CleanWater Services

November 05, 2019

AAI ENGINEERING 4875 SW GRIFFITH DR #300 BEAVERTON OR 97005

Re: CWS file 19-003074; 11045 SW Tualatin-Sherwood Road (Tax map 2S122DD Tax lot 00700, Tax map 2S127AA Tax lot 00500, Tax map 2S122D0 Tax lot 00600)

Clean Water Services has reviewed your proposal for the above referenced activity on your site. Staff has conducted a pre-screen review and requested completion of a Sensitive Areas Certification Form. Following review of submitted materials it appears that Sensitive Areas do not exist on-site or within 200' from your project. In light of this result, this document will serve as your Service Provider letter as required by Resolution and Order 19-5, Section 3.02.1. All required permits and approvals must be obtained and completed under applicable local, state, and federal law.

This concurrence letter does NOT eliminate the need to protect Sensitive Areas if they are subsequently identified on your site.

If you have any questions, please feel free to call me at (503) 681-3667.

Sincerely,

Stacy Bonjamin

Stacy Benjamin Environmental Plan Review









Pacific Habitat Services, Inc

9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Phone: (503) 570-0800 Fax: (503) 570-0855 11045, 10835, 10775 Tualatin-Sherwood Road, Tualatin, OR



9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070

PACIFIC HABITAT SERVICES, INC.

(800) 871-9333 • (503) 570-0800 • Fax (503) 570-0855

October 11, 2019

Phelan Development Company, LLC Attn: Dane Palanjian 450 Newport Center Drive, Suite 405 Newport Beach, CA 92660

RE: Wetland Determination and Vegetated Corridor Assessment for 10835, 11045, 10775 Tualatin-Sherwood Road, Tualatin, Oregon PHS #6836

Pacific Habitat Services, Inc. (PHS) conducted a wetland determination and vegetated corridor assessment on September 19, 2019, of City of Tualatin Parcels 500, 600, and 700, Tax Map 2S122D (T2S, R1W, Section 22D), which together comprise a study area of 16.34 acres (Figures 1 and 2, attached). The result of the wetland determination is that **no potentially jurisdictional wetlands or waters are present on the property and no sensitive areas are located within 200 feet of the study area**.

Pacific Habitat Services (PHS) has been on the site on three prior occasions for wetland determinations and in each instance did not find wetlands. In 2008, PHS conducted a wetland delineation of the southern portion of Tax Lot 550 (formerly Tax Lot 502), which is adjacent to the northern and northwestern boundary of the study area (North of SW Myslony Street). A wetland was identified on Tax Lot 550, approximately 540 feet west of the study area; however, no sensitive areas including wetlands or waters were present within 200 feet of the study area boundary.

Existing Conditions

The study area is located in the western portion of Tualatin in an area where former agricultural lands are gradually being converted to industrial uses. The topography is relatively flat and slopes gently to the north, toward Hedges Creek, which is a perennial stream and tributary to the Tualatin River. The largest vegetation community is a large agricultural grass field that appears to have been fallow for several years and is dominated by mixed grass species including oat (*Avena* spp.), ryegrass (*Lolium* spp.), velvet grass (*Holcus lanatus*, FAC), and tall fescue (*Schedonorus arundinaceus*, FAC) as well as rough cat's ear (*Hypochaeris radicata*, FACU), Queen Anne's lace (*Daucus carota*, FACU), and lesser hawkbit (*Leontodon saxatilis*, FACU). There are several large stands of Himalayan blackberry (*Rubus armeniacus*, FAC) intermixed with English hawthorn (*Crataegus monogyna*, FAC) and black hawthorn (*Crataegus douglasii*, FAC). A large stand of this vegetation community extends north of Tax Lot 600 for approximately 30 feet where it transitions to an agricultural field. A large area of earthen fill, approximately three feet above the natural grade, extends west of Tax Lot 600, north of SW Myslony Street.

Dane Palanjian, Phelan Development Company, LLC 10835, 11045, 10775 Tualatin-Sherwood Road, Tualatin, Oregon Pacific Habitat Services, Inc. / PHS #6836 October 11, 2019 Page 2

West of the study area and south of SW Myslony Street is a large industrial park and northeast of the study area there is a large agricultural field with a narrow strip of Douglas fir (*Pseudotsuga menziesii*, FACU) trees along the property boundary. There is a farmhouse in the far eastern portion of the study area, surrounded by Douglas' fir and Oregon oak (*Quercus garryana*, FACU) trees. The southern boundary of the study area borders SW Tualatin-Sherwood Road.

Offsite and On-site Determination of Wetlands or Waterways

Prior to the field investigation, precipitation information from the Rex 1 S WETS station was examined to determine hydrological conditions for the three months preceding the September wetland delineation fieldwork and the Weather Underground website (<u>https://www.wunderground.com</u>) was examined to determine hydrological conditions for the preceding two weeks. As shown below in Table 1, precipitation for the preceding three months of June, July, and August were well below normal; however, precipitation for the preceding two weeks was 3.02 inches, which is 495 percent of normal (0.61 inches).

Manth	Average	30% chanc	e will have	Observed	Percent of
Month	Precipitation ¹	Less than ¹	More than ¹	Precipitation ¹	Normal
June	1.69	0.98	2.06	0.54	32
July	0.7	0.22	0.81	0.46	66
August	0.89	0.29	1	0.21	24

Table 1.	Average Monthly and observed	precipitation for Rex	1 S (NRCS WETS Table)
		1 1	

Notes: ¹Source: http://agacis.rcc-acis.org/?fips=41071

Below-normal rainfall for the three months preceding the wetland determination fieldwork and above normal precipitation for the preceding two weeks did not result in significant variations in the typical hydrological conditions for groundwater during late summer in the Willamette Valley, when water tables are either at or near their lowest point. Although sufficient hydrology indicators for a wetland determination were not present at any sample point, dry season evaluations for oxidized rhizospheres along living roots geomorphic position, and the Fac-Neutral test were utilized. Five sample points were taken throughout the property to determine if wetland existed with in the study area.

Sample Point 1 (Tax lot 600) was placed in the northern portion of the study area. Dominant vegetation in this area consists of Himalayan blackberry, colonial bentgrass (*Agrostis capillaris*, FAC), and velvet grass and meets the wetland vegetation criteria for wetlands. Hydric soils meet the requirements for depleted matrix; however, wetland hydrology indicators are not present.

Sample Point 2 (Tax lot 600) was placed in the center of the field, which had recently been mowed. Vegetation consists of unidentified grasses and lesser hawkbit and does not meet the wetland vegetation criteria; hydric soils and wetland hydrology are also not present.

Sample point 3 (Tax lot 600) was placed in an area that had recently been disturbed, possibly for geotechnical excavations; however, there was adequate undisturbed ground available to assess vegetation, soils, and hydrology. Vegetation consists of unidentified grasses, black-bindweed (*Fallopia convolvulus*, FACU), and oat (assumed UPL) and does not meet wetland vegetation criteria; hydric soils and wetland hydrology are also not present.

Dane Palanjian, Phelan Development Company, LLC 10835, 11045, 10775 Tualatin-Sherwood Road, Tualatin, Oregon Pacific Habitat Services, Inc. / PHS #6836 October 11, 2019 Page 3

Sample Point 4 (Tax lot 500) was placed in a large, open field in the western portion of the study area. The dominant vegetation is ryegrass, which meets wetland vegetation criteria; however, hydric soils and wetland hydrology are not present.

Sample Point 5 (Tax lot 700) was placed in the northeast portion of the study area. The dominant vegetation consists of Himalayan blackberry and ryegrass, which meets wetland vegetation criteria; however, hydric soils and wetland hydrology are not present.

Wetland Determination Data Forms for Sample Points 1-5 and photographs of the site are attached.

Results and Conclusions

Wetland Determination

As described above, PHS did not identify any potentially jurisdictional wetlands or waters of the State/US within the study area. This finding is in agreement with the Tualatin Natural Resource Inventory and Local Wetland Inventory (LWI) mapping, which also did not map any wetlands or waters within the study area.

Vegetated Corridor Assessment

As a result of the wetland determination and the previous wetland delineation performed by PHS, it is clear that there are no sensitive areas or regulated vegetated corridors affecting the study area. As slopes in the study area and to the north range from 0 to 4 percent, regulated vegetated corridors would extend no further than 50 feet from any sensitive areas that may be located north of the study area. As the nearest wetland is approximately 540 feet west of the northern portion of the study area, there are no vegetated corridors within a minimum of 50 feet from the site.

Required Disclaimer

This letter documents the investigation, best professional judgment and conclusions of the investigators. It is correct and complete to the best of our knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk unless it has been reviewed and approved in writing by the Oregon Department of State Lands in accordance with OAR 141-090-0005 through 141-090-0055. Also,

Feel free to contact me directly should you require any additional information pertinent to this determination memo and Vegetated Corridor Assessment.

Sincerely

Joe Phompson

Joe Thompson

Enclosures: Figures 1 and 2 Wetland Determination Data Forms Site Photos







Pacific Habitat Services, Inc 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Phone: (503) 570-0800 Fax: (503) 570-0855 11045, 10835, 10775 Tualatin-Sherwood Road, Tualatin, OR

Wetland Determination and Vegetated Corridor Assessment



WETLAND DETER	RMINATION		RM - Weste	rn Mountains. Vall	evs, and Coa	PHS # st Reaion	6836
Project/Site: <u>Tualatin-Sherwood Rd I</u>	Property	City/County:	Tualat	in/Washington	Sampling Date:	9/19	/2019
Applicant/Owner: Phelan Developme	nt			State:	OR	Sampling Point:	1
nvestigator(s): JT/MS		Section, To	wnship, Range:	Townsh	ip 2S, Range 1 V	V, Section 22D	
andform (hillslope, terrace, etc.:)	Flat	-	Local relief (cor	ncave, convex, none):	None	Slope (%):	0
Subregion (LRR):		Lat:	45.3767		-122.791179	Datum:	WSG85
oil Map Unit Name:	Labish Muc	- ky Clay - Hydr	ic	NWI Clas	ssification:	None	
re climatic/hydrologic conditions on the site to	ypical for this tim	ne of year?	Yes	X No	(if no, ex	olain in Remarks)	
re vegetation Soil or Hy	drology	significantly dist	urbed?	Are "Normal Circumstanc	es" present? (Y/N)	Y	
re vegetation Soil or Hy	drology	naturally problem	matic? If needed	, explain any answers in Re	marks.)		
UMMARY OF FINDINGS – Attac	h site map	showing san	npling point	locations, transects,	, important feat	tures, etc.	
ydrophytic Vegetation Present? Yes	X No					•	
uydric Soil Present? Yes	X No		Is Sampled Ar	ea within Magazina Yes		No X	
	No	X	a wetiai	<u> </u>			
/EGETATION - Use scientific nan	nes of plant	s.					
	absolute	Dominant	Indicator	Dominance Test worl	ksheet:		
rea Ctratum (rl-t-i	% cover	Species?	Status				
ee Stratum (plot size:)				That are OBLE FACING		2	(A)
				THAL ARE UBL, FACVV, OF F	AU:	<u>э</u>	(~)
·				Total Number of Dominant	ł		
				Species Across All Strata:	L .	3	(B)
	0	= Total Cover					(-)
poling/Shrub Stratum (plat size) 15	<u> </u>			Dereent of Deminent Cross	ine		
Rubus armeniacus	_ ⁾ 70	¥	FAC	That are OBL_EACW_ or	FAC:	100%	(Δ/B)
Crataegus douglasii	10		FAC			10076	(~, D)
Crataegus monogyna	10		FAC	Prevalence Index Wo	rksheet:		
· · · · · · · · · · · · · · · · · · ·				Total % Cover of	Multiply b	by:	
;				OBL Species	x 1 =	• 0	
	90	= Total Cover		FACW species	x 2 =	0	
<i></i>				FAC Species	x 3 =	• 0	
erb Stratum (plot size: 5)	~~	v	540	FACU Species	x 4 =	· <u> </u>	
Agrostis capillaris	20	<u> </u>		UPL Species	x 5 =	· <u> </u>	(D)
Hypericum perforatum					U (A)	<u> </u>	(D)
	<u> </u>		PAGU	Prevalence Index -	β/Δ =	#DIV/01	
				Hydrophytic Vegetati	on Indicators:		
				1	I- Rapid Test for Hyd	drophytic Vegetatio	n
				X 2	2- Dominance Test is	s >50%	
	101	= Total Cover		3	3-Prevalence Index is	s ≤ 3.0 ¹	
				4	I-Morphological Ada	ptations ¹ (provide s	upporting
oody Vine Stratum (plot size:)			C	lata in Remarks or o	n a separate sheet)
				5	- Wetland Non-Vaso	cular Plants'	(nlain)
		- T-4 1 0			roblematic Hydroph	iytic Vegetation' (E	kplain)
	<u> </u>	= Total Cover		disturbed or problematic.		y must be present,	unless
				Hydrophytic			
	<u>م</u>			Vegetation	Yes X	No	
6 Bare Ground in Herb Stratum	0			Progetation		·	

			PHS #	6836)			Sampling Point: <u>1</u>
Profile Descr	iption: (Describe to	the depth r	needed to docume	ent the indication	tor or cor	firm the abse	nce of indicators.)	
Depth (Inches)	Color (moist)	%	Color (moist)	Redox Fe	eatures Type ¹	Loc ²	Texture	Remarks
0-2	10YR 3/2	100	10YR 3/4	<1	C	PL	Silty Clay Loam	
2-9	10YR 3/2	100					Silty Clay Loam	
9-15	10YR 5/2	85	5YR 4/6	15	С	м	Silt Loam	Medium, Coarse
								2
Type: C=Con	centration, D=Depleti	on, RM=Re	all LRRs. unles	Covered or Co	oated San e noted.)	d Grains.	Indica	² Location: PL=Pore Lining, M=Matrix.
,	Histosol (A1)			Sa	ndv Redox	(S5)		2 cm Muck (A10)
	Histic Epipedon (A2)			Str	ipped Mat	rix (S6)		Red Parent Material (TF2)
	Black Histic (A3)			Lo	amv Muck	v Mineral (F1)	(except MLRA 1)	Very Shallow Dark Surface (TE12)
	Hydrogen Sulfide (A4	1)		l o;	amv Gleve	d Matrix (F2)	,	Other (explain in Remarks)
	Depleted Below Dark	·) Surface (/	A11)	<u> </u>	nleted Mat	triv (E3)		
	Thick Dark Surface (Δ12)	X11)		dox Dark 9	Surface (E6)		
	Sandy Mucky Minora	1(91)			plotod Dark	tk Surface (E7		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix	(S4)		De Re	dox Depre	essions (F8)		hydrology must be present, unless disturbed or problematic.
estrictive	Layer (if present)	:						
vpe:								
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ND DETE	RMINATION		RM - Weste	rn Mountains, Val	leys, and Coa	ist Region	
erwood Rd	Property	City/County:	Tualat	tin/Washington	Sampling Date	9/19	9/2019
Developme	ent			State:	OR	Sampling Point:	2
JT/MS		Section, To	wnship, Range:	Townsh	nip 2S, Range 1 V	N, Section 22D	
.:)	Flat		Local relief (cor	ncave, convex, none):	None	Slope (%):	1
LRR	Α	Lat:	45.3760	075 Long:	-122.791242	Datum:	WSG85
Qı	uatama Loam,	0-3 Percent S	lopes	NWI Cla	ssification:	None	
ns on the site	typical for this tin	ne of year?	Yes	X No	(if no, ex	plain in Remarks)	
or H	ydrology	significantly dist	urbed?	Are "Normal Circumstand	ces" present? (Y/N)	Y	
or H	ydrology	naturally proble	matic? If needed	, explain any answers in Re	emarks.)		
		_					
<u>3S – Atta</u>	ch site map	showing san	npling point	locations, transects	, important fea	tures, etc.	
? Yes -	No	<u> </u>	Is Sampled Ar	ea within			
Yes -	No	<u> </u>	a Wetlar	nd? Yes		No X	
Yes -	No	<u> </u>					
entific na	mes of plant	.e					
	absolute	Dominant	Indicator	Dominance Test wor	ksheet:		
	% cover	Species?	Status				
))			Number of Dominant Spe	cies		(a)
				That are OBL, FACW, or	FAC:	1	(A)
				Total Number of Dominan	it	2	(P)
	0	= Total Cover		Species Across Air Strata		2	(D)
	<u> </u>						
size:	_)			Percent of Dominant Spec	cies	50%	
				That are OBL, FACW, or	FAC:	50%	(A/D)
				Prevalence Index Wo	orksheet:		
				Total % Cover of	Multiply I	by:	
				OBL Species	x 1 =	= 0	
	0	= Total Cover		FACW species	x 2 =	= 0	
				FAC Species	x 3 =	= 0	
5)			FACU Species	x 4 =	= 0	
	80	<u> </u>	(FAC)	UPL Species	x 5 =	= 0	
		<u> </u>	FACU	Column Totals	U (A)	0	(B)
				Prevalence Index =	B/A =		
					B/A -		
				Hydrophytic Vegetat	ion Indicators:		
					1- Rapid Test for Hy	drophytic Vegetatio	on
					2- Dominance Test i	s >50%	
	100	= Total Cover			3-Prevalence Index i	is ≤ 3.0 ¹	
					4-Morphological Ada	ptations ¹ (provide	supporting
e:)				data in Remarks or o	on a separate shee	t)
					5- Wetland Non-Vas	cular Plants'	
<u> </u>		- T-1 - 0			Problematic Hydroph	nytic vegetation' (E	xpiain)
	0	= Total Cover		disturbed or problematic.	na weliana nyarolog	y must be present,	uniess
				Hydrophytic			
	ND DETE erwood Rd Developmo JT/MS) LRR Q ns on the site or H 3S – Atta ? Yes Yes Yes ientific na size: size: 	erwood Rd Property Development JT/MS IRR A Quatama Loam, ns on the site typical for this tim or Hydrology 3S – Attach site map i? Yes Yes No Yes No Yes No yes No size:) 0 size: 0 size: 0 20 100 100	VD DETERMINATION DATA FO erwood Rd Property City/County: Development City/County: JT/MS Section, To Flat LRR A Lat: Quatama Loam, 0-3 Percent S ns on the site typical for this time of year? or Hydrology significantly dist or Hydrology naturally problem 3S - Attach site map showing sam X Yes No X Yes O X Yes No X O = Total Cover size: 0 X 0 = Total Cover 5 80 X 20 X	ND DETERMINATION DATA FORM - Weste erwood Rd Property City/County: Tualat Development	ND DETERMINATION DATA FORM - Western Mountains, Val Italiatin/Washington Development State: JT/MS Section, Township, Range: Township, Range: JT/MS Section, Township, Range: Township, Range: Township, Range: LRR A Lat: 45.376075 Long: Nong: Quatama Loam, 0-3 Percent Slopes NW/ Cla No X No is on the sile typical for this time of year? Yes X No X No Yes No No Yes No X No X No Yes No X No X Yes No X No Yes No X No X Yes No X Yes No X Number of Dominant Sep Number of Dominant Sep Number of Dominant Spe Number of Dominant Spe Species Across All Strata 0 = Total Cover Total Number of Dominant Spe FACU OBI Species FACU, or Species Across All Strata Species FACU Species FACU Specie	ND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coa erwood Rd Property City/County: Tualatin/Washington Sampling Date Development State: OR JT/MS Section, Township, Range: Township 25, Range 11 :) Flat Local relief (concave, convex, none): None LRR A Lat: 45.376075 Long: -122.791242 Quatama Loam, 0-3 Percent Slopes NWI Classification: (fno. ex or Hydrology significantly disturbed? Are "Normal Circumstances" present? (VN) or Hydrology naturally problematic? In edeed, explain any answers in Remarks.) 23 - Attach site map showing sampling point locations, transects, important fea Yes No ? No X Is Sampled Area within a Wetland? Yes	ND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region erwood Rd Property City/County: Tualatin/Washington Sampling Date: 9/15 Development State: OR Sampling Point: 1 JT/MS Section, Township, Range: Township 25, Range 1 W, Section 22D Flat Local relief (concave, convex, none): None Singe (%). LRR A Lat: 45.376075 Long: -122.791242 Datum: Cuatama Loam, 0-3 Percent Slopes NWI Classification: None None

Profile Descri			PHS #	6836	-		Sampling Point: 2
	ription: (Describe to	the depth	needed to docume	ent the indicator or co	onfirm the abser	nce of indicators.)	
Depth	Matrix	0/		Redox Features	1 co ²	Tautura	Descenter
		100	Color (moist)	<u>%</u> Type		Silt Loom	Remarks
0-14	101K 3/4	100				Silt Loain	
	·			·	- <u> </u>		
	·			·	·		
	·			·	·		
	·			·			
	·						
	·				- <u> </u>		
¹ Type: C=Con	ncentration, D=Depleti	ion, RM=R	educed Matrix, CS=	Covered or Coated Sa	and Grains.	India	² Location: PL=Pore Lining, M=Matrix.
Hydric Soli	Indicators: (Appi	icable to	all LKRS, unles	s otherwise noted	•)	indica	ators for Problematic Hydric Solls :
	HISTOSOI (A1)			Sandy Red	ox (S5)		2 cm Muck (A10)
	Histic Epipedon (A2)			Stripped M	atrix (S6)		Red Parent Material (TF2)
	Black Histic (A3)			Loamy Muc	κy Mineral (F1)(€	except MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4	4)		Loamy Gle	yed Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	k Surface (/	A11)	Depleted N	latrix (F3)		
	Thick Dark Surface (A12)		Redox Dar	< Surface (F6)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Mucky Minera	al (S1)		Depleted D	ark Surface (F7)		hydrology must be present, unless disturbed or
	Sandy Gleyed Matrix	(S4)		Redox Dep	ressions (F8)		problematic.
Restrictive	Layer (if present)):					
Туре:							
Depth (inches	es):					Hydric Soil Pres	ent? Yes <u>No X</u>
HYDROLO	OGY						
Wetland Hy	/drology Indicator	rs:					
Primary Indie	/drology Indicator	rs: of one req	uired; check all th	nat apply)			Secondary Indicators (2 or more required)
Primary Indi	/drology Indicator icators (minimum c Surface Water (A1)	rs: of one req	uired; check all th	nat apply) Water stair	ed Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
Primary Indi	rdrology Indicator icators (minimum c Surface Water (A1) High Water Table (A	rs: of one req 2)	uired; check all th	nat apply) Water stair 1, 2, 4A, ar	ed Leaves (B9) (1 d 4B)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Primary Indi	ydrology Indicator icators (minimum c Surface Water (A1) High Water Table (A Saturation (A3)	rs: of one req 2)	uired; check all th	nat apply) Water stair 1, 2, 4A, ar Salt Crust (ed Leaves (B9) (i n d 4B) B11)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
Primary Indi	Adrology Indicator icators (minimum c Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	r s: of one req 2)	uired; check all th	nat apply) Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv	ed Leaves (B9) (1d 4B) B11) ertebrates (B13)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Primary Indi	Adrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (I	rs: of one req 2) B2)	uired; check all th	nat apply) Water stain Salt Crust (Aquatic Inv Hydrogen S	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3
Primary Indi	Adrology Indicator icators (minimum of Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	rs: of one req 2) B2)	uired; check all th	nat apply) Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alon	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Geomorphic Position (D2)
Primary Indi	Adrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	rs: of one req 2) B2) B4)	uired; check all th	nat apply) Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alon f Reduced Iron (C	Except MLRA g Living Roots (C3) C4)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indi	Adrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	rs: of one req 2) B2) 64)	uired; check all th	hat apply) Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alony f Reduced Iron (C n Reduction in Plo	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Primary Indi	Adrology Indicator icators (minimum of Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks	rs: of one req 2) B2) B2) B4) (B6)	uired; check all th	nat apply) Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C n Reduction in Plo Stressed Plants (Except MLRA g Living Roots (C3) C4) Dwed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary Indi	Arology Indicator icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks of Inundation Visible on	rs: of one req 2) B2) B2) (B6) (B6) (Aerial Ima	uired; check all th	nat apply) Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or Other (Exp	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alon f Reduced Iron (C n Reduction in Plo Stressed Plants (lain in Remarks)	Except MLRA g Living Roots (C3) C4) Dewed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indi	Arrology Indicator icators (minimum of Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks of Inundation Visible on Sparsely Vegetated of	rs: of one req 2) B2) B4) (B6) n Aerial Ima Concave S	uired; check all th ugery (B7) urface (B8)	Mat apply) Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or Other (Exp	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C n Reduction in Plo Stressed Plants (lain in Remarks)	Except MLRA g Living Roots (C3) C4) pwed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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Field Obser Surface Water Water Table P Saturation Pre (includes capillar Describe Recc	Advantage of the second	rs: of one req 2) B2) B2) A4) (B6) Aerial Ima Concave S auge, mon	uired; check all th ngery (B7) urface (B8) No X No X No X itoring well, aerial pi	hat apply) Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or Other (Exp Depth (inches): Depth (inches): Depth (inches): Depth (inches):	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C n Reduction in Plo Stressed Plants (lain in Remarks) >14 >14 >14 tions), if available	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi	Arrology Indicator icators (minimum of Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (rvations: r Present? Yes Present? Yes esent? Yes ry fringe) orded Data (stream g	rs: of one req 2) B2) 44) (B6) Aerial Ima Concave S auge, mon	uired; check all th ngery (B7) urface (B8) No X No X No X No X	hat apply) Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or Other (Exp Depth (inches): Depth (inches): Depth (inches): hotos, previous inspec	ed Leaves (B9) (nd 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C n Reduction in Plo Stressed Plants (lain in Remarks) >14 >14 tions), if available	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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WETLAND DE			RM - Weste	rn Mountains, Val	leys, and Coast	PHS # Region	6836
t/Site: Tualatin-Sherwood	Rd Property	City/County:	Tualat	tin/Washington	Sampling Date:	9/19	/2019
ant/Owner: Phelan Develo	pment			State:	OR Sa	ampling Point:	3
igator(s): JT/	MS	Section. To	wnship. Range:	Townsh	ip 2S. Range 1 W. S	ection 22D	
orm (hillslope, terrace, etc.;)	Flat		Local relief (cor	ncave, convex, none):	None	Slope (%):	1
gion (I BB):	RRA	l at:	45 3777	702 Long:	-122 790458	Datum:	WSG8
an Unit Name:	Noodburn Silt Los	- Lui. am 0-3 Porcon	t Slones	NWI Cla	esification:	- None	11000
	aita tuninal for thia tir	no of year?	Voo		/if no. ovaloin	in Pomorko)	
			res		(ii no, explain		
				Are "Normal Circumstand	es present? (Y/N)	T	
egetation Soil	or Hydrology	naturally proble	matic? If needed	l, explain any answers in Re	marks.)		
IMARY OF FINDINGS - A	ttach site map	showing san	pling point	locations, transects	, important feature	es, etc.	
phytic Vegetation Present? Yes	s No	X		·	•		
: Soil Present? Yes		x	Is Sampled Ar	rea within	No	x	
nd Hydrology Present? Yes	No	<u> </u>	a wettar	iu /			
rks:							
FTATION - Use scientific	names of plan	ts.					
	absolute	Dominant	Indicator	Dominance Test wor	ksheet:		
	% cover	Species?	Status				
Stratum (plot size:)			Number of Dominant Spe	cies		
				That are OBL, FACW, or I	AC:	1	(A)
				Total Number of Dominan	t		
				Species Across All Strata:		2	(B)
	0	= Total Cover					
g/Shrub Stratum (plot size:)			Percent of Dominant Spec	cies		
				That are OBL, FACW, or	FAC: 50)%	(A/B)
				Prevalence Index Wo	orksheet:		
				Total % Cover of	Multiply by:	_	
				OBL Species	x 1 =	0	
	0	= Total Cover		FACW species	x 2 =	0	
Du u (mlataiza) F	\ \			FAC Species	x 3 =		
Stratum (plot size. 5		v		FACU Species	x 4 =		
	40	<u> </u>		OPL Species	= C X =		(P)
vona sp	20		(11PL)		0 (A)		(Б)
olium perenne	20			Prevalence Index =	אים אי מ	V/01	
			FAC	Frevalence index -	# D	V/U:	
nidentified forb	10		(FAC)	Hydrophytic Vegetat	ion Indicators		
					1- Rapid Test for Hydron	nvtic Vegetatio	n
					2- Dominance Test is >50)%	-
	140	= Total Cover			3-Prevalence Index is ≤ 3	.0 ¹	
					4-Morphological Adaptati	ons ¹ (provide s	upporting
y Vine Stratum (plot size:)				data in Remarks or on a	separate sheet)
					5- Wetland Non-Vascular	Plants ¹	
					Problematic Hydrophytic	Vegetation ¹ (Ex	(plain)
	0	= Total Cover		¹ Indicators of hydric soil a	nd wetland hydrology mu	ist be present,	unless
				disturbed or problematic.			
a Craund in Llark Stratum	0			Hydrophytic	Yes	No	¥
e Ground in Bern Siranin				I TOMOLOLIVII	100	110	~ ~

rofile Descrip			PHS #	6836			Sampling Point:	3
Depth (Inches)	otion: (Describe to t	the depth n	eeded to docume	ent the indicator or co	onfirm the abser	nce of indicators.)		
	Matrix	0/	Color (maint)	Redox Features		Taytura	Demarke	
		100			LUC	Silt Loam	Remarks	
0-13	101K 3/3	100			·			
				·				
				·				
						,		
Type: C=Conc	entration, D=Depleti	on, RM=Rec	luced Matrix, CS=	Covered or Coated Sa	nd Grains.		² Location: PL=Pore Lining, M=Matrix.	
lydric Soil I	ndicators: (Appl	icable to a	II LRRs, unles	s otherwise noted.)	Indica	ators for Problematic Hydric Soils	³ :
F	listosol (A1)			Sandy Redo	ox (S5)		2 cm Muck (A10)	
۲	listic Epipedon (A2)			Stripped Ma	ıtrix (S6)		Red Parent Material (TF2)	
E	Black Histic (A3)			Loamy Muc	ky Mineral (F1) (e	except MLRA 1)	Very Shallow Dark Surface	e (TF12)
F	lydrogen Sulfide (A4	1)		Loamy Gley	ed Matrix (F2)		Other (explain in Remarks))
C	Depleted Below Dark	Surface (A1	11)	Depleted Ma	atrix (F3)			
т	hick Dark Surface (A	A12)		Redox Dark	Surface (F6)			
5	andy Mucky Minera	l (S1)		Depleted Da	ark Surface (F7)		³ Indicators of hydrophytic vegetation and	l wetland
s	Sandy Gleyed Matrix	(S4)		Redox Depr	essions (F8)		problematic.	Irbed or
estrictive L	ayer (if present).	:						
ype:								
epth (inches)):					Hydric Soil Pres	ent? Yes No	Х
emarks:								
IYDROLOO Vetland Hyd	GY Irology Indicator	's:						
rimary Indic	ators (minimum o							
		f one requi	red; check all th	nat apply)			Secondary Indicators (2 or more re	equired)
S	Surface Water (A1)	f one requi	red; check all th	nat apply) Water stain	ed Leaves (B9) (I	Except MLRA	Secondary Indicators (2 or more re Water stained Leaves (B9)	equired)
s ۲۲	Surface Water (A1) High Water Table (A2	f one requi	red; check all th	nat apply) Water stain 1, 2, 4A, an	ed Leaves (B9) (I d 4B)	Except MLRA	Secondary Indicators (2 or more re Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)	equired)
<u>۔ ۔ ۔ ۔ </u> ٤ ۲ s	Surface Water (A1) High Water Table (A2 Saturation (A3)	f one requi	red; check all th	nat apply) Water staine 1, 2, 4A, an Salt Crust (İ	ed Leaves (B9) (I d 4B) 311)	Except MLRA	Secondary Indicators (2 or more re Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)	equired)
<u>د</u> ۲ ۲ ۷	Surface Water (A1) High Water Table (A2 Saturation (A3) Vater Marks (B1)	f one requi	red; check all th	nat apply) Water stain 1, 2, 4A, an Salt Crust (f	ed Leaves (B9) (I d 4B) 311) ertebrates (B13)	Except MLRA	Secondary Indicators (2 or more re Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (0	equired)
ع ج المحالي محمالما مع محالي محمالما محمالممالممالممالممالمالمحمالمالمحمالممالم	Surface Water (A1) High Water Table (A2 Saturation (A3) Vater Marks (B1) Sediment Deposits (E	of one requi	red; check all th	nat apply) Water stain 1, 2, 4A, an Salt Crust (I Aquatic Inve	ed Leaves (B9) (I d 4B) 311) ertebrates (B13) ulfide Odor (C1)	Except MLRA	Secondary Indicators (2 or more re Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (0 Saturation Visible on Aerial	equired) C2)
ع ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب	Surface Water (A1) digh Water Table (A2 Saturation (A3) Vater Marks (B1) Sediment Deposits (B3)	<u>f one requi</u> 2) 32)	ired; check all th	hat apply) Water staind 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rt	ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along	Except MLRA g Living Roots (C3)	Secondary Indicators (2 or more re Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (0 Saturation Visible on Aerial Geomorphic Position (D2)	equired) C2) I Imagery (
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۲ الجامع الحالي الح حالي الحالي ا حالي الحالي ال حالي الحالي الح حالي الحالي الح حالي الحالي br>حالي الحالي الح حالي الحالي الح حالي الحالي مع الحالي الحالي الحالي الحالي حالي ما حالي الحالي مع مالي الحالي الحالي الحالي معالي معالي حالي معالي مع مالي حالي معالي معالي معالي معالي حالي معالي مع م	Surface Water (A1) High Water Table (A2 Saturation (A3) Vater Marks (B1) Sediment Deposits (B Drift Deposits (B3) Ngal Mat or Crust (B ron Deposits (B5)	<u>f one requi</u> 2) 32) 4)	ired; check all th	Mat apply) Water stain 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leaves (B9) (I d 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more re Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (0 Saturation Visible on Aerial Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)	equired) C2) I Imagery ((
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WETLAND DETE	RMINATION	DATA FOI	RM - Weste	rn Mountains. Vall	evs. and Coast	PHS # Region	6836
Project/Site: _Tualatin-Sherwood Rd	Property	City/County:	Tualat	in/Washington	Sampling Date:	9/19/	2019
Applicant/Owner: Phelan Developme	ent			State:	OR s	ampling Point:	4
nvestigator(s): JT/MS		Section, To	wnship, Range:	Townsh	ip 2S, Range 1 W, S	ection 22D	
andform (hillslope, terrace, etc.:)	Flat		Local relief (cor	ncave, convex, none):	Flat	Slope (%):	1
ubregion (LRR):	A	Lat:	453755	29 Long:	-122.789179	Datum:	WSG85
oil Map Unit Name: Hi	llsboro Loam,	0-3 Percent S	lopes	NWI Clas	ssification:	- None -	
re climatic/hydrologic conditions on the site	typical for this time	e of year?	Yes	X No	(if no, explair	n in Remarks)	
re vegetation Soil or H	vdrology	significantly dist	urbed?	Are "Normal Circumstanc	es" present? (Y/N)	Y	
re vegetation Soil or H	ydrology	naturally probler	natic? If needed	, explain any answers in Re	marks.)		
	· · ·			· · ·			
UMMARY OF FINDINGS – Attac	ch site map s	howing sam	npling point	locations, transects,	, important featur	es, etc.	
ydrophytic Vegetation Present? Yes	X No		Is Sampled Ar	ea within			
/dric Soil Present? Yes	No	X	a Wetlan	nd? Yes_	No	X	
etland Hydrology Present? Yes	No	X					
emarks:							
EGETATION Liss scientific pa	mos of plants						
	absolute	Dominant	Indicator	Dominance Test worl	ksheet:		
	% cover	Species?	Status				
ee Stratum (plot size:)			Number of Dominant Spec	cies		
	·			That are OBL, FACW, or F	AC:	1	(A)
	<u> </u>						
3 				Species Across All Strate:	L	1	(P)
•		= Total Cover		Species Across All Strata:		<u> </u>	(В)
anling/Chryth Ctratum () ()	<u> </u>						
1)			That are OPL EACW or		0%	(A/R)
	·				TAO. 10	0 /0	(7,0)
3	·			Prevalence Index Wo	rksheet:		
L	·			Total % Cover of	Multiply by:		
;				OBL Species	x 1 =	0	
	0	= Total Cover		FACW species	x 2 =	0	
· - · · · · · · · · · · · · · · · · · ·	、 、			FAC Species	x 3 =	0	
erb Stratum (plot size: 5) 100	v		FACU Species	x 4 =		
	100	<u> </u>		Column Totals	= C X		'B)
	·				(//)		0)
4				Prevalence Index =E	3/A = #D	IV/0!	
3				Hydrophytic Vegetati	on Indicators:		
7				1	- Rapid Test for Hydrop	hytic Vegetation	ı
3				<u> </u>	2- Dominance Test is >5	0%	
	100	= Total Cover		3	3-Prevalence Index is ≤ 3 L-Morphological Adaptet	3.0' ions ¹ (provide c	upporting
/oody Vine Stratum (plot size:)				ata in Remarks or on a	separate sheet	apporting
	/			5	5- Wetland Non-Vascula	r Plants ¹	,
2	·			F	Problematic Hydrophytic	Vegetation ¹ (Ex	plain)
	0	= Total Cover		¹ Indicators of hydric soil ar	nd wetland hydrology m	ust be present, i	unless
				disturbed or problematic.			
Bare Ground in Herb Stratum	0			Hydrophytic Vegetation	Yee Y	No	

SOIL			PHS #	68	36			Sampling Point: 4
Profile Descrip	ption: (Describe to	the depth	needed to docu	ment the indi	icator or co	nfirm the abser	nce of indicators.)	
Depth (Inches)	Color (moist)	%	Color (moist)	Redox	x Features	l oc ²	Texture	Remarks
0-10	10YR 3/3	100			1300		Silt Loam	
10-14	7.5YR 4/4	100					Silt Loam	
¹ Type: C=Conc	centration, D=Deplet	ion, RM=R	educed Matrix, C	S=Covered or	r Coated San	d Grains.		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators: (Appl	licable to	all LRRs, unle	ess otherwi	ise noted.)		Indica	ators for Problematic Hydric Soils ³ :
H	Histosol (A1)				Sandy Redo	x (S5)		2 cm Muck (A10)
H	Histic Epipedon (A2)				Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Black Histic (A3)				Loamy Muck	y Mineral (F1)(except MLRA 1)	Very Shallow Dark Surface (TF12)
ł	Hydrogen Sulfide (A	4)			Loamy Gleye	ed Matrix (F2)		Other (explain in Remarks)
[Depleted Below Dark	k Surface (/	A11)		Depleted Ma	trix (F3)		
	Thick Dark Surface (A12)			Redox Dark	Surface (F6)		3
	Sandy Mucky Minera	al (S1)			Depleted Da	rk Surface (F7)		Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
	Sandy Gleyed Matrix	(S4)			Redox Depre	essions (F8)		problematic.
Restrictive I	Layer (if present)):						
Type:					_			
LIOPTO / mehoe	.)·							contry voc No Y
Remarks:	r				_			
Remarks: HYDROLO Wetland Hyd	GY drology Indicator	rs:						
Remarks: HYDROLO Wetland Hyd	GY drology Indicator cators (minimum c	rs :	uired; check al	that apply)	<u>-</u>			Secondary Indicators (2 or more required)
HYDROLO Wetland Hyd	GY drology Indicator cators (minimum c Surface Water (A1) High Water Table (A	rs: of one req	uired; check al	that apply)	Water staine	d Leaves (B9) (1 4B)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLO Wetland Hyd Primary Indic	GY drology Indicator cators (minimum c Surface Water (A1) High Water Table (A Saturation (A3)	rs: of one req 2)	uired; check al	that apply)	Water staine	d Leaves (B9) (I 4B) 11)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLO Wetland Hyd Primary Indic	GY drology Indicator cators (minimum c Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	rs: of one req 2)	uired; check al	that apply)	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve	d Leaves (B9) (i 4B) 11) rtebrates (B13)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Drv-Season Water Table (C2)
HYDROLO Wetland Hyd Primary Indic	GY drology Indicator cators (minimum c Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits ()	rs: of one req 2) B2)	uired; check al	that apply)	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St	d Leaves (B9) (I 4B) 11) rtebrates (B13) ulfide Odor (C1)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
HYDROLO Wetland Hyd Primary Indic	GY drology Indicator cators (minimum c Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3)	rs: of one req 2) B2)	uired; check al	that apply)	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi	d Leaves (B9) (i 4B) 11) rtebrates (B13) ılfide Odor (C1) zospheres alon	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)
HYDROLO Wetland Hyd Primary Indic	GY drology Indicator cators (minimum c Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B	rs: of one req 2) B2) B2)	uired; check al	that apply)	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	d Leaves (B9) (i 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres alon Reduced Iron ((Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLO Wetland Hyo Primary Indic	GY drology Indicator cators (minimum c Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	rs: of one req 2) B2) B2)	uired; check al	that apply)	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron I	d Leaves (B9) (I 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres alon Reduced Iron ((Reduction in Plo	Except MLRA g Living Roots (C3) C4) wwed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
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6836	PHS # _	eys, and Coast	ntains, Vallev	estern Mou	RM - Wes	N DATA FO		D DETE!	WETLAND	
2019	e: 9/19/	Sampling Date:	ngton	ualatin/Washi	Tua	City/County:	d Property	rwood Rd	Tualatin-Sherv	oject/Site:
5	Sampling Point:	OR s	State:				nent	evelopme	Phelan De	- oplicant/Owner:
	– W, Section 22D	p 2S, Range 1 W, S	Township	ange:	wnship, Rang	Section, To		JT/MS		vestigator(s):
1	Slope (%):	Flat	ex, none):	ef (concave, conv	Local relief (-	Flat)	e, terrace, etc.:)	ndform (hillslop
WSG85	Datum:	-122.788449	Long:	.375524	45.37	Lat:	A	LRR /	:	ubregion (LRR):
	None	sification:	NWI Classifi		lopes	- 3-7 Percent S	lillsboro Loam	Hil	me:	oil Map Unit Na
	xplain in Remarks)	(if no. explai	No	Yes X	Ye	ne of vear?	e typical for this tir	on the site t	blogic conditions of	e climatic/hvdro
	Ý	s" present? (Y/N)	nal Circumstances"	Are "Norr	turbed?	significantly dist	Hvdroloav	or Hv	Soil	e vegetation
		arks)	v answers in Rema	eeded explain an	matic? If need	naturally proble	Hydrology	or Hy	Soil	e vegetation
			, anonoro in rionia	oodod, oxpiani an						-
	atures, etc.	important featur	s, transects, in	oint location	npling poir	showing san	ach site map	S – Attac	of Findings	UMMARY C
				lad Area within	lo Comulad		X No	Yes	etation Present?	/drophytic Vege
	No X	No	Yes	Netland?	a Wet	Х	No	Yes	nt?	/dric Soil Prese
						Х	No	Yes	gy Present?	etland Hydrolog
										emarks:
						s.	ames of plan	ntific nar	N - Use scier	EGETATIO
		sheet:	nce Test worksh	tor Domina	Indicator Status	Dominant	absolute % cover			
		es	Dominant Species	Number o	Olalus	Opecies:))	plot size:	ee Stratum (
(A)	3	AC:	BL, FACW, or FAC	That are 0			_^	^		
			ber of Dominant	Total Num						
(B)	3		cross All Strata:	Species A						
						= Total Cover	0			
		es	Dominant Species	Percent o)	ze: 15	ratum (plot size	apling/Shrub St
(A/B)	100%	AC: 10	BL, FACW, or FA	That are 0	FAC	х			neniacus	Rubus arm
. ,				_						
		ksheet:	nce Index Works	Prevale						
	by:	Multiply by:	over of	Total % C						
	= 0	x 1 =	Species	OBL						
	= 0	x 2 =	V species	FAC		= Total Cover	10			
	= 0	x 3 =	Species	FAC)	5)	nlot sizo:	wh Stratum (
	- 0	x 4 =			(EAC)	Y	_))	piot size.	Lolium en
B)		0 (A)	nn Totals		(FAC)	<u> </u>	38		d arass	Unidentifie
	(<u> </u>		<u>u</u>	FACU		2		ommunis	Lapsana c
	#DIV/0!	A= #D	alence Index =B/A	Prev						
		on Indicators:	ytic Vegetation	Hydropl						
n	/drophytic Vegetatior	Rapid Test for Hydrop	1- R							
	is >50%	Dominance Test is >5	X 2- D							
	is ≤ 3.0 ¹	Prevalence Index is ≤ :	3-Pr			= Total Cover	100	-		
upporting	aptations' (provide s	Morphological Adaptat	4-M				N		(
	on a separate sheet)	ata in Remarks or on a	data)		tum (plot size:	oody Vine Strat
nlain)	butic Vecatation ¹ (C.		5- V			·				
piairi)	mytic vegetation (EX		FIOI	¹ Indicator		= Total Cavar				
INLASS		a wedana nyurology m	or nyuno soli anu v	disturbed			<u> </u>			
unless	gy must be present, t		or problematic.							
unless	gy must be present, t		iytic	Hydropl						

Profile Descri			PHS #	6836			Sampling Point	t: <u>5</u>
Donth	ption: (Describe to th	e depth ne	eded to docume	nt the indicator or co	nfirm the absend	ce of indicators.)		
Depth (Inches)	Color (moist)	%	Color (moist)	Redox Features	Loc ²	Texture	Rema	arks
0-10	10YR 3/3	100				Silt Loam		
10-13	7.5YR 3/3	100		· · · · · · · · · · · · · · · · · · ·		Silt Loam		
			·					
¹ Type: C=Conc Hydric Soil	centration, D=Depletion	n, RM=Redu	iced Matrix, CS=0	Covered or Coated San	d Grains.	Indica	² Location: PL=Pore Lining,	M=Matrix.
	Histosol (A1)		Entro, unicoe	Sandy Redo	x (85)	maiot	2 cm Muck (4	A10)
	Histic Enjpedon (A2)			Stripped Mat	rix (S6)		2 en Maer (/	Material (TF2)
' ۱	Black Histic (A3)			Loamy Muck	v Mineral (F1) (ex	(cent MI RA 1)	Very Shallow	(Dark Surface (TE12)
Ľ	Hudrogon Sulfido (A4)			Loomy Clove	Motrix (E2)		Very Shallow	in in Remarke)
r	Rydrogen Sunde (A4)	D		Loanly Gleye				in in Remarks)
L	Depieted Below Dark 3)	Depleted Ma	uix (F3)			
	Thick Dark Sunace (A	(24)		Redox Dark			³ Indicators of hydrophytic v	vegetation and wetland
;	Sandy Mucky Mineral (Sandy Gleyed Matrix ((S1) S4)		Redox Depre	essions (F8)		hydrology must be presen problema	nt, unless disturbed or atic.
Restrictive I	Layer (if present):							
Туре:								
Depth (inches	s):					Hydric Soil Pres	ent? Yes	No X
HYDROLO Wetland Hyd	GY drology Indicators							
Primary Indic		:						
	cators (minimum of	one require	ed: check all th	at apply)			Secondary Indicators	(2 or more required)
r minary maie	cators (minimum of Surface Water (A1)	one require	ed; check all th	at apply) Water staine	d Leaves (B9) (E	xcept MLRA	Secondary Indicators (Water stained	(2 or more required) d Leaves (B9)
••••••••••••••••••••••••••••••••••••••	cators (minimum of Surface Water (A1) High Water Table (A2)	one requir	ed; check all th	at apply) Water staine 1, 2, 4A, and	d Leaves (B9) (E I 4B)	xcept MLRA	Secondary Indicators ((2 or more required) d Leaves (B9) 4A, and 4B)
• • • • • • • • • • • • • • • • • • •	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	one requir	ed; check all th	at apply) Water staine 1, 2, 4A, and Salt Crust (B	d Leaves (B9) (E I 4B) 11)	xcept MLRA	Secondary Indicators (Water stained (MLRA1, 2, Drainage Pat	(2 or more required) d Leaves (B9) 4A, and 4B) tterns (B10)
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Photo A:

Looking southwest at Sample Point 1.

Photo taken on September 19, 2019

Photo B:

Looking west at a raised area with fill, north of SW Myslony Street in the northwest corner of the study area.

Photo taken on September 19, 2019



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Photo C:

Looking southwest at Sample Point 2.

Photo taken on September 19, 2019

Photo D:

Looking east at Sample Point 3. Photo taken on September 19, 2019



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Photo E:

Looking south at southwest portion of study area (Tax lot 600).

Photo taken on September 19, 2019

Photo F:

Looking west at Sample Point 4. Photo taken on September 19, 2019



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Photo G:

Looking east at Sample Point 5. Photo taken on September 19, 2019

Photo H:

Looking east at residence in northeast portion of study area (Tax lot 700).

Photo taken on September 19, 2019



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