing wei	i, aeriai pnotos, p	revious ins	pections), i	T availadi	ie:				
Remarks:												
Sample plot la	acks primary and s	econd hydrology	indicat	ors.								

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ite: 10/18/201	9	
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	int: SP WFW	3-1	
Investigators: STORY, PACE			Section, Township,	<del></del> Range: T21N R4E S	21		
Landform (hillslope, terrace, etc.): Floodplain		Local Reli	ef (concave, convex,	none): None	Slo	oe(%): 2	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2963	<u> </u>	-122.305145	Datum:	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy loa	ım		NWI Classific	cation: PFO			
Are climatic / hydrologic conditions on the site typical	al for this time of	year? Yes	No X	(If No, explain in R	emarks)		
Are Vegetation: Soil or Hydrology	significantly d	isturbed?	Are "Normal Circur	nstances" present?	Yes	X N	lo
Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain	any answers in Rem	arks.)		
SUMMARY OF FINDINGS - Attach a site	e map showi	ng sampling	point locations	, transects, imp	ortant featu	ıres, etc.	
Hydrophytic Vegetation Present? Yes X	No						
Hydric Soil Present? Yes X	No	Is the	Sampled Area				
Wetland Hydrology Present? Yes X	No	withii	n a Wetland?	Yes	X	No	
Remarks: On bench above E. Hylebos Creek. Conditions wett	er than normal fo	or time of year. Sa	ample plot has 3 of 3	criteria, is located wi	thin WFW-3.		
VEGETATION – Use scientific names of		Davisari	la dia dan	D	Wastalaa		
Tune Chatture (Diet sine)	Absolute	Dominant	Indicator	Dominance Test			
Tree Statum (Plot size: 5m)	% Cover	Species?	Status	Number of Domina	•	4	<b>(A</b> )
Fraxinus latifolia     Alnus rubra	10	Yes No	_ FACW FAC	That Are OBL, FAC	*	4	_ <sup>(A)</sup>
3.				Species Across All		6	(B)
4.				Percent of Domina			— <sup>(D)</sup>
<u> </u>	70	= Total Cover		That Are OBL, FAC		67	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)		= 10tal 00vel		Prevalence Index			
Rubus armeniacus	20	Yes	FAC	Total % Cover of:		tiply by:	
2. Rubus spectabilis	15	Yes	FAC	OBL species	x1=		
3. Oemleria cerasiformis	10	Yes	FACU	FACW species	60 x2=		_
4. Rubus ursinus	3	No	FACU	FAC species	48 x3=		
5.				FACU species	18 x4=	72	_
	48	= Total Cover		UPL species	x5=	0	
Herb Stratum (Plot size: 1m)				Column Totals:	126 (A)	336	— (B)
1. Hedera helix	5	Yes	FACU				_
2. Ranunculus repens	3	Yes	FAC	Prevalence Ind	lex = B/A=	2.6	67
3.				Hydrophytic Vege	tation Indicate	ors:	
4.				1 - Rapid Te	st for Hydrophy	rtic Vegetati	on
5				X 2 - Dominan	ce Test is >50%	<b>%</b>	
6.				X 3 - Prevalence	ce Index is ≤3.0	)1	
7				4 - Morpholo	gical Adaptatio	ns¹ (Provide	)
8.					Remarks or on		sheet)
9					Non-Vascular F		
10					Hydrophytic Ve	-	
11.				<sup>1</sup> Indicators of hydric			
Maraka Via a Otrata (District)	8	= Total Cover		must be present, u	niess disturbed	or problem	atic.
Woody Vine Stratum (Plot size:)				Libratus ta*			
1.				Hydrophytic	V Y	Nie	
2		Total Cause		Vegetation	Yes X	_ <sup>No</sup>	_
9/ Rara Ground in Harb Stratum 90	0/ 0	= Total Cover	<b>.</b>	Present?			
% Bare Ground in Herb Stratum 89	<u> </u>	ver of Biotic Crus	·				
Remarks:							
Sample plot meets dominance test and prevalence	naex for hydroph	nytic vegetation.					

SOIL Sampling Point: SP WFW 3-1

Profile Descr	iption: (Describe to t	he depth neede	d to document the ir	ndicator o	or confirm	the abse	ence of indicators.)	
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	10 YR 3/2	95	10YR 4/6	5	C		Silt Loam	
14-18	10YR 4/2	98	10YR 5/4	2			Sandy Loam	
¹Type: C= Co	ncentration, D= Deple	tion, RM=Reduc	ed Matrix, CS=Covere	ed or Coat	ted Sand G	rains.	<sup>2</sup> Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators: (Applicab	le to a <b>ll</b> LRRs, u	nless otherwise note	ed.)			Indicators for Proble	ematic Hydric Soils³:
Histos	ol (A1)		Sandy Redox (S5)	)			2 cm Muck (A	10)
Histic I	Epipedon (A2)	_	Stripped Matrix (S				Red Parent Ma	
	Histic (A3)	_	Loamy Mucky Min		(except ML	RLA 1)		Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Ma				Other (Explain	in Remarks)
l —	ed Below Dark Surfac	· · · —	Depleted Matrix (F					
	Dark Surface (A12)	<u> </u>	X Redox Dark Surfa					ohytic vegetation and
	Mucky Mineral (S1)	_	Depleted Dark Sur		)		wetland hydrology	•
	Gleyed Matrix (S4)	_	Redox Depression	IS (F6)			unless disturbed o	or problematic.
	Layer (if present):							
Type:	(inch o c)						Uraduia Cail Duanam	Ma Van V Na
Remarks:	(inches):						Hydric Soil Presen	t? Yes X No
Lots of gravel.	. Sample plot meets h	ydric soil indicato	or F6, Redox Dark Suri	face.				
HYDROLO	GY							
	drology Indicators:							
1	cators (minimum of or	ne required; chec	k all that apply)				Secondary Indicator	rs (2 or more required)
	e Water (A1)		Water-Stained Lea	aves (B9)	(except			Leaves (B9) ( <b>MRLA 1, 2,</b>
X High V	Vater Tables (A2)	_	— MRLA 1, 2, 4A,				4A, and 4B	
X Satura	tion (A3)		Salt Crust (B11)				Drainage Patte	erns (B10)
Water	Marks (B1)		Aquatic Invertebra	ites (B13)	•		Dry-Season W	ater Table (C2)
Sedim	ent Deposits (B2)	<u> </u>	Hydrogen Sulfide	Odor (C1	)		Saturation Visi	ble on Aeriel Imagery (C9)
Drift D	eposits (B3)		Oxidized Rhizosph	heres alor	ng Living Ro	oots (C3)	Geomorphic P	osition (D2)
	Mat or Crust (B4)	_	Presence of Redu	`	` '		Shallow Aquita	
	eposits (B5)		Recent Iron Reduc				FAC-Neutral T	, ,
	e Soil Cracks (B6)	—	Stunted or Stresse			<b>A</b> )		ounds (D6) (LRR A)
	tion Visible on Aeriel	_	Other (Explain in F	⊣emarks)			—— Frost-Heave H	lummocks (D7)
	ey Vegetated Concave	e Surface (B8)						
Field Obse								
	ter Present? Yes	No X	' ` ' _		10.0			
Water Table		X No —	Depth (inches): _		12.0	Wetlens	d Uvdveleny Dvecent	O Voo V No
Saturation F	Present? Yes pillary fringe)	_X_No	Depth (inches): _		9.0	welland	d Hydrology Present	? Yes <u>X</u> No
Describe Rec	orded Date (stream ga	luge, monitoring	well, aerial photos, pre	evious ins	spections), i	t availabl	e:	
Remarks:								
Sample plot m	neets primary hydrolog	y indicators for s	aturation and high wa	ter table.				

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	ate: 10/18/2019	9	
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	oint: SP WFW 3	3-2	
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S	21		
Landform (hillslope, terrace, etc.): Toeslope		Local Reli	ef (concave, convex,	none): None	Slop	pe(%): 3	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2963	<u> </u>	-122.305130	Datum:	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy lo	pam		NWI Classific	cation: UPL			
Are climatic / hydrologic conditions on the site typic	cal for this time of	year? Yes	No X	(If No, explain in R	emarks)		
Are Vegetation: SoilX or Hydrology	significantly d	isturbed?	Are "Normal Circur	nstances" present?	Yes	X N	lo
Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain	any answers in Rem	arks.)		
SUMMARY OF FINDINGS - Attach a si	te map showi	ng sampling	point locations	, transects, imp	ortant featu	ıres, etc.	
Hydrophytic Vegetation Present? Yes	X No						
Hydric Soil Present? Yes	No X	Is the	Sampled Area				
Wetland Hydrology Present? Yes	No _X	withi	n a Wetland?	Yes		No X	
Remarks:							
Soil disturbed from adjacent fill. Conditions wetter	than normal for tin	ne of year. Samp	le plot has 1 of 3 wet	land criteria, is not lo	cated in a wetla	and.	
VEGETATION – Use scientific names	of plants.  Absolute	Dominant	Indicator	Dominance Test	Workshoot:		
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Domina			
1.		Species:		That Are OBL, FAC		2	(A)
2.			_	Total Number of Do			<b>—</b> (^)
3.				Species Across All		3	(B)
4.			_	Percent of Domina			<b>—</b> (-/
		= Total Cover		That Are OBL, FAC	•	67	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index			
Rubus armeniacus	45	Yes	FAC	Total % Cover of:	<u>Mul</u>	tiply by:	
2. Acer circinatum	35	Yes	FAC	OBL species	x1=		
3. Oemleria cerasiformis	10	No	FACU	FACW species	x2=	0	
4. Rubus ursinus	4	No	FACU	FAC species	80 x3=	240	
5.				FACU species	21 x4=	84	
	94	= Total Cover		UPL species	x5=	0	_
Herb Stratum (Plot size: 1m)				Column Totals:	(A)	324	(B)
Polystichum munitum	7	Yes	FACU				
2			_	Prevalence Inc		3.2	21
3				Hydrophytic Vege			
4				· ——	st for Hydrophy	_	on
5.			_	X 2 Dominan			
6.			_	<del></del>	ce Index is ≤3.0		
7.			_	<u> </u>	gical Adaptatio	·	
8.				•	Remarks or on a Non-Vascular F		sneet)
9			_	<del></del>	Hydrophytic Ve		Evolain)
11.			_	¹Indicators of hydri		-	
	7	= Total Cover		must be present, u			
Woody Vine Stratum (Plot size:)		- 10tal 00v6l		mast bo prosont, u	ooo alotarbea	S. PIODICITI	vi
1.				Hydrophytic			
2.			_	Vegetation	Yes X	No	
		= Total Cover	_	Present?			_
% Bare Ground in Herb Stratum 89		er of Biotic Crus	t				
Remarks:	<del></del>			· I			
Sample plot meets dominance test but not prevale	nce index for hydr	ophytic vegetatio	ın.				
		- p,					

SOIL Sampling Point: SP WFW 3-2

Profile Descr	iption: (Describe to	the depth ne	eded	to document the	indicator o	or confirm	the abse	nce of indicators.	)			
Depth	Matrix			Red	ox Feature	S						
(inches)	Color (moist)	%		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	S	
0-7	10YR 3/2	100						Loamy Sand				
7-18	2.5Y 4/3	100						Loamy Sand	Signific	cant gravel and	cobble	
¹Type: C= Co	ncentration, D= Depl	etion, RM=Re	duced	Matrix, CS=Cove	red or Coat	ted Sand G	rains.	²Loc	ation: P	L=Pore Lining,	M=Matr	ix.
Hydric Soil In	dicators: (Applicat	le to all LRR	s, unl	ess otherwise no	ted.)			Indicators for Pro	blematio	c Hydric Soils	3:	
Histoso	ol (A1)			_Sandy Redox (S	5)			2 cm Muck	(A10)			
Histic I	Epipedon (A2)			_ Stripped Matrix (	S6)			Red Paren	: Material	I (TF2)		
	Histic (A3)			_ Loamy Mucky Mi	. ,	(except ML	RLA 1)			Surface (TF12)		
	gen Sulfide (A4)			_ Loamy Gleyed M	, ,			Other (Exp	lain in Re	emarks)		
l ——	ed Below Dark Surfac	ce (A11)		_ Depleted Matrix								
	Dark Surface (A12)			Redox Dark Surf				<sup>3</sup> Indicators of hy		-	t	
	Mucky Mineral (S1)			_ Depleted Dark S	, ,			wetland hydrol		· ·		
	Gleyed Matrix (S4)			Redox Depression	ons (F8)			unless disturbe	ed or prol	olematic.		
Restrictive	Layer (if present):											
Type:			_									
Depth	(inches):		_					Hydric Soil Pre	sent?	Yes	_ No	X
•	drology Indicators:							2 / / / /	. (0			
	cators (minimum of o	ne required; o	check		(50)	, .		Secondary Indic				
	e Water (A1)			- Water-Stained Le	` ′	(except				es (B9) ( <b>MRLA</b>	. 1, 2,	
	/ater Tables (A2)			MRLA 1, 2, 4	4, and 46)			4A, and		D10)		
	tion (A3) Marks (B1)			Salt Crust (B11) Aquatic Inverteb	ratos (R13)			Drainage P Dry-Seaso	,	•		
	ent Deposits (B2)			- Hydrogen Sulfide	, ,					n Aeriel Imager	v (C9)	
	eposits (B3)			Oxidized Rhizos			oots (C3)	Geomorphi		_	<b>y</b> (00)	
	flat or Crust (B4)			Presence of Red		•	(,	Shallow Ac		` '		
l —	eposits (B5)			- Recent Iron Red			(6)	FAC-Neutr	•	•		
Surfac	e Soil Cracks (B6)			<ul><li>Stunted or Stress</li></ul>				Raised Ant	Mounds	(D6) ( <b>LRR A</b> )		
Inunda	tion Visible on Aeriel	Imagery (B		Other (Explain in	Remarks)			Frost-Heav	e Humm	ocks (D7)		
Sparsle	ey Vegetated Concav	e Surface (B	3)	_								
Field Obser	vations:										,	,
Surface Wa	ter Present? Yes	No	Χ	Depth (inches):			İ					
Water Table	Present? Yes	No	Χ	Depth (inches):								
Saturation F	Present? Yes	No	Х	_ Depth (inches):			Wetland	d Hydrology Pres	ent?	Yes	_ No	X
(includes ca	pillary fringe)											
Describe Reco	orded Date (stream g	auge, monitoi	ring we	ell, aerial photos, p	revious ins	pections), it	f availabl	e:				
Remarks:												
No primary or	secondary wetland h	ydrology indic	cators	observed.								

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	te: 10/18/20	119			
Applicant/Owner: Sound Transit		- ^ ^	State: WA		Sampling Point: SP WFW 4-1				
Investigators: STORY, PACE			Section, Township,	 Range: T21N R4E S	- : T21N R4E S21				
Landform (hillslope, terrace, etc.): Depression			ef (concave, convex,			lope(%): 0			
Subregion (LRR): A - Northwestern Forest,	Lat: 47.29502	_	-122.305908	· -	WGS84				
Soil Map Unit Name: Alderwood gravelly sandy loa			NWI Classific	ation: PFO					
Are climatic / hydrologic conditions on the site typica		rear? Yes		(If No, explain in Re	emarks)				
Are Vegetation: Soil or Hydrology	significantly dis		Are "Normal Circun	<b>-</b> ` '	Yes	X N	lo		
Are Vegetation: Soil or Hydrology	naturally proble			any answers in Rema	_				
SUMMARY OF FINDINGS - Attach a site				=	•	tures, etc.			
Hydrophytic Vegetation Present? Yes X	No								
Hydric Soil Present? Yes X	No No	Is the	Sampled Area						
Wetland Hydrology Present? Yes X	No	within	a Wetland?	Yes	X	No			
Remarks:				_					
Conditions wetter than normal for time of year. Sam  VEGETATION – Use scientific names o		of 3 wetland criter	ria, is located in WF\	V-4.					
VEGETATION - Ose scientific flames o	Absolute	Dominant	Indicator	Dominance Test \	Norkobooti				
<u>Tree Statum</u> (Plot size: 5m)	% Cover		Indicator Status						
	40	Species? Yes	FACW	Number of Dominal That Are OBL, FAC		4	<b>(A)</b>		
Fraxinus latifolia     Populus balsamifera	30	Yes	FAC	Total Number of Do		4	— <sup>(A)</sup>		
3. Salix lasiandra	10	No	FACW	Species Across All	4	(B)			
4.				Percent of Dominar			— <sup>(B)</sup>		
··	80	= Total Cover		That Are OBL, FAC	•	100	(A/B)		
Sapling/Shrub Stratum (Plot size: 3m)		rotal ooro.		Prevalence Index			( , , _ )		
Spiraea douglasii	40	Yes	FACW	Total % Cover of:		ultiply by:			
2.				OBL species	25 x1				
3.				FACW species	90 x2				
4.				FAC species	30 x3		_		
5.				FACU species	X				
	40	= Total Cover		UPL species	x5	5= 0	_		
Herb Stratum (Plot size: 1m)				Column Totals:	145 (A	295	— (B)		
Carex obnupta	25	Yes	OBL	-	`	<i></i>	<b>—</b> `´		
2.				Prevalence Inde	ex = B/A=	2.0	03		
3.				Hydrophytic Vege	tation Indica	ators:			
4.				1 - Rapid Tes	st for Hydrop	hytic Vegetati	on		
5.				X 2 - Dominano	e Test is >5	0%			
6.				X 3 - Prevalenc	e Index is ≤3	3.0 <sup>1</sup>			
7.				4 - Morpholo	gical Adaptat	tions¹ (Provide	Э		
8.				data in R	lemarks or o	n a separate s	sheet)		
9.				5 - Wetland N	Non-Vasculai	r Plants <sup>1</sup>			
10.				Problematic I	Hydrophytic '	Vegetation1 (E	Explain)		
11				<sup>1</sup> Indicators of hydric	soil and we	tland hydrolog	у		
	25	= Total Cover		must be present, ur	nless disturbe	ed or problem	atic.		
Woody Vine Stratum (Plot size:)									
1				Hydrophytic					
2				Vegetation	Yes _	K_ No	_		
9/ Para Craund in Harb Stratum 75		= Total Cover		Present?					
% Bare Ground in Herb Stratum 75	% Cov	er of Biotic Crust							
Remarks:									
Sample plot meets dominance test and prevalence i	ndex for hydroph	ytic vegetation.							

SOIL Sampling Point: SP WFW 4-1

Profile Desci	ription: (Describe to	the depth need	ed to document the i	ndicator o	or confirm	the abse	ence of indicators.)	1		
Depth	Matrix		Redo	ox Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	3
0-18	10YR 2/1	97	10YR 3/3	3	С	М	Silt Loam	High organi	c content	
¹Type: C= Co	oncentration, D= Depl	etion, RM=Redu	ced Matrix, CS=Cover	ed or Coa	ted Sand G	rains.	²Loc	ation: PL=Po	ore Lining, I	M=Matrix.
Hydric Soil I	ndicators: (Applicab	le to all LRRs,	unless otherwise not	ed.)			Indicators for Pro	blematic Hyd	dric Soils³	:
Histos	sol (A1)	_	Sandy Redox (S5	5)			2 cm Muck	(A10)		
Histic	Epipedon (A2)	_	Stripped Matrix (S	S6)			Red Parent	Material (TF2	2)	
Black	Histic (A3)	_	Loamy Mucky Mir	neral (F1)	(except ML	RLA 1)	Very Shallo	w Dark Surfa	ce (TF12)	
	gen Sulfide (A4)	_	Loamy Gleyed Ma				Other (Expl	ain in Remarl	ks)	
	ted Below Dark Surfac	ce (A11)	Depleted Matrix (	•						
	Dark Surface (A12)	_	X Redox Dark Surfa				<sup>3</sup> Indicators of hyd			
	Mucky Mineral (S1)	_	Depleted Dark Su	, ,	)		wetland hydrol			
	Gleyed Matrix (S4)	_	Redox Depressio	ns (F8)			unless disturbe	d or problem	atic.	
Restrictive	Layer (if present):									
Type:										
Depth	(inches):						Hydric Soil Pres	ent? Ye	s <u>X</u>	_ No
Remarks:										
Sample plot r	neets hydric soil indica	ator F6, Redox [	Dark Surface.							
HYDROLC										
1	ydrology Indicators:									
l	licators (minimum of o	ne required; che	11 37				Secondary Indica			
	ce Water (A1)	_	Water-Stained Le	, ,	` •			ed Leaves (E	39) ( <b>MRLA</b>	1, 2,
	Water Tables (A2)		MRLA 1, 2, 4A	, and 4B)			4A, and			
X Satura		_	Salt Crust (B11)	. (5.46)				atterns (B10)		
	Marks (B1)	-	Aquatic Invertebra	, ,				Water Table		(00)
	nent Deposits (B2)	-	Hydrogen Sulfide			. (00)		/isible on Aer		/ (C9)
	Peposits (B3)	-	Oxidized Rhizosp		-	oots (C3)		Position (D2	2)	
l —	Mat or Crust (B4)	-	Presence of Redu		. ,	36)	Shallow Aq			
	eposits (B5)	_	Recent Iron Redu		,	,	X FAC-Neutra		(LDD A)	
	ce Soil Cracks (B6)	Imagany (P	Stunted or Stress			<b>A</b> )		Mounds (D6) Hummocks	,	
	ation Visible on Aeriel Iey Vegetated Concav	_	Other (Explain in	nemarks)			—— Flosi-neave	HUITITIOCKS	(07)	
		e dunace (bb)				1				
Field Obse		NI-	V Donath (inches)							
Water Table	ater Present? Yes		X Depth (inches): Depth (inches):		0.0					
Saturation I		X No —	Depth (inches):		0.0	Wetlan	d Hydrology Prese	nt? Ye	s X	No
	apillary fringe)		—— Deptil (iliches)		0.0	Wellan	a riyarology Frese	iit: 16	* <u> </u>	
Describe Rec	orded Date (stream g	auge, monitorinç	g well, aerial photos, pr	evious ins	spections), i	t availabl	le:			
Remarks:										
		l. Sample plot m	eets primary hydrology	y indicator	s for High V	Vater Tal	ble (A2) and Saturat	ion (A3). Sar	nple plot al	so passes
FAC-Neutral	rest (D5).									

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Date	e: 10/18/2019		
Applicant/Owner: Sound Transit			State: WA	Sampling Poir	nt: SP WFW 4-	2	
nvestigators: STORY, PACE			Section, Township,	Range: T21N R4E S2	1		
andform (hillslope, terrace, etc.): Flat		Local Reli	ief (concave, convex,	none): None	Slope	e(%): 0	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2950	21 Long:	-122.305908	Datum: V	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy	oam		NWI Classific	ation: UPL			
Are climatic / hydrologic conditions on the site typ	ical for this time of y	rear? Yes		(If No, explain in Re	marks)		
Are Vegetation: Soil or Hydrology	significantly dis	sturbed?	Are "Normal Circun	nstances" present?	Yes	<u>х</u> N	o
Are Vegetation: Soil or Hydrology	naturally probl-	ematic?	(If needed, explain	any answers in Rema	rks.)		
SUMMARY OF FINDINGS - Attach a s	ite map showir	ng sampling	point locations	, transects, impo	rtant featur	es, etc.	
Hydrophytic Vegetation Present? Yes _	X No						
Hydric Soil Present? Yes	No X	Is the	Sampled Area				
Vetland Hydrology Present? Yes _	No X	withi	n a Wetland?	Yes _		No X	
Remarks:							
The preceding three months were wetter than nor evaluating hydrology Sample plot is paired uplar vetland.							
/EGETATION – Use scientific names	of plants.						
	Absolute	Dominant	Indicator	Dominance Test W	/orksheet:		
<u>Free Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominan	t Species		
l				That Are OBL, FAC	N, or FAC:	2	_ (A)
2				Total Number of Dor	minant		
3.				Species Across All S	Strata:	2	_ (B)
1				Percent of Dominan	t Species		
		= Total Cover		That Are OBL, FAC		100	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)				Prevalence Index w	vorksheet:		
. Rubus armeniacus	35	Yes	FAC	Total % Cover of:	<u>Multi</u>	oly by:	
2.				OBL species	x1= _		_
3				FACW species	x2= _	0	_
l	<u> </u>			FAC species	65 x3= -	195	_
·				FACU species	5x4=	20	_
Lordo Obratoria (Diataina Ara)	35	= Total Cover	•	UPL species	x5= _	0	— <sub>(D)</sub>
Herb Stratum (Plot size: 1m)	20	Vaa	FAC	Column Totals: -	70 (A)	215	— <sup>(B)</sup>
2. Ranunculus repens Polystichum munitum	- <del>30</del> 5	Yes No	FACU	Prevalence Inde	υ D/Λ	3.0	7
- Polysticham manitam				Hydrophytic Veget			
					t for Hydrophyti		on
	<del></del>			X 2 - Dominance		c vegetatit	)II
	<del></del>			<del></del>	e Index is ≤3.0¹		
,					ical Adaptation	s¹ (Provide	1
		-		<b>─</b>	emarks or on a	,	
).					on-Vascular Pla		,
0.					lydrophytic Veg		xplain)
11.				¹Indicators of hydric			
	35	= Total Cover	<del>.</del> ———	must be present, un			-
Noody Vine Stratum (Plot size: )				, .		•	
,				Hydrophytic			
i							
 2.				Vegetation	Yes X	No	
). D.		= Total Cover		Vegetation Present?	Yes X	No	_
2. Bare Ground in Herb Stratum 65		= Total Cover	t	_	Yes X	No	_

SOIL Sampling Point: SP WFW 4-2

Profile Descr	iption: (Describe	e to the depth ne	eded to document the i	ndicator	or confirm	the abse	ence of indicators.)				
Depth	Ma	atrix	Redo	ox Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks			
0-4	2.5Y 4/2		2.5Y 3/4	1			Sandy Loam	Refusal	at 4; lots of c	obble	
				-							
	-										
<del></del>				-							
1Typo: C- Co	noontration D_ [	Oppletion PM-Pa	educed Matrix, CS=Cover	od or Coa	tod Sand G		21.000	tion: DI	.=Pore Lining,	M_Mat	riv
			s, unless otherwise not		ileu Sanu U		Indicators for Prob				117.
-		ilcable to all LAF							riyuric 30iis	•	
—— Histos			Sandy Redox (St	•			2 cm Muck (		(TEO)		
	Epipedon (A2)		Stripped Matrix (S	•	(aveant MI	DI A 4)	Red Parent I		, ,		
	Histic (A3)		Loamy Mucky Mi		(ехсері імі	RLA I)			urface (TF12)		
	gen Sulfide (A4)	urfoec (Add)	Loamy Gleyed M				Other (Expla	.iii iii nei	marks)		
	ed Below Dark S Dark Surface (A1		Depleted Matrix (				<sup>3</sup> Indicators of hydr	rophyticy	voastation an	٨	
	Mucky Mineral (	•	Redox Dark Surfa Depleted Dark Su		١		•		•	J	
l <del></del>	Gleyed Matrix (S	•	Redox Depression		)		wetland hydrolo unless disturbed				
			nedox Depressio	115 (1 0)			uniess disturbed		ilematic.		
	Layer (if presen	τ):									
1	Cobble		_				II 12 0 11 D		V		v
Depth	(inches): 4						Hydric Soil Prese	∍nt?	Yes	No	X
HYDROLO											
-	drology Indicate						0 1 1 "	. (2		n	
l —		of one requirea;	check all that apply)	(DO)	. /		Secondary Indica	•			-
	e Water (A1)		Water-Stained Le	` ′	•				es (B9) ( <b>MRL</b> A	. 1, 2,	
l —	Vater Tables (A2)		MRLA 1, 2, 4A	i, and 4B)			4A, and 4		140)		
	tion (A3)		Salt Crust (B11)	otoo (D10	<b>\</b>		Drainage Pa				
	Marks (B1)		Aquatic Invertebr Hydrogen Sulfide				Dry-Season			n. (CO)	
	ent Deposits (B2) eposits (B3)	1	Oxidized Rhizosp	•	•	note (C2)			Aeriel Imagei	y (C9)	
	Mat or Crust (B4)		Presence of Red		-	oois (C3)	Shallow Aqu		` '		
	eposits (B5)		Recent Iron Redu		` '	26)	FAC-Neutral	,			
	e Soil Cracks (B6	3)	Stunted or Stress					,	(D6) ( <b>LRR A</b> )		
	tion Visible on A		Other (Explain in			<b>~</b> )	Frost-Heave	,			
		ncave Surface (B		riemarks,				Hammo	icks (D7)		
Field Obse	-	noavo Garrago (B									
		'es No	X Depth (inches):								
Water Table		esNo	X Depth (inches):								
Saturation F		es No	X Depth (inches):			Wetland	d Hydrology Preser	nt?	Yes	No	х
	pillary fringe)		Boptii (iiiolios).			Wethan	a riyarology i resel			_''	
		um govern manita	ving well coviel phates a	raviava in	annotiona) i	f aveilabl					
Describe neci	orded Date (Strea	im gauge, monito	ring well, aerial photos, p	revious in	spections), i	i avallabi	e.				
Remarks:											
No primary or	secondary hydro	logy indicators of	served.								

Project/Site: Sound Transit OMFS		_City/County:	Federal Way, King	Sampling Date	e: 10/23/2019			
Applicant/Owner: Sound Transit			State: WA	Sampling Poin	Sampling Point: SP WFW 5-1			
Investigators: STORY, PACE			Section, Township, F	Range: T21N R4E S2	: T21N R4E S21			
Landform (hillslope, terrace, etc.): Channel		Local Reli	ief (concave, convex,	none): None	Slope	e(%): 0		
Subregion (LRR): A - Northwestern Forest,	Lat: 47.2916	79 Long:	-122.307571	Datum: V	VGS84			
Soil Map Unit Name: Alderwood gravelly sandy loa	m	_	NWI Classific	ation: PSS				
Are climatic / hydrologic conditions on the site typical	al for this time of y	ear? Yes	s No X	(If No, explain in Rer	narks)			
Are Vegetation: Soil or Hydrology	significantly di	sturbed?	Are "Normal Circum	stances" present?	Yes	<u>х</u> N	٥	
Are Vegetation: Soil or Hydrology	naturally probl	ematic?	(If needed, explain a	any answers in Remar	ks.)			
SUMMARY OF FINDINGS - Attach a site	e map showii	ng sampling	point locations,	transects, impo	rtant featur	es, etc.		
Hydrophytic Vegetation Present? Yes X	No							
Hydric Soil Present? Yes X	No	Is the	Sampled Area					
Wetland Hydrology Present? Yes X	No	withi	n a Wetland?	Yes X	<u> </u>	No		
Remarks:								
The preceding three months were wetter than norm evaluating hydrology. Sample plot meets 3 of 3 wetlands and the same statements are seen as a second	and criteria, is loca		end of the dry season	so dry season conditi	ions were still c	considered	when	
VEGETATION – Use scientific names o	·	Daminant	la dia atau	Dominon on Took W	laulealaaat.			
Tuno Chahuma (Diahaina) Ema	Absolute	Dominant	Indicator	Dominance Test W				
Tree Statum (Plot size: 5m)	% Cover	Species?	Status	Number of Dominant	•	0	<b>(A)</b>	
Populus balsamifera     Francula purabiana	<u>15</u> 5	Yes Yes	- FAC FAC	That Are OBL, FACV	-	6	_ <sup>(A)</sup>	
<ol> <li>Frangula purshiana</li> <li>.</li> </ol>		res		Total Number of Dor Species Across All S		7	(B)	
4.				Percent of Dominant	-	,	<b>—</b> (B)	
<del></del>	20	= Total Cover	<del>.</del> ——	That Are OBL, FACW	•	86	(A/B)	
Sapling/Shrub Stratum (Plot size: 3m)		= Total Cover		Prevalence Index w	<del></del>		(A/b)	
Symphoricarpos albus	60	Yes	FACU	Total % Cover of:		oly by:		
Lonicera involucrata	30	Yes	FAC	OBL species	x1=	oiy by.		
Spiraea douglasii	30	Yes	FACW	FACW species	30 x2=	60	_	
4. Rubus spectabilis	20	No No	FAC	FAC species	$\frac{30}{85}$ $x3=$	255	_	
5. Rubus ursinus	10	No	FACU	FACU species	$\frac{30}{70}$ x4=	280	_	
Trabas distribus	150	= Total Cover		UPL species	x5=	0	_	
Herb Stratum (Plot size: 1m)				Column Totals:	185 (A)	595	— (B)	
Ranunculus repens	10	Yes	FAC	_			<b>-</b> ` ′	
2. Athyrium cyclosorum	5	Yes	FAC	Prevalence Inde	x = B/A =	3.2	2	
3.				Hydrophytic Vegeta	ation Indicator	rs:		
4.					for Hydrophyti		on	
5.				X 2 - Dominance		-		
6.				3 - Prevalence	Index is ≤3.0¹			
7.				4 - Morphologi	ical Adaptation	s¹ (Provide	)	
8.				data in Re	marks or on a	separate s	heet)	
9.				5 - Wetland No	on-Vascular Pla	ants1		
10.				Problematic H	ydrophytic Veg	jetation¹ (E	xplain)	
11.				<sup>1</sup> Indicators of hydric	soil and wetlan	d hydrolog	у	
	15	= Total Cover	<del></del>	must be present, unl	ess disturbed o	or problema	atic.	
Woody Vine Stratum (Plot size:)								
1				Hydrophytic				
2.				Vegetation	Yes X	No		
		= Total Cover		Present?			_	
% Bare Ground in Herb Stratum 85	% Cov	er of Biotic Crus	t					
Remarks:				1				
Sample plot meets dominance test but not prevalen	ce index for hydro	phytic vegetatic	on.					

SOIL Sampling Point: SP WFW 5-1

Depth							ence of indicators.)	
_	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-14	10YR 2/1	100					Silt Loam	
14-18	10YR 4/2	95	10YR 4/4	5	C	M	Sandy Loam	
	_							
¹Type: C= Cond	centration, D= Deplet	ion, RM=Reduc	ced Matrix, CS=Covere	ed or Coat	ted Sand G	rains.	²Locat	ion: PL=Pore Lining, M=Matrix.
Hydric Soil Ind	licators: (Applicable	e to all LRRs, u	unless otherwise not	ed.)			Indicators for Probl	ematic Hydric Soils³:
Histosol	(A1)	_	Sandy Redox (S5	)			2 cm Muck (A	110)
—— Histic Ep	oipedon (A2)	_	Stripped Matrix (S	86)			Red Parent M	laterial (TF2)
Black His		_	Loamy Mucky Mir		(except ML	.RLA 1)		Dark Surface (TF12)
	en Sulfide (A4)	_	Loamy Gleyed Ma				Other (Explai	n in Remarks)
	d Below Dark Surface	· (A11)	Depleted Matrix (I					
	ark Surface (A12)	_	Redox Dark Surfa				•	ophytic vegetation and
	Mucky Mineral (S1)	_	Depleted Dark Su		1			y must be present,
	Gleyed Matrix (S4)	_	Redox Depression	ns (F8)			unless disturbed	or problematic.
	ayer (if present):							
Type:								
Depth (ir	nches): 						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								
Sample plot me	ets hydric soil indicat	or A12, Thick D	ark Surface.					
HYDROLOG								
	·v							
Wetland Hydi	rology Indicators:	o roquirod, obo	ok all that apply)				Cocondon, Indicate	nra (2 ar mara raquirad)
Wetland Hydro	rology Indicators: ators (minimum of on	e required; che	,	ovos (PO)	/oveent			ors (2 or more required)
Wetland Hydromary Indica	rology Indicators: ators (minimum of on Water (A1)	e required; che	Water-Stained Le	` '	(except		Water Staine	d Leaves (B9) ( <b>MRLA 1, 2,</b>
Wetland Hydromary Indica  X Surface  X High Wa	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2)	e required; che	Water-Stained Le	` '	(except		Water Stained	d Leaves (B9) ( <b>MRLA 1, 2,</b>
Wetland Hydromann Primary Indicators X Surface X High Wa X Saturation	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3)	e required; che _ _	Water-Stained Le MRLA 1, 2, 4A Salt Crust (B11)	, and 4B)			Water Stainer 4A, and 4E Drainage Pat	d Leaves (B9) ( <b>MRLA 1, 2,</b> <b>B</b> ) terns (B10)
Wetland Hydroman Primary Indication  X Surface X High Wa X Saturation  Water M	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1)	e required; che - - -	Water-Stained Le MRLA 1, 2, 4A Salt Crust (B11) Aquatic Invertebra	, <b>and 4B</b> )	•		Water Stainer 4A, and 4E Drainage Pat Dry-Season V	d Leaves (B9) ( <b>MRLA 1, 2,</b> B) terns (B10) Vater Table (C2)
Wetland Hydromann Methods    Wetland Hydromann Methods    X Surface    X High Wa    X Saturatio    Water M   Sedimen	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2)	e required; che - - - -	Water-Stained Le MRLA 1, 2, 4A Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	, <b>and 4B</b> ) ates (B13) Odor (C1)	)	oots (C3)	Water Stainer 4A, and 4E Drainage Pat Dry-Season V Saturation Vis	d Leaves (B9) ( <b>MRLA 1, 2,</b> B)  terns (B10)  Vater Table (C2)  sible on Aeriel Imagery (C9)
Wetland Hydromann Primary Indica  X Surface  X High Wa  X Saturation  Water M  Sediment  Drift Dep	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	e required; che - - - - -	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp	, and 4B) ates (B13) Odor (C1) heres alor	) ng Living R	oots (C3)	Water Stainer 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2)
Wetland Hydromany Indication  X Surface of the Surf	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	e required; che - - - - -	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu	, and 4B) ates (B13) Odor (C1) heres alor	) ng Living R (C4)		Water Stainer 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic I Shallow Aquit	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3)
Wetland Hydromann Methods Meth	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	e required; che - - - - - -	Water-Stained Le MRLA 1, 2, 4A Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	, and 4B)  ates (B13)  Odor (C1)  heres alor  uced Iron (  ction in Ti	) ng Living R (C4) Iled Soils (G	C6)	Water Stainer 4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral	d Leaves (B9) (MRLA 1, 2, 3)  terns (B10)  Vater Table (C2)  sible on Aeriel Imagery (C9)  Position (D2)  tard (D3)  Test (D5)
Wetland Hydromann Primary Indication  X Surface of X High Wa   X Saturation Water M   Sedimen   Drift Dep   Algal Ma   Iron Dep   Surface of X   Iron Dep   Iro	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	- - - - - -	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants	) ng Living R (C4) Iled Soils (G	C6)	Water Stainer 4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3)
Wetland Hydromany Indication  X Surface X High Water M Sediment Drift Depton Algal Mater M Surface Surface Inundation	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	nagery (B	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants	) ng Living R (C4) Iled Soils (G	C6)	Water Stainer 4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M	d Leaves (B9) (MRLA 1, 2, 3)  terns (B10)  Vater Table (C2)  sible on Aeriel Imagery (C9)  Position (D2)  tard (D3)  Test (D5)  ounds (D6) (LRR A)
Wetland Hydromany Indication  X Surface X High Water M Sediment Drift Depton Algal Mater M Surface Surface Inundation	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In	nagery (B	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants	) ng Living R (C4) Iled Soils (G	C6)	Water Stainer 4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M	d Leaves (B9) (MRLA 1, 2, 3)  terns (B10)  Vater Table (C2)  sible on Aeriel Imagery (C9)  Position (D2)  tard (D3)  Test (D5)  ounds (D6) (LRR A)
Wetland Hydroman Primary Indicators  X Surface X High Water M Sediment Drift Deptor Algal Mater M Iron Deptor Surface Surface Sparsley	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In v Vegetated Concave	nagery (B	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants	) ng Living R (C4) Iled Soils (G	C6)	Water Stainer 4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M	d Leaves (B9) (MRLA 1, 2, 3)  terns (B10)  Vater Table (C2)  sible on Aeriel Imagery (C9)  Position (D2)  tard (D3)  Test (D5)  ounds (D6) (LRR A)
Wetland Hydroman Primary Indication  X Surface X High Water M Sediment Drift Deptor Surface Surface Sparsley  Field Observer	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In v Vegetated Concave represent? Yes	magery (B	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants	) ng Living R (C4) Iled Soils (( (D1) ( <b>LRR</b>	C6)	Water Stainer 4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M	d Leaves (B9) (MRLA 1, 2, 3)  terns (B10)  Vater Table (C2)  sible on Aeriel Imagery (C9)  Position (D2)  tard (D3)  Test (D5)  ounds (D6) (LRR A)
Wetland Hydromany Indication  X Surface X High Water M Sediment Drift Depton Algal Mater M Surface Inundation  Sparsley  Field Observations	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In v Vegetated Concave rations: ar Present? Yes Present? Yes	magery (B	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants	) ng Living R (C4) Illed Soils ((D1) (LRR	C6) A)	Water Stainer 4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)
Wetland Hydromany Indication  X Surface of X High Water M X Saturation Water M Sediment Drift Dept Algal Mater Inon Dept Surface of Inundation Sparsley  Field Observation Surface Water Table F	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In Vegetated Concave rations: ar Present? Yes esent? Yes	magery (B Surface (B8)  X No X No	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in  Depth (inches):  Depth (inches):	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants	2.00 0.0	C6) A)	Water Stainer 4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M  Frost-Heave	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)
Wetland Hydro Primary Indica  X Surface of S	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In v Vegetated Concave rations: ar Present? Yes pesent? Yes pesent? Yes pesent? Yes	magery (B	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in  Depth (inches):  Depth (inches):	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants Remarks)	2.00 0.0	C6) A) Wetland	Water Stained  4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M  Frost-Heave	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)
Wetland Hydro Primary Indica  X Surface of S	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In v Vegetated Concave rations: ar Present? Yes pesent? Yes pesent? Yes pesent? Yes	magery (B	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in  Depth (inches):  Depth (inches):	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants Remarks)	2.00 0.0	C6) A) Wetland	Water Stained  4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M  Frost-Heave	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)
Wetland Hydromany Indication  X Surface of X High Water M Sediment Drift Depton Algal Mater More of Inundation Sparsley  Field Observation Surface Water Table For Saturation Precedence (includes capical Describe Records)	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In v Vegetated Concave rations: ar Present? Yes pesent? Yes pesent? Yes pesent? Yes	magery (B	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in  Depth (inches):  Depth (inches):	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants Remarks)	2.00 0.0	C6) A) Wetland	Water Stained  4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M  Frost-Heave	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)
Wetland Hydromany Indicated X Surface X High Water M Sediment Drift Depton Algal Mallron Depton Surface Surface Water Table F Saturation Precincludes capital Describe Record	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In v Vegetated Concave rations: ar Present? Yes pesent? Yes	magery (B Surface (B8)  X No X No X No	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in  Depth (inches): Depth (inches): Depth (inches):	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants Remarks)	2.00 0.0 epections),	Wetland	Water Stainer  4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M  Frost-Heave  d Hydrology Presente:	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)
Wetland Hydromany Indicated X Surface X High Water M Sediment Drift Depton Algal Mallron Depton Surface Surface Water Table F Saturation Precincludes capital Describe Record	rology Indicators: ators (minimum of on Water (A1) ater Tables (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeriel In v Vegetated Concave rations: ar Present? Yes pesent? Yes	magery (B Surface (B8)  X No X No X No	Water-Stained Le  MRLA 1, 2, 4A  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in  Depth (inches):  Depth (inches):	, and 4B) ates (B13) Odor (C1) heres alor uced Iron ( ction in Ti ed Plants Remarks)	2.00 0.0 epections),	Wetland	Water Stainer  4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vis  Geomorphic I  Shallow Aquit  FAC-Neutral  Raised Ant M  Frost-Heave  d Hydrology Presente:	d Leaves (B9) (MRLA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aeriel Imagery (C9) Position (D2) tard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Da	te: 10/23/201	9	
Applicant/Owner: Sound Transit		_	State: WA	Sampling Po	int: SP WFW	5-2	
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S	21		
Landform (hillslope, terrace, etc.): Toeslope		Local Reli	ef (concave, convex,	none): Convex	Slo	pe(%): 2	
Subregion (LRR): A - Northwestern Forest,	Lat: 47.291	<u>–</u> 729 Long:	-122.307503	Datum:	WGS84		
Soil Map Unit Name: Alderwood gravelly sandy lo	oam	_	NWI Classific	cation: UPL			
Are climatic / hydrologic conditions on the site typi	cal for this time of	year? Yes	S No X	(If No, explain in Re	emarks)		
Are Vegetation: Soil or Hydrology	significantly d	isturbed?	Are "Normal Circur	nstances" present?	Yes	X N	lo
Are Vegetation: Soil or Hydrology	naturally prob	lematic?	(If needed, explain	any answers in Rema	arks.)		
SUMMARY OF FINDINGS - Attach a si	ite map showi	ng sampling	point locations	, transects, imp	ortant feat	ures, etc.	
Hydrophytic Vegetation Present? Yes	No X						
Hydric Soil Present? Yes	No X	Is the	Sampled Area				
Wetland Hydrology Present? Yes	No X	withii	n a Wetland?	Yes		No X	
Remarks:		-					
At toe of slope, just upslope from edge of wetland however, site visit occurred at end of the dry seasonot located in a wetland.	on so dry season o						
VEGETATION – Use scientific names	<u>.</u>			12			
	Absolute	Dominant	Indicator	Dominance Test			
Tree Statum (Plot size: 5m)	% Cover	Species?	Status	Number of Domina	•		(A)
1. Thuja plicata	30	Yes	_ FAC FACU	That Are OBL, FAC	·	1	— <sup>(A)</sup>
<ol> <li>Pseudotsuga menziesii</li> <li>Populus balsamifera</li> </ol>	<del>30</del>	Yes No	- FACU FAC	Total Number of Do		5	(D)
4.			- — FAC	Percent of Dominar		5	— <sup>(B)</sup>
<del></del>	70	= Total Cover		That Are OBL, FAC	•	20	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)		= Total Cover		Prevalence Index	-		(/// //
Gaultheria shallon	40	Yes	FACU	Total % Cover of:		Itiply by:	
Rubus ursinus	40	Yes	FACU	OBL species	x1=		
3. Holodiscus discolor	7	No	- FACU	FACW species	x2=		_
Oemleria cerasiformis	5	No	- FACU	FAC species	40 x3=		_
5.				FACU species	137 x4=		
·	92	= Total Cover		UPL species	x5=		_
Herb Stratum (Plot size: 1m)				Column Totals:	177 (A)	668	— (B)
1. Polystichum munitum	15	Yes	FACU	1	``		<b>—</b> ` ′
2.				Prevalence Ind	ex = B/A=	3.7	77
3.				Hydrophytic Vege	tation Indicat	ors:	
4.				1 - Rapid Tes	st for Hydroph	ytic Vegetati	on
5.				2 - Dominano	ce Test is >50	%	
6.				3 - Prevalenc	e Index is ≤3.	O <sup>1</sup>	
7.				4 - Morpholo	gical Adaptatio	ons¹ (Provide	Э
					Remarks or on	a separate s	sheet)
8.				data in F			
8. 9.					Non-Vascular	Plants <sup>1</sup>	
9.				5 - Wetland N			Explain)
9.				5 - Wetland N	Non-Vascular Hydrophytic V	egetation¹ (E	
9. 10. 11.	15	= Total Cover		5 - Wetland N	Non-Vascular Hydrophytic V c soil and wetl	egetation¹ (E and hydrolog	ЭУ
9. 10. 11. Woody Vine Stratum (Plot size: )	15	= Total Cover		5 - Wetland Neroblematic Indicators of hydric must be present, un	Non-Vascular Hydrophytic V c soil and wetl	egetation¹ (E and hydrolog	ЭУ
9. 10. 11. Woody Vine Stratum (Plot size: ) 1.	15	= Total Cover		5 - Wetland N Problematic Indicators of hydric must be present, un	Non-Vascular Hydrophytic V c soil and wetl nless disturbed	egetation¹ (E and hydrolog d or problem	atic.
9. 10. 11.	15			5 - Wetland No Problematic Indicators of hydric must be present, under the Hydrophytic Vegetation	Non-Vascular Hydrophytic V c soil and wetl	egetation¹ (E and hydrolog	atic.
9. 10. 11. Woody Vine Stratum (Plot size: ) 1.		= Total Cover  = Total Cover  ver of Biotic Crus		5 - Wetland N Problematic Indicators of hydric must be present, un	Non-Vascular Hydrophytic V c soil and wetl nless disturbed	egetation¹ (E and hydrolog d or problem	atic.

**SOIL** Sampling Point: SP WFW 5-2

Depth	r <b>iption: (Describe t</b> o Matri:	•	eaea		Indicator of lox Feature		tne abse	ence of indicators.)				
(inches)	Color (moist)	<u> </u>		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	Remarks		
<u> </u>	<u> </u>			Color (moist)					- Tiemai	<del></del>		
0-18	7.5YR 3/4	100						Sandy Loam				
	-											
			_									
	-											
1T 0 0		Jation DM De		I Matrice OC Care		+I CI C		21	. Di Dana Linina	. 14 14-4		
	oncentration, D= Dep ndicators: (Applica					ied Sand G		Indicators for Problem	n: PL=Pore Lining		IIX.	
-	ol (A1)	IDIE IO AII ENN	is, uiii	Sandy Redox (S				2 cm Muck (A10	-	<b>.</b>		
	Epipedon (A2)		_	Stripped Matrix (	•			Red Parent Mat	•			
	Histic (A3)			Loamy Mucky M	,	(except MI	RIA1)		eriai (11 2) ark Surface (TF12	·)		
	gen Sulfide (A4)		_	Loamy Gleyed N		(CXCCPI IVIL	1127(1)	Other (Explain i		,		
	ted Below Dark Surf	ace (A11)		Depleted Matrix				Out of (Explain)	i riomano,			
	Dark Surface (A12)	,		Redox Dark Sur				<sup>3</sup> Indicators of hydroph	nvtic vegetation ar	nd		
	Mucky Mineral (S1)			<ul> <li>Depleted Dark S</li> </ul>		)		wetland hydrology	-			
	Gleyed Matrix (S4)			_ · Redox Depressi		,		unless disturbed or	•			
Restrictive	Layer (if present):								<u> </u>			
Type:	, , , ,											
Depth	(inches):		_					Hydric Soil Present	? Yes	No	Х	
Remarks:			_					-				
HYDROLC Wetland Hy	OGY ydrology Indicators	:										
Primary Ind	icators (minimum of	one required;	check	all that apply)				Secondary Indicators			_	
	ce Water (A1)			_ Water-Stained L	. ,	•			eaves (B9) (MRL	A 1, 2,		
	Vater Tables (A2)			MRLA 1, 2, 4				4A, and 4B)				
	ation (A3)			Salt Crust (B11)				Drainage Patter	, ,			
	Marks (B1)			_ Aquatic Inverteb	, ,			Dry-Season Wa	• •	(00)		
	ent Deposits (B2)		_	_ Hydrogen Sulfide			nata (C2)		le on Aeriel Image	ry (C9)		
	eposits (B3)  Mat or Crust (B4)			Oxidized Rhizos Presence of Red		-	oois (C3)	Geomorphic Po Shallow Aquitar				
	eposits (B5)			- Recent Iron Red			36)	FAC-Neutral Te				
	ce Soil Cracks (B6)			Stunted or Stres		•	,		inds (D6) ( <b>LRR A</b> )	1		
	ation Visible on Aerie	el Imagery (B		Other (Explain ir			- •,	Frost-Heave Hu				
	ley Vegetated Conca		B) —		, , , , , , , , , , , , , , , , , , , ,							
Field Obse											-	
	iter Present? Yes	No	Х	Depth (inches):								
Water Table			Х	Depth (inches):								
Saturation I	Present? Yes	No	Х	Depth (inches):			Wetland	d Hydrology Present?	Yes	No	X	
(includes ca	apillary fringe)			_						_		
Describe Rec	orded Date (stream	gauge, monito	ring w	ell, aerial photos, p	previous ins	spections), i	f availabl	e:				
D !												
Remarks:												
ino primary or	secondary indicator	s observed.										

State: WA Sampling Point: SP WFW 6-1 Section, Township, Range: T21N R4E S21  al Relief (concave, convex, none): Concave Slope(%): 1
al Relief (concave, convey, none): Concave, Slone(%): 1
ai Heller (concave, convex, none). Concave Slope (76).
Long: -122.304733 Datum: WGS84
NWI Classification: PSS
Yes No X (If No, explain in Remarks)
Are "Normal Circumstances" present? Yes X No
(If needed, explain any answers in Remarks.)
pling point locations, transects, important features, etc.
Is the Sampled Area
within a Wetland? Yes X No
noff from multiple culverts. Conditions wetter than normal for time of year. Sample
nant Indicator Dominance Test Worksheet:
ies? Status Number of Dominant Species
That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant
Species Across All Strata: 4 (B)  Percent of Dominant Species
Cover That Are OBL, FACW, or FAC: 75 (A/B)
Prevalence Index worksheet:
·
FAC species 90 x3= 270 FACU species 33 x4= 132
Cover UPL species
Column Totals: 123 (A) 402 (B)
es FAC
rs FAC Prevalence Index = B/A= 3.27
p FACU Hydrophytic Vegetation Indicators:
D FACU 1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
3 - Prevalence Index is ≤3.01
4 - Morphological Adaptations <sup>1</sup> (Provide
data in Remarks or on a separate sheet)
5 - Wetland Non-Vascular Plants <sup>1</sup>
Problematic Hydrophytic Vegetation¹ (Explain)
1Indicators of hydric soil and wetland hydrology
Cover must be present, unless disturbed or problematic.
Hydrophytic
Vegetation Yes X No
Cover Present?

SOIL Sampling Point: SP WFW 6-1

	•	-	ded to document the in			the abse	ence of indicators.)	
Depth	Mat			x Feature				
(inches)	Color (moist)	<u></u> %	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 3/2	95	10YR 4/6	5	C	M	Sandy Loam	
		_						
¹Type: C= Co	oncentration, D= D	epletion, RM=Red	luced Matrix, CS=Cover	ed or Coa	ted Sand G	irains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil II	ndicators: (Appli	cable to all LRRs	, unless otherwise not	ed.)			Indicators for Problen	natic Hydric Soils³:
Histos	ol (A1)		Sandy Redox (S5	5)			2 cm Muck (A10	))
Histic	Epipedon (A2)		Stripped Matrix (S	86)			Red Parent Mat	erial (TF2)
Black	Histic (A3)		Loamy Mucky Mir	neral (F1)	(except ML	.RLA 1)	Very Shallow Da	ark Surface (TF12)
Hydro	gen Sulfide (A4)		Loamy Gleyed Ma	atrix (F2)			Other (Explain in	n Remarks)
Deplet	ted Below Dark Su	rface (A11)	Depleted Matrix (I	F3)				
Thick	Dark Surface (A12	)	X Redox Dark Surfa	ace (F6)			<sup>3</sup> Indicators of hydroph	nytic vegetation and
l ——	Mucky Mineral (S	•	Depleted Dark Su	ırface (F7	·)		wetland hydrology r	must be present,
Sandy	Gleyed Matrix (S4	<b>l</b> )	Redox Depression	ns (F8)			unless disturbed or	problematic.
Restrictive	Layer (if present	):						
Туре:	Quarry spall		_					
Depth	(inches): 16	<b>;</b>					Hydric Soil Present	? Yes X No
Remarks:								
HYDROLC	nGV							
	/drology Indicato	ro.						
	icators (minimum o		ook all that apply)				Secondary Indicators	(2 or more required)
	e Water (A1)	one required, cr	Water-Stained Le	avos (BQ)	\ (ovcont			eaves (B9) (MRLA 1, 2,
	Vater Tables (A2)		MRLA 1, 2, 4A	` ′	•		4A, and 4B)	.eaves (D3) (MRLA 1, 2,
X Satura	, ,		Salt Crust (B11)	, and 40)	,		Drainage Patter	ns (R10)
	Marks (B1)		Aquatic Invertebra	ates (R13	)		Dry-Season Wa	
	ent Deposits (B2)		Hydrogen Sulfide		•			le on Aeriel Imagery (C9)
	eposits (B3)		Oxidized Rhizosp			oots (C3)		
	Mat or Crust (B4)		Presence of Redu		-	0010 (00)	Shallow Aquitare	,
	eposits (B5)		Recent Iron Redu			C6)	FAC-Neutral Te	
	e Soil Cracks (B6)		Stunted or Stress		,	,		inds (D6) ( <b>LRR A</b> )
	ation Visible on Ae		Other (Explain in			/	Frost-Heave Hu	, , , ,
Spars	ley Vegetated Con-	cave Surface (B8)		,	,			,
Field Obse	rvations:	· ,				$\overline{}$		
	iter Present? Ye	es X No	Depth (inches):		0.50			
Water Table			Depth (inches):		0.0			
Saturation I		<del></del>	Depth (inches):		0.0	Wetland	d Hydrology Present?	Yes X No
	apillary fringe)		' ' -				, 3,	
		n gauge monitorir	ng well, aerial photos, pr	evious in	enactions)	l if availabl	lo:	
Describe ricc	orded Date (Stream	n gauge, monitorii	ng well, aeriai priotos, pr	evious iii.	эреспонз <sub>/</sub> ,	ii availabi	ic.	
Remarks:								
Sample plot n	neets primary hydr	ology indicators fo	or surface water, high wa	ater table,	and satura	tion.		

Project/Site: Sound Transit OMFS		City/County:	Federal Way, King	Sampling Date	te: 10/23/	2019		
Applicant/Owner: Sound Transit		_	State: WA	Sampling Poi	nt: SP WI	FW 6-2	2	
Investigators: STORY, PACE			Section, Township,	Range: T21N R4E S2	21			
Landform (hillslope, terrace, etc.): Toeslope		Local Rel	ief (concave, convex,	none): Convex		Slope	(%): 0	
Subregion (LRR): A	Lat: 47.2974	47 Long	: -122.304787	Datum:	WGS84			
Soil Map Unit Name: Alderwood gravelly sandy k	oam		NWI Classific	cation: UPL				
Are climatic / hydrologic conditions on the site typi	cal for this time of y	ear? Yes	s No_X	_ (If No, explain in Re	emarks)			
Are Vegetation: Soil or Hydrology	significantly di	sturbed?	Are "Normal Circur	nstances" present?	Yes	X	N	lo
Are Vegetation: Soil or Hydrology	naturally probl	ematic?	(If needed, explain	any answers in Rema	ırks.)			
SUMMARY OF FINDINGS - Attach a si	ite map showii	ng sampling	point locations	, transects, impo	ortant fe	eatur	es, etc.	
Hydrophytic Vegetation Present? Yes	No X							
Hydric Soil Present? Yes	No X	Is the	e Sampled Area					
Wetland Hydrology Present? Yes	No X	withi	n a Wetland?	Yes			No X	
Remarks:								
The preceding three months were wetter than non evaluating hydrology. Sample plot has 0 of 3 wetla	ınd criteria, is not lo				tions were	e still co	onsidered	when
VEGETATION – Use scientific names	of plants.							
	Absolute	Dominant	Indicator	Dominance Test V				
<u>Tree Statum</u> (Plot size: 5m)	% Cover	Species?	Status	Number of Dominar	•			
Pseudotsuga menziesii	35	Yes	FACU	That Are OBL, FAC	•	): _	0	_ <sup>(A)</sup>
2.				Total Number of Do				<b>(D)</b>
3.				Species Across All		_	2	— <sup>(B)</sup>
4			<del>-</del> ———	Percent of Dominar	•		0	(A (D)
O and line of Ohmate Observations (Diet along One)	35	= Total Cover	•	That Are OBL, FAC			0	(A/B)
Sapling/Shrub Stratum (Plot size: 3m)	22	V	FAOU	Prevalence Index	worksnee		h. h	
1. Rubus ursinus	30	Yes	_ FACU	Total % Cover of:		Multip	<u>ly by:</u>	
2. Acer circinatum	10	No No	- FAC	OBL species		.x1= _		_
3. Rubus armeniacus	10	No No	- FAC	FACW species		.x2= _	0	_
4. Thuja plicata	<del>10</del> 7	No No	_ FAC FACU	FACULARISIS -	30	· ×3= _	90 336	_
5. Acer macrophyllum	79	No = Total Cover		FACU species UPL species	84	· <sup>x4=</sup> – · x5=	0	_
Herb Stratum (Plot size: 1m)		= Total Cover		Column Totals:	114	· (A)	426	— (B)
1.				-		· <sup>(^)</sup> –	420	<b>—</b> (D)
2.				Prevalence Inde	ox – R/A–		3.7	<b>'</b> 4
3.				Hydrophytic Veget		icators		
4.			_	1 - Rapid Tes				on
5.				2 - Dominano			3	
6.				3 - Prevalenc	e Index is	≤3.0¹		
7.				4 - Morpholog	gical Adap	tations	¹ (Provide	)
8.					emarks or		•	
9.				5 - Wetland N	lon-Vascu	ılar Pla	nts¹	
10.				Problematic I	- - - - - - - - - - - - - - - - - - -	ic Vege	etation¹ (E	xplain)
11.				¹Indicators of hydric	soil and v	wetland	d hydrolog	ıy
		= Total Cover		must be present, ur	ıless distu	rbed o	r problem	atic.
Woody Vine Stratum (Plot size:)								
1.				Hydrophytic				
2.				Vegetation	Yes	١	10 X	
		= Total Cover		Present?				
% Bare Ground in Herb Stratum 100	% Cov	er of Biotic Crus	it					
Remarks:	<del></del>			1				
Sample plot does not meet dominance test or prev	alence index for hy	drophytic veget	ation.					

SOIL Sampling Point: SP WFW 6-2

Depth	r <b>iption: (Describe t</b> Matri	•	eaea		indicator of lox Feature		ıne abse	ence of indicators.)			
(inches)	Color (moist)	<u>^</u> %		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Ren	narks	
<u> </u>				Color (moist)		<del>Туре</del>		Silt Loam	11611	laiks	
0-18	10YR 3/3	100						— Sill Loaiii			
1T 0 0		alatian DM Da		I Matrix OC Cava				21	n. Di Davalia	: M M-4	
	oncentration, D= Dendicators: (Applications)					led Sand G		Indicators for Proble	n: PL=Pore Lin		ITIX.
-	ol (A1)	able to all Enn	is, uiii	Sandy Redox (S				2 cm Muck (A1	-	JIIS .	
	Epipedon (A2)			Stripped Matrix (	•			Red Parent Ma	•		
	Histic (A3)			Loamy Mucky M	,	(excent MI	RIA1)		ark Surface (TF	:12)	
	gen Sulfide (A4)			Loamy Gleyed N		(CXCCPI WIL	1127(1)	Other (Explain		12)	
	ted Below Dark Surf	ace (A11)	-	Depleted Matrix					iii riomano,		
	Dark Surface (A12)	,		Redox Dark Surf				<sup>3</sup> Indicators of hydrop	hvtic vegetation	and	
	Mucky Mineral (S1	)	-	<ul> <li>Depleted Dark S</li> </ul>		)		wetland hydrology			
	Gleyed Matrix (S4)			_ · Redox Depression				unless disturbed of	· ·		
Restrictive	Layer (if present):			<u> </u>					<u> </u>		
Type:	, , ,										
Depth	(inches):		_					Hydric Soil Present	? Yes	No	X
Remarks:	<del></del>		_					-			
HYDROLC Wetland Hy	OGY /drology Indicators	s:									
Primary Ind	icators (minimum of	one required;	check	all that apply)				Secondary Indicators			_
	e Water (A1)			_ Water-Stained L _	` '	(except		Water Stained	Leaves (B9) ( <b>M</b> I	RLA 1, 2,	
	Vater Tables (A2)			MRLA 1, 2, 4				<b>4A</b> , and <b>4B</b> )			
	ation (A3)			Salt Crust (B11)				Drainage Patte	, ,		
	Marks (B1)			_ Aquatic Inverteb	, ,			Dry-Season Wa	, ,	(00)	
	ent Deposits (B2)			_ Hydrogen Sulfide			(00)		ole on Aeriel Ima	agery (C9)	
	eposits (B3) Mat or Crust (B4)			Oxidized Rhizos	•	-	oots (C3)				
	eposits (B5)			Presence of Rec Recent Iron Red			26)	Shallow Aquita FAC-Neutral Te			
	e Soil Cracks (B6)			Stunted or Stres		`	,		unds (D6) ( <b>LRR</b>	Δ)	
	ation Visible on Aeri	el Imagery (B		Other (Explain in		(B1) ( <b>LIII</b>	Α,	Frost-Heave Hu		~,	
	ley Vegetated Conc		3)	_							
Field Obse		,	- /				Г				
	iter Present? Yes	s No	Х	Depth (inches):							
Water Table			Х	Depth (inches):							
Saturation F	Present? Yes	No	Х	Depth (inches):			Wetland	d Hydrology Present?	Yes	No	X
(includes ca	apillary fringe)			_					_		
Describe Rec	orded Date (stream	gauge monitor	rina we	ell aerial photos n	revious ins	nections) i	<b>I</b> f availabl	<u>٠</u> .			
20001120 1100	ordod Dato (otrodin	gaago, mome	9	on, aonai priotos, p	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· availabl	<b>.</b>			
Remarks:											
	secondary indicato	rs of wetland h	/drolo	gy observed.							
', 5.	,										

Project/Site: OMFS and TDLE		City/County:	Federal Way,	Kina County	Sampli	ng Date:	11/6/2019
Applicant/Owner: Sound Transit				State:			WFW-07-SP1
Investigator(s): Steve Krueger, Aaron Thom				Section, Township, Rang	ge:	T21N R04E S	16
Landform (hillslope, terrace, etc.):	stream ben	ch	Local re	lief (concave, convex, non	e): convex	Slope	e (%): <u>&lt;3%</u>
Subregion (LRR): Northwest Forests and Coast (L	.RR A))	Lat: 47.309896	_ Lor	ng:122.302392		Datum:	NAD 1983
Soil Unit (Name-ID-Hydric Rating): Arents, Alderw	ood material, 0 to 6	percent slopes -	AmB	- Not Hydric	NWI classificat	ion:	none
Are climatic / hydrologic conditions on the site typical	•		Ye			explain in Rem	arks)
	· · · · · ·	No significantly dis		re "Normal Circumstand	•		XNo
	-	No naturally proble		needed, explain any ar			
SUMMARY OF FINDINGS – Attach site			nt locations	, transects, impor	tant features	s, etc.	
, , ,	Yes X	No	Is the Sampl	ed Area			
	Yes X	No	within a Wet	land?	v	N.	
Wetland Hydrology Present?	Yes X	No		Yes_	<u> </u>	No	•
Precipitation: According to the Seattle Tacoma International NOA  Remarks:	A weather station.	Precipitation was al	bove the normal	range for the three mor	nths prior to the s	ite visit.	
PEM wetland SP for WFW-07 located 2 meters east golf course.	of E. Fork Hylebo	os Creek along strea	ım bench @ OH	WM LB-11. The stream	has been heavily	y modified and	is adjacent to a
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test we	orksheet:		
<u>Tree Stratum</u> (Plot size: <u>1m radius</u> )	% Cover	Species?	<u>Status</u>	Number of Dominan	t Species		
1. none				That Are OBL, FAC	W, or FAC:	1	(A)
2.							
3.				Total Number of Do	minant		
4				Species Across All S	Strata:	1	(B)
,	=	: Total Cover					
Sapling/Shrub Stratum (Plot size: 1m radius				Percent of Dominan	t Species		
1. Rubus armeniacus	1%	No	<u>FAC</u>	That Are OBL, FAC		<u>100%</u>	2 (A/B)
2. 3.				Prevalence Index v  Total % Cover		v bv:	
-					•	у юу.	<del>_</del>
5.				OBL species  FACW species	x 1 = x 2 =		
5. <u> </u>	40/	T-1-1-0		FAC species	x 3 =		
Herb Stratum (Plot size: 1m radius)	1%=	Total Cover		FACU species	x 4 =		<del></del>
	050/	Van	EAC\A/	UPL species	x 5 =		
•	<u>95%</u> 3%	Yes No	<u>FACW</u> FAC	Column Totals:	(A)		(B)
Ranunculus repens     Equisetum telmateia	2%	No	FACW	_	(' ',' ce Index = B/A =	<del></del>	(5)
4.	2 /0		TACVV	Hydrophytic Veget			
5.					for Hydrophytic V		
6.				X 2 - Dominance			
7.				3 - Prevalence	Index is ≤3.0 <sup>1</sup>		
8.				<del></del>	cal Adaptations <sup>1</sup> (	Provide suppor	ting
9.				data in Rem	arks or on a sepa	arate sheet)	-
10.				5 - Wetland No	n-Vascular Plants	s <sup>1</sup>	
11.				Problematic Hy	drophytic Vegeta	ition (Explain) <sup>1</sup>	
	100% =	Total Cover		<sup>1</sup> Indicators of hydric	soil and wetland	hydrology mus	t
Woody Vine Stratum (Plot size: 1m radius)				be present.			
1. <u>none</u> 2.	0%			Hydrophytic			
	0% =	Total Cover		Vegetation	Yes X	No	
% Bare Ground in Herb Stratum 0%		Total Cover		Present?			
Remarks:							



SOIL							Sampling Point:	WFW-07-SP1
Profile Description	on (Describe to the	depth need	ed to document the	indicator or conf	irm the absei	nce of indicators):		
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-4	10YR 2/2	100					L	
4-7	2.5Y 3/1	100						
7-9	5Y 4/1	100	• •	-			SaL	decaying grass
9-20	10YR 4/1	100	• •	-			CL	accajing grace
1T C-Canaant		DM-Dadua	ad Matrix, CC=Causa		L Cusins 2	I acations DI -Dana Lini	an Manhahiir	=
2	•		ed Matrix, CS=Cover			Location: PL=Pore Lini	•	
					= fine; vf = ve		clay); - = light (less clay)	
	itors (Applicable to	ali LKKS, ui	nless otherwise not				blematic Hydric Soils <sup>3</sup> :	
Histosol (A1)			Sandy Redox (S	•		2 cm Muck (A	•	
Histic Epipedo			Stripped Matrix			Red Parent M		
Black Histic (A	.3)		Loamy Mucky M	lineral (F1) (excep	t MLRA 1)	Very Shallow	Dark Surface (TF12)	
Hydrogen Sulf	ide (A4)		Loamy Gleyed N	Matrix (F2)		X Other (Explain	in Remarks)	
Depleted Below	w Dark Surface (A11	)	Depleted Matrix	(F3)				
Thick Dark Sui	rface (A12)		Redox Dark Sur	face (F6)		<sup>3</sup> Indicators of hydro	phytic vegetation and wetla	and
Sandy Mucky I	Mineral (S1)		Depleted Dark S	Surface (F7)		•	present, unless disturbed o	
Sandy Gleyed	Matrix (S4)		Redox Depressi	ons (F8)		problematic.		
Restrictive Layer	(if present):							
Туре	: None					Hydric Soil		
Depth (inches):	N/A		_			Present?	Yes X	No
Remarks:								
	dric based on aquic n	noisture regi	me and fluvial entisol	. Decaying grass t	houghout laye	ers, proximity to floodpla	in may explain lack of hydr	ic soil indicators
HYDROLOGY								
Wetland Hydrolog	gy Indicators:							
Primary Indicators	(minimum of one rec	uired; check	all that apply)	_		Secondary Indicate	ors (2 or more required)	
Surface Water	· (A1)		Water-Stained L	eaves (B9) (exce	ot MLRA	Water-Stained	Leaves (B9) (MLRA 1, 2,	
X High Water Ta	•		 1, 2, 4A, and			4A, and 4B	, , ,	
X Saturation (A3			Salt Crust (B11)	•		Drainage Patt		
Water Marks (I	•		Aquatic Inverteb			~	/ater Table (C2)	
Sediment Dep	osits (B2)		—— · Hydrogen Sulfid			<del></del> ·	ible on Aerial Imagery (C9)	
Drift Deposits				spheres along Livir	na Roots (C3)			
Algal Mat or C			Presence of Re	-	.9 ( )	Shallow Aquit		
Iron Deposits (			<del></del>	luction in Tilled Sc	ils (C6)	x FAC-Neutral		
Surface Soil C	` '			sed Plants (D1) (I			ounds (D6) (LRR A)	
	ible on Aerial Imager	v (B7)	Other (Explain in		-1(1( A)		Hummocks (D7)	
	etated Concave Surfa		Other (Explain i	i Kemarks)		1105t-11eave1	idilililocks (D1)	
		ice (bo)						
Field Observation								
Surface Water Pre			NoX	Depth (inches):		Wetland		
Water Table Prese	ent? Yes	Х	No	Depth (inches):	12	Hydrology	Yes X	No
Saturation Present	-	X	No	Depth (inches):	11	Present?		
(includes capillary	tringe)							
Describe Pecorde	ed Data (stream co	ide monito	ring well, aerial pho	tos previous ins	nections) if	available:		
	Daw (Susain yai	.go, momit	y, acriai pilo	, provious ilis	, , , , , , , , , , , , , , , , , , ,			
Remarks:								

Project/Site: 0	DMFS and TDLE		City/County:	Federal Way,	King County	Samp	pling Date:	11/6/2019
Applicant/Owner:	Sound Transit				State:	WA	Sampling Point:	WFW-07-SP2
Investigator(s):	Steve Kruger, Aaron Thom			_	Section, Township, Ran	ge:	T21N R04E S1	16
Landform (hillslop	e, terrace, etc.):	hillslop	е	Local re	elief (concave, convex, nor	ne):none	Slope	e (%): >10%
Subregion (LRR)	: Northwest Forests and Coast	(LRR A))	Lat: 47.309893	_ Loi	ng: <u>-122.302418</u>		Datum:	NAD 1983
Soil Unit (Name-I	D-Hydric Rating): Arents, Alde	erwood material, (	to 6 percent slopes -	AmB	Not Hydric	NWI classifica	ation:	none
•	rologic conditions on the site typic		•		es No_		o, explain in Rem	*
Are Vegetation		_	No significantly dis		re "Normal Circumstand	·	Yes	X_No
Are Vegetation			No naturally proble		If needed, explain any a			
	F FINDINGS – Attach sit	•		nt locations	s, transects, impo	tant feature	s, etc.	
, , ,	etation Present?	Yes X	No	Is the Samp	led ∆rea			
Hydric Soil Pres		Yes	No X	within a Wet	Hand?		N- V	
Wetland Hydrolo	gy Present?	Yes	No <u>X</u>	*************************************	uanur Yes_		No X	
Precipitation: According to the	Seattle Tacoma International NO	AA weather statio	n. Precipitation was at	pove the norma	I range for the three mo	nths prior to the	site visit.	
Remarks:								
	FW-07 paired with WFW-07-SP1.	SP is ~4m east a	and upslope of East Fo	ork Hylebos Cre	ek and 2m east of WFV	V-07-SP1.		
·	·			·				
VEGETATIO	N .							
		Absolute	Dominant	Indicator	Dominance Test w	orksheet:		
Tree Stratum	(Plot size: 1m radius)	% Cover	Species?	<u>Status</u>	Number of Dominar	nt Species		
1. <u>none</u>					That Are OBL, FAC	W, or FAC:	2	(A)
2.								
3.					Total Number of Do	minant		
4		_			Species Across All	Strata:	3	(B)
		0%	= Total Cover					
1	tratum (Plot size: 1m radius)				Percent of Dominar	•	070/	
nex aquilollu		12%	Yes	FACU	That Are OBL, FAC		<u>67%</u>	(A/B)
Rubus armei	niacus	5%	Yes	FAC	Prevalence Index v Total % Cover		iply by:	
4.			·		OBL species	x 1 =		_
5.					FACW species	x 2 =		
J		 17%	= Total Cover		FAC species	x 3 =		
Herb Stratum	(Plot size: 1m radius)	1770	- Total Cover		FACU species	x		
Equisetum te		80%	Yes	FACW	UPL species	x 5 =		
2.	eimateia			FACW	Column Totals:	(A)		(B)
3.		_	·		-	nce Index = B/A	·=	(5)
4.		_			Hydrophytic Veget			
5.					' ' '	for Hydrophytic		
6.					X 2 - Dominance			
7.					3 - Prevalence			
8.		<del></del>					1 (Provide suppor	rtina
9.		<del></del>				narks or on a se		9
10.			•			on-Vascular Plan		
11.						ydrophytic Veget		
-		80%	= Total Cover		Indicators of hydric			t
Woody Vine Stra	atum (Plot size: 1m radius)				be present.		, , , , , , , , , , , , , , , , , , , ,	
1. <u>none</u>		0%						
2					Hydrophytic	.,		
% Bare Ground	in Herb Stratum 20%	0%	= Total Cover		Vegetation	Yes	XNo	
% Bare Ground	III Herb Stratum 20 //				Present?			
Remarks:					•			



SOIL				Sampling Point:	WF	W-07-SP2
Profile Description (Describe to the depth	needed to document the ir	ndicator or confirm the abso	ence of indicators):			
Depth Matrix		Redox Features				
(inches) Color (moist) %	6 Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	F	Remarks
0-7 10YR 3/2 10	00			L		
7-20 10YR 5/3 10	00			GSaL		
			. <u> </u>			
Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix, CS=Covered	d or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore Linir	ng, M=Matrix.		
Texture: Sa = sand; Si = silt; C = clay; L = loa	am or Ioamy. Texture Modifie			~		
Hydric Soil Indicators (Applicable to all LR				olematic Hydric Soils <sup>3</sup> :		
Histosol (A1)	Sandy Redox (S5	j)	2 cm Muck (A	10)		
Histic Epipedon (A2)	Stripped Matrix (S		Red Parent Ma			
Black Histic (A3)		neral (F1) (except MLRA 1)	<del></del>	Dark Surface (TF12)		
Hydrogen Sulfide (A4)	Loamy Gleyed Ma		Other (Explain			
Depleted Below Dark Surface (A11)	Depleted Matrix (			,		
Thick Dark Surface (A12)	Redox Dark Surfa	ace (F6)	2			
Sandy Mucky Mineral (S1)	Depleted Dark Su	ırface (F7)	•	phytic vegetation and wetla present, unless disturbed o		
Sandy Gleyed Matrix (S4)	Redox Depression	ns (F8)	problematic.	orosoni, unicos distarbed o		
Restrictive Layer (if present):						
Type: None			Hydric Soil			
			•			v
Depth (inches): N/A			Present?	Yes	No	Х
Remarks:			Present?	Yes	No_	
			Present?	Yes	No_	
Remarks:			Present?	Yes	No_	
Remarks:			Present?	Yes	No_	
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:	check all that apply)			Yes	No_	
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:		aves (B9) (except MLRA	Secondary Indicato		No_	<u> </u>
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: Surface Water (A1)	Water-Stained Le	aves (B9) (except MLRA B)	Secondary IndicatoWater-Stained	rs (2 or more required) Leaves (B9) (MLRA 1, 2,	No_	
Remarks:  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:			Secondary Indicato	rs (2 or more required) Leaves (B9) (MLRA 1, 2,	No_	<u> </u>
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)	Water-Stained Le	В)	Secondary IndicatoWater-Stained 4A, and 4B)Drainage Patte	rs (2 or more required) Leaves (B9) (MLRA 1, 2,	No_	
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11)	B) ates (B13)	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte  Dry-Season W	rs (2 or more required) Leaves (B9) (MLRA 1, 2,	No_	
HYDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	B) ates (B13)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) rater Table (C2) ble on Aerial Imagery (C9)	No_	
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	B) ates (B13) Odor (C1) heres along Living Roots (C3	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W  Saturation Vis	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) rater Table (C2) ble on Aerial Imagery (C9) osition (D2)	No_	*
HYDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	B) ates (B13) Odor (C1) heres along Living Roots (C3	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Vis	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3)	No_	*
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4)	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte  Dry-Season W  Saturation Vis  Geomorphic P  Shallow Aquite  FAC-Neutral T	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3)	No_	*
Remarks:  HYDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one required:  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)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) rater Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) rest (D5)	No_	*
HYDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one required:  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)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) lest (D5) ounds (D6) (LRR A)	No_	*
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  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 (B6)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) lest (D5) ounds (D6) (LRR A)	No_	*
Remarks:  HYDROLOGY  Netland Hydrology Indicators:  Primary Indicators (minimum of one required:  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 (B6)  Field Observations:	Water-Stained Le  1, 2, 4A, and 4I  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in	B) ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W  Saturation Vis  Geomorphic P  Shallow Aquita FAC-Neutral T  Raised Ant Mo Frost-Heave H	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) lest (D5) ounds (D6) (LRR A)	No_	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: 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 (B6) Field Observations: Surface Water Present?	Water-Stained Le  1, 2, 4A, and 4I  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in	ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) uction in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)  Depth (inches):	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W  Saturation Vis  Geomorphic P  Shallow Aquita FAC-Neutral T  Raised Ant Mo Frost-Heave H	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) eest (D5) bunds (D6) (LRR A) lummocks (D7)		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: 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 (B6) Field Observations: Surface Water Present? Yes Water Table Present?	Water-Stained Le  1, 2, 4A, and 4I  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in	ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) uction in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)  Depth (inches): Depth (inches):	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave F	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) lest (D5) ounds (D6) (LRR A)	No_	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: 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) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present?	Water-Stained Le  1, 2, 4A, and 4I  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in	ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) uction in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)  Depth (inches):	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W  Saturation Vis  Geomorphic P  Shallow Aquita FAC-Neutral T  Raised Ant Mo Frost-Heave H	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) eest (D5) bunds (D6) (LRR A) lummocks (D7)		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: 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 (B6) Field Observations: Surface Water Present? Yes Water Table Present?	Water-Stained Le  1, 2, 4A, and 4I  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in	ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) uction in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)  Depth (inches): Depth (inches):	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave F	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) eest (D5) bunds (D6) (LRR A) lummocks (D7)		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: 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) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present?	Water-Stained Le  1, 2, 4A, and 4I  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in	B) ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) liction in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)  Depth (inches): Depth (inches):	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W  Saturation Vis  Geomorphic P  Shallow Aquita FAC-Neutral T  Raised Ant Mo Frost-Heave H  Wetland Hydrology Present?	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) eest (D5) bunds (D6) (LRR A) lummocks (D7)		
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: 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 (B6) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Le  1, 2, 4A, and 4I  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp  Presence of Redu  Recent Iron Redu  Stunted or Stress  Other (Explain in	B) ates (B13) Odor (C1) heres along Living Roots (C3 uced Iron (C4) liction in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)  Depth (inches): Depth (inches):	Secondary Indicato  Water-Stained 4A, and 4B)  Drainage Patte Dry-Season W  Saturation Vis  Geomorphic P  Shallow Aquita FAC-Neutral T  Raised Ant Mo Frost-Heave H  Wetland Hydrology Present?	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) later Table (C2) ble on Aerial Imagery (C9) osition (D2) ard (D3) eest (D5) bunds (D6) (LRR A) lummocks (D7)		
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Project/Site: C	MFS and TDLE		City/County:	Federal Way	, King County	Sampling Date:	11/16/2019
Applicant/Owner:	Sound Transit				State: WA	Sampling	Point: WFW-07-SP3
Investigator(s):	Steve Krueger, Aaron Thom	า		_	Section, Township, Range:	T21N R	04E S16
Landform (hillslope	e, terrace, etc.):	terrace		Local	relief (concave, convex, none):	none	Slope (%):<3%
Subregion (LRR):	Northwest Forests and Coa	st (LRR A))	Lat: 47.310171	_ Lo	ong:122.302239	Datum:	NAD 1983
Soil Unit (Name-II	D-Hydric Rating): Arents, Al	Iderwood material, 0	to 6 percent slopes -	AmB	- Not Hydric NWI	classification:	none
Are climatic / hydr	rologic conditions on the site ty				res No X	(If no, explain i	n Remarks)
Are Vegetation	, Soil	, or Hydrology _	significantly dis	sturbed?	Are "Normal Circumstances" pre	esent?	Yes X No
Are Vegetation	X , Soil	, or Hydrology _	naturally proble	ematic? (	If needed, explain any answers	in Remarks.)	
<b>SUMMARY O</b>	F FINDINGS - Attach s	site map showin	g sampling poi	nt location:	s, transects, important	features, etc.	
Hydrophytic Vege	etation Present?	Yes X	No				
Hydric Soil Prese	ent?	Yes X	No	Is the Samp	oled Area		
Wetland Hydrolog	gy Present?	Yes X	No	within a We	etland? Yes X	No	
Precipitation:				•			
•	Seattle Tacoma International N	OAA weather station	. Precipitation was al	bove the norma	al range for the three months pr	rior to the site visit.	
			·				
Remarks:							
PSS SP for WFW to a golf course.	-07. Located near pedestrian b	oridge ∼2m east and u	upslope of E. Fork H	ylebos Creek T	ributary 0016A. The stream ha	s been heavily mod	ified and is adjacent
•	the wetland and also adjacent	upland is dominated	by the aggressive sr	ecies, English	ivy (Hedera helix), which would	d be considered pro	blematic vegetation.
Hydric soil indicat	ors and hydrology indicators a	•					
VEGETATION	N .						
		Absolute	Dominant	Indicator	Dominance Test worksho	eet:	
Tree Stratum	(Plot size: <u>r=2m)</u>	% Cover	Species?	<u>Status</u>	Number of Dominant Spec	ies	
1. <u>none</u>					That Are OBL, FACW, or F	FAC:	(A)
2.							
3.					Total Number of Dominant	(	
4.		<u> </u>			Species Across All Strata:		3 (B)
		0%=	Total Cover				
Sapling/Shrub S	tratum (Plot size: r=2m)				Percent of Dominant Spec	ies	
1. Salix sitchens	sis	80%	Yes	FACW	That Are OBL, FACW, or F	FAC:	67% (A/B)
2. Rubus armer	niacus	5%	No	FAC	Prevalence Index worksh	neet:	
3.					Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.		<u> </u>			FACW species	x 2 =	
		<u> </u>	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: r=1m				FACU species	x 4 =	
1. Equisetum te	lmateia	5%	Yes	FACW	UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Ind	ex = B/A =	
4.					Hydrophytic Vegetation I	Indicators:	
5.		<u> </u>			1 - Rapid Test for Hyd		n
6.			<u> </u>		X 2 - Dominance Test is	. , ,	
7.					3 - Prevalence Index	4	
8.					4 - Morphological Ada		supporting
9.						or on a separate she	
10.					5 - Wetland Non-Vaso		,0.1,
11.					<del></del>		alain\ <sup>1</sup>
· · · · · · · · · · · · · · · · · · ·			T 1 10		Problematic Hydrophy		,
Woody Vine Stra	itum (Plot size: <u>r=2m)</u>	5%=	Total Cover		Indicators of hydric soil ar be present.	na wetland nydrolog	jy must
Hedera helix	(1 lot size. =====	95%	Yes	FACU	be present.		
2.					Hydrophytic		
		95% =	Total Cover		Vegetation \	Yes X No	
% Bare Ground i	n Herb Stratum 0%				Present?		
Demonto:							
•	the wetland and also adjacent	•			ivy ( <i>Hedera helix</i> ), which would be a salso hydric	ld be considered pr	oblematic vegetation.



SOIL							Sampling Point:	WFW-07-SP3
Profile Description	(Describe to the	depth needed	I to document the	indicator or co	nfirm the absen	ice of indicators):		
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-7	10YR 3/2	100					SaL	rtomanto
7-17	10YR 4/2	90	10YR 5/6	10			CL -	
	1011( 4/2	90	10110 3/0			IVI	<u> </u>	
			·	-		-		
	<del></del>						<del></del>	
	-				-	<del></del>	<del>-</del>	
<sup>1</sup> Type: C=Concentra						ocation: PL=Pore Linin	•	
					t = fine; vf = ver		clay); - = light (less clay)	
Hydric Soil Indicato	rs (Applicable to	all LRRs, uni	ess otherwise not	.ed):		Indicators for Prob	lematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		_	Sandy Redox (	35)		2 cm Muck (A1	0)	
Histic Epipedon	(A2)	_	Stripped Matrix	(S6)		Red Parent Ma	terial (TF2)	
Black Histic (A3)		_	Loamy Mucky N	/lineral (F1) (exce	ept MLRA 1)	Very Shallow D	ark Surface (TF12)	
Hydrogen Sulfide	e (A4)	_	Loamy Gleyed	Matrix (F2)		Other (Explain	in Remarks)	
x Depleted Below	Dark Surface (A11	)	x Depleted Matrix	(F3)				
Thick Dark Surfa		_	Redox Dark Su	` '		2		
Sandy Mucky Mi		_	Depleted Dark	, ,			phytic vegetation and wetla	
Sandy Gleyed M	` '	=	Redox Depress	, ,		hydrology must be p problematic.	resent, unless disturbed or	
						F		
Restrictive Layer (if	present):							
Type: _	None					Hydric Soil		
Depth (inches):	N/A					Present?	Yes X	No
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m	ninimum of one rec	uired; check a	III that apply)			Secondary Indicator	s (2 or more required)	
Surface Water (A		•		<del>–</del> ₋eaves (B9) (exc	sent MI PA	-	Leaves (B9) (MLRA 1, 2,	
High Water Table	·	_	1, 2, 4A, and		opt MEI O	4A, and 4B)		
	8 (A2)			·		Drainage Patte		
X Saturation (A3) Water Marks (B1	)	_	Salt Crust (B11			Dry-Season W	, ,	
<del></del>		=	Aquatic Invertel			<u> </u>	` ,	
X Sediment Depos	` '	_	Hydrogen Sulfic	. ,			ole on Aerial Imagery (C9)	
X Drift Deposits (B	•	_		spheres along Liv	ving Roots (C3)	X Geomorphic Po		
Algal Mat or Cru		_		duced Iron (C4)		Shallow Aquita		
Iron Deposits (B	5)	_	Recent Iron Re	duction in Tilled S	Soils (C6)	X FAC-Neutral Te	est (D5)	
Surface Soil Cra	cks (B6)	_	Stunted or Stre	ssed Plants (D1)	(LRR A)	Raised Ant Mo	unds (D6) (LRR A)	
Inundation Visibl	e on Aerial Imager	y (B7)	Other (Explain i	n Remarks)		Frost-Heave H	ummocks (D7)	
Sparsely Vegeta	ted Concave Surfa	ace (B8)						
Field Observations:								
Surface Water Prese	ent? Yes	1	No X	Depth (inches	s):	Wetland		
Water Table Present	-		No	Depth (inches		Hydrology	Yes X	No
Saturation Present?	Yes		No	Depth (inches	· ——	Present?	<u>/</u>	
(includes capillary fri	-			Deptil (illicites	5)	riesent:		
			na wall sad-lat	too wanter !	noneoffer-\ If	weileble:		
Describe Recorded	שמנא (stream gai	uge, monitori	ng well, aerial pho	າເວຣ, previous ir	nspections), if a	ivaliable:		
Remarks:	dt. d. 00/00/-	000			Labella at O.C. of	Olama of the state		alcala 126 t
Hydrology check con and sediment deposi		u∠u: soils satu	rated to the surfac	∍, ground water t	table at 3 inches.	. Signs of riverine hydrol	logy in immediate vicinity in	ciude drift deposit
and sediment deposi	io.							

Parametrix ENGINEERING , PLANNING , ENVIRONMENTAL SCIENCES

Project/Site: OM	FS and TDLE		City/County:	Federal Way	, King County	Sampling Date	e: 11/	6/2019
Applicant/Owner:	Sound Transit				State: WA	Sampling	Point: W	FW-07-SP4
Investigator(s):	S. Krueger, A. Thom				Section, Township, Range:	 T21N F	R04E S16	
Landform (hillslope, te	errace, etc.):	hillslope	)		relief (concave, convex, none):		Slope (%	o): <u>&gt;10%</u>
Subregion (LRR):	Northwest Forests and Coa	st (LRR A))	Lat: 47.310178	_ Lo	ing: -122.302193	Datum	: <u>NA</u>	D 1983
Soil Unit (Name-ID-	Hydric Rating): Arents, A	lderwood material, 0	to 6 percent slopes -	AmB	- Not Hydric NW	I classification:	nor	ne
· · · · · · · · · · · · · · · · · · ·	ogic conditions on the site ty	•			'esNox	(If no, explain	in Remarks	s)
	, Soil				Are "Normal Circumstances" p		Yes x	No
Are Vegetation	, Soil				If needed, explain any answer	,		
SUMMARY OF	FINDINGS – Attach	site map showir	ng sampling poi	nt locations	s, transects, important	features, etc.		
Hydrophytic Vegeta		Yes	No <u>X</u>	Is the Samp	Jad Araa			
Hydric Soil Present		Yes		within a We	Alam dO			
Wetland Hydrology	Present?	Yes	No <u>X</u>	within a we	tiand? Yes	No	<u> </u>	
Remarks:					Il range for the three months p		nglish ivy ar	nd
•	ry, dominate this area.				33			
		Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
Tree Stratum	(Plot size: r=2m)	% Cover	Species?	<u>Status</u>	Number of Dominant Spe	cies		
Pseudotsuga me	enziesii	40%	Yes	FACU	That Are OBL, FACW, or	FAC:	1	(A)
2.								<u> </u>
3.					Total Number of Dominar	ıt		
4					Species Across All Strata	:	3	(B)
		40%	= Total Cover					
	tum (Plot size: r=2m)				Percent of Dominant Spe	cies		
1. Rubus armeniae	cus	55%	Yes	FAC	That Are OBL, FACW, or	FAC:	<u>33%</u>	(A/B)
2. Rubus ursinus		1%	No	FACU	Prevalence Index works			
3.					Total % Cover of:	Multiply by:		
4.					OBL species	x 1 =		
5					FACW species	x 2 =	-	
	(=1	56%	= Total Cover		FAC species	x 3 =		
Herb Stratum	(Plot size: r=1m)				FACU species	x 4 =		
1. Equisetum telma	ateia	2%	No	FACW_	UPL species	x 5 =		
2.					Column Totals:	(A)		(B)
3.					Prevalence Inc			
4.					Hydrophytic Vegetation		n.	
5. 6.					1 - Rapid Test for Hy 2 - Dominance Test		11	
7.		<u> </u>			3 - Prevalence Index			
8.		<u> </u>			4 - Morphological Ad		oupporting	
9.		<u> </u>			<u> </u>	or on a separate sh		
10.					5 - Wetland Non-Vas		501)	
11.					Problematic Hydroph		nlain) <sup>1</sup>	
		2%	= Total Cover		<sup>1</sup> Indicators of hydric soil a			
Woody Vine Stratu	m (Plot size: <u>r=2m)</u>		- Total Cover		be present.	na wedana nyarolo	gy must	
1 Hedera helix		98%	Yes	FACU				
2					Hydrophytic	V		
% Bare Ground in I	Herb Stratum 0%	98%	= Total Cover		Vegetation Present?	YesNo	X	<u> </u>
Remarks:					ı			
Aggressive vegetation	on (English ivy and Himalay	an blackberry) domin	ate this area.					



SOIL							Sampling Point:	
Profile Description	n (Describe to the de	pth needed	to document the i	indicator or cor	nfirm the absen	ce of indicators):		
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-7	10YR 2/1	100					L	
7-11	10YR 3/2	80	10YR 4/2	20			GrSaL	
11-17	2.5YR 5/2	99	10YR 5/6	<1			GrSaL	
					·			
					·			
· ·					·			
Type: C=Concentra	ation, D=Depletion, RI	M=Reduced	Matrix, CS=Covere	ed or Coated Sar	nd Grains <sup>2</sup> Lo	ocation: PL=Pore Lin	ing, M=Matrix.	
Texture: Sa = sand;	; Si = silt; C = clay; L =	= loam or loa	my. Texture Modifi	er: co = coarse;	f = fine; vf = very	/ fine; + = heavy (mor	e clay); - = light (less clay)	
lydric Soil Indicate	ors (Applicable to all	I LRRs, unle	ss otherwise note	ed):		Indicators for Pro	oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1)			Sandy Redox (S	5)		2 cm Muck (A	A10)	
Histic Epipedon	(A2)		Stripped Matrix (	,		Red Parent N	•	
Black Histic (A3		_	Loamy Mucky M		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen Sulfid	•		Loamy Gleyed M		, //		in in Remarks)	
	Dark Surface (A11)		Depleted Matrix			Salah (Explain		
Thick Dark Surfa	, ,		Redox Dark Surf					
Sandy Mucky M	, ,		Depleted Dark S				ophytic vegetation and wetlar	
Sandy Gleyed N			Redox Depression			hydrology must be problematic.	e present, unless disturbed or	
		_				problemater		
Restrictive Layer (i	f present):							
<b>T</b>								
Type:	None					Hydric Soil		
Depth (inches):	None N/A sult of prior disturbance	es				Present?	Yes	No X
Depth (inches):	N/A	es				•	Yes	No X
Depth (inches):  Remarks: Soils may be the res	N/A	es				•	Yes	No X
Depth (inches): Remarks: Soils may be the res	N/A sult of prior disturbance	es				•	Yes	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology	N/A sult of prior disturbance		I that apply)			Present?	Yes	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Vetland Hydrology  Primary Indicators (n	N/A sult of prior disturbance r Indicators: minimum of one requir			– eaves (B9) (exc	ept MLRA	Present?  Secondary Indicate	ors (2 or more required)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Vetland Hydrology  Primary Indicators (r  Surface Water (	N/A sult of prior disturbance  r Indicators: minimum of one requir		Water-Stained Lo		ept MLRA	Present?  Secondary Indicat Water-Staine	ors (2 or more required) d Leaves (B9) (MLRA 1, 2,	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Vetland Hydrology  Primary Indicators (r  Surface Water (  High Water Tab	N/A sult of prior disturbance  r Indicators: minimum of one requir		_ Water-Stained Lo		ept MLRA	Secondary Indicat Water-Staine 4A, and 4E	ors (2 or more required) d Leaves (B9) (MLRA 1, 2,	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Vetland Hydrology  Primary Indicators (r  Surface Water (	N/A sult of prior disturbance  / Indicators: minimum of one require (A1)		Water-Stained Lo	4B)	ept MLRA	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat	ors (2 or more required) d Leaves (B9) (MLRA 1, 2,	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology  Primary Indicators (r  Surface Water (  High Water Tab  Saturation (A3)  Water Marks (B	N/A sult of prior disturbance  / Indicators: minimum of one requir A1) le (A2)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb	4B) rates (B13)	ept MLRA	Secondary Indicate Water-Staine 4A, and 4E Drainage Pat Dry-Season	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology  Primary Indicators (r  Surface Water (r  High Water Tab  Saturation (A3)  Water Marks (B  Sediment Depos	N/A sult of prior disturbance  / Indicators: minimum of one requir (A1) lle (A2)  1) sits (B2)		Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide	4B) rates (B13) e Odor (C1)		Secondary Indicat  Water-Staine  4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vi	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Vetland Hydrology Primary Indicators (r  Surface Water (  High Water Tab  Saturation (A3)  Water Marks (B  Sediment Deposits (E	N/A sult of prior disturbance r Indicators: minimum of one requir (A1) lle (A2) 1) sits (B2) 33)		Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos	4B) rates (B13) e Odor (C1) pheres along Liv		Secondary Indicat  Water-Staine  4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vi  Geomorphic	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Vetland Hydrology  Primary Indicators (r  Surface Water (a) High Water Tab  Saturation (A3) Water Marks (B) Sediment Deposits (E Algal Mat or Cru	N/A sult of prior disturbance  y Indicators: minimum of one requir (A1) lle (A2)  1) sits (B2) 33) ust (B4)		Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4)	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology  Primary Indicators (r  Surface Water (.  High Water Tab  Saturation (A3)  Water Marks (B  Sediment Deposits (E  Algal Mat or Cru  Iron Deposits (B	N/A sult of prior disturbance  / Indicators: minimum of one requir (A1) ale (A2)  1) sits (B2) 33) ust (B4) 85)		Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebo Hydrogen Sulfide Oxidized Rhizoso Presence of Red Recent Iron Red	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology  Primary Indicators (r  Surface Water (.  High Water Tab  Saturation (A3)  Water Marks (B  Sediment Deposits (E  Algal Mat or Crulino Deposits (B  Surface Soil Cra	N/A sult of prior disturbance  / Indicators: minimum of one requir (A1) sle (A2)  1) sits (B2) sa3) set (B4) sacks (B6)	red: check all	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S sed Plants (D1)	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Vetland Hydrology  Primary Indicators (r  Surface Water (.  High Water Tab  Saturation (A3)  Water Marks (B  Sediment Deposits (E  Algal Mat or Cru.  Iron Deposits (B  Surface Soil Cra  Inundation Visib	N/A sult of prior disturbance  / Indicators: minimum of one requir (A1) sle (A2)  1) sits (B2) 33) ust (B4) 35) acks (B6) ble on Aerial Imagery (	red: check all	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebo Hydrogen Sulfide Oxidized Rhizoso Presence of Red Recent Iron Red	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S sed Plants (D1)	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology  Primary Indicators (r  Surface Water (  High Water Tab  Saturation (A3)  Water Marks (B  Sediment Deposits (E  Algal Mat or Cru  Iron Deposits (B  Surface Soil Cra  Inundation Visib  Sparsely Vegeta	N/A sult of prior disturbance  / Indicators: minimum of one requir (A1) lle (A2)  1) sits (B2) 33) ust (B4) 85) acks (B6) ble on Aerial Imagery (ated Concave Surface	red: check all	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S sed Plants (D1)	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Sparsely Vegeta  Field Observations	N/A sult of prior disturbance  r Indicators: minimum of one requir (A1) lle (A2)  1) sits (B2) 33 just (B4) 35) acks (B6) ble on Aerial Imagery ( ated Concave Surface	red: check all	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S sed Plants (D1) in Remarks)	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat  Water-Staine  4A, and 4E  Drainage Pat  Dry-Season V  Saturation Vi  Geomorphic  Shallow Aqui  FAC-Neutral  Raised Ant M  Frost-Heave	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water (and the company of the comp	N/A sult of prior disturbance  r Indicators: minimum of one requir (A1) le (A2)  1) sits (B2) 33 ust (B4) 35) acks (B6) ole on Aerial Imagery ( ated Concave Surface sent?  Yes	red: check all	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S sed Plants (D1) n Remarks)  Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) dounds (D6) (LRR A) Hummocks (D7)	
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology Primary Indicators (r  Surface Water ( High Water Tab Saturation (A3) Water Marks (B  Sediment Deposits (E  Algal Mat or Cru Iron Deposits (E  Surface Soil Cra Inundation Visib Sparsely Vegeta  Field Observations  Surface Water Preser	N/A sult of prior disturbance  y Indicators: minimum of one requir (A1) sits (B2) 33) sits (B4) 35) acks (B6) ole on Aerial Imagery ( ated Concave Surface sitement? Yes	red; check all	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S sed Plants (D1) n Remarks)  Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave  Wetland Hydrology	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A)	No X
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Netland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru. Iron Deposits (E Surface Soil Cra Inundation Visib Sparsely Vegeta  Field Observations Surface Water Preser Water Table Presert?	N/A sult of prior disturbance  y Indicators: minimum of one requir (A1) sle (A2)  1) sits (B2) sas; (B4) sas; (B6) sle on Aerial Imagery ( ated Concave Surface sent? Yes cent? Yes y Yes	red; check all	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S sed Plants (D1) n Remarks)  Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) dounds (D6) (LRR A) Hummocks (D7)	
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology Primary Indicators (r  Surface Water ( High Water Tab Saturation (A3) Water Marks (B  Sediment Deposits (E  Algal Mat or Cru Iron Deposits (E  Surface Soil Cra Inundation Visib Sparsely Vegeta  Field Observations  Surface Water Preser	N/A sult of prior disturbance  y Indicators: minimum of one requir (A1) sle (A2)  1) sits (B2) sas; (B4) sas; (B6) sle on Aerial Imagery ( ated Concave Surface sent? Yes cent? Yes y Yes	red; check all	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Liv duced Iron (C4) uction in Tilled S sed Plants (D1) n Remarks)  Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave  Wetland Hydrology	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) dounds (D6) (LRR A) Hummocks (D7)	
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Sparsely Vegeta  Field Observations  Surface Water Preser  Saturation Present? (includes capillary frees	N/A sult of prior disturbance  y Indicators: minimum of one requir (A1) le (A2)  1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aerial Imagery ( ated Concave Surface is ent? Yes cont? Yes cont? Yes cont? Yes cont? Yes	(B7) N:	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Liv fuced Iron (C4) uction in Tilled S sed Plants (D1) n Remarks)  Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat  Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave  Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) dounds (D6) (LRR A) Hummocks (D7)	
Depth (inches):  Remarks: Soils may be the res  HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Sparsely Vegeta  Field Observations  Surface Water Preser  Saturation Present? (includes capillary frees	N/A sult of prior disturbance  y Indicators: minimum of one requir (A1) le (A2)  1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aerial Imagery ( ated Concave Surface tiesent? Yes cht?	(B7) N:	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebe Hydrogen Sulfide Oxidized Rhizose Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Liv fuced Iron (C4) uction in Tilled S sed Plants (D1) n Remarks)  Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat  Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave  Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) dounds (D6) (LRR A) Hummocks (D7)	



Project/Site: 0	OMFS and TDLE		City/County:	Federal Way/	Kina	Sampling Dat	te: 11/6/2019
Applicant/Owner:			_ , ,		State: WA		ng Point: WFW-08-SP1
Investigator(s):	S. Krueger, A. Thom				Section, Township, Range:	T21N	R04E S16
Landform (hillslop	e, terrace, etc.):	stream benc	h	 Local re	elief (concave, convex, none):	concave	Slope (%): <3%
Subregion (LRR)	: Northwest Forests and Coast (	LRR A)) L	.at: 47.308060	Lo	ng: -122.302762	Datur	m: NAD 1983
Soil Unit (Name-	ID-Hydric Rating): Arents, Al	derwood material, 0 to	6 percent slopes -	AmB	- Not Hydric N\	WI classification:	none
Are climatic / hyd	Irologic conditions on the site typic	al for this time of yea	ar?	Υ	es No No	X (If no, explain	in Remarks)
Are Vegetation	, Soil				re "Normal Circumstances"	present?	Yes <u>X</u> No
Are Vegetation	, Soil X		<del></del>		f needed, explain any answe	,	
SUMMARY C	OF FINDINGS – Attach sit	e map showing	sampling poi	nt locations	, transects, importan	t features, etc.	i
Hydrophytic Veg	getation Present?	Yes <u>X</u>	No				
Hydric Soil Pres	ent?	Yes <u>X</u>	No	Is the Sampl			
Wetland Hydrolo	pgy Present?	Yes <u>X</u>	No	within a Wet	land? Yes	X No	
Precipitation:							
According to the	Seattle Tacoma International NOA	AA weather station, p	recipitation was ab	ove the normal	range for the three months	prior to the site visit	
Remarks:							_
	for WFW-08. In SW section of we	tland. Wetland is adj	acent to E. Fork Hy	ylebos Creek Tr	ib 0016A. The stream is hea	avily modified and a	ppears to be used as a
constructed storr	•						
	Soil appears to be a fluvial entiso wetland hydrology indicators supp			drophytic veget	ation, geomorphic position of	on stream bench, sig	inificant organics in
VEGETATIO	, 0, 11						
	•	Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum	(Plot size: r=1m)	% Cover	Species?	Status	Number of Dominant Sp		
1. none	(* ************************************		<del></del>		That Are OBL, FACW, o		3 (A)
2.		<u> </u>			That Ale OBE, I AOW, C		(/1)
3.		<u> </u>			Total Number of Domina	ant	
4.					Species Across All Strat		3 (B)
-		0% =	Fotal Cover		oposido / torodo / tir otrar		(5)
Sapling/Shrub S	Stratum (Plot size: r=1m)				Percent of Dominant Sp	pecies	
1. Salix lasiand		70%	Yes	FACW	That Are OBL, FACW, o		<u>100%</u> (A/B)
2. Rubus arme		20%	Yes	FAC	Prevalence Index work		
3.					Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.					FACW species	x 2 =	
		90% =	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: r=1m)				FACU species	x 4 =	
1. Phalaris arui	ndinacea	80%	Yes	FACW	UPL species	x 5 =	
2. Typha latifoli	ia	15%	No	OBL	Column Totals:	(A)	(B)
3. Ranunculus	repens	5%	No	FAC	Prevalence Ir	ndex = B/A =	
4.					Hydrophytic Vegetatio	n Indicators:	
5.					1 - Rapid Test for I	Hydrophytic Vegetat	ion
6.					X 2 - Dominance Tes	st is >50%	
7.					3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>	
8.					4 - Morphological A	Adaptations <sup>1</sup> (Provid	le supporting
9.					data in Remarks	s or on a separate s	heet)
10					5 - Wetland Non-V	ascular Plants <sup>1</sup>	
11					Problematic Hydro	phytic Vegetation (E	Explain) <sup>1</sup>
		100% =	Total Cover		<sup>1</sup> Indicators of hydric soil	and wetland hydrol	ogy must
Woody Vine Str	atum (Plot size: r=1m)				be present.		
1. <u>none</u> 2.					Hydrophytic		
		0% =	Fotal Cover		Vegetation	Yes X No	<b>5</b>
% Bare Ground	in Herb Stratum0%		. 5.5.1		Present?		
Remarks:							

SOIL								
Profile Descripti	ion (Describe to the	depth neede	ed to document the i	ndicator or confirm the a	bsence of indicators):			
Depth	Matrix		_	Redox Features				
(inches)	Color (moist)	%	Color (moist)	% Type	Loc <sup>2</sup>	Texture <sup>3</sup>	·	Remarks
0-4	10YR 2/2	100				CL		
			_					
			_					
<sup>1</sup> Type: C=Concer	ntration, D=Depletion,	RM=Reduce	ed Matrix, CS=Covere	d or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore Lin	ing, M=Matrix.		
<sup>3</sup> Texture: Sa = sar	nd; Si = silt; C = clay;	L = loam or l	loamy. Texture Modifi	er: co = coarse; f = fine; vf	= very fine; + = heavy (mor	e clay); - = light (	(less clay)	
Hydric Soil Indica	ators (Applicable to	all LRRs, ur	nless otherwise note	d):	Indicators for Pr	oblematic Hydr	ic Soils³:	
Histosol (A1)			Sandy Redox (S	5)	2 cm Muck (	A10)		
Histic Epipedo	on (A2)		Stripped Matrix (	S6)	Red Parent I	Material (TF2)		
Black Histic (A	A3)		Loamy Mucky M	ineral (F1) (except MLRA	) Very Shallow	v Dark Surface (⁻	TF12)	
Hydrogen Sul	Ifide (A4)		Loamy Gleyed M	latrix (F2)	X Other (Expla	in in Remarks)		
Depleted Belo	ow Dark Surface (A11	)	Depleted Matrix	(F3)	<u> </u>			
Thick Dark Su	urface (A12)		Redox Dark Surf	face (F6)	3			
Sandy Mucky	/ Mineral (S1)		Depleted Dark S	urface (F7)	<sup>3</sup> Indicators of hyd hydrology must be			
Sandy Gleyed	d Matrix (S4)		Redox Depression	ons (F8)	problematic.	o present, uniese	3 distarbed e	,,
Restrictive Layer	r (if present):							
	` . ,							
	e: guarry spalls				Hydric Soil			
Туре	e: quarry spalls 4.5				Hydric Soil Present?	Yes	x	No
Type Depth (inches):  Remarks: unable to dig past developed at the e	4.5 t quarry spalls at 4.5" tedges. Soil appears to	be a fluvial	entisol with aquic moi	sture regime. Strong hydro	-	constructed storm		y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e	4.5	be a fluvial	entisol with aquic moi	sture regime. Strong hydro	Present?	constructed storm	nwater facilit	y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong	4.5 t quarry spalls at 4.5" t edges. Soil appears to g wetland hydrology ir	be a fluvial	entisol with aquic moi	sture regime. Strong hydro	Present?	constructed storm	nwater facilit	y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong	4.5 t quarry spalls at 4.5" tedges. Soil appears tog wetland hydrology ir	be a fluvial	entisol with aquic moi	sture regime. Strong hydro	Present?	constructed storm	nwater facilit	y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo	4.5 t quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in	o be a fluvial ndicators sup	entisol with aquic moi	sture regime. Strong hydro	Present?  I appears to be used as a comphytic vegetation, geomorp	constructed storm	nwater facilii	y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators	4.5  It quarry spalls at 4.5" to edges. Soil appears to g wetland hydrology in a gy Indicators:  It quarry spalls at 4.5" to edges. Soil appears to edges. Soil	o be a fluvial ndicators sup	entisol with aquic moi oport determination as	sture regime. Strong hydro hydric soil.	Present? If appears to be used as a complytic vegetation, geomorphytic	constructed storm whic position on s	nwater facilit stream benc equired)	y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators  X_ Surface Wate	4.5  t quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in gy Indicators:  s (minimum of one requer (A1)	o be a fluvial ndicators sup	entisol with aquic moi poort determination as all that apply) Water-Stained L	sture regime. Strong hydro hydric soil. - eaves (B9) (except MLRA	Present? I appears to be used as a cophytic vegetation, geomorp  Secondary Indica  Water-Staine	constructed storm whic position on s tors (2 or more read Leaves (B9) (I	nwater facilit stream benc equired)	y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water Ti	4.5  It quarry spalls at 4.5" to edges. Soil appears to go wetland hydrology in a gy Indicators:  It is (minimum of one requer (A1) to the control of the co	o be a fluvial ndicators sup	entisol with aquic moi oport determination as all that apply)  Water-Stained L.  1, 2, 4A, and 4	sture regime. Strong hydro hydric soil. - eaves (B9) (except MLRA	Present?  I appears to be used as a comphytic vegetation, geomorp  Secondary Indica  Water-Staine 4A, and 4	tors (2 or more red Leaves (B9) (IB)	nwater facilit stream benc equired)	y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Water X High Water Tax X Saturation (A)	4.5  t quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in gy Indicators: s (minimum of one requer (A1) table (A2) (A3)	o be a fluvial ndicators sup	entisol with aquic moi oport determination as all that apply)  Water-Stained L  1, 2, 4A, and 4  Salt Crust (B11)	sture regime. Strong hydro hydric soil. - eaves (B9) (except MLRA	Present?  I appears to be used as a comphytic vegetation, geomorp  Secondary Indica  Water-Staine 4A, and 4l  Drainage Pa	tors (2 or more red Leaves (B9) (IB)	nwater facilit stream benc equired) MLRA 1, 2,	y. Wetlands have
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators  X Surface Wate X High Water Ta X Saturation (AX X Water Marks	4.5  t quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in a long transport of the control of	o be a fluvial ndicators sup	entisol with aquic moi port determination as  all that apply)  Water-Stained L  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb	sture regime. Strong hydronic hydric soil.  - eaves (B9) (except MLRA	Present?  I appears to be used as a cophytic vegetation, geomorp  Secondary Indica  Water-Staine 4A, and 4I  Drainage Pa  Dry-Season	tors (2 or more red Leaves (B9) (IB)  Water Table (C2	nwater facilit stream benc equired) MLRA 1, 2,	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators  X Surface Wate X High Water T: X Saturation (A: X Water Marks Sediment Dep	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in a comparation of the spall of th	o be a fluvial ndicators sup	entisol with aquic moi port determination as  all that apply)  Water-Stained L  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide	sture regime. Strong hydronic hydric soil.	Present?  I appears to be used as a complytic vegetation, geomorp  Secondary Indica  Water-Staine  4A, and 4I  Drainage Pa  Dry-Season  Saturation V	tors (2 or more red Leaves (B9) (IB) Water Table (C2)	nwater facilit stream benc equired) MLRA 1, 2,	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators  X Surface Wate X High Water Tax X Saturation (A: X Water Marks Sediment Dep	4.5  t quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in a gy Indicators: s (minimum of one requer (A1) table (A2) 3) (B1) posits (B2) s (B3)	o be a fluvial ndicators sup	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos	sture regime. Strong hydro hydric soil.	Present?  Secondary Indica  Water-Staine 4A, and 4I  Drainage Pa  Dry-Season  Saturation V  (C3)  X Geomorphic	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial In Position (D2)	nwater facilit stream benc equired) MLRA 1, 2,	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water Tax X Saturation (A: X Water Marks Sediment Dep Drift Deposits Algal Mat or C	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in a general spanning of the spannin	o be a fluvial ndicators sup	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec	sture regime. Strong hydro hydric soil.  - eaves (B9) (except MLRA 4B)  rates (B13) e Odor (C1) pheres along Living Roots luced Iron (C4)	Present?  Secondary Indica  Water-Staine 4A, and 4I  Drainage Pa  Dry-Season  Saturation V  (C3) X Geomorphic  Shallow Aqu	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial In Position (D2)	nwater facilit stream benc equired) MLRA 1, 2,	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water Ta X Saturation (AC X Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in a general spanning of the spannin	o be a fluvial ndicators sup	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec	eture regime. Strong hydro hydric soil.	Present?  Secondary Indica Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5)	equired) MLRA 1, 2,	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water T: X Saturation (A: X Water Marks: Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in gy Indicators:  Is (minimum of one requer (A1)  Isable (A2)  Isable (A2)  Isable (B4)  Isable (B4)  Isable (B4)  Isable (B4)  Isable (B6)  Cracks (B6)	b e a fluvial ndicators sup uired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres	eaves (B9) (except MLRA BB)  rates (B13)  e Odor (C1)  pheres along Living Roots luced Iron (C4)  uction in Tilled Soils (C6)  sed Plants (D1) (LRR A)	Secondary Indica  Water-Staine 4A, and 4i  Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant M	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators  X Surface Wate X High Water Ta X Saturation (A' X Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	4.5  t quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in gy Indicators: s (minimum of one requer (A1) able (A2) 3) (B1) posits (B2) s (B3) Crust (B4) c (B5) Cracks (B6) sible on Aerial Imager	b be a fluvial ndicators supuired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec	eaves (B9) (except MLRA BB)  rates (B13)  e Odor (C1)  pheres along Living Roots luced Iron (C4)  uction in Tilled Soils (C6)  sed Plants (D1) (LRR A)	Secondary Indica  Water-Staine 4A, and 4i  Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant M	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5)	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY  Wetland Hydrolo  Primary Indicators  X Surface Wate  X High Water T: X Saturation (A: X Water Marks  Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in a general space of the space of	b be a fluvial ndicators supuired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres	eaves (B9) (except MLRA BB)  rates (B13)  e Odor (C1)  pheres along Living Roots luced Iron (C4)  uction in Tilled Soils (C6)  sed Plants (D1) (LRR A)	Secondary Indica  Water-Staine 4A, and 4i  Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant M	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY  Wetland Hydrolo Primary Indicators  X Surface Wate X High Water T: X Saturation (A: X Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege  Field Observation	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in a general spanning of the spannin	y (B7)	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	eaves (B9) (except MLRA (B13) e Odor (C1) pheres along Living Roots (luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) (Remarks)	Present?  Secondary Indica  Water-Staine 4A, and 4I  Drainage Pa  Dry-Season  Saturation V  (C3) X Geomorphic  Shallow Aqu X FAC-Neutral  Raised Ant M Frost-Heave	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water Ta X Saturation (Aa X Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg:  Field Observation Surface Water Pr	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in gy Indicators:  Is (minimum of one requer (A1)  Isable (A2)  Isable (A2)  Isable (B4)  Isable (B5)  Crust (B4)  Isable on Aerial Imager petated Concave Surfaces (B6)  Isable on Aerial Imager petated Concave Surfaces (B6)  Isable on Aerial Imager petated Concave Surfaces (B6)	be a fluvial ndicators supuired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	eture regime. Strong hydro hydric soil.	Present?  Secondary Indica  Water-Staine 4A, and 4I  Drainage Pa  Dry-Season  Saturation V  (C3) X Geomorphic  Shallow Aqu X FAC-Neutral  Raised Ant M Frost-Heave	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR Hummocks (D7)	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water T: X Saturation (A: X Water Marks: Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg  Field Observation Surface Water Pr Water Table Pres	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in gy Indicators:  Is (minimum of one requer (A1)  Isable (A2)  Isable (A2)  Isable (A2)  Isable (B3)  Crust (B4)  Isable (B5)  Cracks (B6)  Isable on Aerial Imager tetated Concave Surfacet (B5)  Isable on Aerial Imager (B5)	be a fluvial ndicators supuired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	eaves (B9) (except MLRA 4B)  rates (B13)  e Odor (C1) pheres along Living Roots luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A)  I Remarks)  Depth (inches): surface	Secondary Indica Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant M Frost-Heave  Wetland Hydrology	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR Hummocks (D7)	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water Ti X Saturation (A: X Water Marks Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg  Field Observation Surface Water Pr Water Table Pres Saturation Preser	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in gy Indicators:  Is (minimum of one requer (A1)  Isable (A2)  Isable (A2)  Isable (A2)  Isable (B3)  Crust (B4)  Isable (B5)  Cracks (B6)  Isable on Aerial Imager petated Concave Surfares:  Insert yes  Inse	be a fluvial ndicators supuired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	eture regime. Strong hydro hydric soil.	Secondary Indica Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant M Frost-Heave  Wetland Hydrology	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR Hummocks (D7)	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water T: X Saturation (A: X Water Marks: Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg  Field Observation Surface Water Pr Water Table Pres	4.5  It quarry spalls at 4.5" tedges. Soil appears to g wetland hydrology in gy Indicators:  Is (minimum of one requer (A1)  Isable (A2)  Isable (A2)  Isable (A2)  Isable (B3)  Crust (B4)  Isable (B5)  Cracks (B6)  Isable on Aerial Imager petated Concave Surfares:  Insert yes  Inse	be a fluvial ndicators supuired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	eaves (B9) (except MLRA 4B)  rates (B13)  e Odor (C1) pheres along Living Roots luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A)  I Remarks)  Depth (inches): surface	Secondary Indica Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant M Frost-Heave  Wetland Hydrology	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR Hummocks (D7)	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water Ti X Saturation (A: X Water Marks Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg  Field Observation Surface Water Pr Water Table Pres Saturation Preser (includes capillary	4.5  It quarry spalls at 4.5" to edges. Soil appears to g wetland hydrology in a great spanning of the spannin	y (B7) ace (B8)  X  X	entisol with aquic moi port determination as  all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	eaves (B9) (except MLRA 4B)  rates (B13)  e Odor (C1) pheres along Living Roots luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A)  I Remarks)  Depth (inches): surface	Secondary Indica  Secondary Indica Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant N Frost-Heave  Wetland Hydrology Present?	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR Hummocks (D7)	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e in soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water Ti X Saturation (A: X Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg  Field Observation Surface Water Pr Water Table Pres Saturation Preser (includes capillary	4.5  It quarry spalls at 4.5" to edges. Soil appears to g wetland hydrology in a great spanning of the spannin	y (B7) ace (B8)  X  X	entisol with aquic moi port determination as  all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	eaves (B9) (except MLRA dB) rates (B13) e Odor (C1) pheres along Living Roots luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) i Remarks)  Depth (inches): surfac Depth (inches): surfac	Secondary Indica  Secondary Indica Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant N Frost-Heave  Wetland Hydrology Present?	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR Hummocks (D7)	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi
Type Depth (inches):  Remarks: unable to dig past developed at the e n soils, and strong  HYDROLOGY Wetland Hydrolo Primary Indicators X Surface Wate X High Water Ti X Saturation (A: X Water Marks Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg  Field Observation Surface Water Pr Water Table Pres Saturation Preser (includes capillary	4.5  It quarry spalls at 4.5" to edges. Soil appears to g wetland hydrology in a great spanning of the spannin	y (B7) ace (B8)  X  X	entisol with aquic moi port determination as  all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	eaves (B9) (except MLRA dB) rates (B13) e Odor (C1) pheres along Living Roots luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) i Remarks)  Depth (inches): surfac Depth (inches): surfac	Secondary Indica  Secondary Indica Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V (C3) X Geomorphic Shallow Aqu X FAC-Neutral Raised Ant N Frost-Heave  Wetland Hydrology Present?	tors (2 or more red Leaves (B9) (IB) Water Table (C2) isible on Aerial Ir Position (D2) itard (D3) Test (D5) Mounds (D6) (LR Hummocks (D7)	equired) MLRA 1, 2, magery (C9)	y. Wetlands have h, significant organi

Project No.: 554-1800-030 and -019

Project/Site: C	DMFS and TDLE		City/County:	Federal Way	, King County	Sampli	ing Date:	11/9/2019
Applicant/Owner:	Sound Transit				State:	WA S	Sampling Point:	: WFW-08-SP2
Investigator(s):	S. Krueger, A. Thom			_	Section, Township, Rang	ge:	T21N R04E S	16
Landform (hillslope	e, terrace, etc.):	Flat are	a	Local	relief (concave, convex, nor	ne): convex	Slop	e (%): <3%
Subregion (LRR):	: Northwest Forests and Coa	ast (LRR A))	Lat: 47.308239	L	ong:122.302792		Datum:	NAD 1983
Soil Unit (Name-I	D-Hydric Rating): Arents,	Alderwood material, 0	to 6 percent slopes -	AmB	- Not Hydric	NWI classificati	on:	none
· ·	rologic conditions on the site t	• •			YesNo_		explain in Rem	•
Are Vegetation	, Soil				Are "Normal Circumstand	·		X_ No
Are Vegetation		, or Hydrology			(If needed, explain any a		,	
	OF FINDINGS – Attach	-		nt locations	s, transects, impoi	tant reatures	, etc.	
Hydrophytic Veg		Yes	No X	Is the Sam	nled Area			
Hydric Soil Prese		Yes		within a We	ntland?		N- V	
Wetland Hydrolo	gy Present?	Yes	No <u>X</u>		Yes_		No X	
	Seattle Tacoma International	NOAA weather station	, precipitation was ab	oove the norma	al range for the three mor	nths prior to the si	te visit.	
Remarks: upland SP to WF	W-08-SP1 and SP3, located o	on fairway of golf cours	se. SP is west of wetla	and and just o	utside the fence surround	ling the wetland.		
VEGETATION	V						,	
		Absolute	Dominant	Indicator	Dominance Test w	vorksheet:		
Tree Stratum	(Plot size: <u>r=3m)</u>	% Cover	Species?	<u>Status</u>	Number of Domina	nt Species		
1. none					That Are OBL, FAC	W, or FAC:	1	(A)
2.								
3.					Total Number of Do	minant		
4					Species Across All	Strata:	2	(B)
		0%	= Total Cover					
	tratum (Plot size: r=2m)				Percent of Dominar	nt Species		
1. none					That Are OBL, FAC	W, or FAC:	<u>50%</u>	(A/B)
2.					Prevalence Index			
3.					Total % Cover	of: Multiply	y by:	_
4					OBL species	x 1 =		
5					FACW species	x 2 =		
		0%	= Total Cover		FAC species	x 3 =		
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =		
1. Poa pratensi	s	30%	Yes	FAC	UPL species	x 5 =		
2. Stellaria med	lia	15%	Yes	FACU	Column Totals:	(A)		(B)
3. <u>Draba verna</u>		10%	No	NOL	Prevalen	nce Index = B/A =		
4. Trifolium rep	ens	2%	No	FAC	Hydrophytic Vege			
<ol><li>Hypochaeris</li></ol>	radicata	1%	No	FACU	<del></del> '	for Hydrophytic V	'egetation	
6. Phalaris arur	ndinacea	1%	No	FACW	2 - Dominance			
7. Cirsium arve	nse	1%	No	FAC	3 - Prevalence	e Index is ≤3.0 <sup>1</sup>		
8						ical Adaptations¹ (		rting
9					data in Ren	marks or on a sepa	arate sheet)	
10					5 - Wetland No	on-Vascular Plant	s <sup>1</sup>	
11					Problematic H	ydrophytic Vegeta	ation (Explain) <sup>1</sup>	
Woody Vine Stra	atum (Plot size: r=2m)	60%	= Total Cover		<sup>1</sup> Indicators of hydric be present.	soil and wetland	hydrology mus	st
1. <u>none</u> 2.					Hydrophytic			
		0%	= Total Cover		Vegetation	Yes	No	x
% Bare Ground	in Herb Stratum 40°		TOTAL GOVE		Present?			<u> </u>
Remarks:					•			
moss cover is 40°	%							



SOIL							Sampling Point:	WFW-08-SP2
Profile Description	on (Describe to the c	lepth needed	d to document the	indicator or co	nfirm the abser	nce of indicators):	· ·	
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-2	10YR 2/2	100					SaL	
2-19	2.5Y 4/2	100					GrSa	
<sup>1</sup> Type: C=Concen	tration, D=Depletion,	RM=Reduced	d Matrix, CS=Cove	red or Coated Sa	ınd Grains. <sup>2</sup> l	Location: PL=Pore Linir	ng, M=Matrix.	
<sup>3</sup> Texture: Sa = sar	nd; Si = silt; C = clay; L	. = loam or lo	amy. Texture Mod	ifier: co = coarse	f = fine; vf = ve	ry fine; + = heavy (more	clay); - = light (less clay)	
Hydric Soil Indica	ators (Applicable to a	all LRRs, unl	ess otherwise no	ted):		Indicators for Pro	blematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		_	Sandy Redox (	(S5)		2 cm Muck (A	10)	
Histic Epipedo	on (A2)	_	Stripped Matrix	(S6)		Red Parent M	aterial (TF2)	
Black Histic (A	<del>\</del> 3)	=	Loamy Mucky	Mineral (F1) (exc	ept MLRA 1)	Very Shallow	Dark Surface (TF12)	
Hydrogen Sulf	fide (A4)	_	Loamy Gleyed	Matrix (F2)		Other (Explain	n in Remarks)	
Depleted Belo	w Dark Surface (A11)	_	Depleted Matri	x (F3)				
Thick Dark Su	` '	=	Redox Dark Su	urface (F6)		<sup>3</sup> Indicators of hydro	ophytic vegetation and wetla	nd
Sandy Mucky	` ,	-	Depleted Dark	, ,		hydrology must be	present, unless disturbed or	
Sandy Gleyed	l Matrix (S4)	-	Redox Depres	sions (F8)		problematic.		
Restrictive Layer	(if present):							
Туре	none none					Hydric Soil		
Depth (inches):	n/a					Present?	Yes	No X
HYDROLOGY	•							
Wetland Hydrolog	gy Indicators:							
	(minimum of one requ	uired; check a	all that apply)			Secondary Indicate	ors (2 or more required)	
Surface Water	r (A1)		Water-Stained	Leaves (B9) (ex	cept MLRA	Water-Stained	Leaves (B9) (MLRA 1, 2,	
High Water Ta	. ,	=	1, 2, 4A, and	, , ,		4A, and 4B	, , ,	
Saturation (A3	, ,		Salt Crust (B1	•		Drainage Patt	,	
Water Marks (		-	Aquatic Inverte				Vater Table (C2)	
Sediment Dep	oosits (B2)	_	 Hydrogen Sulfi	de Odor (C1)		Saturation Vis	ible on Aerial Imagery (C9)	
Drift Deposits	(B3)		Oxidized Rhizo	spheres along L	iving Roots (C3)	Geomorphic F	Position (D2)	
Algal Mat or C	Crust (B4)	_	Presence of Re	educed Iron (C4)		Shallow Aquit	ard (D3)	
Iron Deposits	(B5)	_	Recent Iron Re	eduction in Tilled	Soils (C6)	FAC-Neutral 1	Test (D5)	
Surface Soil C	Cracks (B6)	_	Stunted or Stre	essed Plants (D1	(LRR A)	Raised Ant M	ounds (D6) (LRR A)	
Inundation Vis	sible on Aerial Imagery	(B7) _	Other (Explain	in Remarks)		Frost-Heave H	Hummocks (D7)	
Sparsely Vege	etated Concave Surface	ce (B8)						
Field Observation	ns:							
Surface Water Pre	esent? Yes_		NoX	Depth (inche	s):	Wetland		
Water Table Pres	ent? Yes		No X	Depth (inche	s):	Hydrology	Yes	No X
Saturation Presen (includes capillary	<del>-</del>		No X	Depth (inche	s):	Present?		
Describe Record	led Data (stream gau	ge, monitori	ng well, aerial ph	otos, previous i	nspections), if	available:		
Remarks:								
Nemarks.								

Project/Site:	OMFS and TDLE		City/County:	Federal Way,	King County	Sampling Date:	11/6/2019
Applicant/Owner				· ousial may,	State: WA	· · ·	Point: WFW-08-SP3
Investigator(s):	S. Krueger, A. Thom				Section, Township, Range:		
Landform (hillslop		Stream be	nch	_	elief (concave, convex, none):	none	Slope (%): <3%
	): Northwest Forests and Coast (Li		Lat: 47.308250		ng: -122.302752	Datum:	
• (	,	"	to 6 percent slopes -			classification:	none
,	drologic conditions on the site typical				es No X		Remarks)
Are Vegetation	, Soil	, or Hydrology	significantly dis	sturbed? A	re "Normal Circumstances" pre	esent?	Yes X No
Are Vegetation	, Soil X	, or Hydrology	naturally proble	ematic? (If	f needed, explain any answers	in Remarks.)	
SUMMARY (	OF FINDINGS - Attach site	map showir	ng sampling poi	nt locations	, transects, important t	eatures, etc.	
Hydrophytic Ve	getation Present?	res X	No				
Hydric Soil Pres	sent?	/es X	No	Is the Sampl	ed Area		
Wetland Hydrol	ogy Present?	/es X	No	within a Wet	land? Yes	No	
Precipitation:							
•	Seattle Tacoma International NOAA	weather station	ı, precipitation was ab	ove the normal	range for the three months pri	or to the site visit.	
Remarks:							
	P for WFW-08; located in NW section  modified, resulting in disturbed soil:			E. Fork Hylebos	s Creek Tributary 0016A and is	adjacent to a golf	course. The stream
	: Soil appears to be a fluvial entisol v			drophytic vegeta	ation, geomorphic position on	stream bench, signi	ificant organics in
	wetland hydrology indicators support	•		a. op.,, og	anon, gaamarpina paanian and		
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test worksh	eet:	
Tree Stratum	(Plot size: 1m^2)	% Cover	Species?	<u>Status</u>	Number of Dominant Spec	ies	
1. none					That Are OBL, FACW, or F	FAC:	1 (A)
2.					, , , , ,		`
3.					Total Number of Dominant	i i	
4.					Species Across All Strata:		1 (B)
-		0%	= Total Cover		Species / toross / till Strate.		(
Sapling/Shrub	Stratum (Plot size: 1m^2)				Percent of Dominant Spec	ies	
1. none					That Are OBL, FACW, or F		100% (A/B)
2.	_				Prevalence Index worksh		(100)
3.	_				Total % Cover of:	Multiply by:	
4.	_				OBL species	x 1 =	
5.	_				FACW species	x 2 =	
-	_	0%	= Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: 1m^2)		rotal Gover		FACU species	x 4 =	
Phalaris aru	,	95%	Yes	FACW	UPL species	x 5 =	
Typha latifol		5%	No	OBL	Column Totals:	(A)	(B)
3.	ia .			OBL	Prevalence Inde	<del></del> ` '	(-/
4.					Hydrophytic Vegetation		
5.					1 - Rapid Test for Hyd		n
6.					X 2 - Dominance Test is		
7.					3 - Prevalence Index		
8.					4 - Morphological Ada		supporting
9.						or on a separate she	· · · · ·
10.					5 - Wetland Non-Vase		,,,,
11.			-		Problematic Hydroph		nlain) <sup>1</sup>
· · · <del> </del>		100%	= Total Cover		<sup>1</sup> Indicators of hydric soil ar		,
Woody Vine Str	ratum (Plot size: 1m^2)	100%	= Total Cover		be present.	id welland nydrolog	jy must
1. none	(* 155 5.55				be present.		
2.					Hydrophytic		
		0%	= Total Cover		Vegetation Y	es X No	
% Bare Ground	in Herb Stratum 0%	_			Present?		
Remarks:							
Kemarks.							
1							



OIL				maliantau au aamtiu					
rofile Descriptio	n (Describe to the	depth neede	d to document the i	ndicator or confir	m the absenc	e of indicators):			
Depth	Matrix			Redox Fe	- 1			2	
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type'	Loc <sup>2</sup>	Textur	e <sup>3</sup>	Remarks
0-7	10YR 2/2	100					CL		greasy
vpe: C=Concent	ration. D=Depletion.	RM=Reduce	d Matrix, CS=Covere	d or Coated Sand	Grains. <sup>2</sup> Lo	cation: PL=Pore Linir	ıg. M=Matrix.		
	•					fine; + = heavy (more	•	nt (less clav)	
			less otherwise note			Indicators for Pro		•	
Histosol (A1)				•			-		
	~ (AQ)		Sandy Redox (S			2 cm Muck (A	•		
Histic Epipedor	•	•	Stripped Matrix (	•	MI DA 4\	Red Parent M	` '	(TE40)	
Black Histic (A:	•	-		ineral (F1) (except	IVILKA 1)	Very Shallow			
Hydrogen Sulfi	, ,		Loamy Gleyed M			X Other (Explain	ı ın Kemarks	)	
_	v Dark Surface (A11	) .	Depleted Matrix	` ,					
Thick Dark Sur	face (A12)		Redox Dark Surf	, ,		<sup>3</sup> Indicators of hydro	phytic veget	ation and we	tland
Sandy Mucky N	vlineral (S1)		Depleted Dark S	urface (F7)		hydrology must be			
Sandy Gleyed	Matrix (S4)	,	Redox Depression	ons (F8)		problematic.			
estrictive Layer	(if present):								
						Handala Call			
Type:	quarry spalls					Hydric Soil			
Depth (inches):  emarks:  nable to dig past 7  oil appears to be 8	·	aquic moistur			ı, geomorphic į	Present?	Yes	X nt organics in	No
Depth (inches):  emarks:  nable to dig past 7  oil appears to be 8	7"  " due to dense quar a fluvial entisol with a	aquic moistur	e regime. Strong hyd		ı, geomorphic į	Present?	_		
Depth (inches):  emarks:  nable to dig past 7  oil appears to be 8	7"  " due to dense quar a fluvial entisol with a	aquic moistur	e regime. Strong hyd		ı, geomorphic ı	Present?	_		
Depth (inches): emarks: nable to dig past 7 oil appears to be a	7" due to dense quar a fluvial entisol with a ndicators support de	aquic moistur	e regime. Strong hyd		ı, geomorphic į	Present?	_		
Depth (inches): emarks: nable to dig past 7 oil appears to be a etland hydrology i	7" due to dense quar a fluvial entisol with a ndicators support de	aquic moistur etermination a	e regime. Strong hyd is hydric soil.		ı, geomorphic p	Present?	nch, significa	nt organics in	
Depth (inches): emarks: nable to dig past 7 oil appears to be e etland hydrology i  YDROLOGY fetland Hydrolog rimary Indicators	7" due to dense quar a fluvial entisol with a ndicators support de	aquic moistur etermination a	e regime. Strong hyd is hydric soil.	rophytic vegetation		Present?  position on stream ber	nch, significa	nt organics in	n soils, and strong
Depth (inches): emarks: nable to dig past 7 pil appears to be a etland hydrology i  YDROLOGY etland Hydrolog imary Indicators (	7" due to dense quara a fluvial entisol with a ndicators support de	aquic moistur etermination a	e regime. Strong hyd is hydric soil. all that apply) Water-Stained L	rophytic vegetation - eaves (B9) (except		Present?  position on stream bei	ors (2 or more I Leaves (B9	nt organics in	n soils, and strong
Depth (inches):  emarks: lable to dig past 7 bil appears to be a etland hydrology i  YDROLOGY  etland Hydrolog imary Indicators 1  Surface Water (High Water Tal	7" due to dense quara a fluvial entisol with a ndicators support de	aquic moistur etermination a	e regime. Strong hyd is hydric soil.  all that apply)  Water-Stained L.  1, 2, 4A, and 4	rophytic vegetation - eaves (B9) (except		Present?  position on stream beautiful properties of the street of the s	ors (2 or more I Leaves (B9	nt organics in	n soils, and strong
Depth (inches):  pmarks: able to dig past 7 pil appears to be a ptland hydrology i  YDROLOGY  etland Hydrolog  imary Indicators 1  Surface Water  High Water Tal  Saturation (A3)	7" due to dense quara a fluvial entisol with a ndicators support de	aquic moistur etermination a	e regime. Strong hyd is hydric soil.  all that apply)  Water-Stained L  1, 2, 4A, and 4  Salt Crust (B11)	rophytic vegetation  - eaves (B9) (except		Present?  position on stream belong to the provided stream of the pr	ors (2 or more I Leaves (B9 ) erns (B10)	nt organics ir e required)	n soils, and strong
Depth (inches):  marks:  nable to dig past 7  pil appears to be a  etland hydrology i  YDROLOGY  etland Hydrolog  imary Indicators  Surface Water  High Water Tal  Saturation (A3)  Water Marks (E	7" due to dense quar a fluvial entisol with a ndicators support de  y Indicators: (minimum of one req (A1) ble (A2) 31)	aquic moistur etermination a	all that apply)  Water-Stained L  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb	rophytic vegetation - eaves (B9) (except 4B) rates (B13)		Present?  Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V	ors (2 or more d Leaves (B9 ) erns (B10) /ater Table (	nt organics in erequired)  (MLRA 1, 2	n soils, and strong
Depth (inches):  marks:  able to dig past 7  bil appears to be a  etland hydrology i  YDROLOGY  etland Hydrolog  imary Indicators i  Surface Water  ( High Water Tal  ( Saturation (A3)  ( Water Marks (E  Sediment Depo	7" due to dense quara a fluvial entisol with a ndicators support de y Indicators: (minimum of one req. (A1) ble (A2) ) (B31) osits (B2)	aquic moistur etermination a	all that apply)  Water-Stained L  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide	rophytic vegetation eaves (B9) (except B) rates (B13) e Odor (C1)	MLRA	Present?  Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season W Saturation Vis	ors (2 or more I Leaves (B9 ) erns (B10) /ater Table (iible on Aeria	nt organics in erequired)  (MLRA 1, 2	n soils, and strong
Depth (inches):  marks: hable to dig past 7 pil appears to be a etland hydrology in the second of th	7" due to dense quar a fluvial entisol with a ndicators support de  y Indicators: (minimum of one req (A1) ble (A2) ) 331) besits (B2) B3)	aquic moistur etermination a	e regime. Strong hyd is hydric soil.  all that apply)  Water-Stained L  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  e Odor (C1)  pheres along Living	MLRA	Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F	ors (2 or more I Leaves (B9 ) erns (B10) Vater Table (Valle on Aeria Position (D2)	nt organics in erequired)  (MLRA 1, 2	n soils, and strong
Depth (inches):  emarks: nable to dig past 7 bil appears to be a etland hydrology i  YDROLOGY  etland Hydrolog fimary Indicators 1  Surface Water  High Water Tai  Saturation (A3)  Water Marks (E  Sediment Depo Drift Deposits (  Algal Mat or Cr	7" due to dense quar a fluvial entisol with a ndicators support de  y Indicators: (minimum of one req (A1) ble (A2) ble (A2) cosits (B2) B3) rust (B4)	aquic moistur etermination a	all that apply)  Water-Stained L  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  Odor (C1)  pheres along Living  luced Iron (C4)	MLRA g Roots (C3)	Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit	ors (2 or more I Leaves (B9 ) vater Table (4 ible on Aeria Position (D2) ard (D3)	nt organics in erequired)  (MLRA 1, 2	n soils, and strong
Depth (inches):  emarks: nable to dig past 7 pil appears to be a etland hydrology i  YDROLOGY  etland Hydrolog rimary Indicators a Surface Water  4 High Water Tal  5 Saturation (A3)  Water Marks (B Sediment Depo Drift Deposits ( Algal Mat or Cr Iron Deposits (	y Indicators: (minimum of one red (A1) ble (A2) ) 31) osits (B2) B3) rust (B4)	aquic moistur etermination a	e regime. Strong hyd is hydric soil.  all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfidd  Oxidized Rhizos  Presence of Rec	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil	MLRA g Roots (C3) s (C6)	Present?  Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season W Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral	ors (2 or more I Leaves (B9 ) erns (B10) //ater Table (Gible on Aeria Position (D2) ard (D3) Fest (D5)	e required) ) (MLRA 1, 2	n soils, and strong
Depth (inches):  emarks: nable to dig past 7 poil appears to be a etland hydrology i  YDROLOGY  fetland Hydrolog  fimary Indicators I  Surface Water  High Water Tai  Saturation (A3)  Water Marks (E  Sediment Depo Drift Deposits (  Algal Mat or Cr Iron Deposits (  Surface Soil Cr	7" due to dense quar a fluvial entisol with a ndicators support de  y Indicators: (minimum of one req (A1) ble (A2) ) 31) posits (B2) B3) rust (B4) B5) racks (B6)	aquic moistur termination a uired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF	MLRA g Roots (C3) s (C6)	Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral T Raised Ant Me	ors (2 or more d Leaves (B9 ) erns (B10) Vater Table (Gible on Aeria Position (D2) ard (D3) Fest (D5) counds (D6) (L	e required) ) (MLRA 1, 2 C2) I Imagery (C	n soils, and strong
Perpeth (inches):  Permarks:  able to dig past 7  pil appears to be a  petland hydrology in a petland hydrology  etland Hydrolog  imary Indicators I  Surface Water  High Water Tai  Saturation (A3)  Water Marks (B  Sediment Depo  Drift Deposits (  Algal Mat or Cr  Iron Deposits (  Surface Soil Cr	y Indicators: (minimum of one red (A1) ble (A2) ) 31) osits (B2) B3) rust (B4)	aquic moistur termination a uired: check	e regime. Strong hyd is hydric soil.  all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfidd  Oxidized Rhizos  Presence of Rec	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF	MLRA g Roots (C3) s (C6)	Present?  Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season W Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral	ors (2 or more d Leaves (B9 ) erns (B10) Vater Table (Gible on Aeria Position (D2) ard (D3) Fest (D5) counds (D6) (L	e required) ) (MLRA 1, 2 C2) I Imagery (C	n soils, and strong
Pemarks: able to dig past 7 able	7" due to dense quar a fluvial entisol with a ndicators support de  y Indicators: (minimum of one req (A1) ble (A2) ) 31) posits (B2) B3) rust (B4) B5) racks (B6)	aquic moistur stermination a uuired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF	MLRA g Roots (C3) s (C6)	Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral T Raised Ant Me	ors (2 or more d Leaves (B9 ) erns (B10) Vater Table (Gible on Aeria Position (D2) ard (D3) Fest (D5) counds (D6) (L	e required) ) (MLRA 1, 2 C2) I Imagery (C	n soils, and strong
Depth (inches):  emarks: nable to dig past 7 pil appears to be a etland hydrology i  YDROLOGY  etland Hydrolog  imary Indicators (	7" due to dense quara a fluvial entisol with a ndicators support de y Indicators: (minimum of one req (A1) ble (A2) ) (B31) cosits (B2) (B3) rust (B4) (B5) racks (B6) ble on Aerial Imager tated Concave Surfa	aquic moistur stermination a uuired: check	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF	MLRA g Roots (C3) s (C6)	Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral T Raised Ant Me	ors (2 or more d Leaves (B9 ) erns (B10) Vater Table (Gible on Aeria Position (D2) ard (D3) Fest (D5) counds (D6) (L	e required) ) (MLRA 1, 2 C2) I Imagery (C	n soils, and strong
Depth (inches):  emarks: nable to dig past 7 poil appears to be a etland hydrology i  EVDROLOGY  Tetland Hydrology  imary Indicators  Surface Water  High Water Tal  Saturation (A3)  Water Marks (B  Sediment Depo Drift Deposits (  Algal Mat or Cr Iron Deposits (  Surface Soil Cr  Inundation Visi	7" due to dense quar a fluvial entisol with a ndicators support de  y Indicators: (minimum of one req (A1) ble (A2) ) a31) bisits (B2) B3) rust (B4) B5) racks (B6) ble on Aerial Imager tated Concave Surfa	y (B7) ace (B8)	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF	MLRA g Roots (C3) s (C6)	Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral T Raised Ant Me	ors (2 or more d Leaves (B9 ) erns (B10) Vater Table (Gible on Aeria Position (D2) ard (D3) Fest (D5) counds (D6) (L	e required) ) (MLRA 1, 2 C2) I Imagery (C	n soils, and strong
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Depth (inches):  emarks: nable to dig past 7 bil appears to be a etland hydrology i  IYDROLOGY  fetland Hydrolog fimary Indicators ( Surface Water Tal X Saturation (A3) X Water Marks (E Sediment Depo Drift Deposits ( Algal Mat or Cr Iron Deposits ( Surface Soil Cr Inundation Visi Sparsely Vege eteld Observation surface Water Pre	7" due to dense quar a fluvial entisol with a ndicators support de  y Indicators: (minimum of one red (A1) ble (A2) ) 31) osits (B2) B3) rust (B4) B5) racks (B6) ble on Aerial Imager tated Concave Surfa s: sent? Yes ent? Yes	y (B7) ace (B8)	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfidd  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	rophytic vegetation  eaves (B9) (except  B)  rates (B13)  e Odor (C1)  pheres along Living luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF  Remarks)  Depth (inches):	MLRA  Roots (C3)  s (C6)  RR A)	Present?  Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral T Raised Ant Me Frost-Heave H	ors (2 or more If Leaves (B9 ) erns (B10) Vater Table (I ible on Aeria Position (D2) ard (D3) Fest (D5) ounds (D6) (I dummocks (E	nt organics in erequired) ) (MLRA 1, 2 C2) I Imagery (Caller A)	n soils, and strong
Depth (inches):  emarks: nable to dig past 7 bil appears to be a etland hydrology i  EVDROLOGY  fetland Hydrology  firmary Indicators a Surface Water  K High Water Tal  K Saturation (A3)  K Water Marks (B Sediment Depo Drift Deposits ( Algal Mat or Cr Iron Deposits ( Surface Soil Cr Inundation Visi Sparsely Vege  leid Observation  surface Water Preservater Table Preservater  Vater Table Preservation	7" due to dense quara a fluvial entisol with a ndicators support de y Indicators:  (minimum of one required (A1) ble (A2) ble (A2) bisits (B2) B3) rust (B4) B5) racks (B6) ble on Aerial Imager tated Concave Surfaces: sent? Yes ent? Yes ? Yes	y (B7) ace (B8)	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	rophytic vegetation  eaves (B9) (except  4B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF  Remarks)  Depth (inches):  Depth (inches):	MLRA  Roots (C3) s (C6) RR A)	Present?  Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral T Raised Ant M Frost-Heave F	ors (2 or more If Leaves (B9 ) erns (B10) Vater Table (I ible on Aeria Position (D2) ard (D3) Fest (D5) ounds (D6) (I dummocks (E	nt organics in erequired) ) (MLRA 1, 2 C2) I Imagery (Caller A)	n soils, and strong
Depth (inches):  emarks: nable to dig past 7 poil appears to be a etland hydrology i  EVDROLOGY  Vetland Hydrology  imary Indicators 1 Surface Water  K High Water Tai K Saturation (A3) K Water Marks (I Sediment Depo Drift Deposits ( Algal Mat or Cr Iron Deposits ( Surface Soil Cr Inundation Visi Sparsely Vege  idld Observation  iurface Water Present includes capillary	7" due to dense quara a fluvial entisol with a ndicators support de y Indicators:  (minimum of one req (A1) ble (A2) ble (A2) besits (B2) B3) rust (B4) B5) racks (B6) ble on Aerial Imager tated Concave Surfass:  sent? Yes ent? Yes fringe)	y (B7) ace (B8)	e regime. Strong hyd is hydric soil.  all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfidd  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	rophytic vegetation  eaves (B9) (except  4B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF  Remarks)  Depth (inches):  Depth (inches):  Depth (inches):	MLRA  g Roots (C3)  s (C6)  RR A)	Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral T Raised Ant Me Frost-Heave H  Wetland Hydrology Present?	ors (2 or more If Leaves (B9 ) erns (B10) Vater Table (I ible on Aeria Position (D2) ard (D3) Fest (D5) ounds (D6) (I dummocks (E	nt organics in erequired) ) (MLRA 1, 2 C2) I Imagery (Caller A)	n soils, and strong
Depth (inches):  marks: nable to dig past 7 pil appears to be a etland hydrology i  tyDROLOGY  etland Hydrology imary Indicators 1 Surface Water C High Water Tai C Saturation (A3) C Water Marks (I Sediment Depo Drift Deposits ( Algal Mat or Cr Iron Deposits ( Surface Soil Cr Inundation Visi Sparsely Vege eld Observation urface Water Pre Vater Table Present includes capillary	7" due to dense quara a fluvial entisol with a ndicators support de y Indicators:  (minimum of one req (A1) ble (A2) ble (A2) besits (B2) B3) rust (B4) B5) racks (B6) ble on Aerial Imager tated Concave Surfass:  sent? Yes ent? Yes fringe)	y (B7) ace (B8)	all that apply)  Water-Stained L.  1, 2, 4A, and 4  Salt Crust (B11)  Aquatic Inverteb  Hydrogen Sulfide  Oxidized Rhizos  Presence of Rec  Recent Iron Red  Stunted or Stres  Other (Explain in	rophytic vegetation  eaves (B9) (except  4B)  rates (B13)  e Odor (C1)  pheres along Living  luced Iron (C4)  uction in Tilled Soil  sed Plants (D1) (LF  Remarks)  Depth (inches):  Depth (inches):  Depth (inches):	MLRA  g Roots (C3)  s (C6)  RR A)	Secondary Indicate Water-Stainee 4A, and 4B Drainage Patt Dry-Season V Saturation Vis X Geomorphic F Shallow Aquit X FAC-Neutral T Raised Ant Me Frost-Heave H  Wetland Hydrology Present?	ors (2 or more If Leaves (B9 ) erns (B10) Vater Table (I ible on Aeria Position (D2) ard (D3) Fest (D5) ounds (D6) (I dummocks (E	nt organics in erequired) ) (MLRA 1, 2 C2) I Imagery (Caller A)	n soils, and strong



Project/Site: OMFS and TDLE		City/County:	Federal Way,	King County Sampling Date:	11/6/2019
Applicant/Owner: Sound Transit				<del></del>	oint: WFW-09-SP1
Investigator(s): S. Krueger, A. Thom			s	ection, Township, Range: T21N R04l	E S16
Landform (hillslope, terrace, etc.):	stream bend	h	Local re	elief(concave, convex, none): none S	Slope (%): None
Subregion (LRR): Northwest Forests and Coast	st (LRR A)) L	_at: 47.307276	Loi	ng:122.302679	
Soil Unit (Name-ID-Hydric Rating): Arents,	Alderwood material, 0 to	3 percent slopes -	AmB	- Not Hydric NWI classification:	none
Are climatic / hydrologic conditions on the site ty	pical for this time of y	ear?	Y	esNoX(If no, explain in F	Remarks)
Are Vegetation, Soil				re "Normal Circumstances" present?	es <u>X</u> No
Are Vegetation , Soil , Soil	<u></u>			needed, explain any answers in Remarks.)	
Hydrophytic Vegetation Present?		<b>g sampling po</b> No	int location	s, transects, important features, etc.	
Hydric Soil Present?		No	Is the Samp	ed Area	
Wetland Hydrology Present?		No	within a Wet	1 10	
	163 <u>X</u>			land? Yes X No	
Precipitation: According to the Seattle Tacoma International N	OAA weather station,	precipitation was	above the norm	al range for the three months prior to the site visit.	
Remarks:					
PSS wetland SP for WFW-09. Approx. 3m east	of E. Fork Hylebos Cr	eek Tributary 0016	A near OHWM	flag WH-LB34	
	•				
VEGETATION					
72027711011	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: r=3m)	% Cover	Species?	Status	Number of Dominant Species	
1. none	<u>,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	<u> </u>	<u> </u>	That Are OBL, FACW, or FAC:	3 (A)
2.	<del></del>			That Are OBE, I AOW, OF AC.	<u> </u>
3.	<u> </u>			Total Number of Dominant	
4.	<u> </u>			Species Across All Strata:	3 (B)
	0% =	Total Cover			<u> </u>
Sapling/Shrub Stratum (Plot size: r=2m)		rotal Gover		Percent of Dominant Species	
1. Rubus spectabilis	50%	Yes	FAC	·	00% (A/B)
2. Spiraea douglasii	30%	Yes	FACW	Prevalence Index worksheet:	(, , , , )
3. Fraxinus latifolia	10%	No	FACW	Total % Cover of: Multiply by:	
4. Rubus armeniacus	5%	No	FAC	OBL species x 1 =	
5. Rubus ursinus	5%	No	FACU	FACW species x 2 =	
	100% =	Total Cover		FAC species x 3 =	
Herb Stratum (Plot size: r=1m)				FACU species x 4 =	
1. Carex obnupta	60%	Yes	OBL	UPL species x 5 =	
2. Phalaris arundinacea	10%	No	FACW	Column Totals: (A)	(B)
3. Ranunculus repens	2%	No	FAC	Prevalence Index = B/A =	
4				Hydrophytic Vegetation Indicators:	
5	<u> </u>			1 - Rapid Test for Hydrophytic Vegetation	
6				X 2 - Dominance Test is >50%	
7				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
8				4 - Morphological Adaptations <sup>1</sup> (Provide su	upporting
9				data in Remarks or on a separate shee	et)
10				5 - Wetland Non-Vascular Plants <sup>1</sup>	
11				Problematic Hydrophytic Vegetation (Expl	ain) <sup>1</sup>
	72% =	Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology	must
Woody Vine Stratum (Plot size: r=2m)				be present.	
1. <u>none</u> 2.	<del>_</del>			Hydrophytic	
	0% =	Total Cover		Vegetation Yes X No	
% Bare Ground in Herb Stratum 28%				Present?	
Pomorko:					
Remarks:					



SOIL							Sampling Point:	WFW-09-SP1
Profile Description	n (Describe to the c	epth need	ed to document the	indicator or c	onfirm the abse	ence of indicators):		
Depth	Matrix			Redox	k Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-5	10YR 2/2	100					CL	
5-10	10YR 4/1	95	10YR 5/8	5	C		CL -	
10-16	5Y 5/2	70	7.5YR 4/4	30		PL PL	CL	
·								
<del></del>							<del></del>	
	_						-	
Type: C=Concentra	ation D=Depletion	RM=Reduc	ed Matrix, CS=Cover	ed or Coated S	Sand Grains 2	Location: PL=Pore Lini	ng M=Matrix	
	•						re clay); - = light (less clay)	
	-		nless otherwise not		0,1 1110,11	•	blematic Hydric Soils <sup>3</sup> :	
-	(			•			-	
Histosol (A1)	(4.0)		Sandy Redox (S			2 cm Muck (A1	•	
Histic Epipedon	• •		Stripped Matrix (			Red Parent Ma		
Black Histic (A3)			Loamy Mucky M		cept MLRA 1)	<del></del> ·	Dark Surface (TF12)	
Hydrogen Sulfid	` ,		Loamy Gleyed M	` ,		Other (Explain	in Remarks)	
	Dark Surface (A11)		X Depleted Matrix	(F3)				
Thick Dark Surfa	` ,		Redox Dark Surf			<sup>3</sup> Indicators of hydro	phytic vegetation and wetl	and
Sandy Mucky M	lineral (S1)		Depleted Dark S	urface (F7)			present, unless disturbed o	
Sandy Gleyed M	//atrix (S4)		Redox Depression	ons (F8)		problematic.		
Restrictive Layer (i	f present):							
Type: r	none					Hydric Soil		
Depth (inches):	n/a		_			Present?	Yes X	No
HYDROLOGY Wetland Hydrology	Indicators:							
Primary Indicators (n		iirad: abaak	all that apply)			Socondary Indicate	rs (2 or more required)	
-	·	illeu, checr		- (= a) (		•		
Surface Water (	•		Water-Stained L	, , ,	cept MLRA		Leaves (B9) (MLRA 1, 2,	
X High Water Tab	le (A2)		1, 2, 4A, and 4	•		4A, and 4B)		
X Saturation (A3)	4)		Salt Crust (B11)			Drainage Patte		
Water Marks (B	1)		Aquatic Inverteb	rates (B13)		Dry-Season W	ater Table (C2)	
Sediment Depos	sits (B2)		Hydrogen Sulfide	e Odor (C1)			ble on Aerial Imagery (C9)	
Drift Deposits (B	33)		X Oxidized Rhizos	pheres along L	iving Roots (C3)	X Geomorphic P	osition (D2)	
Algal Mat or Cru	ust (B4)		Presence of Red	luced Iron (C4)	)	Shallow Aquita	ard (D3)	
Iron Deposits (B	35)		Recent Iron Red	uction in Tilled	Soils (C6)	X FAC-Neutral T	est (D5)	
Surface Soil Cra	acks (B6)		Stunted or Stres	sed Plants (D1	) (LRR A)	Raised Ant Mo	ounds (D6) (LRR A)	
Inundation Visib	le on Aerial Imagery	(B7)	Other (Explain in	Remarks)		Frost-Heave H	lummocks (D7)	
Sparsely Vegeta	ated Concave Surfac	ce (B8)						
Field Observations	::							
Surface Water Pres	ent? Yes		No X	Depth (inche	s):	Wetland		
Water Table Presen		X	No X	Depth (inche		Hydrology	Yes X	No
Saturation Present?		X	No	Depth (inche	· —	Present?		
(includes capillary fr	<del></del>			Deptil (mone	3)	i resent:		
Describe Recorded	d Data (stream gau	ge, monito	ring well, aerial pho	tos, previous	inspections), if	f available:		
Remarks:								
Nemarks: Oxidized rhisophere:	s observed at depth	s between	10 and 16 inches.					



Project/Site: OMFS and TDLE		City/County:	Federal Way, k	King County	Sampling Da	ate: 1	1/6/2019
Applicant/Owner: Sound Transit				State: V	 NASampl	ing Point:	WFW-09-SP2
Investigator(s): S. Krueger, A. Thon	n		Se	ction, Township, Range	e: T21N	R04E S16	1
Landform (hillslope, terrace, etc.):	stream be	nch	Local reli	ef(concave, convex, none	): none	Slope (	(%): <3%
Subregion (LRR): Northwest Forests a	and Coast (LRR A))	Lat: 47.307265	Long	g: <u>-122.302611</u>	Date	um: <u>N</u>	AD 1983
Soil Unit (Name-ID-Hydric Rating):	Arents, Alderwood material, 0	to 6 percent slopes -	AmB -	Not Hydric	NWI classification:	n	one
Are climatic / hydrologic conditions on the	= :	-	Yes	sNo	X (If no, expla	in in Remar	ks)
	, or Hydrology			"Normal Circumstance	•	Yes _	X No
<u> </u>	, or Hydrology			needed, explain any an	*	4 -	
SUMMARY OF FINDINGS – A			int locations	, transects, impo	rtant features, e	tc.	
Hydrophytic Vegetation Present?	Yes X	No	Is the Sample	d Area			
Hydric Soil Present?	Yes	No X	within a Wetla	- m d O	Ma	v	
Wetland Hydrology Present?	Yes	No <u>X</u>		Yes	No_	<u> </u>	
Precipitation: According to the Seattle Tacoma Internation	ational NOAA weather statio	on, precipitation was a	above the normal	range for the three mo	onths prior to the site	visit.	
Pomorko							
Remarks: Upland SP for WFW-09. located approx	. 5m east of E. Fork Hylebo	s Creek Tributary 001	16A and approx.	3m east of WFW-09-SF	⊇1		
	•	•					
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test wo	orksheet:		
Tree Stratum (Plot size: I		Species?	Status	Number of Dominant			
1. Populus balsamifera	20%	Yes	FAC	That Are OBL, FACV	•	4	(A)
2. Fraxinus latifolia	10%	Yes	FACW	That Ale OBE, 1710V		-	(' ')
3.				Total Number of Dor	minant		
4.	<del></del>			Species Across All S		4	(B)
	30%	= Total Cover		openies / in e	_		(-/
Sapling/Shrub Stratum (Plot size: 1				Percent of Dominant	Species		
1 Rubus spectabilis	70%	Yes	FAC	That Are OBL, FACV	V. or FAC:	<u>100%</u>	(A/B)
2. Rubus ursinus	2%	No	FACU	Prevalence Index w			
3.				Total % Cover of	of: Multiply by:		_
4.				OBL species	x 1 =		
5.				FACW species	x 2 =	<u> </u>	
	72%	= Total Cover		FAC species	x 3 =		
Herb Stratum (Plot size: I	<u>=1m)</u>			FACU species	x 4 =		
1. Carex obnupta	80%	Yes	OBL	UPL species	x 5 =		
2				Column Totals:	(A)		(B)
3				Prevalence	e Index = B/A =		
4				Hydrophytic Vegeta	ation Indicators:		
5				<u> </u>	or Hydrophytic Vege	tation	
6				X 2 - Dominance			
7				3 - Prevalence I			
8.				<u> </u>	al Adaptations¹ (Prov	• • • • • • • • • • • • • • • • • • • •	ting
9.					arks or on a separate	e sheet)	
10.					n-Vascular Plants <sup>1</sup>	/=1	
<sup>11.</sup>		T:1:10:		<del></del>	drophytic Vegetation		
Woody Vine Stratum (Plot size: I		= Total Cover		Indicators of hydric be present.	soil and wetland hyd	rology must	
1. none	<del></del>			DC present.			
2.				Hydrophytic			
		= Total Cover		Vegetation	Yes X	lo	
% Bare Ground in Herb Stratum _	20%			Present?			
Remarks:							



SOIL							Sampling Point:	WFW-09-SP2
	otion (Describe to the	depth needed	I to document th	e indicator or c	onfirm the abse	ence of indicators):		
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-9	10YR 3/2	100					CL	
9-18	10YR 3/2	90	10YR 5/6	5	C	M	CL	
			10YR 4/6	C	C	M	CL	
							<del></del>	
<del></del>								
1- 0.0								
	entration, D=Depletion,					_ocation: PL=Pore Lin	ıng, M=Matrıx. re clay); - = light (less clay)	
	icators (Applicable to				6, 1 – III.6, VI – VC		blematic Hydric Soils <sup>3</sup> :	
•	,			•			-	
Histosol (A1	•	_	Sandy Redox (	·		2 cm Muck (A	·	
Histic Epipe		_	Stripped Matrix	` '		Red Parent M		
Black Histic	` '	_	_	Mineral (F1) (exc	ept wicka 1)		Dark Surface (TF12)	
Hydrogen S	oulfide (A4) elow Dark Surface (A11	_	Loamy Gleyed Depleted Matrix	, ,		Other (Explain	ı ın remarks)	
	*	_						
	Surface (A12)	_	Redox Dark Su			<sup>3</sup> Indicators of hydro	ophytic vegetation and wetla	and
	ky Mineral (S1) ed Matrix (S4)	_	Depleted Dark Redox Depress			hydrology must be problematic.	present, unless disturbed of	r
		_	Redux Depless	Sions (Fo)		рговієтнаць.		
Restrictive Lay						Urdeia Cail		
	pe: <sub>none</sub>					Hydric Soil Present?	Vac	No. V
Depth (inches)	):n/a					Present?	Yes	No X
HYDROLOG	iΥ							
Wetland Hydro	logy Indicators:							
Primary Indicato	ors (minimum of one rec	uired: check a	ıll that apply)	_		Secondary Indicate	ors (2 or more required)	
Surface Wa	ter (A1)		Water-Stained	Leaves (B9) (exc	cept MLRA	Water-Stained	l Leaves (B9) (MLRA 1, 2,	
High Water	Table (A2)		1, 2, 4A, and	I 4B)		4A, and 4B	)	
Saturation (	A3)		Salt Crust (B11	)		Drainage Patt	erns (B10)	
Water Mark	s (B1)		Aquatic Inverte	brates (B13)		Dry-Season W	/ater Table (C2)	
Sediment D	eposits (B2)		Hydrogen Sulfi	de Odor (C1)		Saturation Vis	ible on Aerial Imagery (C9)	
Drift Deposi	its (B3)		Oxidized Rhizo	spheres along L	iving Roots (C3)	Geomorphic F	Position (D2)	
Algal Mat or	r Crust (B4)	_	Presence of Re	educed Iron (C4)		Shallow Aquit	ard (D3)	
Iron Deposi	ts (B5)	_	Recent Iron Re	duction in Tilled	Soils (C6)	X FAC-Neutral 1	est (D5)	
Surface Soi	l Cracks (B6)	_	Stunted or Stre	ssed Plants (D1	) (LRR A)	Raised Ant Mo	ounds (D6) (LRR A)	
Inundation \	√isible on Aerial Imager	ry (B7)	Other (Explain	in Remarks)		Frost-Heave H	łummocks (D7)	
Sparsely Ve	egetated Concave Surfa	ace (B8)						
Field Observati	ions:							
Surface Water I	Present? Yes_	N	lo <u>X</u>	Depth (inches	s):	Wetland		
Water Table Pro	esent? Yes	N	lo X	Depth (inches	s):	Hydrology	Yes	No X
Saturation Pres (includes capilla	_	N	loX	Depth (inches	s):	Present?		
· ·	- *							
Describe Reco	orded Data (stream ga	uge, monitori	ng well, aerial ph	otos, previous	inspections), if	available:		
Remarks:								



Project/Site: OMFS and	TDLE		City/County:	Federal Way, h	King County	Sampling Da	te:	11/20/2019
Applicant/Owner: Sound	Transit		_		State: WA	۹ Sampli	ng Point:	WFW-10-SP03
Investigator(s): Steve K	rueger, Aaron Thom			S	ection, Township, Range:	 T21	N R04E S1	6
Landform (hillslope, terrace, etc	p.):	stream bench		Local re	lief (concave, convex, none):	none	Slope (	%): <3%
Subregion (LRR): Northwe	est Forests and Coast (LR	R A)) La	t: 47.304418	Long	g: -122.303953	Datu	m:	NAD 1983
Soil Unit (Name-ID-Hydric Ra	ating): Alderwood gr	avelly sandy loam, 0	to 8 % slopes -	AgB -	Not Hydric N	IWI classification:		none
Are climatic / hydrologic cond	• • • • • • • • • • • • • • • • • • • •	•		Ye	sNo	x (If no, explai	n in Remar	ks)
	, Soil, o				e "Normal Circumstances"	•	Yes _	<u>x</u> No
Are Vegetation	, Soil, o	r Hydrology	_naturally probler	matic? (If	needed, explain any answ	ers in Remarks.)		
SUMMARY OF FINDIN	NGS – Attach site n	nap showing :	sampling poin	t locations,	transects, importar	nt features, etc	<u> </u>	
Hydrophytic Vegetation Pres	sent? Ye	sN	0					
Hydric Soil Present?	Ye	sN	o	Is the Sample				
Wetland Hydrology Present	? Ye	sN	0	within a Wetla	and? Yes	X No_		
Precipitation: According to the Seattle Tac the normal range for visits wi Remarks: PFO wetland SP for WFW10	ithin December. The mont	h of November wa	s drier than norma	al, and Decembe	•	•	ts in Noven	nber and within
VEGETATION								
		Absolute	Dominant	Indicator	Dominance Test works	sheet:		
Tree Stratum	(Plot size: <u>r=3m)</u>	% Cover	Species?	<u>Status</u>	Number of Dominant Sp	pecies		
1. none					That Are OBL, FACW, o	or FAC:	1	(A)
2								
3.					Total Number of Domina	ant		
4.					Species Across All Strat	ta:	1	(B)
		0% = To	tal Cover					
Sapling/Shrub Stratum	(Plot size: <u>r=2m)</u>				Percent of Dominant Sp	ecies		
Rubus armeniacus		80%	Yes	FAC	That Are OBL, FACW, o	or FAC:	<u>100%</u>	(A/B)
2. Acer circinatum		5%	No	FAC	Prevalence Index work	ksheet:		
3. Rubus laciniatus		5%	No	FACU	Total % Cover of:	Multiply by:		
4. Ilex aquifolium		2%	No	FACU	OBL species	x 1 =		
5					FACW species	x 2 =		
		92% = To	tal Cover		FAC species	x 3 =		
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =		
Ranunculus repens		1%	No	FAC	UPL species	x 5 =		
2.					Column Totals:	(A)		(B)
3					Prevalence I	Index = B/A =		
4					Hydrophytic Vegetatio			
5						Hydrophytic Vegetat	ion	
6					X 2 - Dominance Tes			
7					3 - Prevalence Inde			
8						Adaptations <sup>1</sup> (Provid		ıg
9.						s or on a separate s	heet)	
10.					5 - Wetland Non-V		1	
11						phytic Vegetation (E	' '	
Woody Vine Stratum  1. none	(Plot size: <u>r=2m)</u>	1%= To	tal Cover		<sup>1</sup> Indicators of hydric soil be present.	and wetland hydrol	ogy must	
2.					Hydrophytic			
		0% = To	tal Cover		Vegetation	Yes X N	о	
% Bare Ground in Herb Str	atum 99%	_ <del></del>			Present?			
Remarks:								

Para	met	rix
ENGINEERING	. PLANNING	ENVIRONMENTAL SCIENCES
Project No.:	554-1800-	-019 and -030

SOIL							Sampling Poi	nt: WFW-10-SP03			
	on (Describe to	the depth ne	eded to document	the indicator or co	onfirm the absen	nce of indicators):					
Depth	M	atrix		Redox	x Features						
(inches)	Color (moist)	%	Color (mois		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-2	10YR 2/2	100		<u>,                                     </u>			L				
2-9	10YR 3/2	100					L	redox may be masked			
9-12	10YR 4/2	100	<u> </u>	<u> </u>			SaL	by organics			
12-16	2.5Y 4/2	90	7.5Y 5/8	10	C		SaL				
_					·						
<sup>1</sup> Type: C=Concent	ration, D=Deple	tion, RM=Re	duced Matrix, CS=Co	vered or Coated Sa	and Grains. <sup>2</sup> L	ocation: PL=Pore Li	ining, M=Matrix.				
<sup>3</sup> Texture: S = sand;	; Si = silt; C = cla	ay; L = loam	or loamy. Texture Mo	difier: co = coarse;			re clay); - = light (less clay)	)			
Hydric Soil Indica	tors (Applicabl	e to all LRRs	, unless otherwise	noted):		Indicators for P	roblematic Hydric Soils <sup>3</sup> :	:			
Histosol (A1)			Sandy Redo	x (S5)		2 cm Muck	•				
Histic Epipedo	n (A2)		Stripped Ma	` '			Material (TF2)				
Black Histic (A	` '			xy Mineral (F1) (exc	rent MI RA 1)		w Dark Surface (TF12)				
x Hydrogen Sulfi	•			ed Matrix (F2)	opt WERA 1)		ain in Remarks)				
x Depleted Below	` '	′Δ11)	Depleted Ma	. ,		Other (Expl	am in Remarks)				
Thick Dark Sur		(7.11)		Surface (F6)							
Sandy Mucky I	, ,			irk Surface (F7)			drophytic vegetation and w				
Sandy Gleyed	, ,		Redox Depr	, ,		hydrology must b problematic.	e present, unless disturbe	d or			
			(Койох Верг			problematic.					
Restrictive Layer											
Туре	: none		_			Hydric Soil					
Depth (inches):	n/a					Present?	Yes X	No			
Remarks:	luia with a muchle	matia lavor f	12 (lete of avgenie	nooking)	· ·						
Assumed to be nyo	iric, with a proble	ematic layer :	9-12 (lots of organic r	nasking)							
HYDROLOGY											
Wetland Hydrolog	v Indicators:										
Primary Indicators	•	roquirod: ob	ook all that apply)			Cocondon/Indio	ators (2 or more required)				
1	,	e required, cr			+ NAL DA	•	• •	0			
Surface Water	,			ed Leaves (B9) (ex	cept MLRA		ed Leaves (B9) (MLRA 1,	2,			
x High Water Ta	` '		1, 2, 4A, a	*		4A, and 4B)					
x Saturation (A3	•		Salt Crust (E	•		Drainage Patterns (B10)					
Water Marks (I	·			rtebrates (B13)			Water Table (C2)	20)			
Sediment Dep	, ,			ulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (				izospheres along L	- , ,	x Geomorphic	` '				
Algal Mat or C				Reduced Iron (C4)		Shallow Aqu					
Iron Deposits (	•			Reduction in Tilled		FAC-Neutra					
Surface Soil C	, ,			tressed Plants (D1	) (LRR A)		Mounds (D6) (LRR A)				
	ible on Aerial Im	0 , ( ,	Other (Expla	in in Remarks)		Frost-Heave	e Hummocks (D7)				
Sparsely Vege	tated Concave S	Surface (B8)									
Field Observation	s:										
Surface Water Pre	esent?	res	No x	Depth (inche	s):	Wetland					
Water Table Prese	ent?	res <u>x</u>	No	Depth (inche	s): <u>5.5</u>	Hydrology	Yes X	No			
Saturation Present	t? `	res <u>x</u>	No	Depth (inche	s): surface	Present?					
(includes capillary	fringe)										
Dosoribo Passari	od Data (atras		nitoring well	nhotoe province:	inenactions) :f -	available:					
Describe Records	eu Data (Stream	ı yauge, mo	nitoring well, aerial	pilotos, previous i	mspections), if a	avallable:					
Remarks:											



Project/Site: OMFS and TDLE		City/County:	Federal Way	, King County	Sampling Dat	e: 1	2/3/2019
Applicant/Owner: Sound Transit				State: W	· · ·		WFW-10-SP04
Investigator(s): T. Parry, A. Thom				Section, Township, Range:	·	N R04E S16	
Landform (hillslope, terrace, etc.):	terrace	9	_	relief (concave, convex, none):	none	Slope (%	
Subregion (LRR): Northwest Forests and Coa		Lat: 47.304432	_	ong: -122.304019	Datur		AD 1983
• ,	ood gravelly sandy loa		- AgB		IWI classification:		one
Are climatic / hydrologic conditions on the site type				'es x No	(If no, explair		
Are Vegetation, Soil		•	turbed?	Are "Normal Circumstances"			No
Are Vegetation , Soil			matic? (	(If needed, explain any answ	vers in Remarks.)		
SUMMARY OF FINDINGS - Attach s	site map showi	ng sampling poi	nt location:	s, transects, importai	nt features, etc.	<b>-</b> 1	
Hydrophytic Vegetation Present?	Yes	No X		-,	,		
Hydric Soil Present?	Yes	No X	Is the Samp	oled Area			
Wetland Hydrology Present?	Yes	No X	within a We	tland? Yes	No	X	
	·	<u> </u>	1	<del></del>			
Precipitation: According to the Seattle Tacoma International No.	OAA weather statio	n, precipitation was ab	ove the norma	al range for the three months	prior to the site visit	s in Novem!	ber and within
the normal range for visits within December. The				•	•		
Remarks:							
Upland SP for WFW-10 Unit A. located west of E	East Fork Hylebos C	creek.					
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: r=3m)	% Cover	Species?	Status	Number of Dominant Sp	pecies		
1. Acer circinatum	40%	Yes	FAC	That Are OBL, FACW, o		3	(A)
2.				111017110 002, 171011, 0			(','
3.	<del>_</del>			Total Number of Domina	ant		
4.	<del>-</del>			Species Across All Stra		6	(B)
	40%	= Total Cover		Opecies Across Air Otra			(B)
Sapling/Shrub Stratum (Plot size: r=2m)	4070	- Total Cover		Percent of Dominant Sp	necies		
, ,	20%	Voc	FAC			<u>50%</u>	(A/B)
2 Acci di cinatam		Yes		That Are OBL, FACW, o		0070	(A/b)
n Thaians aranamacea	15%	Yes	FACW	Prevalence Index work  Total % Cover of:	Multiply by:		
Ilex aquifolium  4.	15%	Yes	FACU	OBL species	x 1 =		
5.	<del></del>	· —		FACW species	x		
o		T 1 10		FAC species			
Harle Street (Diet =:=== r=1m)	50%	= Total Cover		· · · · · · · · · · · · · · · · · · ·	x 3 =		
Herb Stratum (Plot size: r=1m)				FACU species	x 4 =		
Polystichum munitum	15%	Yes	FACU	UPL species	x 5 =		
2.		<u> </u>		Column Totals:	(A)		(B)
3.					Index = B/A =		
4.				Hydrophytic Vegetation			
5.				· ·	Hydrophytic Vegetati	on	
6				2 - Dominance Tes			
7				3 - Prevalence Inde	ex is ≤3.01		
8.				4 - Morphological A	Adaptations <sup>1</sup> (Provide	e supporting	I
9				data in Remarks	s or on a separate sl	neet)	
10	<u> </u>	<u> </u>		5 - Wetland Non-V	ascular Plants <sup>1</sup>		
11	<u> </u>	<u> </u>		Problematic Hydro	phytic Vegetation (E	xplain) <sup>1</sup>	
	15%	= Total Cover		<sup>1</sup> Indicators of hydric soil	and wetland hydrold	ogy must	
Woody Vine Stratum (Plot size: r=2m)				be present.			
1. <u>Hedera helix</u>	90%	<u>Yes</u>	<u>FACU</u>				
2				Hydrophytic	Von N		
% Bare Ground in Herb Stratum 85%	90%	= Total Cover		Vegetation Present?	YesN	• <u>х</u>	_
00%				FIESEILL			
Remarks:							
leaf litter covering ground							



SOIL		Sampling Point:	WFW-10-SP04
	eded to document the indicator or confirm the abser		*** ** 10 01 04
	Redox Features		
· -	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture	Remarks
(inches) Color (moist) % 0-7 10YR 3/3 100	Color (moist) 76 Type	L	Remarks
		<del></del>	miyad matriy
7-17 10YR 4/6 80		GrL	mixed matrix
10YR 4/3 20		<del></del>	
		<del></del>	_
		<del></del>	_
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Redu	uced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> l	Location: PL=Pore Lining, M=Matrix.	
<sup>3</sup> Texture: S = sand; Si = silt; C = clay; L = loam or	loamy. Texture Modifier: co = coarse; f = fine; vf = very	y fine; + = heavy (more clay); - = light (less clay)	
Hydric Soil Indicators (Applicable to all LRRs,	unless otherwise noted):	Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)	
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)	
		Other (Explain in Nemarks)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)		
Thick Dark Surface (A12)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and wetla	and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	hydrology must be present, unless disturbed o	r
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	problematic.	
Restrictive Layer (if present):			
Type: none		Hydric Soil	
Depth (inches): n/a		Present? Yes	No X
Remarks:			
Normal No.			
HYDROLOGY			
Wetland Hydrology Indicators:			
, ,,	ok all that apply)	Consider (Indicators / One many required)	
Primary Indicators (minimum of one required; che	,	Secondary Indicators (2 or more required)	
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,	
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)	
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)	
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Geomorphic Position (D2)	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)	
Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
	D # # 1 )		
Surface Water Present? Yes		Wetland	
· · · · · · · · · · · · · · · · · · ·	No x Depth (inches):	Hydrology Yes	No <u>X</u>
Saturation Present? Yes	No x Depth (inches):	Present?	
(includes capillary fringe)			
Describe Recorded Data (stream gauge moni	toring well, aerial photos, previous inspections), if	 available:	
gauge, mon	gsii, aariai piiataa, piatiaaa iiiapaataiis), ii		
Remarks:			
1			

Project/Site: 0	OMFS and TDLE		City/County:	Federal Way,	, King County	Samplin	g Date:	11/1/2019
Applicant/Owner:	Sound Transit				State:	WA Sa	mpling Point:	WFW-10-SP01
Investigator(s):	A. Hoenig, A. Thom				Section, Township, Ran	ige:	T21N R04E S1	16
Landform (hillslope	e, terrace, etc.):	Hillslop	е	Local r	relief (concave, convex, no	ne): concave	Slope (	(%): None
Subregion (LRR):	Northwest Forests and Coast	(LRR A))	Lat: 47.305663	Lo	ng: <u>-122.303589</u>	1	Datum:	NAD 1983
Soil Unit (Name-I	D-Hydric Rating): Alderwood gra	avelly sandy loam,	0 to 8 % slopes -	AgB	- Not Hydric	NWI classification	n:	none
•	rologic conditions on the site typi		•		'esNo_		xplain in Remar	*
Are Vegetation	, Soil	, or Hydrology	significantly dist		Are "Normal Circumstan	•	_	X_No
Are Vegetation	, Soil			,	If needed, explain any a		•	
	F FINDINGS – Attach si	-	ng sampling poir	nt locations	s, transects, impo	rtant features,	etc.	
Hydrophytic Veg		YesX	No	Is the Samp	alad Araa			
Hydric Soil Prese		Yes X	No	within a We	tland?			
Wetland Hydrolo	gy Present?	Yes <u>X</u>	No	within a vve	uanur Yes_	<u> </u>	No	
Precipitation:								
_	Seattle Tacoma International NO for visits within December. The r				•	•	e visits in Nover	mber and within
Remarks:	TOT VISITS WITHIN DESCRIBET. THE I	Honer of Novembe	r was and than norme	ai, and Decem	ber was wetter triair from	mai.		
	in WFW-10, Unit B. Located wes	t of E. Fork Hylebo	s Creek Trib 0016A (l	eft bank).				
VEGETATION	N							
		Absolute	Dominant	Indicator	Dominance Test w	orksheet:		
Tree Stratum	(Plot size: r=3m)	% Cover	Species?	Status	Number of Dominar			
1 Thuja plicata	,	70%	Yes	FAC	That Are OBL, FAC		7	(A)
2. Populus bals		20%	Yes	FAC		.,	· · · · · · · · · · · · · · · · · · ·	(· ·/
3. Alnus rubra	<u></u>	5%	No	FAC	Total Number of Do	minant		
4.					Species Across All		8	(B)
-		95%	= Total Cover					(-/
Sapling/Shrub S	tratum (Plot size: r=2m)				Percent of Dominan	nt Species		
Populus bals		10%	Yes	FAC	That Are OBL, FAC	•	<u>88%</u>	(A/B)
2 Rubus spect		10%	Yes	FAC	Prevalence Index v			()
3. Fraxinus latif		5%	Yes	FACW	Total % Cover		by:	<u>-</u>
4.					OBL species	x 1 =		
5.					FACW species	x 2 =	-	
		25%	= Total Cover		FAC species	x 3 =		
Herb Stratum	(Plot size: r=1m)				FACU species	x 4 =		
1. Athyrium cyc	losorum	15%	Yes	FAC	UPL species	x 5 =		
2. Carex obnup	ta	10%	Yes	OBL	Column Totals:	(A)		(B)
3.					Prevaler	nce Index = B/A =		
4.					Hydrophytic Veget	tation Indicators:		
5.		_			1 - Rapid Test	for Hydrophytic Ve	getation	
6.					X 2 - Dominance	Test is >50%		
7.					3 - Prevalence	Index is ≤3.0 <sup>1</sup>		
8.					4 - Morphologi	cal Adaptations <sup>1</sup> (P	rovide supportir	ng
9.					data in Rem	narks or on a separ	ate sheet)	
10.					5 - Wetland No	on-Vascular Plants <sup>1</sup>		
11.					Problematic Hy	ydrophytic Vegetatio	on (Explain) <sup>1</sup>	
		25%	= Total Cover		<sup>1</sup> Indicators of hydric	soil and wetland h	ydrology must	
Woody Vine Stra					be present.			
1. Hedera helix		100%	Yes	FACU	Hydrophytio			
2		100%	= Total Cover		Hydrophytic Vegetation	Yes X	No	
% Bare Ground	in Herb Stratum 75%	100 /6	Total Gove		Present?			
Remarks:	ov English ivv. on aggressive to	n nativo enecias						
Ground covered I	by English ivy, an aggressive, no	n-nauve species.						



SOIL							Sam	pling Point:	WFW-10	0-SP01	
Profile Description	on (Describe to the	depth need	ded to document the	indicator or co	nfirm the absen	ce of indicators):					
Depth	Matrix			Redox	Features						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	e	Rema	arks	
0-11	10YR 2/2	100	<u> </u>				L		some	OM	
11-16	10YR 3/2	100					GrL		grav	vel	
			_								
<sup>1</sup> Type: C=Concent	tration, D=Depletion,	RM=Redu	ced Matrix, CS=Cove	red or Coated Sa	ind Grains. <sup>2</sup> L	ocation: PL=Pore Lir	ning, M=Matrix.				
	•		loamy. Texture Modifi					(less clay)			
Hydric Soil Indica	tors (Applicable to	all LRRs, ı	unless otherwise no	ted):		Indicators for Pro	oblematic Hyd	ric Soils³:			
Histosol (A1)			Sandy Redox (	•		2 cm Muck (A	-				
Histic Epipedo	n (A2)		Stripped Matrix	•			Material (TF2)				
Black Histic (A	, ,		<del></del> ··	Vineral (F1) (exc	ept MLRA 1)	<del></del>	Dark Surface	(TF12)			
Hydrogen Sulf	•		Loamy Gleyed			X Other (Expla		( · · · – )			
· ·	w Dark Surface (A11	)	Depleted Matrix			` '	,				
Thick Dark Su	•	,	Redox Dark Su			2					
Sandy Mucky	Mineral (S1)		Depleted Dark	Surface (F7)		<sup>3</sup> Indicators of hydi hydrology must be			d		
Sandy Gleyed	Matrix (S4)		Redox Depress	sions (F8)		problematic.	prosont, unioc	o disturbed or			
Restrictive Layer	(if present):										
Туре						Hydric Soil					
Depth (inches):	n/a		<del>.</del>			Present?	Yes	х	No		
. ,	1770						-			_	
Remarks:	ha floodalain of a atr	aana Ctuan	a buduanbutia uaaatat	ion and watland l		et eletermoination of wa	tland area. Flu	ial antical with	anula masiatu		
SP located within t	ne noodpiam of a sur	eam. Strong	g hydrophytic vegetat	on and welland i	nyarology suppor	rt determination of we	uano area. Fio	nai entisoi with	aquic moisii	are regime.	
HYDROLOGY											
Wetland Hydrolog	v Indicatore:										
1	-	uirod: oboo	ok all that apply)			Soondary Indicat	toro (2 or moro	roquirod)			
	(minimum of one red	uirea, criec				Secondary Indicat	,				
Surface Water	• •			Leaves (B9) (exc	ept MLRA		ed Leaves (B9)	(MLRA 1, 2,			
X High Water Ta			1, 2, 4A, and	,		4A, and 4E	•				
X Saturation (A3 Water Marks (	•		Salt Crust (B11	<b>,</b>		Drainage Patterns (B10)  Dry-Season Water Table (C2)					
<del></del>	*		Aquatic Inverte								
Sediment Dep	, ,		Hydrogen Sulfic	, ,	- dia Dt- (CO)	<del></del>	sible on Aerial	imagery (C9)			
Drift Deposits	•			spheres along Li	ving Roots (C3)	x_ Geomorphic					
Algal Mat or C				duced Iron (C4)	0-:1- (00)	Shallow Aqui					
Iron Deposits	•			duction in Tilled		xFAC-Neutral		DD 4)			
Surface Soil C	` ,	(0.7)		ssed Plants (D1)	(LRR A)	<del></del>	Nounds (D6) (LI	•			
	ible on Aerial Imager	• • •	Other (Explain	in Remarks)		Frost-Heave	Hummocks (D	′)			
Sparsely Vege	etated Concave Surfa	ace (B8)				_					
Field Observation	is:										
Surface Water Pre	esent? Yes		No x	Depth (inches	s):	Wetland					
Water Table Prese	ent? Yes_	Х	No	Depth (inches	s):4	Hydrology	Yes_	X	No		
Saturation Presen	=	Х	No	Depth (inches	s): surface	Present?					
(includes capillary	tringe)										
Describe Record	ed Data (stream da	uge, monit	oring well, aerial ph	otos, previous i	nspections) if a	  vailable:					
	ou bata (otream gat	ago, mont	oig won, acriai piii	o.oo, previous i	pootionaj, ii a						
Remarks:											



Project No.: 554-1800-019 and -030

Project/Site:	OMFS and TDLE		City/County:	Federal Way,	Kina County	Sampling Date:	11/1/	2019
Applicant/Owner:			_ ′ ′		State: WA	_	Point: WFV	
Investigator(s):	A. Hoenig, A. Thom				Section, Township, Range:	T21N R	.04E S16	
Landform (hillslope	e, terrace, etc.):	hillslope		_ Local r	elief (concave, convex, none):	none	Slope (%):	<3%
Subregion (LRR):	: Northwest Forests and Coast	(LRR A)) L	.at: 47.305642	Loi	ng:122.303664	Datum:	NAD	1983
Soil Unit (Name-I	D-Hydric Rating): Alderwood g	avelly sandy loam, (	to 8 % slopes -	AgB	- Not Hydric NW	l classification:	none	1
Are climatic / hyd	rologic conditions on the site typic	cal for this time of ye	ar?	Y	es No x	(If no, explain in	Remarks)	
Are Vegetation	, Soil				re "Normal Circumstances" pr		Yes x	No
Are Vegetation	, Soil				If needed, explain any answers	,		
	F FINDINGS – Attach sit		sampling poi	nt locations	s, transects, important	features, etc.		
Hydrophytic Veg			No	la tha Cama	lad Araa			
Hydric Soil Prese			No <u>X</u>	Is the Samp	Hamal O			
Wetland Hydrolo	gy Present?	Yes	No <u>X</u>	within a we	tiand? Yes	NoX	<u> </u>	
Precipitation:								
	Seattle Tacoma International NO/ for visits within December. The n				•	rior to the site visits in	November	and within
Remarks:	TOT VIOLE WILLIAM DESCRIBED. THE II	ionar or recomber t	rao anor man nom	iai, and Booomi	oor was wotter than normal.			
Upland SP for Wi	FW-10, Unit B. Located upslope (	west) of SP1 and E.	Fork Hylebos Cree	k Trib 0016A.				
VEGETATION	V							
		Absolute	Dominant	Indicator	Dominance Test worksho	eet:		
Tree Stratum	(Plot size: <u>r=3m)</u>	% Cover	Species?	Status	Number of Dominant Spec	cies		
1. Thuja plicata		80%	Yes	FAC	That Are OBL, FACW, or F	FAC:	3 (	A)
2. Alnus rubra		20%	Yes	FAC				
3.					Total Number of Dominant	t		
4.					Species Across All Strata:		5 (	В)
		100% =	Total Cover					
Sapling/Shrub S	tratum (Plot size: r=2m)				Percent of Dominant Spec	eies		
1. Rubus spect	abilis	40%	Yes	FAC	That Are OBL, FACW, or F	FAC:	<u>60%</u> (	A/B)
2. Mahonia ner	vosa	3%	No	FACU	Prevalence Index worksh	neet:		
3.					Total % Cover of:	Multiply by:		
4					OBL species	x 1 =		
5					FACW species	x 2 =		
		43% =	Total Cover		FAC species	x 3 =		
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =		
1. Polystichum	munitum	50%	Yes	FACU	UPL species	x 5 =		
2.					Column Totals:	(A)		(B)
3.					Prevalence Ind			
4.					Hydrophytic Vegetation I			
5.					1 - Rapid Test for Hyd  X 2 - Dominance Test is			
6. 7.					<del></del>			
-					3 - Prevalence Index			
8. 9.					4 - Morphological Ada	aptations" (Provide st or on a separate shee		
10.			<del></del>		5 - Wetland Non-Vaso	•	ι)	
11.					Problematic Hydrophy		ain) <sup>1</sup>	
		50% =	Total Cover		<sup>1</sup> Indicators of hydric soil ar		•	
Woody Vine Stra	atum (Plot size: <u>r=1m)</u>		i otal Covel		be present.	a wedana nyarology	muət	
Hedera helix		60%	Yes	FACU				
2.					Hydrophytic			
0/ 8		60% =	Total Cover		•	Yes X No		
% Bare Ground	in Herb Stratum 50%				Present?			
Remarks:					1			

SOIL						Sampling Point:	WFW-10-SP02
	(Describe to the o	lepth needed	to document th	ne indicator or confirm the al	sence of indicators):	Cumping Forns	VVI VV 10 GI 02
Depth	Matrix			Redox Features	· · · · · · · · · · · · · · · · · · ·		
(inches)	Color (moist)	%	Color (moist)	1	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/2	100					, tomaine
6-15	10YR 3/2	80	-				mixed matrix
6-15	10YR 3/6	20					
				<u> </u>			
<sup>1</sup> Type: C=Concentra	ation. D=Depletion.	RM=Reduced	Matrix, CS=Cov	ered or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore L	_ining. M=Matrix.	
	•			ifier: co = coarse; f = fine; vf =		-	
Hydric Soil Indicate	<del>_</del>					Problematic Hydric Soils <sup>3</sup> :	
Histosol (A1)			Sandy Redox	•	2 cm Muck	•	
Histic Epipedon	(A2)	_	Stripped Matr	` ,	<del></del>	t Material (TF2)	
Black Histic (A3		_		Mineral (F1) (except MLRA 1	<del></del>	ow Dark Surface (TF12)	
Hydrogen Sulfic		_	Loamy Gleye			lain in Remarks)	
_ ' '	Dark Surface (A11	, –	Depleted Mat			iam m riomamo,	
Thick Dark Surf	· ·	_	Redox Dark S		•		
Sandy Mucky M	, ,	_		< Surface (F7)	•	drophytic vegetation and wetla be present, unless disturbed or	
Sandy Gleyed N		_	Redox Depre	ssions (F8)	problematic.	be present, unless disturbed of	
Restrictive Layer (i	f present):		<u> </u>				
Type:					Hydric Soil		
Depth (inches):					Present?	Yes	No X
Deptil (illolles).	n/a				i resent:		<u> </u>
Remarks:							
HYDROLOGY							
Wetland Hydrology	Indicators:						
Primary Indicators (r	minimum of one req	uired; check a	all that apply)		Secondary Indic	cators (2 or more required)	
Surface Water (	(A1)		Water-Staine	d Leaves (B9) (except MLRA	Water-Stair	ned Leaves (B9) (MLRA 1, 2,	
High Water Tab	le (A2)	_	 1, 2, 4A, ar	id 4B)	4A, and	4B)	
Saturation (A3)		_	Salt Crust (B1	1)	Drainage P	Patterns (B10)	
Water Marks (B	1)		Aquatic Inver	ebrates (B13)	Dry-Seaso	n Water Table (C2)	
Sediment Depo	sits (B2)		Hydrogen Sul	fide Odor (C1)	Saturation	Visible on Aerial Imagery (C9)	
Drift Deposits (E	33)	_	Oxidized Rhiz	ospheres along Living Roots (	C3) Geomorphi	ic Position (D2)	
Algal Mat or Cru	ust (B4)	_	Presence of F	Reduced Iron (C4)	Shallow Aq	quitard (D3)	
Iron Deposits (E	35)	_	Recent Iron F	eduction in Tilled Soils (C6)	FAC-Neutra	al Test (D5)	
Surface Soil Cra	acks (B6)	_	Stunted or St	ressed Plants (D1) (LRR A)	Raised Ant	Mounds (D6) (LRR A)	
Inundation Visib	ole on Aerial Imager	/ (B7)	Other (Explain	n in Remarks)	Frost-Heav	re Hummocks (D7)	
Sparsely Vegeta	ated Concave Surfa	ce (B8)					
Field Observations	:						
Surface Water Pres	ent? Yes	1	No x	Depth (inches):	Wetland		
Water Table Preser			No x	Depth (inches):		Yes	No X
Saturation Present?	·		No x	Depth (inches):	Present?		
(includes capillary f	ringe)				_		
Describe Recorde	d Data (stream gau	ge, monitori	ng well, aerial p	hotos, previous inspections	, if available:		
Remarks:							



Project/Site: OI	MFS and TDLE		City/County:	Federal Way	, King County	Sampling Date	: 12/3/2019
Applicant/Owner:	Sound Transit				State: WA	Samplinç	Point: WFW-10-SP05
Investigator(s):	T. Parry, A. Thom				Section, Township, Range:	 T21N	R04E S16
Landform (hillslope,	terrace, etc.):	terrace		Local ı	relief (concave, convex, none):	none	Slope (%): <3%
Subregion (LRR):	Northwest Forests and Coast	t (LRR A))	Lat: 47.304213	_ Lo	ng: -122.303748	Datum	: NAD 1983
Soil Unit (Name-ID	-Hydric Rating): Alderwood g	ravelly sandy loam	n, 0 to 8 % slopes -	- AgB	- Not Hydric N	WI classification:	R4SBC
Are climatic / hydro	logic conditions on the site typi	ical for this time of	year?	Y	'es X No	(If no, explain	in Remarks)
Are Vegetation	, Soil	, or Hydrology , or Hydrology	significantly dist	turbed?	Are "Normal Circumstances"	present?	Yes X No
Are Vegetation	, Soil	, or Hydrology	naturally proble	matic? (	If needed, explain any answe	ers in Remarks.)	
SUMMARY OF	FINDINGS – Attach si	te map showir	ng sampling poir	nt locations	s, transects, importan	t features, etc.	
Hydrophytic Veget	ation Present?	Yes X	No				
Hydric Soil Presen	t?	Yes X	No	Is the Samp	oled Area		
Wetland Hydrology	y Present?	Yes X	No	within a We	tland? Yes	X No	
the normal range for Remarks:	eattle Tacoma International NO or visits within December. The r cated within WFW-10, Unit B. S	month of Novembe	r was drier than norma	al, and Decem	ber was wetter than normal.		
VEGETATION							
	( )	Absolute	Dominant	Indicator	Dominance Test works		
Tree Stratum	(Plot size: <u>r=3m)</u>	% Cover	Species?	<u>Status</u>	Number of Dominant Spe		
<ol> <li>Alnus rubra</li> <li>2.</li> </ol>		40%	Yes	<u>FAC</u>	That Are OBL, FACW, or	r FAC:	(A)
3.							
					Total Number of Domina		
4					Species Across All Strata	a:	(B)
		40%	= Total Cover				
Sapling/Shrub Str	atum (Plot size: r=2m)				Percent of Dominant Spe	ecies	
1. Rubus spectal	pilis	45%	Yes	FAC	That Are OBL, FACW, or	r FAC:	<u>100%</u> (A/B)
2. Rubus armenia	acus	35%	Yes	FAC	Prevalence Index work		
3.					Total % Cover of:	Multiply by:	
4					OBL species	x 1 =	
5					FACW species	x 2 =	·
		80%	= Total Cover		FAC species	x 3 =	·
Herb Stratum	(Plot size: r=1m)				FACU species	x 4 =	
1. none					UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Ir	ndex = B/A =	
4.					Hydrophytic Vegetation	n Indicators:	
5						lydrophytic Vegetatio	n
6					X 2 - Dominance Test	is >50%	
7					3 - Prevalence Inde	x is ≤3.0 <sup>1</sup>	
8.					4 - Morphological A	daptations <sup>1</sup> (Provide	supporting
9.			<u></u> .		data in Remarks	or on a separate she	eet)
10.					5 - Wetland Non-Va	ıscular Plants <sup>1</sup>	
11.					Problematic Hydrop	hytic Vegetation (Ex	plain) <sup>1</sup>
		0%	= Total Cover		<sup>1</sup> Indicators of hydric soil	and wetland hydroloલ	gy must
Woody Vine Strat	um (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u>							
2					Hydrophytic	V V	
% Bare Ground in	Herb Stratum 100%	0%	= Total Cover		Vegetation Present?	Yes X No	
Remarks: ground covered by	leaf litter						

Parametrix
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ENGINEERING PLANNING ENVIRONMENTAL SCIENCES

Project No.: 554-1800-019 and -030

Western Mountains, Valleys, and Coast Region (Version 2.0)

SOIL							Sampling Point:	WFW-10-SP05
	(Describe to the	depth need	ed to document the	indicator or co	nfirm the abse	nce of indicators):	oumping roma	***************************************
Depth	Matrix	-			Features	•		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 2/2	100						
3-11	10YR 3/2	95	10YR 4/6	5			GrL	
11-17	10YR 3/6	95	7.5YR 5/8	5			GrL	
<del>-</del>								
			·					
			<u> </u>					
<sup>1</sup> Type: C=Concentrat	tion D=Denletion	RM=Reduc	ed Matrix, CS=Covere	ed or Coated Sa	and Grains 2	Location: PL=Pore Lir	ning M=Matrix	
	•						e clay); - = light (less clay)	
			nless otherwise note				oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1)	(		Sandy Redox (S	•		2 cm Muck (	· ·	
Histic Epipedon (	Δ2)		Stripped Matrix (				Material (TF2)	
Black Histic (A3)	A2)		Loamy Mucky M		ant MIRA 1)		/ Dark Surface (TF12)	
Hydrogen Sulfide	· (A4)		Loamy Gleyed M	, , ,	opt will over 1		in in Remarks)	
	Oark Surface (A11	)	Depleted Matrix			Other (Expla	iii iii rtomantoj	
Thick Dark Surfa	•	,	x Redox Dark Surf					
Sandy Mucky Mi	` '		Depleted Dark S	. ,		•	rophytic vegetation and wetland	d
Sandy Gleyed M			Redox Depression			problematic.	e present, unless disturbed or	
Restrictive Layer (if			<u> </u>	. ,	1	•		
Type:						Hydric Soil		
Depth (inches):	none n/a					Present?	Yes X	No
	11/a						<u> </u>	
HYDROLOGY								
Wetland Hydrology	Indicators:							
,		uirad: abaal	k all that apply)			Socondan/Indica	toro (2 or more required)	
Primary Indicators (m		uirea, crieci		- (DO) (		•	tors (2 or more required)	
Surface Water (A	•		Water-Stained L 1, 2, 4A, and 4		cept MLRA	4A, and 4E	ed Leaves (B9) (MLRA 1, 2,	
High Water Table X Saturation (A3)	e (A2)		Salt Crust (B11)	•		Drainage Pa		
Water Marks (B1	)		Aquatic Inverteb				Water Table (C2)	
Sediment Depos	•		Hydrogen Sulfide				sible on Aerial Imagery (C9)	
Drift Deposits (B3			Oxidized Rhizos		iving Roots (C3)			
Algal Mat or Crus	•		Presence of Rec		, , , , , , , , , , , , , , , , , , ,	Shallow Aqu		
Iron Deposits (B5			Recent Iron Red		Soils (C6)	FAC-Neutral		
Surface Soil Crad	•		Stunted or Stres		` '		Nounds (D6) (LRR A)	
	e on Aerial Imager	y (B7)	Other (Explain in		,		Hummocks (D7)	
	ted Concave Surfa			,			,	
Field Observations:								
Surface Water Prese	int? Voc		No. v	Donth (incho	0).	Wetland		
Water Table Present	<del>-</del>	У	_ No <u>x</u> No	Depth (inchest Depth		Hydrology	Yes X	No
Saturation Present?	Yes	x	No	Depth (inches	-	Present?	Yes <u>X</u>	
(includes capillary fri	-	^		Dopui (mone	o <sub>j</sub> . 10	i lesent?		
Describe Recorded	Data (stream ga	uge, monito	oring well, aerial pho	tos, previous i	nspections), if	available:		
Remarks:								

