



Oregon

Kate Brown, Governor

Department of State Lands

775 Summer Street NE, Suite 100

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(503) 986-5200

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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

Kate Brown
Governor

Bev Clarno
Secretary of State

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

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,

A handwritten signature in black ink, appearing to read "Peter Ryan". The signature is fluid and cursive, with the first name "Peter" and last name "Ryan" clearly distinguishable.

Peter Ryan, SPWS
Aquatic Resource Specialist

Enclosures

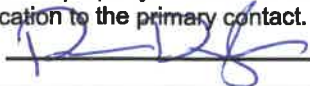
ec: Mike See, Pacific Habitat Services, Inc.
West Linn Planning Department (Maps enclosed for updating LWI)
Trey Fraley, Corps of Engineers
Michael De Blasi, DSL

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.

<input checked="" type="checkbox"/> Applicant <input checked="" type="checkbox"/> Owner Name, Firm and Address: Remo Douglas, Capital Construction Program Manager West Linn Wilsonville School District 2755 SW Borland Road Tualatin, OR 97062	Business phone # 503-799-6891 Mobile phone # (optional) E-mail: douglasr@wlv.k12.or.us
--	--

<input type="checkbox"/> 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.
 Typed/Printed Name: Remo Douglas Signature: 
 Date: 11-6-20 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)	
City: West Linn	County: Clackamas	Waterway: River Mile:
	NWI Quad(s): Canby OR	

Wetland Delineation Information

Wetland Consultant Name, Firm and Address: Pacific Habitat Services, Inc. Attn: Mike See 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070	Phone # 503-570-0800 Mobile phone # E-mail: ms@pacifichabitat.com
The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge. Consultant Signature: <u>Michael See</u> Date: 11/9/2020	

Primary Contact for report review and site access is <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Applicant/Owner <input type="checkbox"/> Authorized Agent	
Wetland/Waters Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Study Area size: 21.81 acres Total Wetland Acreage: 0.01ac/591sf

Check Box Below if Applicable:		Fees:	
<input type="checkbox"/> R-F permit application submitted	<input type="checkbox"/> Mitigation bank site	<input type="checkbox"/> Wetland restoration/enhancement project (not mitigation)	<input type="checkbox"/> Industrial Land Certification Program Site
<input type="checkbox"/> Reissuance of a recently expired delineation	Previous DSL # _____ Expiration date _____	<input type="checkbox"/> Fee payment submitted \$	<input type="checkbox"/> Fee (\$100) for resubmittal of rejected report
Other Information:	Y N	<input type="checkbox"/> No fee for request for reissuance of an expired report	
Has previous delineation/application been made on parcel?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		If known, previous DSL # _____
Does LWI, if any, show wetland or waters on parcel?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		

For Office Use Only

DSL Reviewer: <u>CS</u>	Fee Paid Date: ____ / ____ / ____	DSL WD # <u>2020-0622</u>
Date Delineation Received: <u>11 / 17 / 20</u>	DSL Project # _____	DSL Site # _____
Scanned: <input checked="" type="checkbox"/> Final Scan: <input type="checkbox"/>	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



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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.

Month	Average Precipitation ¹	30% Chance Will Have		Observed Precipitation ¹	Percent of Normal
		Less Than Average ¹	More Than Average ¹		
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%

¹ 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*.

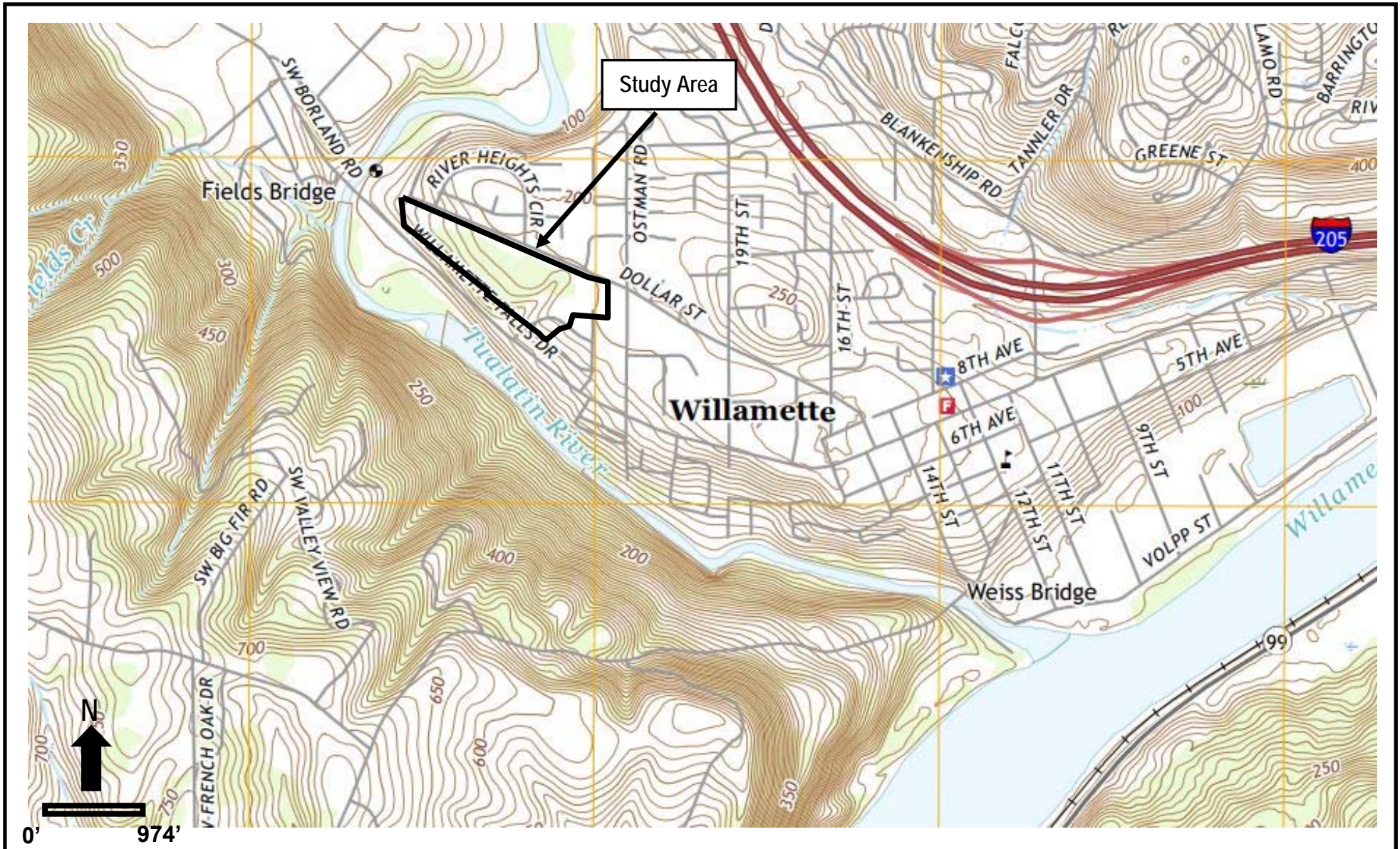
US Geological Survey, 2020. *Canby, Oregon. 7.5-minute Quadrangle Map*.

Winterbrook Planning, 2003. *City of West Linn Wetland, Riparian, and Wildlife Habitat Inventory, 2004*

Appendix A

Figures





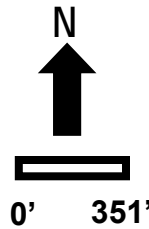
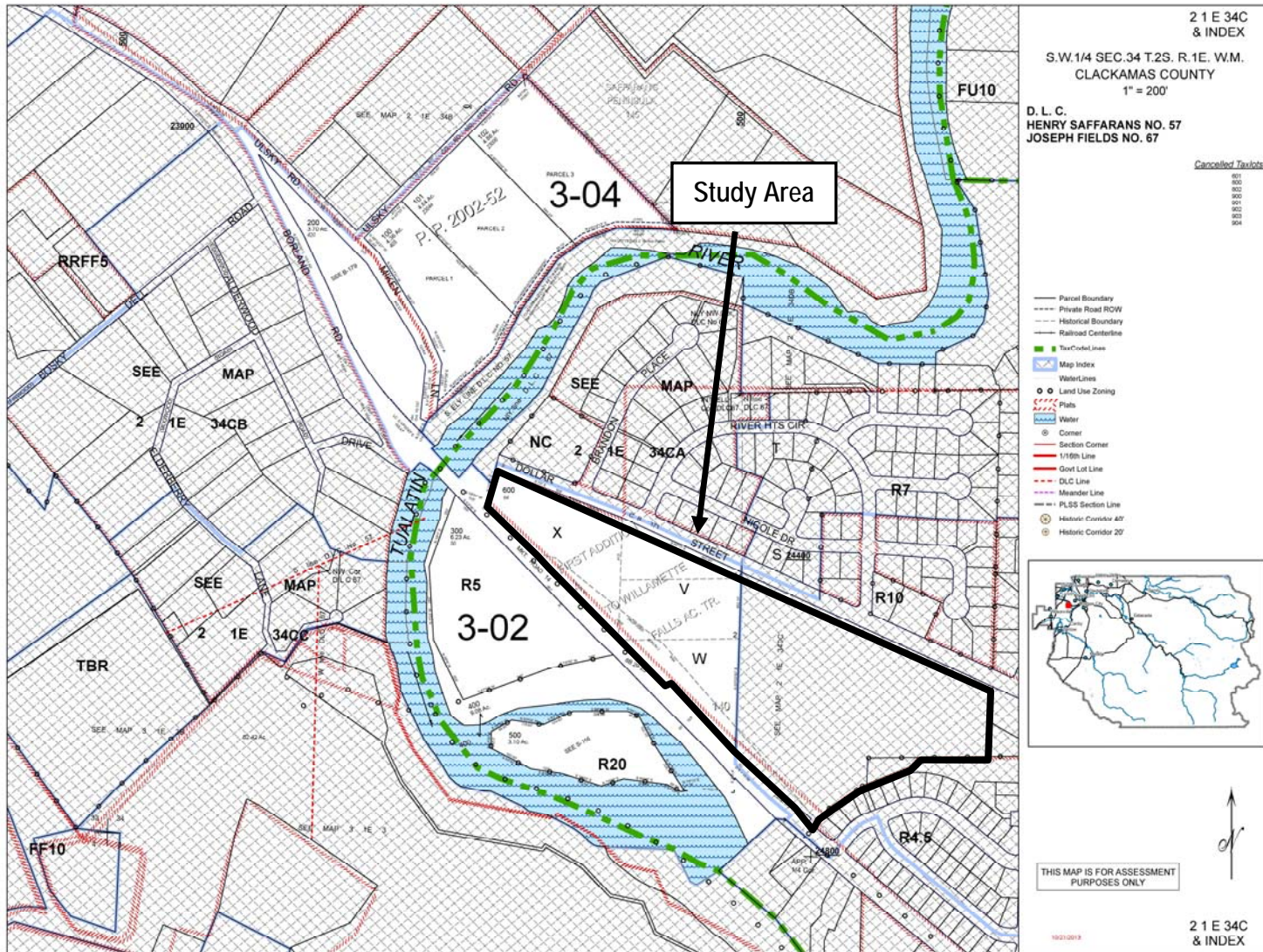
General Location and Topography
 Dollar Street West Linn School Siting - West Linn, Oregon
 United States Geological Survey (USGS) Canby, Oregon 7.5 quadrangle, 2020
 (viewer.nationalmap.gov/basic)

FIGURE
 1

#6960
 7/29/2020



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

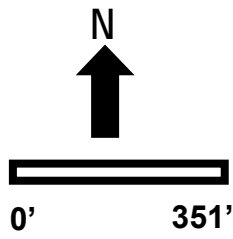
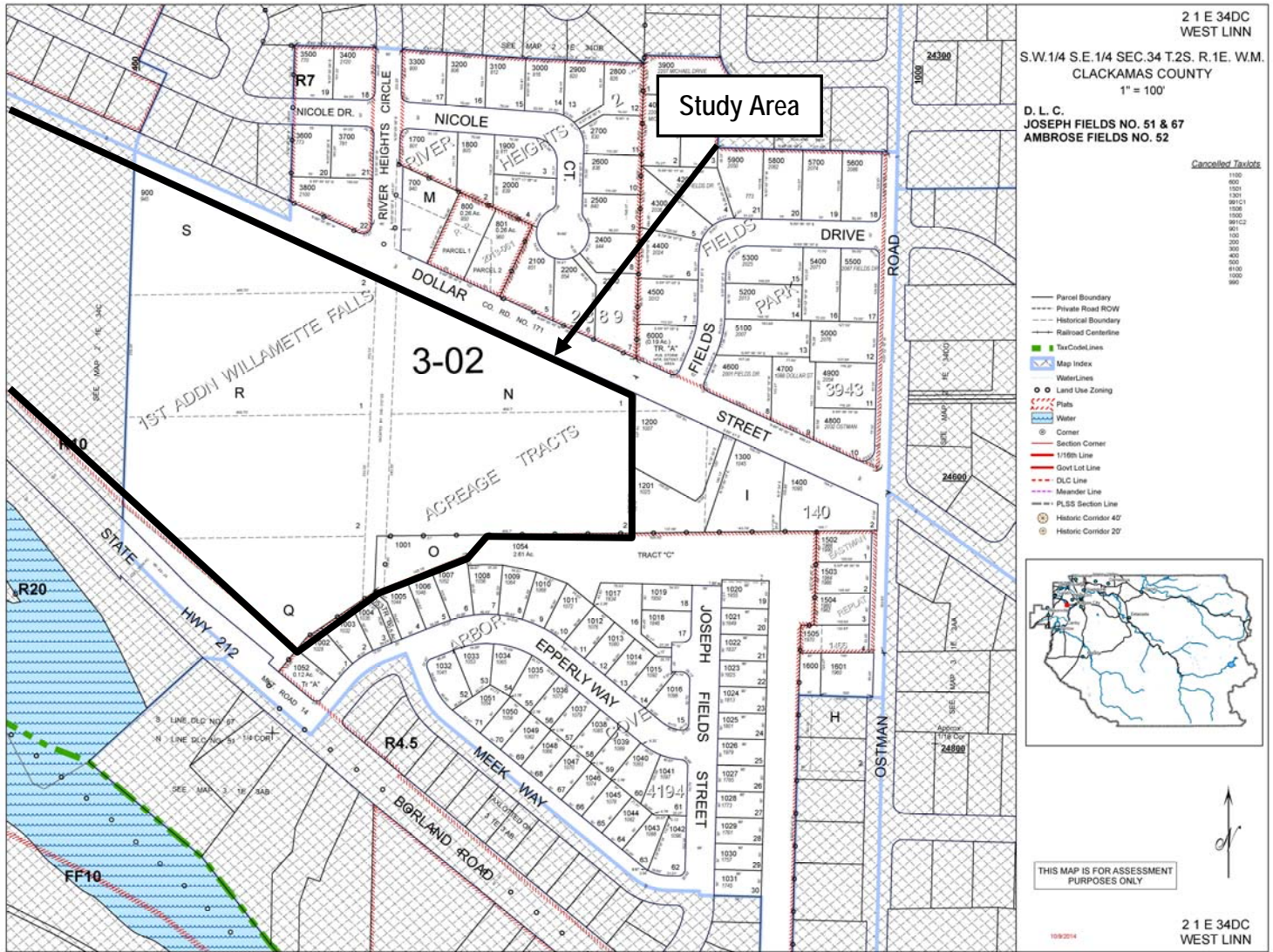


#6960
7/29/2020

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



#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
2B

2 1 E 34DC
WEST LINN

S.W.1/4 S.E.1/4 SEC.34 T.2S. R.1E. W.M.
CLACKAMAS COUNTY
1" = 100'

D. L. C.
JOSEPH FIELDS NO. 51 & 67
AMBROSE FIELDS NO. 52

Cancelled Taxlots

1100
800
1301
1301
981C1
1000
1000
981C2
901
101
300
900
400
500
8100
1000
960

- Parcel Boundary
- Private Road ROW
- Historical Boundary
- Railroad Centerline
- TaxCodelines
- Map Index
- WaterLines
- Land Use Zoning
- Plats
- Water
- Corner
- Section Corner
- 1/16th Line
- Govt Lot Line
- D.L.C. Line
- Meander Line
- PLSS Section Line
- Historic Corridor 40'
- Historic Corridor 20'

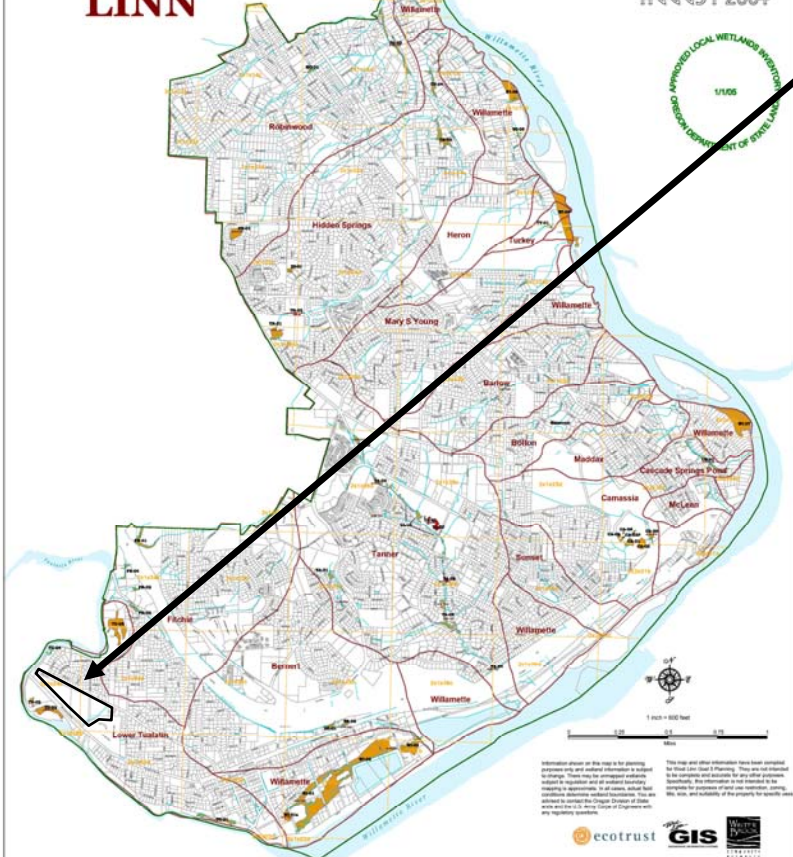
THIS MAP IS FOR ASSESSMENT PURPOSES ONLY

10/9/2014

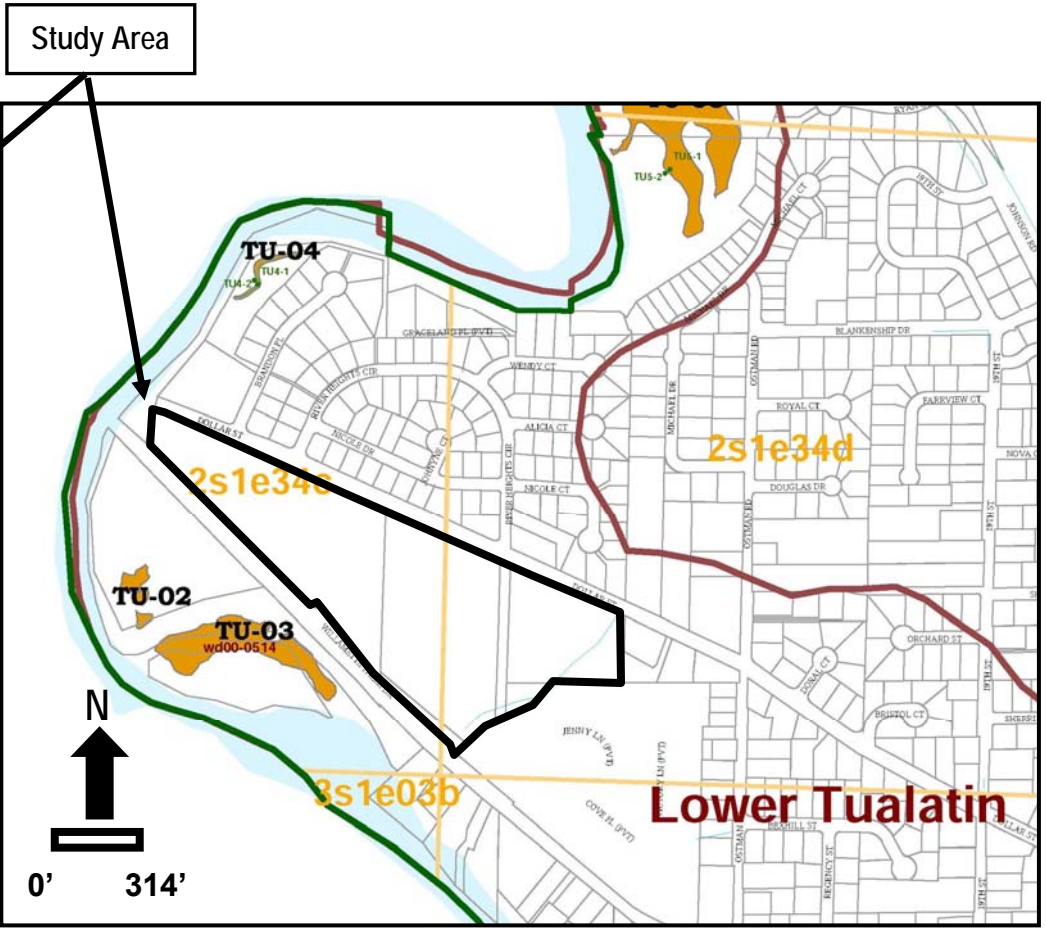
2 1 E 34DC
WEST LINN

WEST LINN

LOCAL WETLAND INVENTORY AUGUST 2004



- Legend**
- Wetlands, Winterbrook Planning 2002
 - Field Verified Wetlands, Winterbrook Planning 2002
 - Possible Wetlands, Winterbrook Planning 2002
 - Wetland Sample Plots, Winterbrook Planning 2002
 - Potential Jurisdictional Drainages, West Linn GIS 2002
 - Potential Jurisdictional Waters, West Linn GIS 2002
 - Taxlot COGO, West Linn GIS 2002
 - Basin Boundaries, Winterbrook Planning 2002
 - Study Area Boundary, Winterbrook Planning 2003
- Wetland unique ID code referenced in Mack (eg. FR-01)
Wetland sample plots referenced in Mack (eg. BE1-1, BE1-2)
Possible Wetlands referenced in Mack (eg. PW1)
FWSL delineation numbers referenced in Mack (eg. dc09-0092)
Basins referenced in Mack (eg. B10401)
FWSL systems referenced in Mack (eg. 3s1e03b)



#6960
7/29/2020



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

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

FIGURE
3



Soils Legend

- 57 - McBee variant loam
- 67 - Newberg fine sandy loam
- 88A - Willamette silt loam, wet, 0-3% slopes
- 91C - Woodburn silt loam, 8-15% slopes

Project #6960
7/29/2020



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

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

FIGURE

4



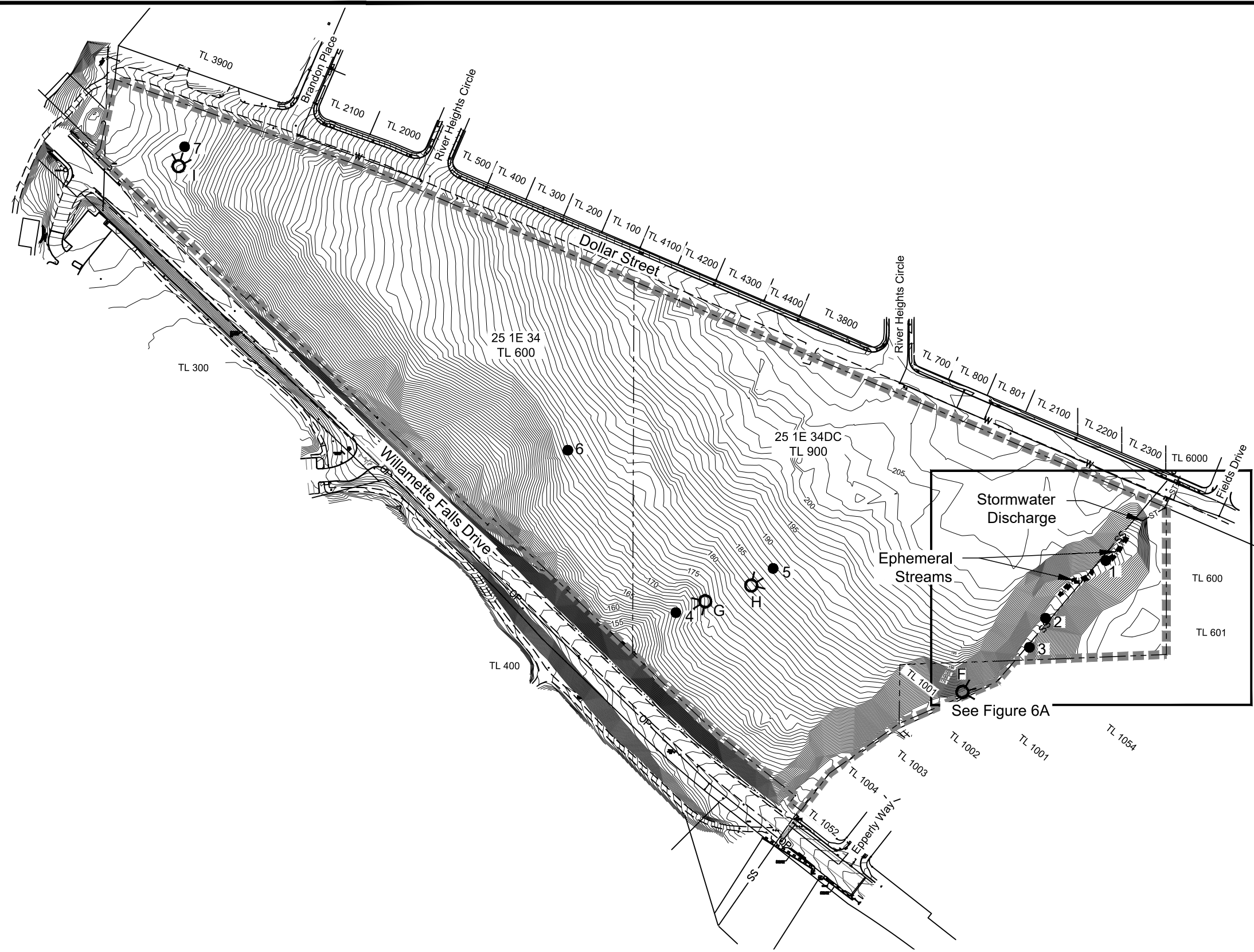
Project #6960
7/29/2020



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

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

FIGURE
5



LEGEND

- ■ ■ ■ Study Area Boundary
(962,933 sf / 22.1 ac)
 - ▨ Waters of the State/US
(591 sf / 0.01 ac)
 - Ordinary High Water (OHW)
 - ← Direction of Flow
 - Sample Point
 - ⊙ Photo Point
 - Contours
 - - - Tax Lots
 - SS — Sanitary Sewer Line
 - ST — Stormwater Pipe
- 0 100 200 400
SCALE IN FEET



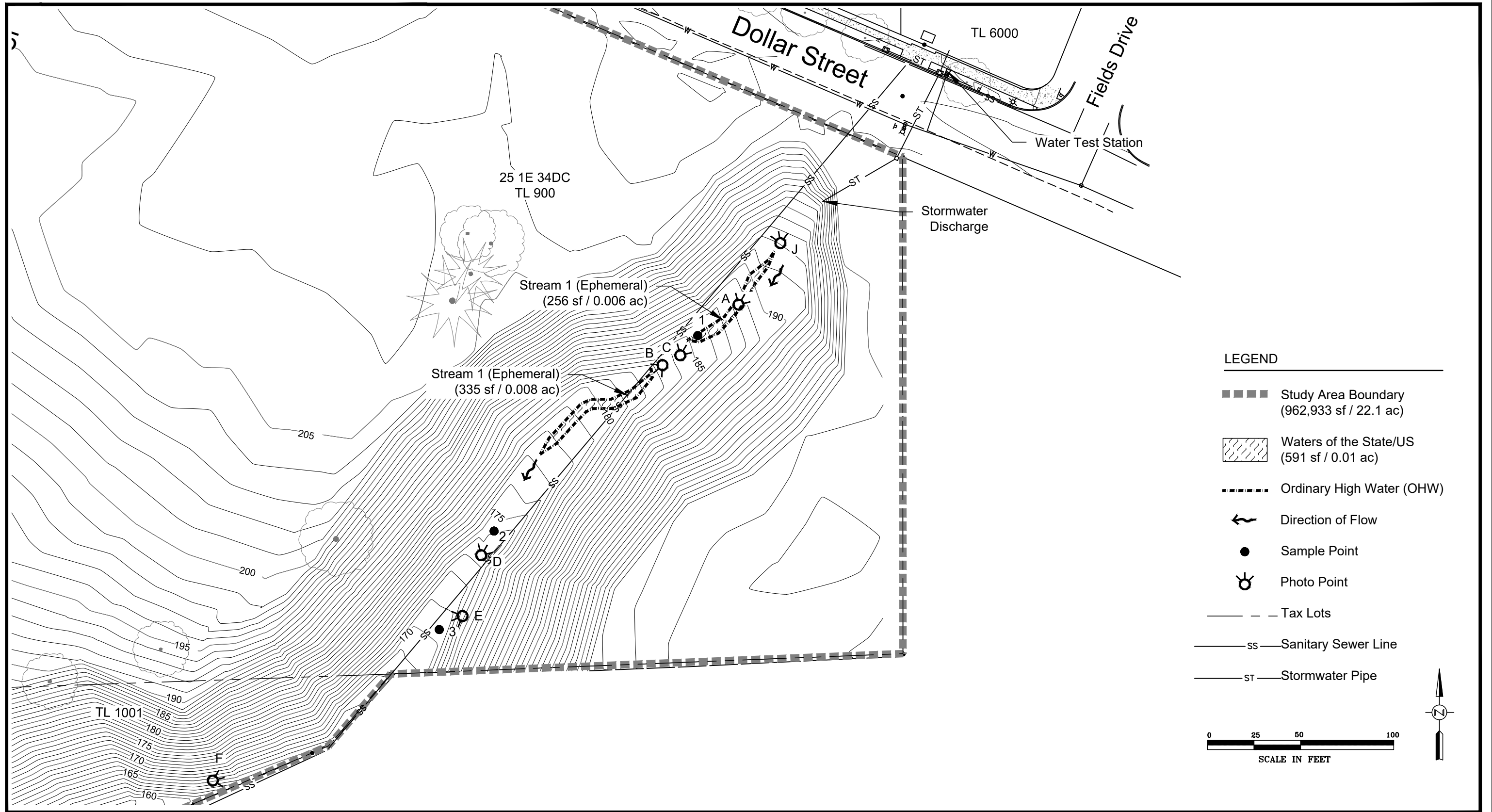
Survey includes Study Area boundary, provided by Compass Land Surveying. Survey and Sample point accuracy is sub-centimeter.

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

Wetland Delineation
Dollar Street - West Linn, Oregon

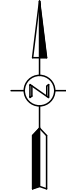
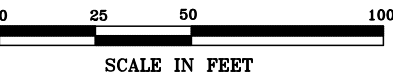
FIGURE 6

9-17-2020



LEGEND

- ■ ■ ■ Study Area Boundary (962,933 sf / 22.1 ac)
- ▨ Waters of the State/US (591 sf / 0.01 ac)
- Ordinary High Water (OHW)
- ↪ Direction of Flow
- Sample Point
- ⊙ Photo Point
- Tax Lots
- ss — Sanitary Sewer Line
- st — Stormwater Pipe



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

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

Wetland Delineation
 Dollar Street - West Linn, Oregon

FIGURE
6A

9-17-2020

Appendix B

Wetland Delineation Data Sheets



WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Dollar Street City/County: West Linn/Clackamas Sampling Date: 6/11/2020
 Applicant/Owner: West Linn/Wilsonville Schools State: OR Sampling Point: 1
 Investigator(s): JT/MS Section, Township, Range: Township 2 South, Range 1 East, Section 34 and 34DC
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 5
 Subregion (LRR): LRR A Lat: 45.3478 Long: -122.6693 Datum: WSG85
 Soil Map Unit Name: Willamette Silt Loam, Wet, 0-3% Slopes NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No X (if no, explain in Remarks)
 Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y
 Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes <u>X</u> No _____	

Remarks:
Precipitation was below the average and normal ranges for two of the three months prior to field work; therefore hydrological conditions were considered below normal for the delineation.

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status
Tree Stratum (plot size: _____)			
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
	<u>0</u>	= Total Cover	
Sapling/Shrub Stratum (plot size: <u>15</u>)			
1 <u>Rubus armeniacus</u>	<u>35</u>	<u>X</u>	<u>FAC</u>
2 <u>Rubus ursinus</u>	<u>10</u>	<u>X</u>	<u>FACU</u>
3 <u>Prunus avium</u>	<u>5</u>	_____	<u>FACU</u>
4 _____	_____	_____	_____
5 _____	_____	_____	_____
	<u>50</u>	= Total Cover	
Herb Stratum (plot size: <u>5</u>)			
1 <u>Geranium robertianum</u>	<u>5</u>	<u>X</u>	<u>FACU</u>
2 <u>Convolvulus equitans</u>	<u>1</u>	_____	<u>FACU</u>
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
6 _____	_____	_____	_____
7 _____	_____	_____	_____
8 _____	_____	_____	_____
	<u>6</u>	= Total Cover	
Woody Vine Stratum (plot size: <u>15</u>)			
1 <u>Hedera helix</u>	<u>35</u>	<u>X</u>	<u>FACU</u>
2 _____	_____	_____	_____
	<u>35</u>	= Total Cover	
% Bare Ground in Herb Stratum _____			

Dominance Test worksheet:

Number of Dominant Species
 That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species
 That are OBL, FACW, or FAC: 25% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL Species _____	x 1 =	<u>0</u>
FACW species _____	x 2 =	<u>0</u>
FAC Species _____	x 3 =	<u>0</u>
FACU Species _____	x 4 =	<u>0</u>
UPL Species _____	x 5 =	<u>0</u>
Column Totals <u>0</u> (A)		<u>0</u> (B)

Prevalence Index =B/A = #DIV/0!

Hydrophytic Vegetation Indicators:

_____ 1- Rapid Test for Hydrophytic Vegetation
 _____ 2- Dominance Test is >50%
 _____ 3-Prevalence Index is ≤ 3.0¹
 _____ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet)
 _____ 5- Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 3/3	100					Silt Loam	
9-16+	10YR 3/3	100					Silty Clay Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No **X**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input checked="" type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)	<input type="checkbox"/> Fac-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
 Water Table Present? Yes _____ No **X** Depth (inches): **>16**
 Saturation Present? (includes capillary fringe) Yes _____ No **X** Depth (inches): **>16**

Wetland Hydrology Present?

Yes **X** No _____

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

Remarks:

Area shows evidence of surface flows, sediment and drift deposits present. Does not meet wetland vegetation or soils. Was determined to be ephemeral channel.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Dollar Street City/County: West Linn/Clackamas Sampling Date: 6/11/2020
 Applicant/Owner: West Linn/Wilsonville Schools State: OR Sampling Point: 2
 Investigator(s): JT/MS Section, Township, Range: Township 2 South, Range 1 East, Section 34 and 34DC
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 5
 Subregion (LRR): LRR A Lat: 45.3475 Long: -122.6698 Datum: WSG85
 Soil Map Unit Name: Willamette Silt Loam, Wet, 0-3% Slopes NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No X (if no, explain in Remarks)
 Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y
 Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks:
Precipitation was below the average and normal ranges for two of the three months prior to field work; therefore hydrological conditions were considered below normal for the delineation.

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status
Tree Stratum (plot size: _____)			
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
	<u>0</u>	= Total Cover	
Sapling/Shrub Stratum (plot size: <u>15</u>)			
1 <u><i>Ilex aquifolium</i></u>	<u>40</u>	<u>X</u>	<u>FACU</u>
2 <u><i>Oemleria cerasiformis</i></u>	<u>30</u>	<u>X</u>	<u>FACU</u>
3 <u><i>Rubus armeniacus</i></u>	<u>10</u>	_____	<u>FAC</u>
4 <u><i>Corylus cornuta</i></u>	<u>5</u>	_____	<u>FACU</u>
5 <u><i>Rubus ursinus</i></u>	<u>5</u>	_____	<u>FACU</u>
	<u>90</u>	= Total Cover	
Herb Stratum (plot size: <u>5</u>)			
1 <u><i>Geranium robertianum</i></u>	<u>20</u>	<u>X</u>	<u>FACU</u>
2 <u><i>Hydrophyllum tenuipes</i></u>	<u>10</u>	<u>X</u>	<u>FAC</u>
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
6 _____	_____	_____	_____
7 _____	_____	_____	_____
8 _____	_____	_____	_____
	<u>30</u>	= Total Cover	
Woody Vine Stratum (plot size: _____)			
1 _____	_____	_____	_____
2 _____	_____	_____	_____
	<u>0</u>	= Total Cover	
% Bare Ground in Herb Stratum <u>70</u>			

Dominance Test worksheet:

Number of Dominant Species
 That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species
 That are OBL, FACW, or FAC: 25% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL Species	x 1 =	<u>0</u>
FACW species	x 2 =	<u>0</u>
FAC Species	x 3 =	<u>0</u>
FACU Species	x 4 =	<u>0</u>
UPL Species	x 5 =	<u>0</u>
Column Totals	<u>0</u> (A)	<u>0</u> (B)

Prevalence Index =B/A = #DIV/0!

Hydrophytic Vegetation Indicators:

_____ 1- Rapid Test for Hydrophytic Vegetation
 _____ 2- Dominance Test is >50%
 _____ 3-Prevalence Index is ≤ 3.0¹
 _____ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet)
 _____ 5- Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Dollar Street City/County: West Linn/Clackamas Sampling Date: 6/11/2020
 Applicant/Owner: West Linn/Wilsonville Schools State: OR Sampling Point: 3
 Investigator(s): JT/MS Section, Township, Range: Township 2 South, Range 1 East, Section 34 and 34DC
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 5
 Subregion (LRR): LRR A Lat: 45.34738932, Long: -122.6699 Datum: WSG85
 Soil Map Unit Name: Willamette Silt Loam, Wet, 0-3% Slopes NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No X (if no, explain in Remarks)
 Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y
 Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks:
Precipitation was below the average and normal ranges for two of the three months prior to field work; therefore hydrological conditions were considered below normal for the delineation.

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status
Tree Stratum (plot size: _____)			
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
	<u>0</u>	= Total Cover	
Sapling/Shrub Stratum (plot size: <u>15</u>)			
1 <u>Corylus cornuta</u>	<u>35</u>	<u>X</u>	<u>FACU</u>
2 <u>Rubus armeniacus</u>	<u>15</u>	<u>X</u>	<u>FAC</u>
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
	<u>50</u>	= Total Cover	
Herb Stratum (plot size: <u>5</u>)			
1 <u>Pteridium aquilinum</u>	<u>25</u>	<u>X</u>	<u>FACU</u>
2 <u>Polystichum munitum</u>	<u>25</u>	<u>X</u>	<u>FACU</u>
3 <u>Carex leptopoda</u>	<u>20</u>	<u>X</u>	<u>FAC</u>
4 <u>Geranium robertianum</u>	<u>5</u>	_____	<u>FACU</u>
5 _____	_____	_____	_____
6 _____	_____	_____	_____
7 _____	_____	_____	_____
8 _____	_____	_____	_____
	<u>75</u>	= Total Cover	
Woody Vine Stratum (plot size: _____)			
1 _____	_____	_____	_____
2 _____	_____	_____	_____
	<u>0</u>	= Total Cover	
% Bare Ground in Herb Stratum _____			

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 40% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL Species _____	x 1 =	<u>0</u>
FACW species _____	x 2 =	<u>0</u>
FAC Species _____	x 3 =	<u>0</u>
FACU Species _____	x 4 =	<u>0</u>
UPL Species _____	x 5 =	<u>0</u>
Column Totals <u>0</u> (A)		<u>0</u> (B)

Prevalence Index =B/A = #DIV/0!

Hydrophytic Vegetation Indicators:

_____ 1- Rapid Test for Hydrophytic Vegetation
 _____ 2- Dominance Test is >50%
 _____ 3-Prevalence Index is ≤ 3.0¹
 _____ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet)
 _____ 5- Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Dollar Street City/County: West Linn/Clackamas Sampling Date: 6/11/2020
 Applicant/Owner: West Linn/Wilsonville Schools State: OR Sampling Point: 4
 Investigator(s): JT/MS Section, Township, Range: Township 2 South, Range 1 East, Section 34 and 34DC
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 5
 Subregion (LRR): LRR A Lat: 45.3478 Long: -122.6729 Datum: WSG85
 Soil Map Unit Name: Woodburn Silt Loam 8-15% Slopes NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No X (if no, explain in Remarks)
 Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y
 Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks:
Precipitation was below the average and normal ranges for two of the three months prior to field work; therefore hydrological conditions were considered below normal for the delineation.

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status
Tree Stratum (plot size: _____)			
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
	<u>0</u>	= Total Cover	
Sapling/Shrub Stratum (plot size: <u>15</u>)			
1 <u>Rubus armeniacus</u>	<u>60</u>	<u>X</u>	<u>FAC</u>
2 <u>Corylus cornuta</u>	<u>20</u>	<u>X</u>	<u>FACU</u>
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
	<u>80</u>	= Total Cover	
Herb Stratum (plot size: <u>5</u>)			
1 <u>Phalaris arundinacea</u>	<u>80</u>	<u>X</u>	<u>FACW</u>
2 <u>Callystegia sp</u>	<u>20</u>	<u>X</u>	<u>(FAC)</u>
3 <u>Blechnum spicant</u>	<u>5</u>	_____	<u>FAC</u>
4 _____	_____	_____	_____
5 _____	_____	_____	_____
6 _____	_____	_____	_____
7 _____	_____	_____	_____
8 _____	_____	_____	_____
	<u>105</u>	= Total Cover	
Woody Vine Stratum (plot size: _____)			
1 _____	_____	_____	_____
2 _____	_____	_____	_____
	<u>0</u>	= Total Cover	
% Bare Ground in Herb Stratum <u>0</u>			

Dominance Test worksheet:

Number of Dominant Species
 That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species
 That are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL Species _____	x 1 =	<u>0</u>
FACW species _____	x 2 =	<u>0</u>
FAC Species _____	x 3 =	<u>0</u>
FACU Species _____	x 4 =	<u>0</u>
UPL Species _____	x 5 =	<u>0</u>
Column Totals <u>0</u> (A)		<u>0</u> (B)

Prevalence Index =B/A = #DIV/0!

Hydrophytic Vegetation Indicators:

_____ 1- Rapid Test for Hydrophytic Vegetation
 _____ 2- Dominance Test is >50%
 _____ 3-Prevalence Index is ≤ 3.0¹
 _____ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet)
 _____ 5- Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Dollar Street City/County: West Linn/Clackamas Sampling Date: 6/11/2020
 Applicant/Owner: West Linn/Wilsonville Schools State: OR Sampling Point: 5
 Investigator(s): JT/MS Section, Township, Range: Township 2 South, Range 1 East, Section 34 and 34DC
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 5
 Subregion (LRR): LRR A Lat: 45.34791338, Long: -122.6720 Datum: WSG85
 Soil Map Unit Name: Willamette Silt Loam, Wet, 0-3% Slopes NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No X (if no, explain in Remarks)
 Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y
 Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks:
Precipitation was below the average and normal ranges for two of the three months prior to field work; therefore hydrological conditions were considered below normal for the delineation.

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status
Tree Stratum (plot size: <u>30</u>)			
1 <u><i>Pseudotsuga menziesii</i></u>	<u>100</u>	<u>X</u>	<u>FACU</u>
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
	<u>100</u>	= Total Cover	
Sapling/Shrub Stratum (plot size: <u>15</u>)			
1 <u><i>Sambucus racemosa</i></u>	<u>15</u>	<u>X</u>	<u>FACU</u>
2 <u><i>Frangula pershiana</i></u>	<u>5</u>	<u>X</u>	<u>FAC</u>
3 <u><i>Rubus armeniacus</i></u>	<u>5</u>	<u>X</u>	<u>FAC</u>
4 _____	_____	_____	_____
5 _____	_____	_____	_____
	<u>25</u>	= Total Cover	
Herb Stratum (plot size: <u>5</u>)			
1 <u><i>Polystichum munitum</i></u>	<u>60</u>	<u>X</u>	<u>FACU</u>
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
6 _____	_____	_____	_____
7 _____	_____	_____	_____
8 _____	_____	_____	_____
	<u>60</u>	= Total Cover	
Woody Vine Stratum (plot size: <u>15</u>)			
1 <u><i>Hedera helix</i></u>	<u>30</u>	<u>X</u>	<u>FACU</u>
2 _____	_____	_____	_____
	<u>30</u>	= Total Cover	
% Bare Ground in Herb Stratum _____			

Dominance Test worksheet:

Number of Dominant Species
 That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species
 That are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL Species _____	x 1 =	<u>0</u>
FACW species _____	x 2 =	<u>0</u>
FAC Species _____	x 3 =	<u>0</u>
FACU Species _____	x 4 =	<u>0</u>
UPL Species _____	x 5 =	<u>0</u>
Column Totals <u>0</u> (A)		<u>0</u> (B)

Prevalence Index =B/A = #DIV/0!

Hydrophytic Vegetation Indicators:

_____ 1- Rapid Test for Hydrophytic Vegetation
 _____ 2- Dominance Test is >50%
 _____ 3-Prevalence Index is ≤ 3.0¹
 _____ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet)
 _____ 5- Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/4	100					Silt Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input type="checkbox"/> Fac-Neutral Test (D5)
	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
	<input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes _____ No <u>X</u>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>
Water Table Present? Yes _____ No <u>X</u>	Depth (inches): <u>>16</u>	
Saturation Present? Yes _____ No <u>X</u> (includes capillary fringe)	Depth (inches): <u>>16</u>	

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

Remarks: _____

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Dollar Street City/County: West Linn/Clackamas Sampling Date: 6/11/2020
 Applicant/Owner: West Linn/Wilsonville Schools State: OR Sampling Point: 6
 Investigator(s): JT/MS Section, Township, Range: Township 2 South, Range 1 East, Section 34 and 34DC
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 1
 Subregion (LRR): LRR A Lat: 45.3490 Long: -122.6742 Datum: WSG85
 Soil Map Unit Name: Willamette Silt Loam, Wet, 0-3% Slopes NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No X (if no, explain in Remarks)
 Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y
 Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks:
Precipitation was below the average and normal ranges for two of the three months prior to field work; therefore hydrological conditions were considered below normal for the delineation.

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status
Tree Stratum (plot size: <u>30</u>)			
1 <u>Unidentified deciduous tree</u>	<u>30</u>	<u>X</u>	<u>(FACU)</u>
2 <u>Alnus rubra</u>	<u>10</u>	<u>X</u>	<u>FAC</u>
3 <u>Betula pendula</u>	<u>5</u>	<u>X</u>	<u>FACU</u>
4 _____	_____	_____	_____
	<u>45</u>	= Total Cover	
Sapling/Shrub Stratum (plot size: <u>15</u>)			
1 <u>Rubus armeniacus</u>	<u>30</u>	<u>X</u>	<u>FAC</u>
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
	<u>30</u>	= Total Cover	
Herb Stratum (plot size: <u>5</u>)			
1 <u>Polystichum munitum</u>	<u>30</u>	<u>X</u>	<u>FACU</u>
2 <u>Juncus tenuis</u>	<u>20</u>	<u>X</u>	<u>FAC</u>
3 <u>Epilobium ciliatum</u>	<u>10</u>	_____	<u>FACW</u>
4 <u>Carex leptopoda</u>	<u>10</u>	_____	<u>FAC</u>
5 _____	_____	_____	_____
6 _____	_____	_____	_____
7 _____	_____	_____	_____
8 _____	_____	_____	_____
	<u>70</u>	= Total Cover	
Woody Vine Stratum (plot size: <u>15</u>)			
1 <u>Hedera helix</u>	<u>20</u>	<u>X</u>	<u>FACU</u>
2 _____	_____	_____	_____
	<u>20</u>	= Total Cover	
% Bare Ground in Herb Stratum _____			

Dominance Test worksheet:

Number of Dominant Species
 That are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species
 That are OBL, FACW, or FAC: 43% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL Species	x 1 =	<u>0</u>
FACW species	x 2 =	<u>0</u>
FAC Species	x 3 =	<u>0</u>
FACU Species	x 4 =	<u>0</u>
UPL Species	x 5 =	<u>0</u>
Column Totals	<u>0</u> (A)	<u>0</u> (B)

Prevalence Index =B/A = #DIV/0!

Hydrophytic Vegetation Indicators:

_____ 1- Rapid Test for Hydrophytic Vegetation
 _____ 2- Dominance Test is >50%
 _____ 3-Prevalence Index is ≤ 3.0¹
 _____ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet)
 _____ 5- Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/3	100					Silt Loam	
8-16	7.5YR 4/4	100					Silt Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No **X**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)	<input type="checkbox"/> Fac-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
 Water Table Present? Yes _____ No **X** Depth (inches): **>16**
 Saturation Present? Yes _____ No **X** Depth (inches): **>16**
 (includes capillary fringe)

Wetland Hydrology Present?
 Yes _____ No **X**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Dollar Street City/County: West Linn/Clackamas Sampling Date: 6/11/2020
 Applicant/Owner: West Linn/Wilsonville Schools State: OR Sampling Point: 7
 Investigator(s): JT/MS Section, Township, Range: Township 2 South, Range 1 East, Section 34 and 34DC
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Convex Slope (%): 5
 Subregion (LRR): LRR A Lat: 45.35002100, Long: -122.6758 Datum: WSG85
 Soil Map Unit Name: Woodburn Silt Loam 8-15% Slopes NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No X (if no, explain in Remarks)
 Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y
 Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks:
Precipitation was below the average and normal ranges for two of the three months prior to field work; therefore hydrological conditions were considered below normal for the delineation.

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status
Tree Stratum (plot size: <u>30</u>)			
1 <u>Crataegus monogyna</u>	<u>30</u>	<u>X</u>	<u>FAC</u>
2 <u>Juglans nigra</u>	<u>20</u>	<u>X</u>	<u>UPL</u>
3 _____	_____	_____	_____
4 _____	_____	_____	_____
	<u>50</u>	= Total Cover	
Sapling/Shrub Stratum (plot size: <u>15</u>)			
1 <u>Rubus armeniacus</u>	<u>40</u>	<u>X</u>	<u>FAC</u>
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
	<u>40</u>	= Total Cover	
Herb Stratum (plot size: <u>5</u>)			
1 <u>Anthoxanthum odoratum</u>	<u>60</u>	<u>X</u>	<u>FACU</u>
2 <u>Fragaria sp</u>	<u>20</u>	_____	<u>(FAC)</u>
3 <u>Holcus lanatus</u>	<u>10</u>	_____	<u>FAC</u>
4 <u>Mitella sp</u>	<u>5</u>	_____	<u>(FAC)</u>
5 <u>Lapsana communis</u>	<u>5</u>	_____	<u>FACU</u>
6 <u>Trifolium pratense</u>	<u>5</u>	_____	<u>FACU</u>
7 <u>Rumex crispus</u>	<u>3</u>	_____	<u>FAC</u>
8 <u>Epilobium ciliatum</u>	<u>1</u>	_____	<u>FACW</u>
	<u>109</u>	= Total Cover	
Woody Vine Stratum (plot size: _____)			
1 _____	_____	_____	_____
2 _____	_____	_____	_____
	<u>0</u>	= Total Cover	
% Bare Ground in Herb Stratum _____			

Dominance Test worksheet:

Number of Dominant Species
 That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species
 That are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL Species	x 1 =	<u>0</u>
FACW species	x 2 =	<u>0</u>
FAC Species	x 3 =	<u>0</u>
FACU Species	x 4 =	<u>0</u>
UPL Species	x 5 =	<u>0</u>
Column Totals	<u>0</u> (A)	<u>0</u> (B)

Prevalence Index =B/A = #DIV/0!

Hydrophytic Vegetation Indicators:

_____ 1- Rapid Test for Hydrophytic Vegetation
 _____ 2- Dominance Test is >50%
 _____ 3-Prevalence Index is ≤ 3.0¹
 _____ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet)
 _____ 5- Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/6	100					Silt Loam	
2-6	10YR 3/2	100					Silt Loam	
6-16	7.5YR 3/2	100					Silt Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)	<input type="checkbox"/> Fac-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): >16
 Saturation Present? Yes _____ No X Depth (inches): >16
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

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).



#6960

8/24/2020



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

Photo documentation

Dollar Street School Project, West Linn Oregon

Photos taken June 11, 2020



Photo C:

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

Photo D:

Looking northeast at SP 2.



#6960

8/24/2020



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

Photo documentation

Dollar Street School Project, West Linn Oregon

Photos taken June 11, 2020



Photo E:

View of SP 3 looking southwest.

Photo F

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



#6960

8/24/2020



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

Photo documentation

Dollar Street School Project, West Linn Oregon

Photos taken June 11, 2020



Photo G:

View of Sample Point 4 looking southwest.

Photo H:

View of sample point 5 looking northeast.



#6960

8/24/2020



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

Photo documentation

Dollar Street School Project, West Linn Oregon

Photos taken June 11, 2020



Photo I:

View of SP 7 looking north.

Photo J:

View of top of ravine looking north.



#6960

8/24/2020



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

Photo documentation

Dollar Street School Project, West Linn Oregon

Photos taken June 11, 2020

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.