

Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 986-5200 FAX (503) 378-4844 www.oregon.gov/dsl

State Land Board

January 4, 2021

West Linn Wilsonville School District Attn: Remo Douglas, Capital Construction Program Manager 2755 SW Borland Road Tualatin, OR 97062

Bev Clarno

Kate Brown

Governor

Re: WD # 2020-0622 Approved

Wetland Delineation Report for the Dollar Street Site, West Linn, Clackamas County; T2S R1E S34DC TLs 900 and 1001, and

S34C TL600

Tobias Read State Treasurer

Secretary of State

Dear Mr. Douglas:

The Department of State Lands has reviewed the wetland determination report prepared by Pacific Habitat Services, Inc. for the site referenced above. Based upon the information presented in the report, we concur that there are no jurisdictional wetlands or other waters of the state within the study area, as indicated on the attached Figure 6 and 6A. Please replace all copies of the preliminary wetland maps with these final Department-approved maps.

Within the study area, one ephemeral stream was identified. Normally, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined). However, ephemeral streams are non-jurisdictional per OAR 141-085-0515(3); therefore, it is not subject to these state permit requirements.

This concurrence is based on information provided to the agency and is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. Federal or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or

complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. If you have any questions, please contact Chris Stevenson, the Jurisdiction Coordinator for Clackamas County at (503) 986-5246.

Sincerely,

Peter Ryan, SPWS

Et Ryan

Aquatic Resource Specialist

Enclosures

ec: Mike See, Pacific Habitat Services, Inc.

West Linn Planning Department (Maps enclosed for updating LWI)

Trey Fraley, Corps of Engineers

Michael De Blasi, DSL

WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

This form must be included with any wetland delineation report submitted to the Department of State Lands for review and approval. A wetland delineation report submittal is not "complete" unless the fully completed and signed report cover form and the required fee are submitted. Attach this form to the front of an unbound report or include a hard copy of the completed form with a CD/DVD that includes a single PDF file of the report cover form and report (minimum 300 dpi resolution) and submit to: Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279. A single PDF attachment of the completed cover from and report may be e-mailed to Wetland_Delineation@dsl.state.or.us. For submittal of PDF files larger than 10 MB, e-mail instructions on how to access the file from your ftp or other file sharing website. Fees can be paid by check or credit card. Make the check payable to the Oregon Department of State Lands. To pay the fee by credit card, call 503-986-5200.

Mobile phone # (optional) E-mail: douglasr@wlwv.k12.or.us West Linn Wilsonville School District 2755 SW Borland Road Tualatin, OR 97062 Authorized Legal Agent, Name and Address: Business phone # Mobile phone # E-mail: Business phone # E-mail: I either own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification to the primary contact.
West Linn Wilsonville School District 2755 SW Borland Road Tualatin, OR 97062 Authorized Legal Agent, Name and Address: Business phone # Mobile phone # E-mail: I either own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification to the primary contact.
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property for the purpose of confirming the information in the report, after prior notification to the primary contact.
True of (Duinted Manner Marine 1 1 1 1 1 A C
Typed/Printed Name: KEND DOGIAS Signature: Signature: Special instructions regarding site access:
Project and Site Information (using decimal degree format for lat/long.,enter centroid of site or start & end points of linear project)
Project Name: Dollar St. Site West Linn Latitude: 45.34842103, Longitude: -122.67227190
Proposed Use: School Campus Tax Map # 21E34C TL600
and 21E34DC TLs 900 and 1001
Project Street Address (or other descriptive location): Township 2S Range 1E Section 34 QQ
840 Dollar St. Tax Lot(s) Waterway: River Mile:
City: West Linn County: Clackamas NWI Quad(s): Canby OR
Wetland Delineation Information
Wetland Consultant Name, Firm and Address: Phone # 503-570-0800
Pacific Habitat Services, Inc. Mobile phone #
Attn: Mike See E-mail: ms@pacifichabitat.com
9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070
The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge.
Consultant Signature: Michael See Date: 11/9/2020
Primary Contact for report review and site access is Consultant Applicant/Owner Authorized Agent
Study Area size: 21 91 agres Total Watland Agrees:
Wetland/Waters Present? ✓ Yes ✓ No Study Area size. 21.81 acres 10tal Wetland Acreage. 0.01ac/591sf
Check Box Below if Applicable: Fees:
☐ R-F permit application submitted ☐ Fee payment submitted \$
☐ Mitigation bank site ☐ Fee (\$100) for resubmittal of rejected report
☐ Wetland restoration/enhancement project (not mitigation) ☐ No fee for request for reissuance of an expired
☐ Industrial Land Certification Program Site report
Reissuance of a recently expired delineation
Previous DSL # Expiration date
Other Information: Y N
Has previous delineation/application been made on parcel? If known, previous DSL #
Does LWI, if any, show wetland or waters on parcel?
For Office Use Only
DSL Reviewer: Fee Paid Date: / DSL WD # 2020-0622
Date Delineation Received:/
Scanned: ☑ Final Scan: □ DSL WN # DSL App. #

Electronic Submittal

Wetland Delineation for the Dollar Street School Project in West Linn, Oregon

Prepared for

West Linn-Wilsonville School District c/o Remo Douglas, Capital Construction Program Manager 2755 SW Borland Road Tualatin, OR 97062

Prepared by

Michael See, Joe Thompson John van Staveren

Pacific Habitat Services, Inc.

9450 SW Commerce Circle, Suite 180 Wilsonville, Oregon 97070 (503) 570-0800

PHS Project Number: 6960

November 9, 2020



TABLE OF CONTENTS

			<u>Page</u>
I.	INTRO	DUCTION	1
II.	RESUL	TS AND DISCUSSION	1
	A. La	Indscape Setting and Land Use	1
		te Alterations	
	C. Pro	ecipitation Data and Analysis	2
	D. Me	ethods	2
	E. De	escription of all Wetlands and Other Non-Wetland Waters	3
	F. De	eviation from National Wetland Inventory	3
	G. Ma	apping Method	3
		lditional Information	
	I. Re	esults and Conclusions	3
	J. Re	equired Disclaimer	4
III.		RENCES	4
APP	ENDIX A	A: Figures	
	Figure 1:	Vicinity Map (USGS)	
	Figure 2:	Tax Lot Map	
	Figure 3:	Wetlands Inventory Map (Local)	
	Figure 4:	Soil Survey Map	
	Figure 5:	Recent Aerial Photograph	
	Figure 6:	Wetland Delineation Map	
APP	ENDIX E	B: Wetland Delineation Data Sheets	
APP	ENDIX (C: Study Area Photos	
APP	ENDIX I	D: Wetland Definitions, Methodology (client only)	

I. INTRODUCTION

Pacific Habitat Services, Inc. (PHS) conducted a wetland delineation for the Dollar Street School Site located at 840 Dollar Street and North of Willamette Falls Drive, West Linn, Oregon (Township 2 South, Range 1 East Section 34, tax lots 600; and Section 34DC tax lots 900, 1001). This report presents the results of PHS's delineation of the property. Figures, including maps depicting the locations of waters within the study area, are in Appendix A. Data sheets documenting study area conditions are provided in Appendix B. Ground-level photos are included in Appendix C. A discussion of the wetland delineation methodology (for the client) is provided in Appendix D.

II. RESULTS AND DISCUSSION

A. Landscape Setting and Land Use

The approximately 21.81-acre study area is located at 840 Dollar Street, and 945 Dollar Street in West Linn, Oregon, and is north of Willamette Falls Drive. The study area consists primarily of second growth forest with some areas dominated by herbaceous or shrub species, and generally slopes from northeast to southwest. Land use adjacent to the study area is primarily residential with developed athletic fields located to the south. The Tualatin River flows near the northwest corner of the site to the south and east. There is also a depression/ravine/swale near the eastern boundary of the study area that generally slopes north to south. Elevations range between approximately 208 and 104 feet according to survey data provided by Compass Land Surveyors.

The Natural Resources Conservation Services (NRCS) mapped soils within the study area include McBee variant loam, Newberg fine sandy loam, Willamette silt loam, wet, 0 to 3 percent slopes, Woodburn silt loam, 8 to 15 percent slopes. None of the mapped soils within the study area are classified as hydric.

Vegetation within the study area is largely forested. An area in the north-central portion of the site was previously planted with Douglas fir (*Pseudotsuga menziesii*, FACU) trees. The understory in this area consists of sword fern (*Polystichum munitum*, FACU), Himalayan blackberry (*Rubus armeniacus*, FAC), and red elderberry (*Sambucus racemosa*, FACU). The remainder of the site has been allowed to reforest through natural succession; species in these areas are generally a mix of deciduous trees with scattered Douglas fir. Dominant species include bigleaf maple (*Acer macrophyllum*, FACU), red alder (*Alnus rubra*, FAC), black walnut (*Juglans nigra*, UPL), and English hawthorn (*Crataegus monogyna*, FAC). Wetland vegetation was generally uncommon within the study area, areas that were dominated by wetland vegetation were lacking hydric soils and wetland hydrology; therefore, no wetlands were identified during the field investigation.

B. Site Alterations

An examination of historical aerial photos shows that the study area was previously used for agricultural activities in addition to being a residence. A large portion of the eastern parcel was reforested between 1960 and 1970, and much of the remainder of the study area reverted to forest between 1981 and the 1990s. A stormwater pipe discharges into the ravine within the eastern portion

of the site, the ravine flows into a catch basin immediately offsite to the south. A sanitary sewer line is also located in the ravine. A water quality basin is located immediately to the west of the study area boundary, this was constructed around 2010 and is likely associated with replacement of the bridge on Willamette Falls Drive.

C. Precipitation Data and Analysis

PHS conducted the wetland delineation and data collection on June 11, 2020. Table 1 compares the average monthly precipitation at the Oregon City WETS station (approximately three miles east of the study area) to the observed monthly precipitation for the three months prior to the June field work.

Table 1: Comparison of average precipitation from 1995 to 2019 recorded at the Oregon City WETS station to observed precipitation prior to the June 2020 wetland delineation field work.

	Avonogo	30% Chanc	e Will Have	Obsamiad	Domant of
Month	Average Precipitation ¹	Less Than Average ¹	More Than Average ¹	Observed Precipitation ¹	Percent of Normal
March	5.81	3.87	6.96	2.76	48%
April	3.8	2.71	4.49	1.42	37%
May	2.19	1.21	2.67	3.04	139%

WETS Table for the Oregon City WETS station

As shown in Table 1, observed precipitation was below the average and normal range during March and April, and above the average and normal range for May. Observed precipitation was 1.32 inches in the two weeks prior to the June 11 field investigation. No precipitation was recorded on June 11, 2020. A total accumulation of 28.34 inches was recorded for the water year at the time of the field investigation. This is approximately 70% of normal. PHS considered hydrological conditions to be below normal for the purposes of the wetland delineation field work, and thus extra care was taken to evaluate hydrologic conditions along wetland boundaries.

D. Methods

As stated above, PHS conducted a stream and wetland delineation along with data collection on June 11, 2020. PHS delineated the study area using the *Corps of Engineers Wetland Delineation Manual, Wetlands Research Program Technical Report Y 87 1* ("The 1987 Manual") and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region*, which characterize wetlands based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation in accordance with the routine onsite determination method. At the time of the delineation, due to recent precipitation levels, climatic conditions were not considered typical and best professional judgment was utilized to evaluate hydrology, soils and vegetation throughout the site. Although wetland indicators were observed individually, no areas exhibited the presence of all three wetland indicators: wetland hydrology, hydric soils, and hydrophytic vegetation, thus no wetlands were identified within the study area.

The ordinary high water (OHW) of onsite streams were delineated based on guidelines outlined in the Department of State Lands *Removal Fill Guide* and the U.S. Army Corps of Engineers Regulatory Guidance Letter 05-05: *Field Indicators of OHW*. Evidence of OHW included scour within the stream where sediment along the channel wall was clear of any vegetation, changes in sediment characteristics and vegetation, and exposed roots.

E. Description of all Wetlands and Streams

PHS identified the potentially jurisdictional limits of one stream/channel within the study area. No wetlands were found within the study area. A description of the stream/channel is provided below.

Stream 1

Stream 1 (0.01 acres/ 591 sf) is an ephemeral channel in the southeastern portion of the study area. The stream originates from a stormwater pipe within the northeast portion of this area. Channel development within Stream 1 is poor and loses definition and then infiltrates into the ground. Areas immediately downstream of Stream 1 are well vegetated and do not exhibit a defined streambed, streambanks, or an ordinary high water mark. Sample points 2 and 3 characterizes these conditions. The channel does not connect to any downstream waters. Stream 1 has a Cowardin Classification of riverine ephemeral (R6), and a Hydrogeomorphic (HGM) Classification of Riverine Flow-Through (RFT). Sample point1 characterizes the hydrology, vegetation, and soils within Stream 1.

F. Comparison to Local Wetland Inventory

The City of West Linn Local Wetland Inventory (LWI) does not depict any wetlands or probable wetlands within the study area boundary. The LWI Map does show a potentially jurisdictional drainage within the eastern portion of the study area. This feature roughly corresponds to Stream 1 described above.

G. Mapping Method

PHS flagged the limits of the stream/channel within the study area (includes entire tax lots referenced above) with blue flagging and the sample points with green flagging. Compass Land Surveyors then surveyed the delineated boundaries and sample points, both have an accuracy of sub-centimeter.

H. Additional Information

None

I. Results and Conclusions

PHS delineated the OHW line of an ephemeral channel within the study area that totals 0.01 acre. Section E above describes the Cowardin and HGM Class of the channel.

J. Required Disclaimer

This report 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.

III. REFERENCES

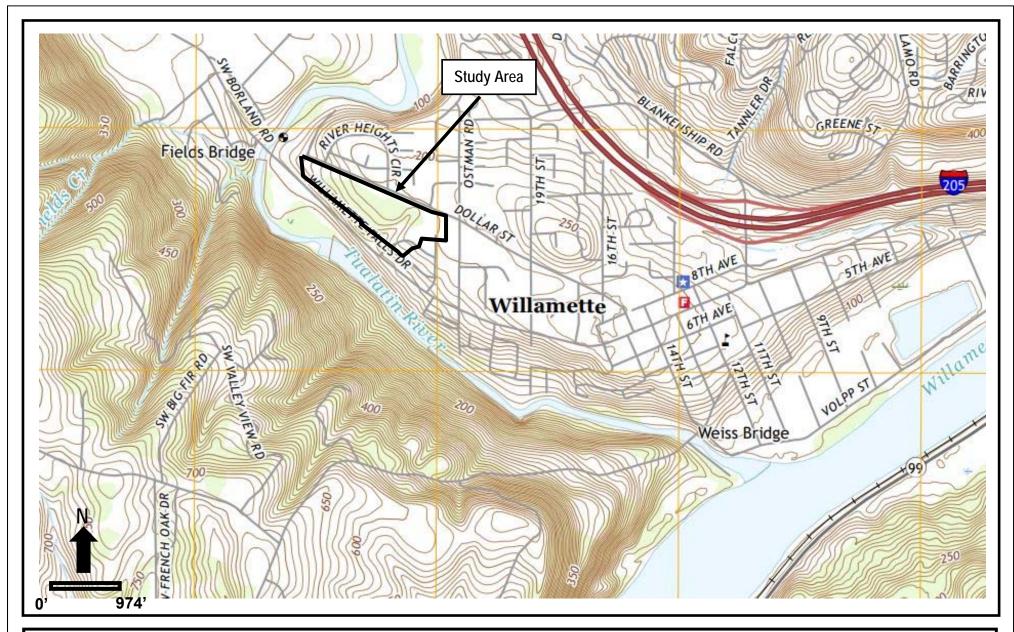
- Adamus, P.R. and D. Field. 2001 Guidebook for Hydrogeomorphic (HGM)-based Assessment of Oregon Wetland and Riparian Sites. Willamette Valley Ecoregion, Riverine Impounding and Slopes/Flats Subclasses. Oregon Department of State Lands, Salem, OR.
- GoogleEarth Map, 2020. Aerial photo, May 8, 2019.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *State of Oregon 2016 Plant List. The National Wetland Plant List: 2016 Wetland Ratings*. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X

 http://rsgisias.crrel.usace.army.mil/nwpl static/data/DOC/lists 2016/States/pdf/OR 2016v1.pdf
- Munsell Color, 2010. *Munsell Soil Color Charts*. Grand Rapids, Michigan. 2009 Year Revised, 2010 Production.
- NRCS Weather data for the Oregon City, OR WETS Station. Source: (http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/technical/fotg/)
- ORMAP tax maps, 2020. http://www.ormap.net/
- Removal-Fill Guide, April 2019: A Guide to the Removal-Fill Permit Process. Oregon Department of State Lands, Salem, OR. http://www.oregon.gov/dsl/Pages/default.aspx
- US Army Corps of Engineers, Environmental Laboratory, 1987. Corps of Engineers Wetland Delineation Manual. Technical Report Y-87-1.
- US Army Corps of Engineers, Environmental Laboratory, 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0).
- US Department of Agriculture, Natural Resource Conservation Services, 2020. NRCS Web Soil Survey; Clackamas County.
- US Geological Survey, 2020. Canby, Oregon. 7.5-minute Quadrangle Map.
- Winterbrook Planning, 2003. City of West Linn Wetland, Riparian, and Wildlife Habitat Inventory, 2004

Appendix A

Figures

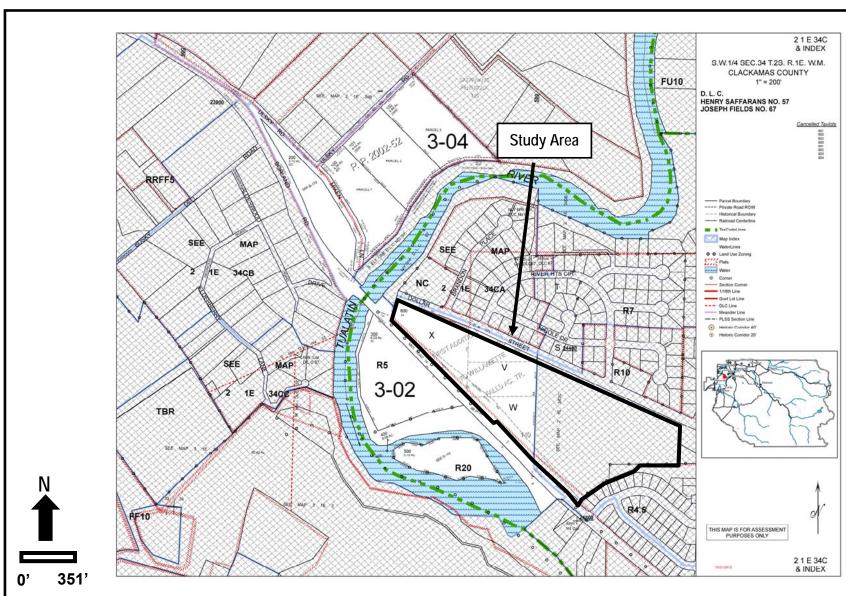






General Location and Topography
Dollar Street West Linn School Siting - West Linn, Oregon
United States Geological Survey (USGS) Canby, Oregon 7.5 quadrangle, 2020
(viewer.nationalmap.gov/basic)

FIGURE



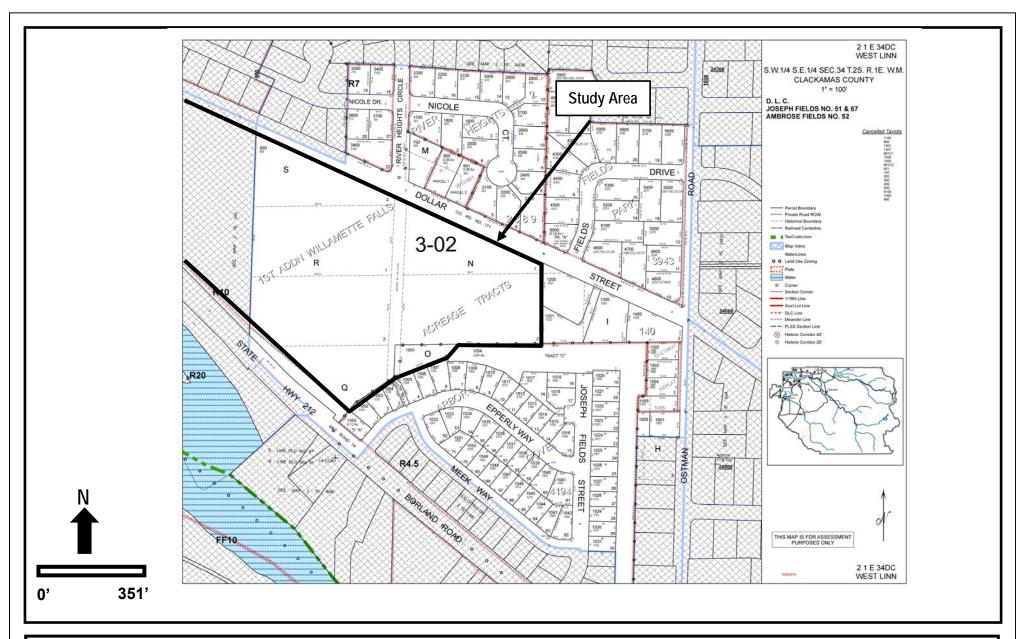


#6960 7/29/2020

Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070

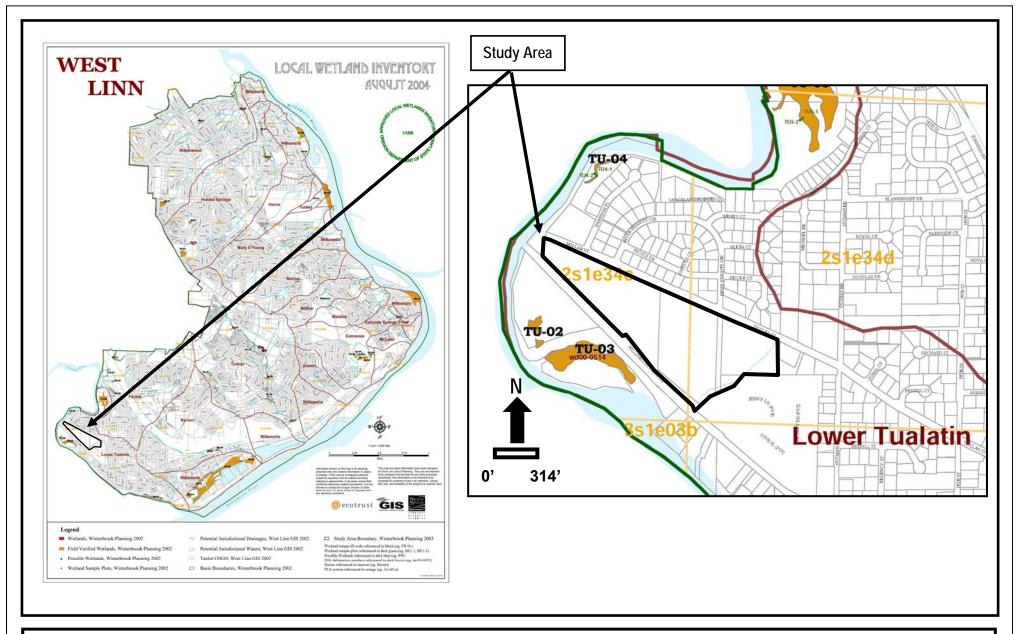
Tax Lot Map Dollar Street West Linn School Siting - West Linn, Oregon The Oregon Map (ormap.net)

FIGURE 2A





Tax Lot Map Dollar Street West Linn School Siting - West Linn, Oregon The Oregon Map (ormap.net) FIGURE 2B





LWI Dollar Street West Linn School Siting - West Linn, Oregon Winterbrook Planning, 2005 **FIGURE**



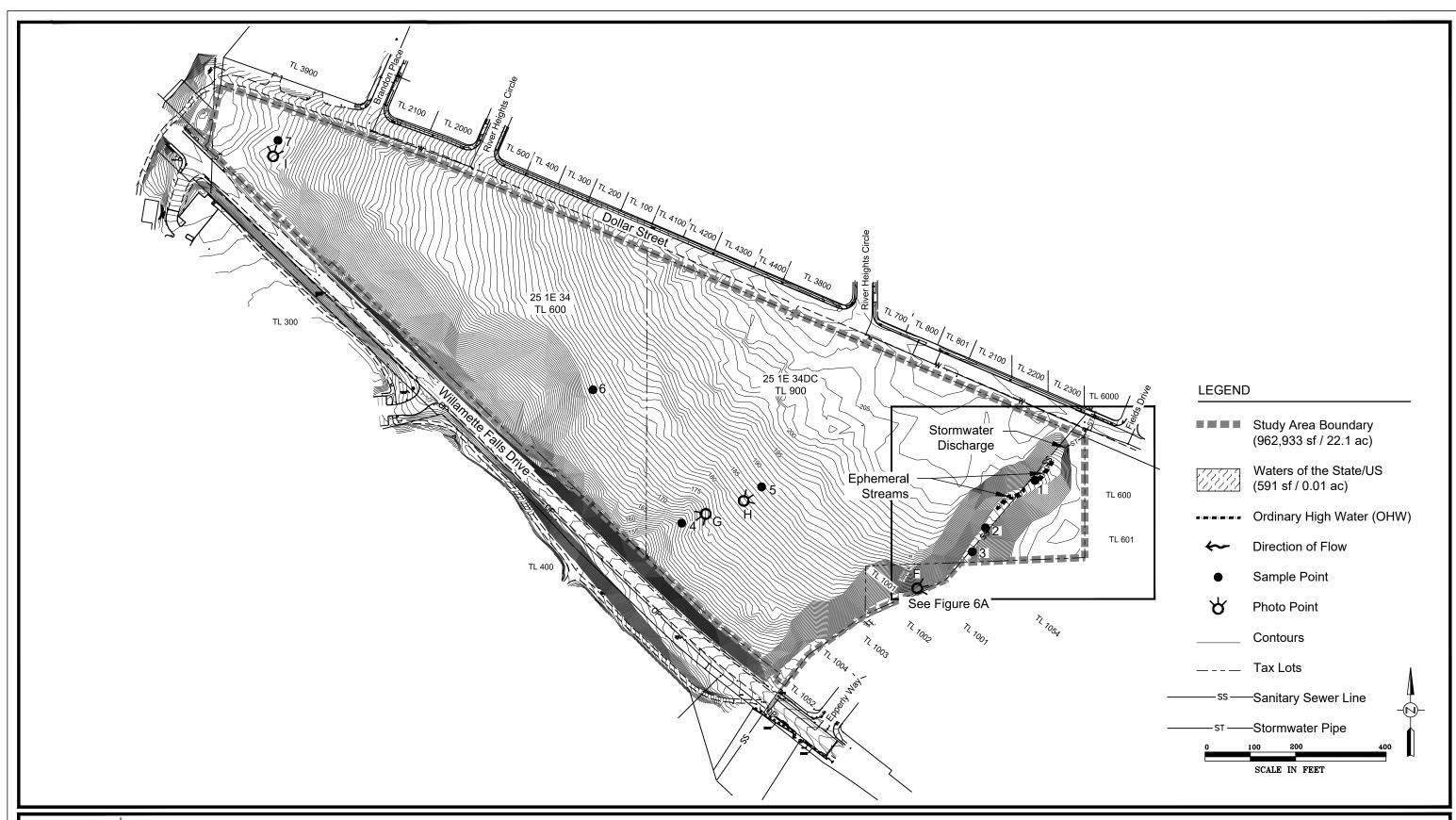


Soils Dollar Street West Linn School Siting - West Linn, Oregon Natural Resources Conservation Services, Web Soil Survey, 2020 (websoilsurvey.sc.egov.usda.gov) **FIGURE**





Aerial Photo Dollar Street West Linn School Siting - West Linn, Oregon GoogleEarth, 2020 FIGURE





Survey includes Study Area boundary, provided by Compass Land Surveying. Survey and Sample point accuracy is sub-centimeter.

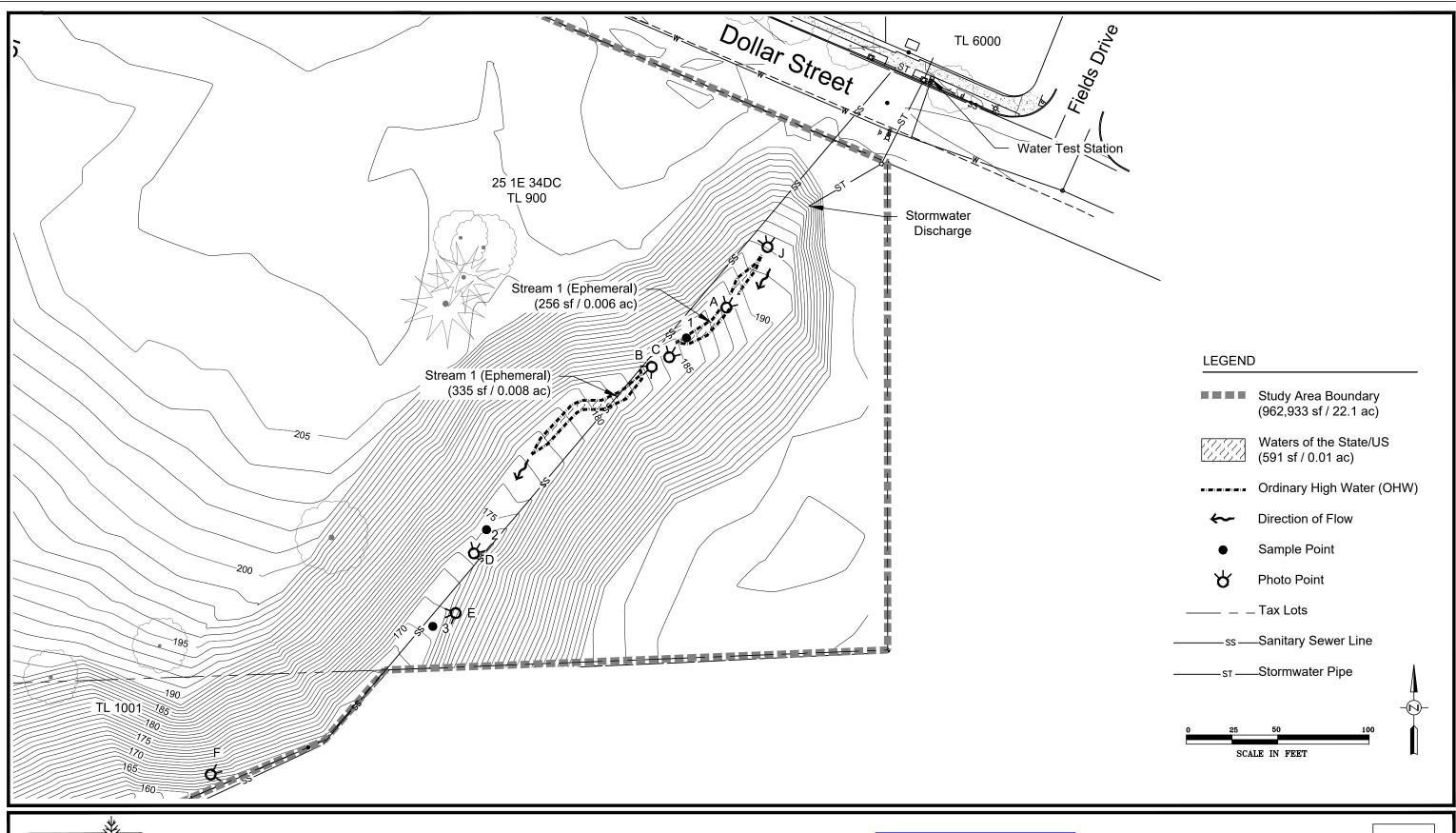
DSL WD # <u>2020-0622</u> Approval Issued <u>1/4/2021</u> Approval Expires <u>1/4/2026</u>

Wetland Delineation

Dollar Street - West Linn, Oregon



9-17-2020





Survey including Study Area boundary, provided by Compass Land Surveying. Survey and Sample point accuracy is sub-centimeter.

DSL WD # <u>2020-0622</u> Approval Issued <u>1/4/2021</u> Approval Expires <u>1/4/2026</u> Wetland Delineation

Dollar Street - West Linn, Oregon

FIGURE 6A

9-17-2020

Appendix B

Wetland Delineation Data Sheets



6960

Project/Site: Dollar Stre	eet	City/County:	West I	Linn/Clackamas	Sampling Da	ate:	6/11/2	2020
Applicant/Owner: West Linn/Wils	onville Schools			State:	OR	Samplin	g Point:	1
Investigator(s): JT/M	S	Section, To	wnship, Range:	Township 2 Sou	uth, Range 1 E	ast, Section	n 34 and	34DC
Landform (hillslope, terrace, etc.:)	Swale	-	Local relief (co	ncave, convex, none):	Concave	s Slo	ope (%):	5
Subregion (LRR):	RR A	Lat:	45.347	78 Long:	-122.6693	3	Datum:	WSG85
Soil Map Unit Name:	Villamette Silt Lo	_ am, Wet, 0-3%	Slopes	NWI Cla	assification:		_	
Are climatic/hydrologic conditions on the s	site typical for this tir	ne of year?	Yes	No	X (if no,	explain in Re	marks)	
Are vegetation Soil c	or Hydrology	significantly dist	urbed?	Are "Normal Circumstand	ces" present? (Y/	N)	Υ	
Are vegetation Soil c	or Hydrology			d, explain any answers in Re	emarks.)			
					,			
SUMMARY OF FINDINGS - A	tach site map	showing san	npling point	locations, transects	i, important fe	eatures, e	tc.	
Hydrophytic Vegetation Present? Yes	No	X	Is Sampled Ar	rea within				
Hydric Soil Present? Yes	No	X	a Wetlar			No	Х	
Wetland Hydrology Present? Yes	X No							
Remarks:								
Precipitation was below the avera considered below normal for the	-	anges for two	of the three m	nonths prior to field wo	ork; therefore h	nydrologica	al condit	ions were
VEGETATION - Use scientific	•		1 12 1	To				
	absolute % cover	Dominant Species?	Indicator Status	Dominance Test wor	'ksneet:			
Tree Stratum (plot size:)			Number of Dominant Spe	ecies			
1	<u> </u>			That are OBL, FACW, or	FAC:	1	(/	A)
2								
3				Total Number of Dominar	nt			
4				Species Across All Strata	ı:	4	(I	В)
	0	= Total Cover						
Sapling/Shrub Stratum (plot size: 1	15)			Percent of Dominant Spe	cies			
1 Rubus armeniacus	35	X	FAC	That are OBL, FACW, or	FAC:	25%	(/	A/B)
2 Rubus ursinus	10	X	FACU					
3 Prunus avium	5		FACU	Prevalence Index Wo	orksheet:			
4				Total % Cover of	Multip		•	
5	50	= Total Cover		OBL Species FACW species		1 =	0	
		- Total Cover		I ACW species	^	3 =		
				FAC Species	х		0	
Herb Stratum (plot size: 5)			FAC Species FACU Species		4 =	0	
Herb Stratum (plot size: 5 1 Geranium robertianum)	x	FACU		x			
) 5 1	x	FACU FACU	FACU Species	x	4 =	0	3)
1 Geranium robertianum		x		FACU Species UPL Species	x x	4 =	0	3)
1 Geranium robertianum 2 Convolvulus equitans 3		x		FACU Species UPL Species	0 (A)	4 =	0	3)
1 Geranium robertianum 2 Convolvulus equitans 3 4		x		FACU Species UPL Species Column Totals Prevalence Index =	0 (A)	4 = 5 = #DIV/0!	0	3)
1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6		x		FACU Species UPL Species Column Totals Prevalence Index =	0 (A)	4 = 5 = #DIV/0!	0 0 0 (E	
1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6 7		x		FACU Species UPL Species Column Totals Prevalence Index =	0 (A) B/A = tion Indicators: 1- Rapid Test for I	4 = 5 = #DIV/0!	0 0 0 (E	
1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6	1			FACU Species UPL Species Column Totals Prevalence Index =	0 (A)	4 =	0 0 0 (E	
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1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6 7 8	1			FACU Species UPL Species Column Totals Prevalence Index =	tion Indicators: 1- Rapid Test for I 2- Dominance Tes 3-Prevalence Inde	4 = 5 = #DIV/0! : Hydrophytic \(\) st is >50% ex is ≤ 3.0¹ Adaptations¹ (i)	0 0 (E	
1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6 7 8	1			FACU Species UPL Species Column Totals Prevalence Index =	0 (A) B/A = tion Indicators: 1- Rapid Test for I 2- Dominance Test 3-Prevalence Index 4-Morphological A	4 = 5 = #DIV/0! Hydrophytic V st is >50% ex is ≤ 3.0¹ kdaptations¹ (0 0 (E	
1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6 7 8	6	= Total Cover	FACU	FACU Species UPL Species Column Totals Prevalence Index =	tion Indicators: 1- Rapid Test for I 2- Dominance Tes 3-Prevalence Inde 4-Morphological A data in Remarks of 5- Wetland Non-V	4 = 5 = #DIV/0! Hydrophytic Vest is >50% ex is ≤ 3.0¹ Adaptations¹ (i) or on a separate ascular Plant tophytic Veget	0 0 (E	pporting
1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6 7 8 Woody Vine Stratum (plot size: 1 1 Hedera helix	6	= Total Cover	FACU	FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vegetat 1 Indicators of hydric soil a	tion Indicators: 1- Rapid Test for I 2- Dominance Tes 3-Prevalence Inde 4-Morphological A data in Remarks of 5- Wetland Non-V	4 = 5 = #DIV/0! Hydrophytic Vest is >50% ex is ≤ 3.0¹ Adaptations¹ (i) or on a separate ascular Plant tophytic Veget	0 0 (E	pporting
1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6 7 8 Woody Vine Stratum (plot size: 1 1 Hedera helix	1	= Total Cover	FACU	FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vegetat 1 Indicators of hydric soil adisturbed or problematic.	tion Indicators: 1- Rapid Test for I 2- Dominance Tes 3-Prevalence Inde 4-Morphological A data in Remarks of 5- Wetland Non-V	4 = 5 = #DIV/0! Hydrophytic Vest is >50% ex is ≤ 3.0¹ Adaptations¹ (i) or on a separate ascular Plant tophytic Veget	0 0 (E	pporting
1 Geranium robertianum 2 Convolvulus equitans 3 4 5 6 7 8 Woody Vine Stratum (plot size: 1 1 Hedera helix	1	= Total Cover	FACU	FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vegetat 1 Indicators of hydric soil a	tion Indicators: 1- Rapid Test for I 2- Dominance Tes 3-Prevalence Inde 4-Morphological A data in Remarks of 5- Wetland Non-V	4 = 5 = #DIV/0! Hydrophytic Vest is >50% ex is ≤ 3.0¹ kdaptations¹ (lor on a separa ascular Plant pophytic Veget logy must be	0 0 (E	pporting

			PHS #		6960			Sampling Point: 1
rofile Descr	iption: (Describe to t	he depth i	needed to do	cument the	indicator or co	nfirm the abser	nce of indicators.)	
Depth	Matrix				dox Features			
(Inches)	Color (moist)	%	Color (moi	st) %	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 3/3	100					Silt Loam	
9-16+	10YR 3/3	100					Silty Clay Loam	
Гуре: C=Con	centration, D=Depletion	on, RM=Re	duced Matrix	CS=Covere	d or Coated Sar	nd Grains.		² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Appli						Indica	ators for Problematic Hydric Soils ³ :
	Histosol (A1)				Sandy Redo	ox (S5)		2 cm Muck (A10)
	Histic Epipedon (A2)				Stripped Ma	trix (S6)		Red Parent Material (TF2)
	Black Histic (A3)			-	Loamy Muck	ky Mineral (F1) (e	except MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4)				ed Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	•	(11)		Depleted Ma			
	Thick Dark Surface (A	•	,		_ '	Surface (F6)		
	Sandy Mucky Mineral	•				ark Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix			-		ressions (F8)		hydrology must be present, unless disturbed or problematic.
	Layer (if present):			_		C3310113 (1 0)	ı	problematic.
epth (inche	s):						Hydric Soil Pres	sent? Yes NoX
Depth (inches	<u> </u>						Hydric Soil Pres	sent? Yes NoX
Depth (inchesternation)	OGY	6.					Hydric Soil Pres	sent? Yes NoX
epth (inchese emarks:	OGY drology Indicator						Hydric Soil Pres	
epth (inchesemarks: YDROLC Vetland Hy rimary Indi	OGY drology Indicator cators (minimum o		uired; check	all that app	• /	ad Lagyas (RO) (Secondary Indicators (2 or more required)
YDROLO etland Hy	OGY drology Indicator cators (minimum of Surface Water (A1)	f one requ	uired; check	all that app	Water staine	ed Leaves (B9) (d 4B)		
epth (inchesemarks: YDROLO /etland Hy rimary Indi	OGY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2)	f one requ	uired; check	all that app	Water staine	d 4B)		Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
epth (inchesemarks: YDROLC /etland Hy rimary Indi	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	f one requ	uired; check	all that app	Water staine 1, 2, 4A, and Salt Crust (E	d 4B) 311)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10)
YDROLC /etland Hy	ody drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	f one requ	uired; check	all that app	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve	d 4B) 311) ertebrates (B13)	Except MLRA	Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2)
epth (inchesemarks:	ody drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (E	f one requ	uired; check	all that app	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery
epth (inchesemarks: YDROLO /etland Hy rimary Indi X X	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	f one requ	uired; check	all that app	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh	d 4B) 311) ertebrates (B13) ulfide Odor (C1) sizospheres alon	Except MLRA g Living Roots (C3)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2)
YDROLO /etland Hy rimary Indi	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4	f one requ	uired; check	all that app	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of	d 4B) B11) ertebrates (B13) ulfide Odor (C1) sizospheres alon 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) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3)
IYDROLC Vetland Hy rimary Indi X X	DGY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	f one requ 2) 32) 4)	uired; check	all that app	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron	d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (C	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) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
epth (inchesemarks:	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4	f one requ 2) 32) 4) B6)		all that app	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S	d 4B) B11) ertebrates (B13) ulfide Odor (C1) sizospheres alon Reduced Iron (C	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) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3)
epth (inchesemarks:	Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (f one requests 2) 32) 4) B6) Aerial Imag	gery (B7)	all that app	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S	d 4B) B11) ertebrates (B13) ulfide Odor (C1) aizospheres alon Reduced Iron (C Reduction in Pla Stressed Plants (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) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
epth (inchesemarks: IYDROLC /etland Hy rimary Indi X X	DGY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated C	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7)	all that app	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S	d 4B) B11) ertebrates (B13) ulfide Odor (C1) aizospheres alon Reduced Iron (C Reduction in Pla Stressed Plants (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) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
epth (inchesemarks: YDROLC /etland Hy rimary Indi X X	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations:	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) ırface (B8)		Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) B11) ertebrates (B13) ulfide Odor (C1) aizospheres alon Reduced Iron (C Reduction in Pla Stressed Plants (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) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
epth (inchesemarks: IYDROLO /etland Hy rimary Indi X X X ield Obserurface Water	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) ırface (B8) No <u>X</u>	De	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) Battl) ertebrates (B13) ulfide Odor (C1) aizospheres alon Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks)	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
ield Obser urface Water Table P	Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) urface (B8) No X	De De	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) B11) ertebrates (B13) ulfide Odor (C1) aizospheres alon Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks)	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
AYDROLO Vetland Hy Primary Indi X X X Sield Obser surface Water Vater Table Prinaturation Pre	Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Teresent? Yes Exercise (A2)	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) ırface (B8) No <u>X</u>	De De	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) Battl) ertebrates (B13) ulfide Odor (C1) aizospheres alon Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks)	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
X X X Sield Obser Surface Water Table Percentage of the Control o	Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Teresent? Yes Exercise (A2)	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) urface (B8) No X No X No X	De _l	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres alon Freduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) >16 >16	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydi	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
ield Obser urface Water Vater Table P aturation Pre accludes capillar	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Co rvations: Present? Yes	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) urface (B8) No X No X No X	De _l	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres alon Freduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) >16 >16	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydi	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Pepth (inchest lemarks: HYDROLO Vetland Hy Primary Indi X X X X ield Obser urface Water Vater Table P aturation Pre- ncludes capillar	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Co rvations: Present? Yes	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) urface (B8) No X No X No X	De _l	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres alon Freduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) >16 >16	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydi	Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

6960

Project/Site:	Dollar Str	eet	City/County:	West I	inn/Clackamas	Sampling Date:	6/11/2	2020
Applicant/Owner:	West Linn/Wils	onville Schools			State:	OR	Sampling Point:	2
Investigator(s):	JT/N	IS	Section, To	wnship, Range:	Township 2 Sou	ith, Range 1 East,	Section 34 and	34DC
Landform (hillslope, t	errace, etc.:)	Swale	-	Local relief (co	ncave, convex, none):	Concave	Slope (%):	5
Subregion (LRR):	LF	RR A	Lat:	45.347	75 Long:	-122.6698	 Datum:	WSG85
Soil Map Unit Name:	v	Villamette Silt Loa	- am, Wet, 0-3%	Slopes		ssification:		
-		site typical for this tim		Yes	No	X (if no, exp	lain in Remarks)	
Are vegetation	Soil	or Hydrology	significantly dis	turbed?	Are "Normal Circumstand	es" present? (Y/N)	Y	
Are vegetation		or Hydrology			l, explain any answers in Re	marks.)		
<u> </u>		, s, <u> </u>	_		, 1	,		
SUMMARY OF	FINDINGS - A	ttach site map	showing san	npling point	locations, transects	, important feat	ures, etc.	
Hydrophytic Vegetati	on Present? Yes	No	X	Is Sampled Ar	oa within			
Hydric Soil Present?	Yes	No	X	a Wetlar	\ \		No X	
Wetland Hydrology P	Present? Yes	No	X					
Remarks:								
-		-	anges for two	of the three n	onths prior to field wo	rk; therefore hyd	rological condit	ions were
considered below	w normal for the	delineation.						
VEGETATION -	Use scientific	names of plant	s.		_			
		absolute	Dominant Species?	Indicator	Dominance Test wor	ksheet:		
Tree Stratum (plot	: size:	% cover	Species?	Status	Number of Dominant Spe	cies		
1					That are OBL, FACW, or		1 (,	A)
2							(7
3					Total Number of Dominan	t		
4					Species Across All Strata		4 (В)
		0	= Total Cover					
Sapling/Shrub Stratu	m (plot size:	15)			Percent of Dominant Spec	cies		
1 Ilex aquifoliui		40	X	FACU	That are OBL, FACW, or		25% (/	A/B)
2 Oemleria cera		30	X	FACU	, , ,		,	,
3 Rubus armen	iacus	10		FAC	Prevalence Index Wo	rksheet:		
4 Corylus cornu	uta	5		FACU	Total % Cover of	Multiply by	<u>/:</u>	
5 Rubus ursinu	ıs	5		FACU	OBL Species	x 1 =	0	
		90	= Total Cover		FACW species	x 2 =	0	
		,			FAC Species	x 3 =	0	
Herb Stratum (plot 1 Geranium rob	size: 5	⁾	X	FACU	FACU Species	x 4 =	0	
2 Hydrophyllun		10		FAC	UPL Species Column Totals	0 (A)		3)
, , , ,	rtenuipes				Column Totals	(^)	(رد
4					Prevalence Index =	3/A = #	DIV/0!	
5								
6					Hydrophytic Vegetat	ion Indicators:		
7						1- Rapid Test for Hydi	ophytic Vegetation	
8						2- Dominance Test is	>50%	
		30	= Total Cover			3-Prevalence Index is		
	(-1-4 -i-	,				4-Morphological Adap	**	pporting
Woody Vine Stratum	(plot size:)				data in Remarks or or		
						5- Wetland Non-Vasc		olain)
1		<u> </u>						
			- Tot-1 0		I. —	Problematic Hydrophy		•
1		0	= Total Cover		¹ Indicators of hydric soil a disturbed or problematic.			•
1			= Total Cover		¹ Indicators of hydric soil a disturbed or problematic. Hydrophytic	nd wetland hydrology		•
1	erb Stratum	70	= Total Cover		¹ Indicators of hydric soil a disturbed or problematic.			•

SOIL												
Profile Descript	otion: (Describe to t	he depth ne	eeded to	documer	nt the indic	ator or con	firm the abser	nce of indicators.)				
Depth	Matrix					Features		,				
(Inches)	Color (moist)	%	Color (r	moist)	%	Type ¹	Loc ²	Texture		Rema	rks	
0-16	7.5YR 3/3	100						Silt Loam				
Type: C=Conce	entration, D=Depletion	on, RM=Red	duced Ma	trix, CS=C	Covered or 0	Coated San	d Grains.		² Location: PL	=Pore Lining,	M=Matrix.	
Hydric Soil In	ndicators: (Appli	cable to a	III LRRs	, unless	otherwis	e noted.)		Indic	ators for Pro	blematic H	ydric Soils	³ :
Hi	listosol (A1)				s	andy Redox	(S5)			2 cm Muck (A	.10)	
Hi	listic Epipedon (A2)			-	S	tripped Matı	rix (S6)			Red Parent M	laterial (TF2)	
ВІ	slack Histic (A3)			-	L	oamy Muck	y Mineral (F1) (except MLRA 1)		Very Shallow		
	lydrogen Sulfide (A4)		-			d Matrix (F2)			Other (explain		
	Depleted Below Dark	•	14\	-	_					Otrici (explair	i ii rtomanto	,
	•	•	11)	-	-	epleted Mat						
	hick Dark Surface (A	•		-			Surface (F6)		3Indicators of	hydrophytic ve	egetation and	d wetland
	andy Mucky Mineral			-		•	k Surface (F7)			ust be present	t, unless dist	
Sa	andy Gleyed Matrix	(S4)			R	edox Depre	ssions (F8)			problema	tic.	
Depth (inches):	:							Hydric Soil Pre	sent? Yes		No	Х
Type: Depth (inches): Remarks:								Hydric Soil Pre	sent? Yes		_ No	Х
Depth (inches): Remarks: HYDROLOG	GY .							Hydric Soil Pre	sent? Yes		No	X
Depth (inches): Remarks: HYDROLOG Wetland Hydi	GY Irology Indicators							Hydric Soil Pre				
Depth (inches): Remarks: HYDROLOG Wetland Hydi	GY .		ired; che	eck all tha						Indicators (:		
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica	GY Irology Indicators		ired; che	eck all tha	V		d Leaves (B9) (Secondary	Water stained	2 or more r	equired)
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica	GY Irology Indicators ators (minimum of	f one requi	ired; che	eck all tha	V	/ater stained			Secondary		2 or more r	equired)
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica St	GY Irology Indicators ators (minimum of surface Water (A1)	f one requi	ired; che	eck all tha			4B)		Secondary	Water stained (MLRA1, 2, 4 Drainage Patt	2 or more r I Leaves (B9 IA, and 4B) eerns (B10)	equired)
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica Si Hi	GY Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2	f one requi	ired; che	eck all tha		, 2, 4A, and alt Crust (B	4B)		Secondary	Water stained (MLRA1, 2, 4	2 or more r I Leaves (B9 IA, and 4B) eerns (B10)	equired)
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica St Hi St	Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2 saturation (A3)	f one requi	ired; che	eck all tha	N 1, S A	alt Crust (Boquatic Inver	4B) 11)	Except MLRA	Secondary	Water stained (MLRA1, 2, 4 Drainage Patt	2 or more r Leaves (B9 IA, and 4B) erns (B10) Vater Table (equired))
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica St Hi St W	Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2 saturation (A3) Vater Marks (B1)	f one requi	ired; che	eck all tha	N 1, S A H	, 2, 4A, and alt Crust (B' quatic Inver ydrogen Su	4B) 11) tebrates (B13) lfide Odor (C1)	Except MLRA	Secondary	Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V	2 or more r I Leaves (B9 IA, and 4B) erns (B10) Vater Table (equired)) C2) al Imagery (
HYDROLOG Wetland Hydro Primary Indica Hi Si W	GY Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2 saturation (A3) Vater Marks (B1) sediment Deposits (B	f one requi	ired; che	eck all tha	W 1, S A H	, 2, 4A, and alt Crust (B' quatic Inver ydrogen Su xidized Rhi	4B) 11) tebrates (B13) lfide Odor (C1)	Except MLRA g Living Roots (C3)	Secondary	Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2)	equired)) C2) al Imagery (
HYDROLOG Wetland Hydi Primary Indica Hi Sa W Sa Al	ators (minimum of auface Water (A1) digh Water Table (A2 auturation (A3) Water Marks (B1) dediment Deposits (B3)	f one requi	ired; che	eck all tha	M 1, S A H O P R	alt Crust (B quatic Inver ydrogen Su xidized Rhiz resence of I ecent Iron F	4B) 11) tebrates (B13) Iffide Odor (C1) zospheres alon Reduced Iron (C	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary	Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T	2 or more r Leaves (B9 IA, and 4B) erns (B10) Vater Table (sible on Aeria Position (D2) ard (D3)	equired)) C2) al Imagery (
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica St Hi St W Se Di Al	Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2 saturation (A3) Vater Marks (B1) sediment Deposits (B3) ligal Mat or Crust (B4)	f one requi 2) 32) 4)	ired; che	eck all tha	M 1, S A H O P R	alt Crust (B quatic Inver ydrogen Su xidized Rhiz resence of I ecent Iron F	11) tebrates (B13) Iffide Odor (C1) zospheres alon Reduced Iron (C	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary	Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	2 or more r Leaves (B9 IA, and 4B) erns (B10) Vater Table (sible on Aeria Position (D2) ard (D3)	equired)) C2) al Imagery (
HYDROLOG Wetland Hydro Primary Indica Hi Sa Wetland Hi Sa Wetland Hi Sa Wetland Hi Sa Wetland Hi Sa Sa Sa	Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2 saturation (A3) Vater Marks (B1) sediment Deposits (B3) sigal Mat or Crust (B4 on Deposits (B5)	f one requi 2) 32) 4) B6)		eck all tha	W 1, S A H O P R S	alt Crust (Baratic Inversed and Crust (Baratic Inversed and Inversed a	4B) 11) tebrates (B13) Iffide Odor (C1) zospheres alon Reduced Iron (C	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary	Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) est (D5) ounds (D6) (equired)) C2) al Imagery (
HYDROLOG Wetland Hydro Primary Indica Hi Sa W Sa Dr Al Irc	ators (minimum of durface Water (A1) digh Water Table (A2) daturation (A3) Water Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (I	f one requi	ery (B7)	- - - - - -	W 1, S A H O P R S	alt Crust (Baratic Inversed and Crust (Baratic Inversed and Inversed a	4B) 11) tebrates (B13) lfide Odor (C1) zospheres alon Reduced Iron (C Reduction in Pla ressed Plants (Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary	Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) est (D5) ounds (D6) (equired)) C2) al Imagery (
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica St W Se Di Al Irc St In	ators (minimum of turface Water (A1) aligh Water Table (A2) atturation (A3) Water Marks (B1) aligh Toeposits (B3) aligh Toeposits (B3) aligh Toeposits (B5) aurface Soil Cracks (Inundation Visible on sparsely Vegetated C	f one requi	ery (B7)	- - - - - -	W 1, S A H O P R S	alt Crust (Baratic Inversed and Crust (Baratic Inversed and Inversed a	4B) 11) tebrates (B13) lfide Odor (C1) zospheres alon Reduced Iron (C Reduction in Pla ressed Plants (Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary	Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) est (D5) ounds (D6) (equired)) C2) al Imagery (
HYDROLOG Wetland Hydro Primary Indica Hi Sr W Sr In In	ators (minimum of aurface Water (A1) ligh Water Table (A2) atturation (A3) Water Marks (B1) are diment Deposits (B3) algal Mat or Crust (B4) on Deposits (B5) aurface Soil Cracks (Intundation Visible on apparsely Vegetated Carations:	f one requi	ery (B7)	- - - - - -	W 1, S A H O P R S	alt Crust (B quatic Inver ydrogen Su xidized Rhiz resence of I ecent Iron F tunted or St ther (Explai	4B) 11) tebrates (B13) lfide Odor (C1) zospheres alon Reduced Iron (C Reduction in Pla ressed Plants (Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary	Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) est (D5) ounds (D6) (equired)) C2) al Imagery (
Depth (inches): Remarks: HYDROLOG Wetland Hydi Primary Indica Si Hi Si In Si Field Observa Surface Water P	ators (minimum of surface Water (A1) ligh Water Table (A2) saturation (A3) Vater Marks (B1) sediment Deposits (B3) sligal Mat or Crust (B4) on Deposits (B5) surface Soil Cracks (Inundation Visible on sparsely Vegetated Co	f one requi	ery (B7) face (B8)	- - - - - - -	M 1, S A H O P R S O	alt Crust (Bequatic Inversed of Inversed of Items of Item	4B) 11) tebrates (B13) lfide Odor (C1) zospheres alon Reduced Iron (C Reduction in Pla ressed Plants (g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	Secondary	Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M Frost-Heave H	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) est (D5) ounds (D6) (equired)) C2) al Imagery (
Primary Indica State of the Inches of the In	ators (minimum of furface Water (A1) digh Water Table (A2) diaturation (A3) Water Marks (B1) diediment Deposits (B3) digal Mat or Crust (B4) furface Soil Cracks (Inundation Visible on Eparsely Vegetated Corations: Present? Yes eart? Yes eart? Yes	f one requi	ery (B7) face (B8)	- - - - - - - - -	M 1, S A H O O P R S O O Depth (iii	alt Crust (B' quatic Inversed of Inversed	4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alon Reduced Iron (C Reduction in Plo ressed Plants (I) in in Remarks)	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	Secondary	Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M Frost-Heave H	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) est (D5) ounds (D6) (equired)) C2) al Imagery (
Primary Indica Wetland Hydr Primary Indica Si Hi Si Si In Sr Field Observa Surface Water P Water Table Pre Saturation Prese [includes capillary for	ators (minimum of furface Water (A1) digh Water Table (A2) diaturation (A3) Water Marks (B1) diediment Deposits (B3) digal Mat or Crust (B4) furface Soil Cracks (Inundation Visible on Eparsely Vegetated Corations: Present? Yes eart? Yes eart? Yes	f one requi	ery (B7) face (B8) No No	x x x	Multiple Market	alt Crust (B quatic Inversed of I ecent Iron F tunted or St tunted (Explainments):	4B) 11) tebrates (B13) Iffide Odor (C1) zospheres alon Reduced Iron (CReduction in Plot ressed Plants (In in Remarks) >16 >16 >16	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary	Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M Frost-Heave H	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) Pest (D5) ounds (D6) (equired)) C2) al Imagery (LRR A) D7)
Primary Indica Wetland Hydr Primary Indica Si Hi Si Si In Sr Field Observa Surface Water P Water Table Pre Saturation Prese [includes capillary for	ators (minimum of surface Water (A1) ligh Water Table (A2) laturation (A3) Vater Marks (B1) lediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) surface Soil Cracks (Inundation Visible on Eparsely Vegetated Contact (Contact (B4) light (A1) light (A1) light (A2) light (A2) light (A3) li	f one requi	ery (B7) face (B8) No No	x x x	Multiple Market	alt Crust (B quatic Inversed of I ecent Iron F tunted or St tunted (Explainments):	4B) 11) tebrates (B13) Iffide Odor (C1) zospheres alon Reduced Iron (CReduction in Plot ressed Plants (In in Remarks) >16 >16 >16	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary	Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M Frost-Heave H	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) Pest (D5) ounds (D6) (equired)) C2) al Imagery (LRR A) D7)
Primary Indica Wetland Hydr Primary Indica Si Hi Si Si In Sr Field Observa Surface Water P Water Table Pre Saturation Prese [includes capillary for	ators (minimum of surface Water (A1) ligh Water Table (A2) laturation (A3) Vater Marks (B1) lediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) surface Soil Cracks (Inundation Visible on Eparsely Vegetated Contact (Contact (B4) light (A1) light (A1) light (A2) light (A2) light (A3) li	f one requi	ery (B7) face (B8) No No	x x x	Multiple Market	alt Crust (B quatic Inversed of I ecent Iron F tunted or St tunted (Explainments):	4B) 11) tebrates (B13) Iffide Odor (C1) zospheres alon Reduced Iron (CReduction in Plot ressed Plants (In in Remarks) >16 >16 >16	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary	Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M Frost-Heave H	2 or more r I Leaves (B9 IA, and 4B) Perns (B10) Vater Table (Sible on Aeria Position (D2) ard (D3) Pest (D5) ounds (D6) (equired)) C2) al Imagery (LRR A) D7)

6960

Project/Site:	Dollar Street		City/County:	West L	inn/Clackamas	Sampling Date:	6/11/	2020
Applicant/Owner:	West Linn/Wilson	ville Schools			State:	OR S	Sampling Point:	3
Investigator(s):	JT/MS		Section, To	wnship, Range:	Township 2 Sou	th, Range 1 East, S	Section 34 and	34DC
Landform (hillslope, ter	race, etc.:)	Swale	_	Local relief (cor	ncave, convex, none):	Concave	Slope (%):	5
Subregion (LRR):	LRR	A	Lat:	45.34738	932, Long:	-122.6699	Datum:	WSG85
Soil Map Unit Name:	Will	amette Silt Loa	- am, Wet, 0-3%	Slopes	NWI Clas	ssification:		
- Are climatic/hydrologic				Yes	No		in in Remarks)	
Are vegetation		ydrology	significantly dist	urbed?	Are "Normal Circumstanc		Y	
Are vegetation		ydrology	• •		, explain any answers in Re	. ,		
			- natarany proble	mano. Il nocaca	, explain any anomore in the	marrie.)		
SUMMARY OF FI	NDINGS - Atta	ch site map s	showing san	pling point	locations, transects,	important featu	res, etc.	
Hydrophytic Vegetation	Present? Yes	No.	X	Is Sampled Ar	oa within			
Hydric Soil Present?	Yes	No	X	a Wetlar	\ \	N	o X	
Wetland Hydrology Pre	sent? Yes	No	X					
Remarks: Precipitation was beconsidered below VEGETATION - U	normal for the del	ineation.		of the three m	onths prior to field wo	rk; therefore hydro	ological condi	tions were
		absolute	Dominant	Indicator	Dominance Test work	sheet:		
L		% cover	Species?	Status				
Tree Stratum (plot si	ze:)			Number of Dominant Spec		•	• >
1					That are OBL, FACW, or F	-AC:	2 (A)
3					Total Number of Dominan			
4					Species Across All Strata:		5 (В)
		0	= Total Cover			-		_,
Sapling/Shrub Stratum	(mlat sine) 15				Demonstrat Demoissant Cons	:		
1 Corylus cornuta	(plot size: 15	⁾ 35	X	FACU	Percent of Dominant Spec That are OBL, FACW, or		10% (A/B)
2 Rubus armenia		15		FAC	That are OBL, I ACVV, Or	A0	(Α(Β)
3					Prevalence Index Wo	rksheet:		
4	_				Total % Cover of	Multiply by:		
5					OBL Species	x 1 =	0	
		50	= Total Cover		FACW species	x 2 =	0	
	_	`			FAC Species	x 3 =	0	
Herb Stratum (plot si)	v	FACU	FACU Species	x 4 =		
1 Pteridium aquil		25 25	x	FACU	UPL Species Column Totals	x 5 =	0 (D)
3 Carex leptopod		20	X	FAC	Columni Totals	0 (A)	(В)
4 Geranium rober		5		FACU	Prevalence Index =E	3/A = #E	DIV/0!	
6					Hydrophytic Vegetati	on Indicators		
7						- Rapid Test for Hydro	phytic Vegetation	1
8						- Dominance Test is >	, ,	
	_	75	= Total Cover			s-Prevalence Index is ≤	3.0 ¹	
						-Morphological Adapta	tions¹ (provide su	upporting
Woody Vine Stratum	(plot size:)				lata in Remarks or on a		
1						- Wetland Non-Vascul		
2						Problematic Hydrophytic		
		0	= Total Cover		¹ Indicators of hydric soil and disturbed or problematic.	na wetland hydrology m	nust be present, u	iniess
	Stratum				Hydrophytic Vegetation	Yes	No	X
% Bare Ground in Herb					Present?			

Profile Descri Depth (Inches) 0-16	• •		PHS#	6960			Sampling Point: 3	
(Inches)		he depth i	needed to docum	ent the indicator or co	onfirm the abser	nce of indicators.)		
	Matrix			Redox Features	. 2	_		
0-16	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks	
	10YR 3/3	100				Silt Loam		
			- 					
_								
				·			_	
Type: C=Cond	centration, D=Depletion	on, RM=Re	educed Matrix, CS	-Covered or Coated Sa	nd Grains.		² Location: PL=Pore Lining, M=Matrix.	
lydric Soil	Indicators: (Appli	cable to	all LRRs, unles	s otherwise noted.	.)	Indic	ators for Problematic Hydric Soils ³ :	
1	Histosol (A1)			Sandy Red	ox (S5)		2 cm Muck (A10)	
	Histic Epipedon (A2)			Stripped Ma	atrix (S6)		Red Parent Material (TF2)	
	Black Histic (A3)			Loamy Muc	ky Mineral (F1)(e	except MLRA 1)	Very Shallow Dark Surface (TF	·12)
	Hydrogen Sulfide (A4	.)			ed Matrix (F2)	,	Other (explain in Remarks)	,
	Depleted Below Dark	•	(11)	Depleted M			Caror (oxplain in Nomana)	
	•	•			Surface (F6)			
	Thick Dark Surface (A	•			, ,		³ Indicators of hydrophytic vegetation and wet	tland
	Sandy Mucky Mineral				ark Surface (F7)		hydrology must be present, unless disturbed	
	Sandy Gleyed Matrix	(S4)		Redox Dep	ressions (F8)		problematic.	
lestrictive l	Layer (if present):	1			ļ			
Гуре:								
Depth (inches	s):				ļ	Hydric Soil Pres	sent? Yes No X	
HYDROLO								
_	drology Indicators		don do also also all A	h -4 h -)			O do modernito di controlo (O	:IX
•	cators (minimum of	one requ	uired; check all t	1.7/	ad Lagyes (DO) (Event MI DA	Secondary Indicators (2 or more requi	rea)
	Surface Water (A1)			1, 2, 4A, an	ed Leaves (B9) (I a d 4B)	EXCEPT WLKA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)	
	High Water Table (A2	.)						
	Saturation (A3)			Salt Crust (•		Drainage Patterns (B10)	
	Water Marks (B1)				ertebrates (B13)		Dry-Season Water Table (C2)	
	Sediment Deposits (B	.2)			Sulfide Odor (C1)		Saturation Visible on Aerial Ima	agery (
	Drift Deposits (B3)					g Living Roots (C3)	X Geomorphic Position (D2)	
	Algal Mat or Crust (B	1)		Presence of	f Reduced Iron (C	C4)	Shallow Aquitard (D3)	
	Iron Deposits (B5)				Reduction in Plo	` ,	Fac-Neutral Test (D5)	
i	Surface Soil Cracks (I	B6)		Stunted or S	Stressed Plants (I	D1) (LRR A)	Raised Ant Mounds (D6) (LRR	A)
	Inundation Visible on	Aerial Imag	gery (B7)	Other (Expl	ain in Remarks)		Frost-Heave Hummocks (D7)	
	Sparsely Vegetated C	Concave Su	urface (B8)					
	vations:		No X	Depth (inches):				
Field Obser			INU A	, ,/-				
Field Obsers	Present? Yes			Depth (inches):	>16	Wetland Hvd	rology Present?	
Field Obser Surface Water Water Table Pr Saturation Pres	Present? Yes Present? Yes Present? Yes Present? Yes		No X No X	Depth (inches): Depth (inches):	>16 >16	Wetland Hyd	rology Present? Yes NoX	
Field Observ Surface Water Water Table Pro Saturation Pres (includes capillary	Present? Yes present? Yes present? Yes present? Yes present? Yes present? Yes		No X	Depth (inches):	>16			<u> </u>
Field Observ Surface Water Water Table Pro Saturation Pres (includes capillary	Present? Yes present? Yes present? Yes present? Yes present? Yes present? Yes	uge, monit	No X		>16			
Field Observ Surface Water Water Table Pres Saturation Pres (includes capillary	Present? Yes present? Yes present? Yes present? Yes present? Yes present? Yes	luge, monit	No X	Depth (inches):	>16			
Field Observ Surface Water Water Table Pro Saturation Presincludes capillary	Present? Yes present? Yes present? Yes present? Yes present? Yes present? Yes	luge, monit	No X	Depth (inches):	>16			

6960

Project/Site: Dollar Stre	eet	City/County:	West I	inn/Clackamas	Sampling Date:	6/11/2020
Applicant/Owner: West Linn/Wils	onville Schools			State:	OR	Sampling Point: 4
Investigator(s): JT/M	S	Section, To	wnship, Range:	Township 2 Sou	th, Range 1 East,	, Section 34 and 34DC
Landform (hillslope, terrace, etc.:)	Swale	_	Local relief (co	ncave, convex, none):	Concave	Slope (%): 5
Subregion (LRR):	RR A	Lat:	45.347	78 Long:	-122.6729	Datum: WSG8
Soil Map Unit Name:	Woodburn Silt	– Loam 8-15% S	lopes	NWI Cla	ssification:	
Are climatic/hydrologic conditions on the			Yes	No	X (if no, exp	lain in Remarks)
	or Hydrology	significantly dist	urbed?	Are "Normal Circumstance	es" present? (Y/N)	Y
	or Hydrology			l, explain any answers in Re	, , ,	
				, explain any anomore in the		
SUMMARY OF FINDINGS - A	ttach site map	showing san	npling point	locations, transects	, important feat	ures, etc.
Hydrophytic Vegetation Present? Yes	No	X	la Campled As	a a within		
Hydric Soil Present? Yes	No	X	Is Sampled Ar	\ /		No X
Wetland Hydrology Present? Yes	No	Х		_		
Remarks:						
Precipitation was below the avera	ige and normal r	anges for two	of the three m	onths prior to field wo	rk; therefore hyd	rological conditions we
considered below normal for the	delineation.					
VEGETATION - Use scientific	names of plant	ts.				
	absolute	Dominant	Indicator	Dominance Test wor	ksheet:	
Tree Stratum (plot size:	% cover	Species?	Status	Number of Dominant Spe	cios	
1	_ ′			That are OBL, FACW, or I		2 (A)
2				That are OBL, I ACW, Or I	AC	(^)
3	_			Total Number of Dominan	t	
4				Species Across All Strata:		4 (B)
		= Total Cover				(
Sapling/Shrub Stratum (plot size: 1				Demonstrat Demoissant Const		
Sapling/Shrub Stratum (plot size: 1 Rubus armeniacus	60	x	FAC	Percent of Dominant Spec That are OBL, FACW, or		50% (A/B)
2 Corylus cornuta	20	X	FACU	That are OBL, FACW, Of		(A/B)
3			TAGO	Prevalence Index Wo	rksheet:	
4				Total % Cover of	Multiply by	v:
5	_			OBL Species	x 1 =	
	80	= Total Cover		FACW species	x 2 =	0
				FAC Species	x 3 =	0
Herb Stratum (plot size: 5)			FACU Species	x 4 =	0
1 Phalaris arundinacea	80	<u> </u>	FACW	UPL Species	x 5 =	
2 Callystegia sp	20	<u> </u>	(FAC)	Column Totals	0 (A)	0 (B)
3 Blechnum spicant	5		FAC			#DD #401
				Prevalence Index =	3/A = #	#DIV/0!
4						
5				Hydrophytic Vogetati	on Indicators	
5 6				Hydrophytic Vegetati		rophytic Vogotation
5 6 7					1- Rapid Test for Hyd	
5 6		= Total Cover				>50%
5 6 7	105	= Total Cover			I- Rapid Test for Hydi 2- Dominance Test is 3-Prevalence Index is	>50%
5 6 7		= Total Cover			I- Rapid Test for Hydi 2- Dominance Test is 3-Prevalence Index is	>50% < 3.0 ¹ stations ¹ (provide supporting
5 6 7 8		= Total Cover			I- Rapid Test for Hydi 2- Dominance Test is 3-Prevalence Index is 4-Morphological Adap	>50% s ≤ 3.0 ¹ etations ¹ (provide supporting in a separate sheet)
5 6 7 8 Woody Vine Stratum (plot size:	105	= Total Cover			I- Rapid Test for Hydi 2- Dominance Test is 3-Prevalence Index is 4-Morphological Adap data in Remarks or or 5- Wetland Non-Vasci	>50% s ≤ 3.0 ¹ etations ¹ (provide supporting in a separate sheet)
5 6 7 8 Woody Vine Stratum (plot size:	105	= Total Cover		Indicators of hydric soil a	1- Rapid Test for Hydi 2- Dominance Test is 3-Prevalence Index is 4-Morphological Adap data in Remarks or or 5- Wetland Non-Vasci Problematic Hydrophy	>50% < 3.0¹ otations¹ (provide supporting a separate sheet) ular Plants¹ ytic Vegetation¹ (Explain)
5 6 7 8 Woody Vine Stratum (plot size:)			Indicators of hydric soil a disturbed or problematic.	1- Rapid Test for Hydi 2- Dominance Test is 3-Prevalence Index is 4-Morphological Adap data in Remarks or or 5- Wetland Non-Vasci Problematic Hydrophy	>50% < 3.0¹ otations¹ (provide supporting a separate sheet) ular Plants¹ ytic Vegetation¹ (Explain)
5 6 7 8 Woody Vine Stratum (plot size:)			Indicators of hydric soil a	1- Rapid Test for Hydi 2- Dominance Test is 3-Prevalence Index is 4-Morphological Adap data in Remarks or or 5- Wetland Non-Vasci Problematic Hydrophy	>50% < 3.0¹ otations¹ (provide supporting a separate sheet) ular Plants¹ ytic Vegetation¹ (Explain)

			PHS#	696				Sampling Point: 4	
Profile Descri	iption: (Describe to t	he depth	needed to docum	ent the indic	ator or cor	nfirm the abse	nce of indicators.)		
Depth	Matrix				Features				
(Inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks	
0-16	10YR 3/2	100					Silty Clay Loam		
_									
								-	
				·					
				· —— -					
Type: C=Con	centration, D=Depletion	on RM=Re	educed Matrix CS:	=Covered or C	Coated San	nd Grains		² Location: PL=Pore Lining, M=Matrix.	
	Indicators: (Appli						Indica	ators for Problematic Hydric Soils ³ :	
-	Histosol (A1)		,		andy Redox			2 cm Muck (A10)	
					-				
	Histic Epipedon (A2)				tripped Mat			Red Parent Material (TF2)	
	Black Histic (A3)				-	y Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (Tr	-12)
	Hydrogen Sulfide (A4)		Lc	oamy Gleye	ed Matrix (F2)		Other (explain in Remarks)	
	Depleted Below Dark	Surface (A	(11)	D	epleted Ma	trix (F3)			
	Thick Dark Surface (A	A12)		R	edox Dark	Surface (F6)			
	Sandy Mucky Mineral	(S1)			epleted Da	rk Surface (F7)		³ Indicators of hydrophytic vegetation and we	
	Sandy Gleyed Matrix				•	essions (F8)		hydrology must be present, unless disturbe problematic.	d or
					edox Depie	53310113 (1 0)	ı	ргометнаце.	
Restrictive	Layer (if present):	:							
-									
ı ype:									
Depth (inche	s):						Hydric Soil Pres	sent? Yes NoX	· ·
Depth (inches							Hydric Soil Pres	sent? Yes NoX	
Depth (inchest Remarks: HYDROLO Wetland Hy	OGY drology Indicators						Hydric Soil Pres		
Depth (inchese Remarks: HYDROLO Wetland Hy Primary Indi	OGY rdrology Indicators cators (minimum of		uired; check all t	,				Secondary Indicators (2 or more requ	
Depth (inches Remarks: HYDROLO Wetland Hy Primary Indi	OGY rdrology Indicators cators (minimum of Surface Water (A1)	f one requ	uired; check all t	W		d Leaves (B9) (Secondary Indicators (2 or more requ Water stained Leaves (B9)	
Depth (inchest Remarks: HYDROLO Wetland Hy Primary Indi	OGY rdrology Indicators cators (minimum of Surface Water (A1) High Water Table (A2	f one requ	uired; check all t	W	2, 4A, and	d 4B)		Secondary Indicators (2 or more requ Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)	
Primary Indi	OGY rdrology Indicators cators (minimum of Surface Water (A1)	f one requ	uired; check all t	W		d 4B)		Secondary Indicators (2 or more requ Water stained Leaves (B9)	
Pepth (inchest Pepth (inchest Pepth (inchest Pepth Pep	OGY rdrology Indicators cators (minimum of Surface Water (A1) High Water Table (A2	f one requ	uired; check all t	W 1, Sa	, 2, 4A, and alt Crust (B	d 4B)		Secondary Indicators (2 or more requ Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)	
Depth (inchese Remarks: HYDROLO Wetland Hy Primary Indi	ody drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3)	f one requ	uired; check all t		, 2, 4A, and alt Crust (B) quatic Inve	d 4B) 311)	Except MLRA	Secondary Indicators (2 or more requestreated Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)	ired)
Depth (inchese Remarks: HYDROLO Wetland Hy Primary Indi	ogy rdrology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	f one requ	uired; check all t	W 1, Sa	, 2, 4A , and alt Crust (B quatic Invel ydrogen Su	d 4B) 311) rtebrates (B13) ulfide Odor (C1)	Except MLRA	Secondary Indicators (2 or more requestated Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)	ired)
Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	f one requ	uired; check all t		alt Crust (B quatic Inverydrogen Su xidized Rhi	d 4B) 311) rtebrates (B13) ulfide Odor (C1)	Except MLRA g Living Roots (C3)	Secondary Indicators (2 or more requivater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im	ired)
Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	f one requ	uired; check all t	W 1, Si Ad Hy	alt Crust (B quatic Inver ydrogen Su xidized Rhi resence of	at 4B) In the state of the sta	Except MLRA g Living Roots (C3) C4)	Secondary Indicators (2 or more requestions) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2)	ired)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	f one request. 2) 32)	uired; check all t	W 1, Si Ai	alt Crust (B quatic Inver ydrogen Su xidized Rhi resence of ecent Iron I	at 4B) Interpreted (B13) Inter	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more requestation water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3)	ired)
HYDROLC Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	f one requests: (2) (32) (4) (B6)			alt Crust (B quatic Invel ydrogen Su xidized Rhi resence of ecent Iron I tunted or S	1 4B) In the state (B13) In the	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more requivater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)	ired)
HYDROLO Vetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I	f one requests 2) 32) 4) B6) Aerial Ima	gery (B7)		alt Crust (B quatic Invel ydrogen Su xidized Rhi resence of ecent Iron I tunted or S	t 4B) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (Reduction in Plo	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more requestion water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	ired)
Depth (inchese Remarks: HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C	f one requests 2) 32) 4) B6) Aerial Ima	gery (B7)		alt Crust (B quatic Invel ydrogen Su xidized Rhi resence of ecent Iron I tunted or S	t 4B) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (Reduction in Plo	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more requestion water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	ired)
Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C	f one requests 2) 32) 4) B6) Aerial Ima	gery (B7) urface (B8)	W 1, Si Ai	alt Crust (B quatic Inver ydrogen Su xidized Rhi resence of ecent Iron I tunted or Si ther (Expla	t 4B) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (Reduction in Plo	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more requestion water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	ired)
Primary Indi Field Obser Surface Water	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations:	f one requests 2) 32) 4) B6) Aerial Ima	gery (B7) urface (B8) No <u>X</u>	W 1, 1, Sa Ad Ht O Pr Rd St O Depth (ir	alt Crust (B quatic Inver ydrogen Su xidized Rhi resence of ecent Iron I tunted or Si ther (Expla	t 4B) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Plot tressed Plants (i in in Remarks)	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more requivater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR Frost-Heave Hummocks (D7)	ired)
Primary Indi Field Obser Surface Water Water Table P	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (II Inundation Visible on Sparsely Vegetated Covations: Teresent? Yes	f one requests 2) 32) 4) B6) Aerial Ima	gery (B7) urface (B8) No X No X	W 1, Sa Ad Hy O: Pr Ri St O: Depth (ir	alt Crust (B quatic Inver ydrogen Su xidized Rhi resence of ecent Iron I tunted or Si ther (Expla	at 4B) state (B13) ulfide Odor (C1) izospheres alon Reduced Iron (C1) Reduction in Plot tressed Plants (C1) in in Remarks)	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more requivater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR Frost-Heave Hummocks (D7)	agery (
Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (II Inundation Visible on Sparsely Vegetated Covations: Teresent? Yes esent? Yes	f one requests 2) 32) 4) B6) Aerial Ima	gery (B7) urface (B8) No <u>X</u>	W 1, 1, Sa Ad Ht O Pr Rd St O Depth (ir	alt Crust (B quatic Inver ydrogen Su xidized Rhi resence of ecent Iron I tunted or Si ther (Expla	t 4B) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Plot tressed Plants (i in in Remarks)	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more requivater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR Frost-Heave Hummocks (D7)	agery (
Primary Indi Field Obser Surface Water Water Table P Saturation Pre includes capillar	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (II Inundation Visible on Sparsely Vegetated Covations: Teresent? Yes esent? Yes	f one requests (2) (32) (4) (B6) (Aerial Imaconcave Su	gery (B7) urface (B8) No X No X No X	W 1, Si Ai Ai Pi Ri Co Depth (ir Depth (ir	alt Crust (B quatic Inversement of tunted or Standard (Explanation): and the control of the control of tunted or Standard (Explanation): and the control of the control of tunted or Standard (Explanation): and tunted or Standard (Explanation): and the control of tunted or Standard (Explanation): and the control o	at 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Plattressed Plants (i in in Remarks) >16 >16 >16	g Living Roots (C3) C4) Dived Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more requivater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR Frost-Heave Hummocks (D7)	agery (
Primary Indi Field Obser Surface Water Water Table P Saturation Pre includes capillar	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Ir Present? Yes	f one requests (2) (32) (4) (B6) (Aerial Imaconcave Su	gery (B7) urface (B8) No X No X No X	W 1, Si Ai Ai Pi Ri Co Depth (ir Depth (ir	alt Crust (B quatic Inversement of tunted or Standard (Explanation): and the control of the control of tunted or Standard (Explanation): and the control of the control of tunted or Standard (Explanation): and tunted or Standard (Explanation): and the control of tunted or Standard (Explanation): and the control o	at 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Plattressed Plants (i in in Remarks) >16 >16 >16	g Living Roots (C3) C4) Dived Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more requivater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR Frost-Heave Hummocks (D7)	agery (
Primary Indi Field Obser Surface Water Water Table P Saturation Pre includes capillar	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Ir Present? Yes	f one requests (2) (32) (4) (B6) (Aerial Imaconcave Su	gery (B7) urface (B8) No X No X No X	W 1, Si Ai Ai Pi Ri Co Depth (ir Depth (ir	alt Crust (B quatic Inversement of tunted or Standard (Explanation): and the control of the control of tunted or Standard (Explanation): and the control of the control of tunted or Standard (Explanation): and tunted or Standard (Explanation): and the control of tunted or Standard (Explanation): and the control o	at 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Plattressed Plants (i in in Remarks) >16 >16 >16	g Living Roots (C3) C4) Dived Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more requivater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Im Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR Frost-Heave Hummocks (D7)	agery (

6960

Project/Site: Dollar Street		City/County:	West	Linn/Clackamas	Sampling Date:	6/11/2	2020
Applicant/Owner: West Linn/Wilsonv	ille Schools			State:	OR	Sampling Point:	5
Investigator(s): JT/MS		Section, To	wnship, Range:	Township 2 Sout	h, Range 1 East,	Section 34 and	34DC
Landform (hillslope, terrace, etc.:)	Terrace	_	Local relief (co	ncave, convex, none):	None	Slope (%):	5
Subregion (LRR):	1	Lat:	45.34791	1338, Long:	-122.6720	Datum:	WSG85
Soil Map Unit Name: Willa	mette Silt Loa	am, Wet, 0-3%	Slopes	NWI Class	sification:	_	
Are climatic/hydrologic conditions on the site	ypical for this tim	e of year?	Yes	No	X (if no, expla	ain in Remarks)	
Are vegetation Soil or Hy	drology	significantly dist	urbed?	Are "Normal Circumstance	s" present? (Y/N)	Υ	
Are vegetation Soil or Hy		•		d, explain any answers in Ren	narks.)		
<u> </u>		•			•		
SUMMARY OF FINDINGS – Attac	h site map s	showing san	npling point	locations, transects,	important featu	ires, etc.	
Hydrophytic Vegetation Present? Yes	No No	X	Is Sampled A	rea within			
Hydric Soil Present? Yes	No No	X	a Wetla	\ /		No X	
Wetland Hydrology Present? Yes	No	X					
Remarks:							
Precipitation was below the average considered below normal for the deli		inges for two	of the three n	nonths prior to field wor	k; therefore hydr	ological condit	ions were
VEGETATION - Use scientific nar	•		lm all a a 4	Dominous Tratical	ah aati		
	absolute % cover	Dominant Species?	Indicator Status	Dominance Test work	sneet:		
Tree Stratum (plot size: 30				Number of Dominant Speci	es		
1 Pseudotsuga menziesii	100	X	FACU	That are OBL, FACW, or FA	AC:	2 (/	۹)
2							
3				Total Number of Dominant			
4				Species Across All Strata:		<u>6</u> (I	3)
	100	= Total Cover					
Sapling/Shrub Stratum (plot size: 15	_)			Percent of Dominant Specie	es		
1 Sambucus racemosa	15	X	FACU	That are OBL, FACW, or F	AC:	33% (/	4/B)
2 Frangula pershiana	5	<u>X</u>	FAC				
3 Rubus armeniacus	5	X	FAC	Prevalence Index Wor			
5				Total % Cover of	Multiply by: x 1 =	<u>: </u>	
<u> </u>	25	= Total Cover		OBL Species FACW species	x 2 =	0	
		- Total Gover		FAC Species	x 3 =	0	
Herb Stratum (plot size: 5				FACU Species	x 4 =	0	
1 Polystichum munitum	60	X	FACU	UPL Species	x 5 =	0	
2				Column Totals	0 (A)	(E	3)
3							
4				Prevalence Index =B/	A = #	DIV/0!	
5				Lively and visio Verentesis	an Indiantoro		
6				Hydrophytic Vegetation	on Indicators: Rapid Test for Hydro	nhytic Vegetation	
					· Dominance Test is >	. , .	
8							
	60	= Total Cover			Prevalence Index is	≤ 3.0 ¹	
	60	= Total Cover		3-	Prevalence Index is a Morphological Adapt		pporting
8 Woody Vine Stratum (plot size: 15)			3- 4- da	Morphological Adapt ata in Remarks or on	ations ¹ (provide su a separate sheet)	pporting
8 Woody Vine Stratum (plot size: 15 1 Hedera helix	60 _) 	= Total Cover	FACU	3- 4- da 5-	Morphological Adapt ata in Remarks or on Wetland Non-Vascu	ations ¹ (provide su a separate sheet) lar Plants ¹	-
8 Woody Vine Stratum (plot size: 15	30	x	FACU	3- 4- da 5-	Morphological Adapt ata in Remarks or on Wetland Non-Vascu roblematic Hydrophyt	ations ¹ (provide su a separate sheet) lar Plants ¹ ic Vegetation ¹ (Exp	olain)
8 Woody Vine Stratum (plot size: 15 1 Hedera helix)		FACU	3- 4- 5- Pl Indicators of hydric soil and	Morphological Adapt ata in Remarks or on Wetland Non-Vascu roblematic Hydrophyt	ations ¹ (provide su a separate sheet) lar Plants ¹ ic Vegetation ¹ (Exp	olain)
8 Woody Vine Stratum (plot size: 15 1 Hedera helix	30	x	FACU	3- 4- da 5-	Morphological Adapt ata in Remarks or on Wetland Non-Vascu roblematic Hydrophyt	ations ¹ (provide su a separate sheet) lar Plants ¹ ic Vegetation ¹ (Exp	olain)
8 Woody Vine Stratum (plot size: 15 1 Hedera helix	30	x	FACU	3- 4- 5- Pi Indicators of hydric soil and disturbed or problematic.	Morphological Adapt ata in Remarks or on Wetland Non-Vascu roblematic Hydrophyt	ations ¹ (provide su a separate sheet) lar Plants ¹ ic Vegetation ¹ (Exp	olain)

SOIL			PHS#	6960			Sampling Point: 5
		he depth i	needed to docu		or or confirm the abser	nce of indicators.)	
Depth	Matrix			Redox Fe		_	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹ Loc ²	Texture	Remarks
0-16	10YR 3/4	100				Silt Loam	
							·
Type: C=Con	centration, D=Depletion	on, RM=Re	educed Matrix, C	S=Covered or Co	ated Sand Grains.		² Location: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators: (Appli	cable to	all LRRs, unle	ess otherwise	noted.)	Indic	cators for Problematic Hydric Soils ³ :
	Histosol (A1)			San	dy Redox (S5)		2 cm Muck (A10)
	Histic Epipedon (A2)			Strip	oped Matrix (S6)		Red Parent Material (TF2)
	Black Histic (A3)				my Mucky Mineral (F1)(except MLRA 1)	Very Shallow Dark Surface (TF12
	Hydrogen Sulfide (A4)			my Gleyed Matrix (F2)	•	Other (explain in Remarks)
	Depleted Below Dark	•	.11)		eleted Matrix (F3)		
	Thick Dark Surface (A	•	,		lox Dark Surface (F6)		
	•	•			eleted Dark Surface (F7)		³ Indicators of hydrophytic vegetation and wetlan
	Sandy Mucky Mineral						hydrology must be present, unless disturbed or
	Sandy Gleyed Matrix	(54)		Red	lox Depressions (F8)		problematic.
Depth (inches	s):					Hydric Soil Pre	sent? Yes No X
Type: Depth (inches Remarks:	<u> </u>					Hydric Soil Pre	sent? Yes NoX
Depth (inches	<u> </u>	s:				Hydric Soil Pre	sent? Yes NoX
Depth (inches Remarks: HYDROLO Wetland Hy	OGY		uired; check all	that apply)		Hydric Soil Pre	Secondary Indicators (2 or more required
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	OGY drology Indicator		uired; check all		er stained Leaves (B9) (
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	OGY drology Indicator cators (minimum of	f one requ	uired; check all	Wat	ter stained Leaves (B9) (, 4A , and 4B)		Secondary Indicators (2 or more required
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	OGY drology Indicators cators (minimum of Surface Water (A1)	f one requ	uired; check all	Wate			Secondary Indicators (2 or more required Water stained Leaves (B9)
Primary India	OGY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2)	f one requ	uired; check all	Wate 1, 2, Salt	, 4A, and 4B)		Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3)	f one requ	uired; check all	Wate 1, 2, Salt	, 4A , and 4B) Crust (B11)	Except MLRA	Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	ody drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	f one requ	uired; check all	Wate 1, 2, Salt Aqui	, 4A, and 4B) Crust (B11) atic Invertebrates (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) Saturation Visible on Aerial Image
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	f one requ	uired; check all	Wate 1, 2, Salt Aqui Hydi Oxic	, 4A, and 4B) Crust (B11) atic Invertebrates (B13) lrogen Sulfide Odor (C1)	Except MLRA g Living Roots (C3)	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 Image
Primary India	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	f one requ	uired; check all	Wate 1, 2, Salt Aque Hyde Oxice Pres	, 4A, and 4B) Crust (B11) latic Invertebrates (B13) lrogen Sulfide Odor (C1) dized Rhizospheres alon	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 Image Geomorphic Position (D2)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4	f one requ 2) 32) 4)	uired; check all	Wate 1, 2, Salt Aque Hyde Oxic Pres	, 4A, and 4B) Crust (B11) Latic Invertebrates (B13) Lorogen Sulfide Odor (C1) Lorized Rhizospheres alon Lorogence of Reduced Iron (C	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 Image Geomorphic Position (D2) Shallow Aquitard (D3)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	f one requ 2) 32) 4) B6)		Wate 1, 2, Salt Aqui Hydi Oxic Pres Reco	, 4A, and 4B) Crust (B11) atic Invertebrates (B13) Irogen Sulfide Odor (C1) dized Rhizospheres alon sence of Reduced Iron (Country)	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7)	Wate 1, 2, Salt Aqui Hydi Oxic Pres Reco	, 4A, and 4B) Crust (B11) atic Invertebrates (B13) lrogen Sulfide Odor (C1) dized Rhizospheres alon sence of Reduced Iron (Content Iron Reduction in Planted or Stressed Plants (Content Iron Research Iron (Content Iron Iron Iron Iron Iron Iron Iron Iron	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7)	Wate 1, 2, Salt Aqui Hydi Oxic Pres Reco	, 4A, and 4B) Crust (B11) atic Invertebrates (B13) lrogen Sulfide Odor (C1) dized Rhizospheres alon sence of Reduced Iron (Content Iron Reduction in Planted or Stressed Plants (Content Iron Research Iron (Content Iron Iron Iron Iron Iron Iron Iron Iron	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary Indicates Field Obser	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Covations:	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) ırface (B8)	Wate 1, 2, Salt Aqua Hydi Oxic Pres Recc Stur Othe	A, 4A, and 4B) Crust (B11) Inatic Invertebrates (B13) Irrogen Sulfide Odor (C1) Idized Rhizospheres alon Issence of Reduced Iron (Content Iron Reduction in Planted or Stressed Plants (Iron (Explain in Remarks)	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary India Field Obser Surface Water	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations:	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) ırface (B8) No X	Wate 1, 2, Salt Aque Hyde Oxic Pres Reco Stur Othe	A, 4A, and 4B) Crust (B11) Latic Invertebrates (B13) Lorgen Sulfide Odor (C1) Lordized Rhizospheres alon Lorence of Reduced Iron (Content Iron Reduction in Planted or Stressed Plants (Lorence (Explain in Remarks) Lorence (Explain in Remarks)	g Living Roots (C3) C4) owed 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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Field Obser Surface Water Water Table P Saturation Pre	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes esent? Yes	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) ırface (B8)	Wate 1, 2, Salt Aqua Hydi Oxic Pres Recc Stur Othe	AA, and 4B) Crust (B11) Latic Invertebrates (B13) Lorogen Sulfide Odor (C1) Loridized Rhizospheres alon Sence of Reduced Iron (Content Iron Reduction in Planted or Stressed Plants (Loren (Explain in Remarks) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks))	g Living Roots (C3) C4) owed 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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary India Field Obser Surface Water Water Table P Saturation Pre includes capillar	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) Irface (B8) No	Wate 1, 2, Salt Aque Hyde Oxic Pres Recc Stur Othe Depth (inch Depth (inch	AA, and 4B) Crust (B11) Inatic Invertebrates (B13) Irrogen Sulfide Odor (C1) Idized Rhizospheres alon Issence of Reduced Iron (Content Iron Reduction in Planted or Stressed Plants (Item (Explain in Remarks) Item (Explain in Re	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Field Obser Surface Water Water Table P Saturation Pre includes capillar	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) Irface (B8) No	Wate 1, 2, Salt Aque Hyde Oxic Pres Recc Stur Othe Depth (inch	AA, and 4B) Crust (B11) Latic Invertebrates (B13) Lorogen Sulfide Odor (C1) Loridized Rhizospheres alon Sence of Reduced Iron (Content Iron Reduction in Planted or Stressed Plants (Loren (Explain in Remarks) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks)) The content is the content in Remarks (Loren (Explain in Remarks))	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Field Obser Surface Water Water Table P Saturation Pre includes capillar	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) Irface (B8) No	Wate 1, 2, Salt Aque Hyde Oxic Pres Recc Stur Othe Depth (inch	AA, and 4B) Crust (B11) Inatic Invertebrates (B13) Irrogen Sulfide Odor (C1) Idized Rhizospheres alon Issence of Reduced Iron (Content Iron Reduction in Planted or Stressed Plants (Item (Explain in Remarks) Item (Explain in Re	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

6960

Project/Site: Dollar Street				West Linn/Clackamas		Sampling Date	: 6/1	6/11/2020	
West Linn/	Wilsonvi	lle Schools			State:	OR	Sampling Point:	6	
	JT/MS		Section, To	wnship, Range:	Township 2 So	uth, Range 1 Eas	t, Section 34 ar	nd 34DC	
terrace, etc.:)		Terrace		Local relief (cor	ncave, convex, none):	Convex	Slope (%):	1	
	LRR A		Lat:	45.349	Long:	-122.6742	 Datum:	WSG85	
	Willar	nette Silt Loa	ım, Wet, 0-3%	Slopes	NWI Cla	assification:			
jic conditions or				Yes	No	X (if no, e)	plain in Remarks)		
•	_	•	-	turbed?	Are "Normal Circumstan	,			
	-		• -			, , ,			
			naturally proble	maio. Il nocaca	, explain any anowere in the	omarko.)			
FINDINGS -	- Attac	h site map s	showing san	npling point	locations, transects	s, important fea	tures, etc.		
ion Present?	Yes	No	X						
	Yes	No	X		\ /		No X	_	
Present?	Yes	No	X					-	
s below the a	average a	and normal ra	inges for two	of the three m	onths prior to field w	ork; therefore hy	drological cond	litions were	
w normal for	the delin	neation.							
· Use scient	tific nam	nes of plants	S.						
		absolute	Dominant	Indicator	Dominance Test wo	rksheet:			
	30 \	% cover	Species?	Status					
		20	v	(EACU)	•		•	(4)	
deciduous tr	ee				That are OBL, FACW, or	FAC:	<u> </u>	(A)	
ıla					Total Number of Demina	at .			
ııa				FACO			7	(B)	
		45	= Total Cover		Opecies Across Air Otrate		•	(0)	
			- Total Govel						
	15	_)	v		· ·		100/	(4/5)	
nacus		30	X	FAC	That are OBL, FACW, or		43%	(A/B)	
					Provalence Index W	orkshoot:			
							hv:		
		30	= Total Cover		· ·			•	
					FAC Species				
t size:	5)				FACU Species	x 4	= 0		
munitum		30	X	FACU	UPL Species	x 5	= 0	•	
s		20	X	FAC	Column Totals	0 (A)	0	(B)	
iatum		10							
oda		10		FAC	Prevalence Index =	:B/A =	#DIV/0!	•	
						,	. , .	on	
		70	= Total Cavar		-				
			- Total Covel					supporting	
(plot size:	15)					. "		
		20	X	FACU		5- Wetland Non-Vas	cular Plants ¹		
						Problematic Hydrop	hytic Vegetation ¹ (E	Explain)	
		20	= Total Cover		¹ Indicators of hydric soil a	and wetland hydrolog	y must be present,	unless	
					disturbed or problematic.				
erb Stratum					Hydrophytic Vegetation	Yes	No	X	
	terrace, etc.:) terrace, etc.:) gic conditions or Soil Soil FINDINGS ion Present? s below the aw normal for Use scient t size: deciduous traila im (plot size niacus t size: munitum s iiatum oda	West Linn/Wilsonvi JT/MS terrace, etc.:) LRR A Willar gic conditions on the site by Soil or Hyd Soil or Hyd Soil or Hyd FINDINGS - Attact ion Present? Yes Yes Present? Yes Willar Use scientific name t size: 30) deciduous tree It size: 15 Iniacus t size: 5) Iniacus t size: 5) Iniacus	West Linn/Wilsonville Schools JT/MS terrace, etc.:) LRR A Willamette Silt Loa gic conditions on the site typical for this time Soil or Hydrology Soil or Hydrology FINDINGS - Attach site map site ion Present? Yes No Yes No Present? Yes No Se below the average and normal raw normal for the delineation. Use scientific names of plants with a size: 30) deciduous tree 30 India 5 India 5 India 5 India 5 India 5 India 10 India 30 India 3	West Linn/Wilsonville Schools JT/MS Section, To terrace, etc.:) Terrace LRR A Lat: Willamette Silt Loam, Wet, 0-3% gic conditions on the site typical for this time of year? Soil or Hydrology significantly districted by significantly districted by significantly districted by soil or Hydrology naturally problet of Hydrology naturally problets on the site map showing sand from Present? Yes No X Oresent? Yes No X Section, To terrace Interrace, etc.:) FINDINGS - Attach site map showing on the site typical for this time of year? It size No X Section, To terrace Lat: Willamette Silt Loam, Wet, 0-3% of year? Interrace, etc.:) Willamette Silt Loam, Wet, 0-3% of year? Interrace, etc.:) Interrace Interrace, etc.:) Terrace Lat: Willamette Silt Loam, Wet, 0-3% of year? Interrace, etc.:) Interrace, etc.:) Terrace Lat: Willamette Silt Loam, Wet, 0-3% of year? Interrace, etc.:) Interrace, etc.:) Interrace Interrace, etc.:) Interrace Interrace, etc.:) Interrace Interrace, etc.:) Interrace Interrace, etc.:) Interrace, etc.:) Interrace Interrace, etc.: Willamette Silt Loam, Wet, 0-3% of year? Interrace, etc.: Interrac	West Linn/Wilsonville Schools	State: JT/MS Section, Township, Range: Township 2 So	West Linn/Wilsonville Schools	State DR	

			PHS#	6960	_		Sampling Point:	6
Profile Descr	ription: (Describe to t	he depth	needed to docum	ent the indicator or c	onfirm the absen	ce of indicators.)		
Depth	Matrix			Redox Features	. 3			
(Inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks	
0-8	10YR 3/3	100	-			Silt Loam		
8-16	7.5YR 4/4	100				Silt Loam		
	. <u> </u>							
	. <u></u> .							
	<u> </u>							
								
Type: C=Cor	ncentration, D=Depletion	on, RM=Re	educed Matrix, CS	=Covered or Coated S	and Grains.		² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to	all LRRs, unles	s otherwise noted	i.)	Indic	ators for Problematic Hydric Soils	³ :
	Histosol (A1)			Sandy Red	dox (S5)		2 cm Muck (A10)	
	Histic Epipedon (A2)			Stripped M	latrix (S6)		Red Parent Material (TF2)	
	Black Histic (A3)			Loamy Mu	cky Mineral (F1)(e	xcept MLRA 1)	Very Shallow Dark Surface	e (TF12)
	Hydrogen Sulfide (A4)		Loamy Gle	eyed Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	Surface (A	\11)	Depleted N	Matrix (F3)			
	Thick Dark Surface (A	A12)		Redox Dar	k Surface (F6)			
	Sandy Mucky Mineral	(S1)		Depleted [Dark Surface (F7)		³ Indicators of hydrophytic vegetation and	
	Sandy Gleyed Matrix	(S4)		Redox De	oressions (F8)		hydrology must be present, unless distu problematic.	urbed or
	Layer (if present):						•	
	·s):					Hydric Soil Pre	sent? Yes No	X
	·s):					Hydric Soil Pre	sent? Yes No	Х
Remarks:	DGY	s:				Hydric Soil Pre	sent? Yes No	X
Remarks: HYDROLO Wetland Hy			uired; check all t	hat apply)		Hydric Soil Pre	Secondary Indicators (2 or more re	
Remarks: HYDROLO Wetland Hy	DGY /drology Indicators		uired; check all t	Water stail	ned Leaves (B9) (I		Secondary Indicators (2 or more ru Water stained Leaves (B9)	equired)
Remarks: HYDROLO Wetland Hy	OGY /drology Indicators icators (minimum of	f one requ	uired; check all t	,	ned Leaves (B9) (I		Secondary Indicators (2 or more re	equired)
Remarks: HYDROLO Wetland Hy	OGY rdrology Indicators icators (minimum of Surface Water (A1)	f one requ	uired; check all t	Water stail	ned Leaves (B9) (I nd 4B)		Secondary Indicators (2 or more reward Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)	equired)
Remarks: HYDROLO Wetland Hy	OGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	f one requ	uired; check all t	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv	ned Leaves (B9) (I nd 4B) (B11) /ertebrates (B13)		Secondary Indicators (2 or more rewards Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Material Patterns (B10))	equired))
Remarks: HYDROLO Wetland Hy	OGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	f one requ	uired; check all t	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen	ned Leaves (B9) (I nd 4B) (B11) vertebrates (B13) Sulfide Odor (C1)	Except MLRA	Secondary Indicators (2 or more rewards Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Cartering Saturation Visible on Aeria	equired)) C2) Il Imagery (
Remarks: HYDROLO Wetland Hy	DGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	f one requ	uired; check all t	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen Oxidized F	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) khizospheres along	Except MLRA g Living Roots (C3)	Secondary Indicators (2 or more rewards Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Comparison Visible on Aerian Geomorphic Position (D2)	equired)) C2) Il Imagery (
Remarks: HYDROLO Wetland Hy	OGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	f one requ	uired; check all t	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen Oxidized F Presence	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	Except MLRA g Living Roots (C3)	Secondary Indicators (2 or more rewards Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Control of the Control of the Co	equired)) C2) Il Imagery (
Remarks: HYDROLO Wetland Hy	JOGY Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	f one request. 2) 32)	uired; check all t	Water stain 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (2 or more rewards Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Control of the control of the co	equired)) C2) Il Imagery (
Remarks: HYDROLO Wetland Hy	JOGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I	f one requests) 32) 4)		Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Cn) n Reduction in Plo	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (2 or more rewards (2 or more rewards) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Compared to the compared to th	equired)) C2) Il Imagery (
Remarks: HYDROLO Wetland Hy	JOGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on	f one requests 32) 4) B6) Aerial Imag	gery (B7)	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (2 or more rewards Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Control of the control of the co	equired)) C2) Il Imagery (
Remarks: HYDROLO Wetland Hy	JOGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I	f one requests 32) 4) B6) Aerial Imag	gery (B7)	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Cn) n Reduction in Plo	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (2 or more rewards (2 or more rewards) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Compared to the compared to th	equired)) C2) Il Imagery (
HYDROLO Wetland Hy	DGY Idrology Indicators Id	f one requests 32) 4) B6) Aerial Imag	gery (B7)	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Cn) n Reduction in Plo	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (2 or more rewards (2 or more rewards) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Compared to the compared to th	equired)) C2) Il Imagery (
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HYDROLO Wetland Hy Primary Indi	JOGY Idrology Indicators Idr	f one requests 32) 4) B6) Aerial Imag	gery (B7) urface (B8)	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Cn) n Reduction in Plo	Except MLRA g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more rewards (2 or more rewards) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Compared to the compared to th	equired)) C2) Il Imagery (
_	DGY Idrology Indicators Id	f one requests 32) 4) B6) Aerial Imag	gery (B7) urface (B8) No <u>X</u>	Water stain 1, 2, 4A, a Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	ned Leaves (B9) (Ind 4B) (B11) /ertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C n Reduction in Plo Stressed Plants (I olain in Remarks)	Except MLRA g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more re Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Company Saturation Visible on Aeria Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (Interpretation of the prost-Heave Hummocks (Interpretation of th	equired)) C2) Il Imagery (
HYDROLO Wetland Hy Primary Indi Field Obse Surface Wate Water Table F Saturation Pre (includes capilla	DGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Corvations: r Present? Yes	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) urface (B8) No X No X No X	Water stain 1, 2, 4A, a Salt Crust Aquatic Int Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp Depth (inches): Depth (inches):	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Connection in Plonates (B13) Stressed Plants (Indian in Remarks) >16 >16 >16	Except MLRA g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more reward Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Control Saturation Visible on Aeria Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (Interpretation of the prost-Heave Hummocks (Interpretation o	equired)) C2) Il Imagery (
HYDROLO Wetland Hy Primary Indi Field Obse Surface Wate Water Table F Saturation Pre (includes capilla	DGY Idrology Indicators Id	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) urface (B8) No X No X No X	Water stain 1, 2, 4A, a Salt Crust Aquatic Int Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp Depth (inches): Depth (inches):	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Connection in Plonates (B13) Stressed Plants (Indian in Remarks) >16 >16 >16	Except MLRA g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more reward Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Control Saturation Visible on Aeria Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (Interpretation of the prost-Heave Hummocks (Interpretation o	equired)) C2) Il Imagery (
HYDROLO Wetland Hy Primary Indi Field Obse Surface Wate Water Table F Saturation Pre (includes capilla	DGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Corvations: r Present? Yes	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) urface (B8) No X No X No X	Water stain 1, 2, 4A, a Salt Crust Aquatic Int Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp Depth (inches): Depth (inches):	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Connection in Plonates (B13) Stressed Plants (Indian in Remarks) >16 >16 >16	Except MLRA g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more reward Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Control Saturation Visible on Aeria Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (Interpretation of the prost-Heave Hummocks (Interpretation o	equired)) C2) Il Imagery (
HYDROLO Wetland Hy Primary Indi Field Obse Surface Wate Water Table F Saturation Pre (includes capilla	DGY /drology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Corvations: r Present? Yes	f one requests 2) 32) 4) B6) Aerial Image Concave Su	gery (B7) urface (B8) No X No X No X	Water stain 1, 2, 4A, a Salt Crust Aquatic Int Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp Depth (inches): Depth (inches):	ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Connection in Plonates (B13) Stressed Plants (Indian in Remarks) >16 >16 >16	Except MLRA g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2 or more reward Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Control Saturation Visible on Aeria Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (Interpretation of the prost-Heave Hummocks (Interpretation o	equired)) C2) Il Imagery (

6960

Project/Site: Dollar Street		City/County:	West I	Linn/Clackamas	Sampling Date:	6/11/2020	
Applicant/Owner: West Linn/Wilsonv	ille Schools			State:	OR	Sampling Point: 7	
Investigator(s): JT/MS		Section, To	wnship, Range:	Township 2 Sou	th, Range 1 East,	Section 34 and 34DC	
Landform (hillslope, terrace, etc.:)	Flat	_	Local relief (co	ncave, convex, none):	Convex	Slope (%): 5	
Subregion (LRR): LRR A	1	Lat:	45.35002	2100, Long:	-122.6758	Datum: WSG8	
	odburn Silt L	- ₋oam 8-15% S	lopes		ssification:		
Are climatic/hydrologic conditions on the site t			Yes	No		lain in Remarks)	
	drology	significantly dist	urbed?	Are "Normal Circumstance		Y	
· — — ·	drology			I, explain any answers in Re	. ,		
				,, explain any anomore in the			
SUMMARY OF FINDINGS - Attac	h site map	showing san	pling point	locations, transects	important feat	ures, etc.	
Hydrophytic Vegetation Present? Yes	No	X	la Campled As	en a veith in			
Hydric Soil Present? Yes	No	X	Is Sampled Ar			No X	
Wetland Hydrology Present? Yes	No	Х		_	<u> </u>		
Remarks:							
Precipitation was below the average	and normal ra	anges for two	of the three m	nonths prior to field wo	rk; therefore hyd	rological conditions we	
considered below normal for the deli	neation.						
VEGETATION - Use scientific nar	nes of plant	s.					
	absolute	Dominant	Indicator	Dominance Test wor	ksheet:		
Tree Stratum (plot size: 30)	% cover	Species?	Status	Number of Dominant Spec	ries		
1 Crataegus monogyna	30	X	FAC	That are OBL, FACW, or F		2 (A)	
2 Juglans nigra	20	X	UPL	That are OBE, I ACW, Or I		(^)	
3				Total Number of Dominan	t		
4				Species Across All Strata:		4 (B)	
	50	= Total Cover		'		(
Sapling/Shrub Stratum (plot size: 15	\			Dorgant of Dominant Space	ioo		
Sapling/Shrub Stratum (plot size: 15 1 Rubus armeniacus	_ ⁾ 40	X	FAC	Percent of Dominant Spec That are OBL, FACW, or		50% (A/B)	
2			170	That are OBE, I AGW, Or		(745)	
3				Prevalence Index Wo	rksheet:		
4				Total % Cover of	Multiply by	<i>/</i> :	
5				OBL Species	x 1 =	0	
	40	= Total Cover		FACW species	x 2 =	0	
				FAC Species	x 3 =	0	
Herb Stratum (plot size: 5)				FACU Species	x 4 =	0	
1 Anthoxanthum odoratum	60	X	FACU	UPL Species	x 5 =	0	
2 Fragaria sp	20		(FAC)	Column Totals	0 (A)	0 (B)	
0 11-1 1	4.0						
Holcus lanatus Mitalla an			FAC (FAC)	Drovoler	2/A	+DIV/01	
4 Mitella sp	5		(FAC)	Prevalence Index =E	3/A = #	FDIV/0!	
4 Mitella sp 5 Lapsana communis	5 5		(FAC)			*DIV/0!	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense	5 5 5		(FAC) FACU	Hydrophytic Vegetati	on Indicators:		
4 Mitella sp 5 Lapsana communis	5 5		(FAC)	Hydrophytic Vegetati		rophytic Vegetation	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense 7 Rumex crispus	5 5 5 3	= Total Cover	FACU FACU FAC	Hydrophytic Vegetati	on Indicators: - Rapid Test for Hydr	rophytic Vegetation >50%	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense 7 Rumex crispus	5 5 5 3 1	= Total Cover	FACU FACU FAC	Hydrophytic Vegetati	on Indicators: - Rapid Test for Hydr - Dominance Test is	rophytic Vegetation >50%	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense 7 Rumex crispus	5 5 5 3 1	= Total Cover	FACU FACU FAC	Hydrophytic Vegetati	on Indicators: - Rapid Test for Hydr - Dominance Test is	rophytic Vegetation >50% ≤ 3.0 ¹ tations¹ (provide supporting	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense 7 Rumex crispus 8 Epilobium ciliatum	5 5 5 3 1	= Total Cover	FACU FACU FAC	Hydrophytic Vegetati	on Indicators: - Rapid Test for Hydr - Dominance Test is -Prevalence Index is -Morphological Adap	rophytic Vegetation >50% ≤ 3.0 ¹ tations ¹ (provide supporting a separate sheet)	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense 7 Rumex crispus 8 Epilobium ciliatum	5 5 5 3 1	= Total Cover	FACU FACU FAC	Hydrophytic Vegetati	on Indicators: 1- Rapid Test for Hydr 2- Dominance Test is 3-Prevalence Index is 1-Morphological Adap data in Remarks or on 5- Wetland Non-Vascu	rophytic Vegetation >50% ≤ 3.0 ¹ tations ¹ (provide supporting a separate sheet)	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense 7 Rumex crispus 8 Epilobium ciliatum Woody Vine Stratum (plot size:	5 5 5 3 1	= Total Cover	FACU FACU FAC	Hydrophytic Vegetati	on Indicators: 1- Rapid Test for Hydr 2- Dominance Test is 3-Prevalence Index is 1-Morphological Adap data in Remarks or on 5- Wetland Non-Vasco Problematic Hydrophy	rophytic Vegetation >50% ≤ 3.0¹ tations¹ (provide supporting a separate sheet) ular Plants¹ rtic Vegetation¹ (Explain)	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense 7 Rumex crispus 8 Epilobium ciliatum Woody Vine Stratum (plot size:	5 5 5 3 1 109		FACU FACU FAC	Hydrophytic Vegetati	on Indicators: 1- Rapid Test for Hydr 2- Dominance Test is 3-Prevalence Index is 1-Morphological Adap data in Remarks or on 5- Wetland Non-Vasco Problematic Hydrophy	rophytic Vegetation >50% ≤ 3.0¹ tations¹ (provide supporting a separate sheet) ular Plants¹ rtic Vegetation¹ (Explain)	
4 Mitella sp 5 Lapsana communis 6 Trifolium pratense 7 Rumex crispus 8 Epilobium ciliatum Woody Vine Stratum (plot size:	5 5 5 3 1 109		FACU FACU FAC	Hydrophytic Vegetati	on Indicators: 1- Rapid Test for Hydr 2- Dominance Test is 3-Prevalence Index is 1-Morphological Adap data in Remarks or on 5- Wetland Non-Vasco Problematic Hydrophy	rophytic Vegetation >50% ≤ 3.0¹ tations¹ (provide supporting a separate sheet) ular Plants¹ rtic Vegetation¹ (Explain)	

Profile Descrip								
	otion: (Describe to t	he depth r	needed to do	cument th	ne indicator or co	nfirm the absen	ce of indicators.)	
Depth	Matrix				Redox Features	. 2		
(Inches)	Color (moist)	%	Color (moi	st)	% Type ¹	Loc ²	Texture	Remarks
0-2	10YR 3/6	100					Silt Loam	
2-6	10YR 3/2	100					Silt Loam	· -
6-16	7.5YR 3/2	100					Silt Loam	
	entration, D=Depletion							² Location: PL=Pore Lining, M=Matrix.
-	ndicators: (Appli	cable to	all LRRs, u	nless ot			Indic	ators for Problematic Hydric Soils ³ :
н	Histosol (A1)				Sandy Redo	ox (S5)		2 cm Muck (A10)
н	Histic Epipedon (A2)				Stripped Ma	trix (S6)		Red Parent Material (TF2)
В	Black Histic (A3)				Loamy Muc	ky Mineral (F1) (ex	ccept MLRA 1)	Very Shallow Dark Surface (TF12)
н	Hydrogen Sulfide (A4)			Loamy Gley	ed Matrix (F2)		Other (explain in Remarks)
D	Depleted Below Dark	Surface (A	11)		Depleted Ma	atrix (F3)		
т	hick Dark Surface (A	A12)			Redox Dark	Surface (F6)		
s	Sandy Mucky Mineral	(S1)			Depleted Da	ark Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix					essions (F8)		hydrology must be present, unless disturbed or problematic.
						(- /		<u>'</u>
Гуре: Depth (inches)):						Hydric Soil Pre	sent? Yes No X
Type: Depth (inches)):						Hydric Soil Pre	sent? Yes NoX
Type: Depth (inches) Remarks: HYDROLOG	GY	e.					Hydric Soil Pre	sent? Yes NoX
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd	GY drology Indicators		uired; check	all that a	apply)		Hydric Soil Pre	
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica	GY Irology Indicators ators (minimum of		uired; check	all that a		ed Leaves (B9) (E		Secondary Indicators (2 or more required)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica	GY Irology Indicators ators (minimum of Surface Water (A1)	f one requ	uired; check	all that a		ed Leaves (B9) (E		
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica S H	GY Irology Indicators ators (minimum of Surface Water (A1) High Water Table (A2	f one requ	uired; check	all that a	Water staine 1, 2, 4A, an	ed Leaves (B9) (E d 4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica	GY Irology Indicators ators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	f one requ	uired; check	all that a	Water staine 1, 2, 4A, an Salt Crust (E	ed Leaves (B9) (E d 4B) 311)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica S H S	GY Irology Indicators ators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	f one requ	uired; check	all that a	Water staine 1, 2, 4A, an Salt Crust (E	ed Leaves (B9) (E d 4B) 311) ertebrates (B13)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica S H S W	GY Arology Indicators ators (minimum of Burface Water (A1) High Water Table (A2 Baturation (A3) Vater Marks (B1) Bediment Deposits (B	f one requ	uired; check	all that a	Water staine 1, 2, 4A, an Salt Crust (E Aquatic Inve	ed Leaves (B9) (E d 4B) 311) ertebrates (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 (
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Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica S H S W S A	GY Irology Indicators ators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4)	f one requ	uired; check	all that a	Water staine 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of	ed Leaves (B9) (Ed 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along	Except MLRA Living Roots (C3) 4)	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 (Geomorphic Position (D2) Shallow Aquitard (D3)
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Appendix C

Study Area Photographs (ground level)





Photo A: View of Stream 1 looking northeast (upstream).

Photo B:

View of lower portion of Stream 1 looking downstream (Southwest).



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Photo C: View of Sample Point (SP) 1 and Stream 1 looking north.

Photo D: Looking northeast at SP 2.







Photo E:

View of SP 3 looking southwest.

Photo F

View of the southern border of the study area looking east.



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Photo G: View of Sample Point 4 looking southwest.

Photo H:

View of sample point 5 looking northeast.



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Photo I: View of SP 7 looking north.

Photo J: View of top of ravine looking north.





Appendix D

Wetland Definitions, Methodology



WATERS OF THE STATE AND WETLAND DEFINITION AND CRITERIA

Regulatory Jurisdiction

Wetlands and water resources in Oregon are regulated by the Oregon Department of State Lands (DSL) under the Removal-Fill Law (ORS 196.800-196.990) and by the U.S. Army Corps of Engineers (COE) through Section 404 of the Clean Water Act.

The primary source documents for wetland delineations within Oregon is the *Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)* (U.S. Army Corps of Engineers, 2010), which are required by both DSL and COE.

Waters of This State and Wetland Definition

Waters of This State are defined as "all natural waterways, all tidal and non-tidal bays, intermittent streams, constantly flowing streams, lakes, wetlands, that portion of the Pacific Ocean that is in the boundaries of this state, all other navigable and non-navigable bodies of water in this state and those portions of the ocean shore ..." (DSL, 2009).

Wetlands are defined as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (DSL 2009).

Wetland Criteria

Based on the above definition, three major factors characterize a wetland: hydrology, substrate, and biota.

Wetland Hydrology

Wetland hydrology is related to duration of saturation, frequency of saturation, and critical depth of saturation. The 1987 manual defines wetland hydrology as inundation or saturation within a major portion of the root zone (usually above 12 inches), typically for at least 12.5% of the growing season. The wetland hydrology criterion can be met, however, if saturation within the major portion of the root zone is present for only 5% of the growing season, depending on other evidence.

The growing season is defined as the portion of the year when soil temperatures at 12.0 inches below the soil surface are higher than biological zero (41 degrees Fahrenheit, 5 degrees Celsius), but also allows approximation from frost-free days, based on air temperature. The growing season for any given study area or location is determined from US Natural Resources Conservation Service, (formerly Soil Conservation Service) data and information.

Wetland hydrologic indicators include the following: visual observation of inundation or saturation, watermarks, drift lines, sediment deposits, and/or oxidized rhizospheres with living roots. Oxidized rhizospheres are defined as yellowish-red zones around the roots and rhizomes of some plants that grow in frequently saturated soils. Other indicators of hydrology, including algal mats or crust, iron deposits, surface soil cracks, sparsely vegetated concave surface, salt crust, aquatic invertebrates, hydrogen sulfide odor, reduced iron, iron reduction in tilled soils, and stunted or stressed plants can also be used to determine the presence of wetland hydrology.

Wetland Substrate (Soils)

Most wetlands are characterized by hydric soils. Hydric soils are those that are ponded, flooded, or saturated for long enough during the growing season to develop anaerobic conditions. Periodic saturation of soils causes alternation of reduced and oxidized conditions, which leads to the formation of redoximorphic features (gleying and mottling). Mineral hydric soils will be either gleyed or will have bright mottles and/or low matrix chroma. The redoximorphic feature known as gley is a result of greatly reduced soil conditions, which result in a characteristic grayish, bluish or greenish soil color. The term mottling is used to describe areas of contrasting color within a soil matrix. The soil matrix is the portion of the soil layer that has the predominant color. Soils that have brightly colored mottles and a low matrix chroma are indicative of a fluctuating water table.

Hydric soil indicators include organic content of greater than 50% by volume, and/or presence of redoximorphic features and dark soil matrix, as determined by the use of a Munsell Soil Color Chart. This chart establishes the chroma, value and hue of soils based on comparison with color chips. Mineral hydric soil must meet one of the 16 definitions for hydric soil indicators, or be classified as a "problem soil" in the Regional Supplement.

Wetland Biota (Vegetation)

Wetland biota is defined as hydrophytic vegetation. A hydrophyte is a plant species that is capable of growing in substrates that are periodically deficient in oxygen as a result of saturated soil conditions. The U.S. Fish and Wildlife Service, in the *National List of Plant Species that Occur in Wetlands*, has established five basic groups of vegetation based on their frequency of occurrence in wetlands. These categories, referred to as the "wetland indicator status", are as follows: obligate wetland plants (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), and obligate upland (UPL). Table 1 gives a definition of the plant indicator codes.

 Table 1.
 Description of Wetland Plant Indicator Status Codes

Indicator	
Code	Status
OBL	Obligate wetland. Plants that always occur in standing water or in saturated soils.
FACW	Facultative wetland. Plants that nearly always occur in areas of prolonged flooding or require standing water or saturated soils but may, on rare occasions, occur in non-wetlands.
FAC	Facultative. Plants that occur in a variety of habitats, including wetland and mesic to xeric non-wetland habitats but commonly occur in standing water or saturated soils.
FACU	Facultative upland. Plants that typically occur in xeric or mesic non-wetland habitats but may frequently occur in standing water or saturated soils.
UPL	Obligate upland. Plants that rarely occur in water or saturated soils.

Observations of hydrology, soils, and vegetation were made using the "Routine On-study area" delineation method as defined in the 1987 manual and the Regional Supplement for areas that were not currently in agricultural production. One-foot diameter soil pits were excavated up to 24 inches and soil profiles were examined for hydric soil and wetland hydrology field indicators. In addition, a visual absolute cover estimate of the dominant species of the plant community was performed using soil pit locations as a center of reference. Dominant plant species are based on estimates of absolute cover for herbaceous, and shrub species within a 5-foot radius of the sample point, and basal area cover for tree and woody vine species within a 30-foot radius of the sample point. Plant species in each vegetative layer, which are estimated at less than 20% of the total cover, are not considered dominant. The wetland indicator status is then used to determine if there is an overall dominance (greater than 50%) of wetland or upland plant species. If less than 50% of the dominant species are hydrophytic, then the prevalence index may be used to determine if the subdominant species are hydrophytic. If the prevalence index is less than or equal to three, hydrophytic vegetation criterion is met.

During data collection, the soil profiles were examined for hydric soil and wetland hydrology field indicators. Plant species and cover were recorded. Data was recorded on standard data sheets, which contain the information specified in the 1987 Corps Manual and the Regional Supplement.