WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

Fully completed and signed report cover forms and applicable fees are required before report review timelines are initiated by the Department of State Lands. Make checks payable to the Oregon Department of State Lands. To pay fees by credit card, go online at: <u>https://apps.oregon.gov/DSL/EPS/program?key=4</u>.

of the report cover form and report, minimum 300 dpi resolution Street NE, Suite 100, Salem, OR 97301-1279. A single PDF	nd report or include a hard copy with a digital version (single PDF file n) and submit to: Oregon Department of State Lands, 775 Summer of the completed cover from and report may be e-mailed to: files larger than 10 MB, e-mail DSL instructions on how to access the
Contact and Authorization Information	
Applicant Owner Name, Firm and Address: Lance Vanderbeck, Airport Director Newport Municipal Airport 135 SE 84th Street South Beach, OR 97366	Business phone # (541) 867-7422 Mobile phone # (optional) E-mail: L.Vanderbeck@NewportOregon.gov
Authorized Legal Agent, Name and Address (if different): Business phone # Mobile phone # (optional) E-mail:
property for the purpose of confirming the information in the repo	
Typed/Printed Name: Lawce. Vanderdarck Date: 12-23-2019 Special instructions regarding s	Signature:
Project and Site Information	Ite access:
Project Name: Newport Municipal Airport Obstruction Removal	Latitude: 44.579275° Longitude: -124.059759°
Trojeot Humo, Homport manopary aport obstaction residence.	decimal degree - centroid of site or start & end points of linear project
Proposed Use:	Tax Map #See attached table.Tax maps and lots organized by study area
Removal of obstructions (trees) from FAA regulated cone of approach to Airport runways.	Tax Lot(s)
	Tax Map #
Project Street Address (or other descriptive location):	Tax Lot(s)
135 SE 84th Street	Township 11 S Range 11 S Section 29 QQ
	Use separate sheet for additional tax and location information
City: Newport/South Beach County: Lincoln	Waterway: Henderson Creek River Mile: NA
Wetland Delineation Information	
Wetland Consultant Name, Firm and Address: Luke Johnson, Wetland Biologist Environmental Science Associates 819 SE Morrison Street, Suite 310 Portland, OR 97214	Phone #(971) 295-5041 Mobile phone # (if applicable) E-mail: Ijohnson@esassoc.com
The information and conclusions in this form and in the attached Consultant Signature:	Date: 10/24/2019
Primary Contact for report review and site access is X (
Wetland/Waters Present? Xes No Study Ar	rea size: 521.25 acres Total Wetland Acreage: 7.2800
Check Applicable Boxes Below	SI - 414- \$166
 R-F permit application submitted Mitigation bank site 	✓ Fee payment submitted \$ 454 ⁻ \$466 ✓ Resubmittal of rejected report (\$100)
EFSC/ODOE Proj. Mgr:	Request for Reissuance. See eligibility criteria. (no fee)
Wetland restoration/enhancement project (not mitigation)	DSL # Expiration date
Previous delineation/application on parcel If known, previous DSL #	LWI shows wetlands or waters on parcel Wetland ID code
For O	ffice Use Only
DSL Reviewer: Fee Paid Date:	// DSL WD #
Date Delineation Received:// Scanne	ed: Electronic: DSL App.#

Study Area	Тах Мар	OR Tax lot #	Right of Entry
		2111.00S11.00W2900	
1	11-11-29-00-01402-00	000001402	Yes
1		2111.00S11.00W2900	
	11-11-29-00-01401-00	000001401	Yes
		2111.00S11.00W2900	
	11-11-29-00-01402-00	000001402	Yes
-		2111.00S11.00W2900	
2	11-11-29-00-01401-00	000001401	Yes
		2111.00S11.00W2900	
	11-11-29-00-00400-00	000000400	Yes
		2111.00S11.00W2000	
	11-11-20-00-02700-00	000002700	Yes
	11-11-20-00-02700-00	2111.00S11.00W2100	103
	11-11-21-00-01600-00	000001600	Yes
	11-11-21-00-01000-00	2111.00S11.00W2800	105
	11-11-28-00-00700-00	000000700	Yes
	11-11-28-00-00700-00	2111.00S11.00W2900	105
3	11-11-29-00-00100-00	000000100	Yes
	11-11-29-00-00100-00	2111.00S11.00W2900	105
	11-11-29-00-00500-00	000000500	Yes
	11-11-29-00-00300-00	2111.00S11.00W2900	105
	11-11-29-00-00600-00	000000600	Yes
	11-11-29-00-00000-00	2111.00S11.00W2900	103
	11-11-29-00-01000-00	000001000	Yes
	11-11-29-00-01000-00	00001000	105
		2111.00S11.00W3200	
	11-11-32-00-00200-00	00000200	Yes
		2111.00S11.00W3200	
	11-11-32-00-01602-00	000001602	Yes
		2111.00S11.00W3200	
	11-11-32-00-01601-00	000001601	Yes
		2111.00S11.00W3200	
	11-11-32-00-00201-00	00000201	No
		2111.00S11.00W3200	
4	11-11-32-00-01600-00	000001600	No
4		2111.00S11.00W32CC	
	11-11-32-CC-0ROAD-00	00000ROAD	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-00901-00	00000901	No
		2111.00S11.00W32CC	
	11-11-32-CC-00900-00	00000900	No
		2111.00S11.00W32CC	
	11-11-32-CC-00800-00	00000800	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01601-00	000001601	Yes

Study			
Area	Тах Мар	OR Tax lot #	Right of Entry
		2111.00S11.00W32CC	
	11-11-32-CC-01600-00	000001600	No
		2111.00S11.00W32CC	
	11-11-32-CC-01401-00	000001401	No
		2111.00S11.00W32CC	
	11-11-32-CC-01400-00	000001400	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01301-00	000001301	No
		2111.00S11.00W32CC	
	11-11-32-CC-01300-00	000001300	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01201-00	000001201	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01100-00	000001100	No
		2111.00S11.00W32CC	
	11-11-32-CC-01101-00	000001101	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01001-00	000001001	No
		2112.00S11.00W0500	
	12-11-05-00-00800-00	000000800	Yes
		2112.00S11.00W0500	
	12-11-05-00-0ROAD-00	00000ROAD	Yes
		2112.00S11.00W0500	
	12-11-05-00-00803-00	000000803	Yes
		2112.00S11.00W0500	
	12-11-05-00-00801-00	000000801	Yes
		2112.00S11.00W0600	
	12-11-06-00-00600-00	00000600	Yes
		2112.00S11.00W0600	
	12-11-06-00-0ROAD-00	00000ROAD	Yes
		2112.00S11.00W0600	
	12-11-06-00-00301-00	D00100301	No
		2112.00S11.00W0600	
	12-11-06-00-00300-00	D00100300	Yes
		2112.00S11.00W0600	
	12-11-06-00-00200-00	D00100200	Yes
		2112.00S11.00W0600	
	12-11-06-00-00100-00	D00100100	Yes
		2111.00S11.00W3200	
	11-11-32-00-01604-00	000001604	Yes
		2111.00S11.00W3200	
	11-11-32-00-01603-00	000001603	No
		2111.00S11.00W32CC	
	11-11-32-CC-01500-00	000001500	No
		2111.00S11.00W32CC	
	11-11-32-CC-01200-00	000001200	Yes
		2112.00S11.00W0500	
	12-11-05-00-00600-00	00000600	Yes

Study Area	Tax Map	OR Tax lot #	Right of Entry
		2112.00S11.00W0600	
	12-11-06-00-00302-00	D00100302	No
		2112.00S11.00W0500	
5	12-11-05-00-00800-00	000000800	Yes
		2112.00S11.00W0500	
6	12-11-05-00-00800-00	000000800	Yes
		2112.00S11.00W0500	
7	12-11-05-00-00803-00	000000803	Yes
		2112.00S11.00W0500	
8	12-11-05-00-00801-00	00000801	Yes
		2112.00\$11.00W0500	
	12-11-05-00-00802-00	00000802	Yes
	12 11 03 00 00002 00	2112.00S11.00W05CB	105
	12-11-05-CB-00300-00	000000300	Yes
		2112.00S11.00W05CB	105
	12-11-05-CB-00600-00	00000600	Yes
0		2112.00S11.00W05CB	
9	12-11-05-CB-00700-00	000000700	Yes
		2112.00S11.00W05CB	
	12-11-05-CB-00800-00	00000800	Yes
		2112.00S11.00W05CB	
	12-11-05-CB-0ROAD-00	00000ROAD	Yes
		2112.00S11.00W05CB	
	12-11-05-CB-00200-00	000000200	Yes
		2112.00S11.00W0000	
	12-11-00-00-03400-00	000003400	Yes
		2112.00S11.00W0000	
	12-11-00-00-03401-00	000003401	Yes
		2112.00S11.00W0000	
	12-11-00-00-03600-00	000003600	Yes
10		2112.00S11.00W0500	
	12-11-05-00-00803-00	000000803	Yes
		2112.00S11.00W0500	
	12-11-05-00-00802-00	000000802	Yes
		2112.00S11.00W0500	
	12-11-05-00-01000-00	000001000	Yes
		2112.00S11.00W0500	
	12-11-05-00-00900-00	00000900	Yes

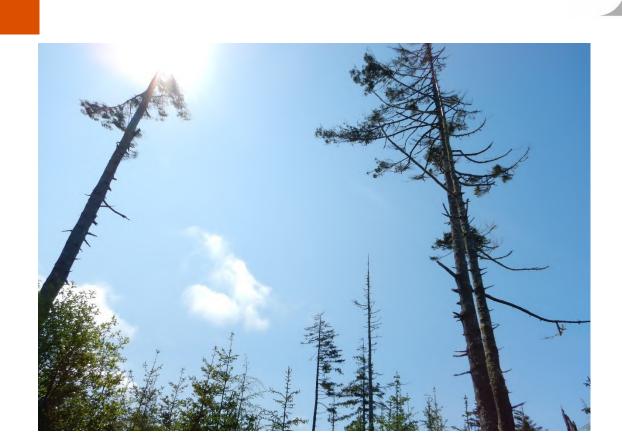
NEWPORT MUNICIPAL AIRPORT OBSTRUCTION REMOVAL WATER RESOURCE DELINEATION REPORT

Prepared for

October 2019

ESA

City of Newport



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Prepared for

October 2019

City of Newport



819 SE Morrison Street Suite 310 Portland, OR 97214 503.274.2010

TABLE OF CONTENTS

A) Landscape Setting and Land Use	1
B) Site Alterations	2
C) Precipitation Data and Analysis	3
D) Methods	5
Literature Review	5
Field Investigations	6
Soil Analysis	7
E) Description of All Wetlands and Other Nonwetland Waters	8
Wetlands	9
Other Nonwetland Waters	15
F) Deviation from LWI or NWI	17
G) Mapping Method	19
H) Additional Information	19
I) Results and Conclusions	19
J) Required Disclaimer	21

List of Tables

Table 1. Summary of Precipitation for Newport, Oregon (inches) – May Field Survey	4
Table 2. Summary of Precipitation for Newport, Oregon (inches) – September Field Survey	y 5
Table 3. Mapped Soil Units in the Water Resource Delineation Study Areas	8
Table 4. Summary of Water Resource Delineation	20

Appendices

- A. Figures
- B. Datasheets
- C. Photos
- D. Literature Cited

A) LANDSCAPE SETTING AND LAND USE

The City of Newport, Oregon (City) owns and operates Newport Municipal Airport (Airport). The Airport supported commercial passenger service with connections to Portland International Airport until 2011, when the service was discontinued. Today, the Airport is home to more than 26 light general aviation aircraft and approximately 20,000 annual aircraft operations.

The Airport is located within the Newport city limits in Lincoln County, east of U.S. Highway 101 (U.S. 101) at 135 SE 84th Street (**Appendix A**, Figure 1). The site is approximately 40 miles west of Corvallis in Section 29, Township 11 South, Range 11 South, of the Willamette Meridian. The Airport entrance is on SE 84th Street, just east of U.S. 101. Tax lots within the study areas are shown on Figure 2. National Wetlands Inventory (NWI) and soil mapping are shown on Figures 3 and 4.

The ten water resource delineation study areas are a mix of Airport-managed and private properties (**Appendix A**, Figure 2):

- *Study Areas 1 and 2* are on Airport property that is bounded by a freshwater pond to the north and by U.S. 101 to the west. A mix of privately managed forest is located east of the Airport property.
- *Study Area 3* is located on Airport, City of Newport Public Works, and privately managed forest properties.
- *Study Area 4* is a mix of Airport, rural-residential, and privately managed forest properties.
- *Study Areas 5–10* are located on privately managed forest lands that vary in condition. Study Area 5 is a small portion of a ridgeline within a large privately managed forest.

Current land use adjacent to the ten study areas consists of a mix of rural-residential and managed forests (**Appendix A**, Figure 2). These land uses have been in place for at least the last 25 years, and likely much longer. The study areas are located mostly within the City of Newport's urban growth boundary. Study Area 1 is zoned by the City as Light Industrial (I-1). Study Areas 2, 3, and 4 are zoned by the City as either Public Structures (P-1) or High Density Multi-Family. The small portion of Study Area 4 located outside of the urban growth boundary is zoned by Lincoln County as Timber Conservation (T-C).

The ten study areas are situated on steep terrain in the foothills and headlands of the Central Oregon Coast Range. The temperate rainforest in this area has been significantly altered through logging and development of roads. In areas that have been historically disturbed, the second-growth forests and shrub layers have very dense vegetation. The steep and diverse topography of the study areas is influenced by the drainages of four streams that flow west through these areas and into the Pacific Ocean. As a result, the topography is characterized by ridgelines and steep drainages. Elevations in the areas

1

range from 16 feet to 380 feet above mean sea level. The lowest elevations in these study areas are located at the bottom of drainages that flow into one of the four streams.

The average elevation of the Airport airfield is 140 feet above mean sea level. Airfield topography is mostly flat, with the elevation over most of the site varying from the mean by no more than 20 feet (**Appendix A**, Figures 5A–5K). The airfield's lowest elevations are located at the bottom of the drainage ditches that convey stormwater away from the Airport.

B) SITE ALTERATIONS

Alterations in and adjacent to the water resource delineation study areas that have influenced the presence, location, and boundaries of wetlands and other waters include logging, grading, leveling, building and road construction, and drainage to control naturally occurring hydrology. Most of the ten study areas have been altered by logging during the last 25 years.

Of the study areas, Study Areas 4–10 have experienced the most substantial alterations in the last 25 years. Alterations at those locations occurred between 2003 and 2005 and between 2014 and 2019:

- Study Areas 1 and 2: Between 1994 and 2000, most of Study Area 1 was clear-cut. Several access roads were also constructed within the study areas during this time. These roads have been regularly maintained through present day. Study Areas 1 and 2 experienced significant development between 2003 and 2005. During this time, extensive vegetation was cleared from an area roughly 150 feet wide by approximately 2,000 feet north from the edge of Runway 16. A series of towers, lights, and flight navigational aids was constructed in the vegetation clearing area. The navigational aid structure extends north of Study Area 2 and crosses the freshwater pond to the north. During this time, access roads and staging areas were also constructed. These access roads, compacted areas, and associated side ditches have intersected water resources in some areas and have concentrated hydrology in other areas. The access road that crosses Henderson Creek and its tributaries has likely impounded streamflows at the culvert crossings (Wetlands 11d, 11e, and 13), which has expanded previous wetland boundaries within the floodplain. In other areas, this access road has crossed the floodplain of Henderson Creek and has separated previously contiguous wetlands (Wetland 2, 11c, and 12). Between 2003 and 2005, several areas in the northeastern portion of Study Area 1 were clear-cut. The area has a network of access roads and staging areas that were likely built and expanded during that time.
- *Study Area 3*: Prior to 1994, an access road and the City of Newport Police shooting range were developed within a wetland complex and stream channel in the southeast portion of Study Area 3. This development likely displaced historic hydrology and

water resource features at this location. This concrete and gravel pad also likely impounded previous streamflows, which has converted a small stream into a wetland (Wetland 16). Between 1994 and 2000, most of Study Area 3 was clear-cut and subsequently managed as pasture for livestock between 1994 and 2011. Between 2000 and 2003, the City of Newport Public Works Department developed a wastewater treatment facility located outside of the study area and adjacent to the northwest boundary. Within the study area, Public Works developed a treatment pond (Wetland 15) in the northwest corner of the study area and clear-cut a large area for surface application of treated wastewater effluent.

- *Study Area 4*: Between 1994 and 2000, the eastern portion of Study Area 4 was clearcut. Several access roads and staging areas were also constructed within the study area during this time.
- *Study Areas 5, 6, 7, and 9*: Between 1994 and 2019, these four study areas have remained relatively unchanged.
- *Study Area 8 and 10*: Clear-cutting in these two study areas did not appear to have an impact on wetland boundaries. Between 2003 and 2005, all of Study Area 8 and the northeastern portion of Study Area 10 were clear-cut. Several access roads and staging areas were also constructed within the Study Area 10 during this time. The clear-cutting activity removed most of the area's vegetated cover, and a network of access roads was constructed. All areas of natural land cover in the clear-cut areas were significantly altered.
 - In 2005, a municipal water treatment facility and its associated access roads and staging facilities were built in the southwestern portion of Study Area 10. The construction of this facility resulted in the clearing of most vegetation and extensive grading to level the area.
 - Between 2014 and 2019, the southeastern portion of Study Area 10 was clear-cut. The clear-cutting activity removed most of the area's vegetated cover, and a network of access roads was constructed. All areas of natural land cover in the clear-cut areas were significantly altered.

C) PRECIPITATION DATA AND ANALYSIS

The climate of the water resource delineation study areas is characterized by cold, wet winters and cool, dry summers. Typical annual precipitation ranges between 71.21 and 130.29 inches, and average annual air temperature is 51.4 degrees Fahrenheit (USDA 2019).

Historic precipitation information was available from the WETS Station OTIS 2 NE, Oregon. Based on this station's records from 1987 to 2018, the growing season is February 1 through December 24, at the 50 percent interval (USDA 2019). Observations during the field survey/investigation suggested that the growing season had begun about 1 month before the field survey; herbs and shrubs were flowering and new growth on trees was apparent in the survey area vicinity. The water resource delineation was conducted during two separate field surveys, May and September 2019. A second field visit was conducted because additional land owner permission was granted. Recorded precipitation for each field survey is described below.

The recorded precipitation for the Water Year (October 1, 2018 – date of survey) was within the normal range for both field surveys (**Table 1** and **Table 2**). Recorded precipitation for the 3 months before the May field investigation totaled 27.05 inches, which was 2.51 inches below average for that interval but within the normal range (USDA 2019) (**Table 1**). Precipitation for February, 3 months before the fieldwork, was 10.8 percent above average and within the normal range. Precipitation for March, 2 months before the fieldwork, was more than 60 percent below average and was not within the normal range. Precipitation for April, the month before the fieldwork, was more than 30 percent above average and was not within the normal range. All precipitation that fell during this 3-month period was rain.

Ambient temperatures during the survey were about average, ranging from the mid-50s to mid-60s Fahrenheit.

			WETS		Within
Time Interval	Recorded Precipitation	Average	30% Chance Less	30% Chance More	Normal Range?
Oct. 2018–May 2019	68.85	87.20	61.30	103.36	Yes
Three Months before Ma	y field survey				
April 2019	11.15	8.13	5.92	9.2	No (above normal)
March 2019	3.95	10.95	8.16	13.21	No (below normal)
February 2019	11.95	10.48	7.05	12.24	Yes
Totals	27.05	29.56	21.13	34.93	Yes
Two weeks before May	field survey				
May 28–31, 2019	2.57	_	_	_	—
During May field survey					
May 27–31	0	_	_	_	_

 Table 1. Summary of Precipitation for Newport, Oregon (inches) – May Field

 Survey

Notes: Wetland (WETS) Climate Tables.

Source: USDA 2019.

Recorded precipitation for the 3 months before the September field investigation totaled 3.37 inches, which was 2.53 inches below average for that interval but within the normal range (USDA 2019) (**Table 2**). Precipitation for June, 3 months before the fieldwork, was more than 50 percent below average and not within normal range. Precipitation for July, 2 months before the fieldwork, was 18 percent above average and was within the normal

range. Precipitation for August, the month before the fieldwork, was more than 55 percent below average and was not within the normal range. All precipitation that fell during this 3-month period was rain.

Ambient temperatures during the survey were about average, ranging from the high-40s to mid-70s Fahrenheit.

 Table 2. Summary of Precipitation for Newport, Oregon (inches) – September Field

 Survey

			WETS		Within
Time Interval	Recorded Precipitation	Average	30% Chance Less	30% Chance More	Normal Range?
Oct. 2018– Aug. 2019	74.44	94.3	65.59	111.94	Yes
Three Months before field	d survey				
August 2019	0.62	1.5	0.63	1.82	No (below normal)
July 2019	1.23	1.04	0.44	1.21	Yes
June 2019	1.52	3.39	2.30	4.06	No (below normal)
Totals	3.37	5.90	3.37	7.09	Yes
Two weeks before field	survey				
Sept. 8 - 22, 2019	0.28	_	_	_	-
During September field	During September field survey				
Sept. 23 - 26	0	_	_	_	_

D) METHODS

Literature Review

The following resources were reviewed and analyzed to aid in the identification of wetlands and other waters in the ten water resource delineation study areas:

- Soil Map for Lincoln County, Oregon, acquired from the Web Soil Survey, National Cooperative Soil Survey (NRCS-USDA 2019).
- Lists of Hydric Soils, National List, all states (NRCS-USDA 2019).
- National Wetlands Inventory (NWI) map from Oregon Explorer (2019).
- Draft Local Wetlands Inventory, City of Newport (2012).
- Precipitation Data and Climate Analysis for Wetlands, Wetland (WETS) Climate Tables Station: Oregon City (USDA 2019).
- Aerial imagery from 1994 to 2017 (Google Earth 2019) for land use history analysis.

- Aerial imagery from Esri World Imagery Map (Esri 2019).
- Topographic contours (Oregon Lidar Consortium LiDAR 2019).
- Stream and lake polygons and tax parcels (Lincoln County 2019).
- Roads (Lincoln County 2019).
- Plant identification references: Hitchcock and Cronquist (1976), Pojar and MacKinnon (2004), Cooke (1997); and Lichvar et al. (2016).

Field Investigations

Before the start of field investigations, available resources were reviewed and a list of potential wetland characteristics was compiled. The list included soil descriptions and locations of hydric soil types, if present; mapped water resources, if present; features on aerial images suggesting the presence of water resources; and topographic depressions and other low areas indicating geomorphic position.

Environmental Science Associates (ESA) staff members conducted two water resource investigations in the field on May 27–31, 2019 and September 23–26, 2019, following routine wetland delineation methods defined in the U.S. Army Corps of Engineers (Corps) *Wetlands Delineation Manual* (Environmental Laboratory 1987) and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Region* (Corps 2010).

Site-specific methods for delineating water resources included establishing paired plots at potential wetland sites and in adjoining uplands throughout the ten water resource delineation study areas to ensure the full sampling coverage of representative areas. Sample plots were strategically placed in areas mapped as wetland by the NWI or the draft Local Wetlands Inventory (LWI), and in areas with mapped hydric soils. Any other areas exhibiting wetland characteristics were also sampled. Additionally, informal sample plots and observations were recorded in the field to verify site conditions, wetland boundaries, or describe natural resources in the vicinity. Early-summer-season hydrology, growing conditions, and soil temperatures were present during the first survey, and late-summer conditions were observed during the second survey. Hydrology, growing conditions, and soil temperatures were all considered in the interpretation of field observations.

The ordinary high water line (OHWL) of streams was determined in the field in accordance with current Department of State Lands (DSL) and Corps stream delineation methodology. Field indicators of OHWL recognized by DSL include the following:

- 1) Clear, natural line impressed on the shore, including scour, shelving, and exposed roots.
- 2) Change in plant community from riparian (e.g., willows) to upland (e.g., oak, fir) dominated.

- 3) Textural change of depositional sediment or changes in the character of the soil (e.g., from sand, sand and cobble, cobble and gravel to upland soils).
- 4) Elevation below which no fine debris (needles, leaves, cones, seeds, soil organic matter) occurs.
- 5) Presence of water-borne litter and debris, wrack accumulation, water-stained leaves, water lines on tree trunks, flattened vegetation. Certain farming practices can obscure these indicators.

Corps regulations define OHWL or the "ordinary high water mark" for purposes of the Clean Water Act lateral jurisdiction at 33 Code of Federal Regulations (CFR) 328.3(c, which states: "The term *ordinary high water mark* means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas."

Field sampling was performed by Professional Wetland Scientist Jeff Barna and wetland biologist Luke Johnson during the May survey, and by Luke Johnson and wetland biologist Amanda Brophy during the second survey.

Soil Analysis

Eight soil types are mapped by the Web Soil Mapper in the ten study areas (**Appendix A**, Figure 4) (NRCS-USDA 2019) (**Table 3**). All soils are native and share their origin from Pacific Ocean marine deposits or the Coast Ranges. The study areas are located primarily on marine terraces and hillslopes, with small portions of Study Areas 2, 3 and 4 located on floodplains.

The eight mapped soil types in the water resource delineation study areas are a mix of textures:

- Bandon fine sandy loam (3E) is a well-drained sandy-gravelly loam.
- Brenner silt loam (9A) is a poorly drained fine silty clay loam.
- Fendall-Templeton silt loam (18G) is a well-drained, fine, and mixed silt loam.
- Lint silt loam (35E) is a well-drained and medial mix of slightly decomposed plant material and silt loam.
- The two types of Nelscott loams (42C and 42E) in the water resource delineation study areas are a moderately well-drained fine loamy loam.
- The Urban Land-Nelscott complex (59C) is also a moderately well-drained fine loamy loam in areas that are not developed.
- Yaquina fine sand (67A) is a somewhat poorly drained fine sand.

Fill material, which was introduced during the development of the Airport, roads, and other structures, was observed throughout the water resource delineation study areas for the ten study areas.

Map Unit Symbol	Map Unit Name	Percent of Study Areas 1–10	Component Landform	Hydric Soil?	% Hydric Inclusions
3E	Bandon fine sandy loam, 12 to 50 percent slopes	0.0% (0.1 acre)	Marine terraces	No	0%
9A	Brenner silt loam, 0 to 2 percent slopes	0.0% (0.2 acre)	Floodplains	Yes	0%
18G	Fendall-Templeton silt loams, 35 to 60 percent slopes	0.2% (1.3 acres)	Hillslopes	No	0%
35E	Lint silt loam	11.7% (61.1 acres\)	Marine terraces	No	2%
42C	Nelscott loam, 3 to 12 percent slopes	39.8% (160.5 acres)	Marine terraces	No	0%
42E	Nelscott loam, 12 to 50 percent slopes	33.2% (173.3 acres)	Marine terraces	No	0%
59C	Urban Land-Nelscott complex, 0 to 12 percent slopes	2.2% (11.5 acres)	Marine terraces	No	5%
67A	Yaquina fine sand, 0 to 3 percent slopes	0.1% (0.5 acre)	Marine terraces	Yes	8%

Table 3. Mapped Soil Units in the Water Resource Delineation Study Areas

Source: NRCS-USDA 2019.

E) DESCRIPTION OF ALL WETLANDS AND OTHER NON-WETLAND WATERS

Twenty-seven wetlands and thirteen stream segments were delineated during the two surveys. Stream segments are described in the sub-section below. Wetlands are numbered 1 through 30, however, Wetlands 1, 17, and 22 do not appear on the delineation maps because they have been combined with another wetland feature. One wetland was mapped in Study Area 1 (Appendix A, Figure 5B, six in Study Area 2 (Figure 5B and 5C), 13 in Study Area 3 (Figures 5C, 5D, and 5E), nine in Study Area 4 (Figure 5F and 5G), and one in Study Area 10 (Figure 5K). The wetlands documented in these five study areas can be organized generally into two categories: wetlands associated with floodplains, and wetlands within forested slopes or seeps. The six wetlands mapped in Study Area 2 (Wetlands 2, 9 10, 11, 12, 13) were similar in vegetation structure and topography but differed in wetland criteria. The 13 wetlands documented in Study Area 3 (Wetlands 14 - 26) were similar in vegetation structure, topography, and condition. Similarly, the eight wetlands in Study Area 4 (Wetlands 27 - 29 and 30a - 30e) were similar in vegetation structure, topography, and condition, as they are all either within the floodplain of Moore Creek or spring-fed seeps situated along the same hillslope. The one wetland documented at Study Area 10 (Wetland 3) is within a steep drainage and is similar in topography to the seep wetlands found in Study Area 4; however, its vegetation structure is distinct.

Vegetation in all wetlands was determined to be hydrophytic. Wetland soils and hydrology were less consistent in significantly disturbed areas, but were generally also

present in wetlands. Uplands lacked hydric soils or wetland hydrology; however, hydrophytic plant communities were documented in several upland sample plots. **Appendix B** presents the wetland determination data forms completed for this delineation.

Table 4 (at the end of the report) summarizes delineated and likely jurisdictional water resources. The specific characteristics of each delineated water resource are described below.

Wetlands Wetland 2 and 12

Wetlands 2 and 12 are palustrine emergent wetlands (Cowardin et al. 1979) situated within a ditch along the south side of an airport access road. Data sheets for Wetland 2 and Wetland 12 include wetland sample plot Sp08 and upland plot Sp09. Wetland 12 is located downslope of Wetland 2 within the same ditch system. Wetlands 2 and 12 are situated within the deepest portions of the ditch that runs the length of the access road, which is likely what contributes to the wetland hydrology. These features have a width of up to 20 feet. A steep seasonal drainage adjacent to Wetland 12 is a likely source of hydrology for this portion of the wetland. At the lateral mid-point and the lowest elevation of Wetland 12, there is a 2-foot diameter culvert that functions as an outlet for this feature. The vegetation is dominated by hydrophytic herbaceous species, such as common velvetgrass (Holcus lanatus, FAC) and soft rush (Juncus effusus, FACW) (Appendix C, Photo 3). Other plant species included skunk cabbage (Lyschiton americanus, OBL), common horsetail (Equisetum arvense, FAC), and thimbleberry seedlings (*Rubus parviflorus*, FACU). The boundaries of these wetlands were defined by the road bed and the adjacent steep hillslopes (Appendix C, Photo 4). The boundary above the ditch was established along a transition from a hydrophytic plant community to an upland plant community.

Soils within these wetlands were compacted roadfill. However, soils were assumed to be hydric based on wetland hydrology and hydrophytic plants. Wetland hydrology was present throughout as saturation and 4 inches of standing water.

Wetland 3

Wetland 3 is a palustrine emergent wetland (Cowardin et al. 1979) located within a steep drainage that has recently been clear-cut. At this location in the drainage, local topography has been leveled to an approximate 2 percent slope, and surface water has pooled behind the topographic break and large woody debris (**Appendix C**, Photo 5). The hydrogeomorphic classification for this wetland is depressional. Wetland hydrology indicators observed in Wetland 3 included 3 inches of ponded water, soil saturation, and a high water table. Dominant vegetation was skunk cabbage; other plant species included deer fern (*Blechnum spicant*, FAC), salal (*Gaultheria shallon*, FACU), chaparral

willowherb (*Epilobeum minutum*, FACU), and salmonberry seedlings (*Rubus spectabilis*, FAC).

Soils in wetland sample plot Sp11 were disturbed and were assumed to be hydric based on wetland hydrology and a hydrophytic plant community. The paired upland plot for this feature was Sp12.

The boundary of Wetland 3 was established along a topographic break that reflected a change in soils and hydrology indicators.

Wetlands 4, 5, 6, 7, and 8

Wetlands 4, 5, 6, 7, and 8 are a series of five parallel palustrine forested seep wetlands (Cowardin et al. 1979) situated in short and steep drainages that flow into the floodplain of a larger water resource feature outside of the water resource delineation study area. These features had steep valley walls and an average slope greater than7 percent (**Appendix C**, Photos 9, 10, 11, 12, and 13). Few trees were established in these narrow wetlands; however, the upland banks were dominated by a dense canopy of old-growth western hemlock (*Tsuga heterophylla*, FACU) and Sitka spruce (*Picea stichensis*, FAC). An occasional shrub layer in these features included salmonberry. The herb stratum in these wetlands was dominated by skunk cabbage and, with the exception of Wetland 8 (Sp29), deer fern (**Appendix C**, Photo 13). Wetland hydrology in these features was indicated by two to three inches of surface water, as well as saturated soils and a water table to the soil surface.

Soils for Wetlands 4, 5, 6, 7, and 8 consisted of silt loam with some gravels and met the depleted matrix (F3) hydric soil indicator. Data sheets for Wetland 4 are wetland sample plot Sp20 and upland plot Sp21. Wetland 5 has wetland sample plot Sp22 and upland plot Sp23, Wetland 6 has wetland sample plot Sp25 and upland plot Sp24, Wetland 7 has wetland sample plot Sp27 and upland plot Sp26, and Wetland 8 has wetland sample plot Sp29 and upland plot Sp28.

Wetlands 9 and 10

Wetlands 9 and 10 are palustrine forested wetlands (Cowardin et al. 1979) that are similar in topography, vegetation structure, and condition. Both features are located within a sloped depression perched on a forested terrace. The depression of Wetland 10 is distinct, as it forms a bottleneck and slopes downhill. Wetlands 9 and 10 are shaded by the large western hemlocks located within the wetlands and on the upland banks. Dominant vegetation in these features includes a salmonberry shrub layer and an herbaceous layer of skunk cabbage and slough sedge (*Carex obnupta*, OBL) (**Appendix C**, Photos 17, 18, and 19).

Soils were saturated to the surface at the time of the May survey, and patches of ponded water as deep as 4 inches were distributed throughout both features. Soils had a hydrogen sulfide odor (A4), a depleted matrix (F3), and a silt loam texture. Wetland 9 resembles an

hourglass and occurs entirely within the study area, whereas Wetland 10 extends off-site. The wetland sample plot for Wetland 9 is Sp33 and the upland plot is Sp32. The wetland sample plot for Wetland 10 is Sp36 and the upland plot is Sp35.

Wetlands 11a, 11b, 11c, 11d, and 11e

Wetlands 11a, 11b, 11c, 11d, and 11e are parts of a large wetland complex associated with the floodplain and drainage tributaries of Henderson Creek. All of these features are located within the floodplain of Henderson Creek or an adjacent tributary drainage. These features include palustrine forested, scrub-shrub, and emergent wetlands (Cowardin et al. 1979). Wetland 11a is the only palustrine emergent wetland within this wetland complex (**Appendix C**, Photo 25). The topography of this wetland complex is defined by the floodplains and drainages associated with Henderson Creek (described below) and its tributaries. The boundaries of this wetland complex are generally at the toe of the valley walls. The forested portions of this wetland complex are dominated by red alder (*Alnus rubra*, FAC) within the floodplain (**Appendix C**, Photos 26 and 27). Dominant vegetation in scrub-shrub portions of this wetland complex includes Douglas spirea (*Spirea douglasii*, FACW), twinberry honeysuckle (*Lonicera involucratra*, FAC), red alder, and slough sedge. Other dominant species observed throughout the wetland complex include salmonberry and skunk cabbage.

Along the wetland boundaries, soils were saturated 5 inches below the surface at the time of the September survey. Soils had a hydrogen sulfide odor (A4), a depleted matrix (F3), and a silt loam texture. The wetland sample plot for the wetland complex is Sp136 and the upland plot is Sp137.

Wetlands 13

Wetland 13 is a palustrine scrub-shrub wetland (Cowardin et al. 1979) located within a depression that is separated from the Wetland 11a–e complex by a forest-access road. The concave depression that defines the wetland boundaries is constrained by steep valley walls on three sides. The northern wetland boundary is established by infill from the adjacent forest access road. Dominant plants within Wetland 13 include red alder, Pacific blackberry (*Rubus ursinus*, FACU), Himalayan blackberry (*Rubus armeniacus*, FAC), twinberry honeysuckle, and slough sedge. Soil surfaces were saturated at the time of the September survey, and patches of ponded water as deep as 6 inches were distributed throughout this feature (**Appendix C**, Photo 29). Soils had a depleted matrix (F3) and sandy loam texture with high organic content. The wetland sample plot for the wetland complex is Sp126 and the upland plot is Sp127.

Wetland 14

Wetland 14 is a palustrine forested wetland (Cowardin et al. 1979) located in the northwest portion of Study Area 3. Similar to Wetland 13, this feature is also separated from a larger floodplain feature by a forest-access road. The northern wetland boundary

is established by infill from the adjacent forest access road. Dominant vegetation includes Western hemlock, salmonberry, red huckleberry (*Vaccinium parvifolium*, FACU), skunk cabbage, and slough sedge (**Appendix C**, Photo 30). The dark silt loam soils had a hydrogen sulfide odor (A4). Hydrology indicators at the wetland sample plot Sp101 included soil saturation at 4 inches and a water table present at 7 inches. The upland sample plot for this feature is Sp102.

Wetland 15

Wetland 15 is a palustrine emergent wetland (Cowardin et al. 1979) located within a constructed stormwater/wastewater treatment pond. The wetland boundary is defined by the large berm that surrounds the perimeter of this feature (**Appendix C**, Photos 33 and 34). This wetland was sparely vegetated with hairy cat's ear (*Hypochaeris radicata*, FACU). The first 6 inches of soil in this feature included a distinct fill material that seemed to function as a filter media. No surface hydrology was present at the time of survey in May. Soils met the redox dark surface (F6) hydric soils indicator and were saturated to a depth of 4 inches. The sample plot for this wetland is Sp103 and the upland plot is Sp104.

Wetland 16

Wetland 16 is a palustrine emergent wetland (Cowardin et al. 1979) located in a depression at the base of a steep drainage feature (**Appendix C**, Photo 53). The wetland is immediately upslope of a large concrete pad, which determines the southwest wetland boundary. Dominant vegetation in this feature included red alder, soft rush, and common horsetail. Soils were disturbed from a nearby sand stockpile and were a dark sandy loam with high organic content that contained a hydrogen sulfide odor (A4). Wetland hydrology indicators included surface water, water table, and saturation to the surface. Wetland sample plot is Sp138 and the upland plot is Sp139.

Note: There is no Wetland 17.

Wetland 18

Wetland 18 is a palustrine emergent wetland (Cowardin et al. 1979) within a concave swale that is located at the base of two slightly depressed drainages. The wetland boundary is marked at the toe of the sloped swale walls (**Appendix C**, Photo 36). Dominant vegetation includes red alder and slough sedge. Patches of common duckweed (*Lemna minor*, OBL) were observed throughout the wetland. Soils had a hydrogen sulfide odor (A4) and depleted matrix (F3). Hydrology indicators at the wetland sample plot Sp109 included soil saturation and water table at the surface. Surface water was observed at lower points within the feature. The upland sample plot for this feature is Sp110.

Wetlands 19 and 20

Wetlands 19 and 20 are palustrine forested wetlands (Cowardin et al. 1979) influenced by groundwater seeps with steep hillslopes. Both of these wetlands are upslope of the floodplain of Stream 4, described below. Wetland 19 is within a concave depression at the base of a steep drainage (**Appendix C**, Photo 39). Several groundwater seeps influence the hydrology of this feature. Located approximately 200 feet downstream of Wetland 19, Wetland 20 is a similar feature (**Appendix C**, Photo 38). Dominant vegetation in both features includes salmonberry and skunk cabbage. Wetland 19 also included deer fern and lady fern (*Athyrium cyclosorum*, FAC). Soils were a dark sandy loam and had a hydrogen sulfide odor (A4). At least 2 inches of surface water was present in patches throughout these features at the time of survey in September. The wetland sample plot for Wetland 19 is Sp115 and its upland plot is Sp114. The wetland sample plot for Wetland 20 is Sp112 and its upland plot is Sp113.

Wetlands 21a and 21b

Wetlands 21a and 21b are a palustrine forested wetland (Cowardin et al 1979) mapped within the floodplain of Henderson Creek that are connected by a 24-inch culvert under a farm-access road in the eastern portion of Study Area 3. This feature is confined to the north and south by steep valley walls. The eastern boundary of Wetland 21a and the western boundary of Wetland 21b are marked by the riprap and fill material that forms the road-bed for a north-south farm-access road. In the absence of this road, Wetlands 21a and 21b would likely be one continuous wetland feature. Dominant vegetation includes western hemlock, red alder, salmonberry, red huckleberry, skunk cabbage, and water parsley (*Oenanthe sarmentosa*, OBL). Soils were a silt loam with high organic content that had greasy texture and a hydrogen sulfide odor (A4). Soils were saturated to the surface, and ponded water was observed in the hummocky depressions throughout the feature (**Appendix C**, Photo 41). The wetland sample plot for this feature is Sp117B and the upland plot is Sp118.

Note: There is no Wetland 22.

Wetland 23

Wetland 23 is a palustrine emergent wetland (Cowardin et al. 1979) mapped within a concave swale at the mid-point of a gently sloped pasture (**Appendix C**, Photo 43). The swale appears to collect the stormwater drainage from convergent slopes located uphill. The wetland is confined by the 2- to 3-foot walls of the eroding swale feature. Dominant vegetation observed includes Himalayan blackberry, soft rush, common birds-foot trefoil (*Lotus corniculatus*, FAC), and common bent grass (*Agrostis capillaris*, FAC). Hydric soils in the feature were a silt loam and had a depleted matrix (F3). Hydrology was

indicated by oxidized rhizospheres along living roots (C3). Wetland sample plot is Sp120 and the upland plot is Sp121.

Wetland 24

Wetland 24 is a palustrine emergent wetland (Cowardin et al 1979) mapped within a drainage feature located at the downhill edge of a sloped pasture. This wetland is confined by steep valley slopes on the right and left banks. Surface hydrology is impounded by the embankment of a farm-access road and flows are routed through an 8-inch culvert (**Appendix C**, Photo 45). Wetland 24 is surrounded by an upland western hemlock forest; however, dominant vegetation within the wetland is red alder, salmonberry, slough sedge, and skunk cabbage. Soils were a silt loam that had greasy texture and a hydrogen sulfide odor (A4). Surface water depth ranges from the 1 inch at the perimeter to several feet at its deepest points. The wetland sample plot is Sp142 and the upland plot is Sp143.

Wetlands 25a, 25b, and 26

Wetlands 25a, 25b, and 26 are palustrine forested wetlands (Cowardin et al. 1979) mapped within a steep drainage feature that is bisected by a farm-access road. Wetlands 25a and 25b are one contiguous feature that is connected by an 8-inch culvert under a farm-access road (**Appendix C**, Photo 52). Wetland 26 is within the same drainage basin as Wetlands 25a and 25b; however, it is confined by the farm-access road and the toe of a steep. Wetland 26 resembles a roadside ditch but would likely be contiguous with Wetlands 25a and 25b in the absence of the farm-access road (**Appendix C**, Photos 47, 48, and 49). Dominant vegetation in both features was red alder, salal, and deer fern. Soils were a combination of mucky and loamy sand with a hydrogen sulfide odor (A4). Saturation was present at the surface throughout both wetlands, and Wetland 26 had surface water at the sample plot. The wetland sample plot for Wetland 25 is Sp122 and the upland plot is Sp123. The wetland sample plot for Wetland 26 is SP125 and the upland plot is 123.

Wetlands 27, 28, and 29

Wetlands 27, 28, and 29, are palustrine emergent and scrub-shrub wetlands (Cowardin et al. 1979) mapped within the floodplain of Moore Creek (**Appendix C**, Photos 57, 58, and 59). These three wetlands are similar in their proximity, likely formation, and structure. Each feature is confined by the very steep valley walls on each bank and has been influenced by historic beaver activity. Wetland 27 has most recently been influenced by an inactive beaver dam located at its southwestern boundary. Dominant vegetation in Wetland 27 included slough sedge, common duckweed, and false Solomon's seal (*Maianthemum racemosum*, FAC). Other plants observed include lady fern and water parsley. Wetland 29 was distinctively the least influenced by beaver activity of these

three wetlands; however, occasional beaver chew was observed throughout. Dominant vegetation in Wetland 27 included willow (*Salix* sp., FAC), red alder, and slough sedge. Wetland 29 was historically influenced by beaver activity, but this feature was transitioning to a scrub-shrub habitat type. Young red alder trees were more prevalent in this feature than Wetland 27, where there were very few trees. Dominant vegetation in Wetland 29 included red alder and slough sedge. Soils in the three wetlands had a hydrogen sulfide odor (A4), and in Wetland 29 soils had redox dark surface (F6). Hydric soils in Wetlands 27 and 28 had a depleted matrix (F3). Soils were saturated to the surface in each feature. Wetland sample plot for Wetland 27 is Sp131 and the upland plot is Sp130. Wetland sample plot for Wetland 28 is Sp132 and the upland plot is Sp133. Wetland sample plot for Wetland 29 is Sp134 and the upland plot is 135.

Wetlands 30a, 30b, 30c, 30d, and 30e

Similar to the series of seep wetlands described above (Wetlands 4–8), Wetlands 30a, 30b, 30c, 30d, and 30e are a series of five parallel palustrine forested wetlands (Cowardin et al. 1979) situated in short, steep drainages that flow into the floodplain of Thiel Creek outside of the water resource delineation study area. These features had steep valley walls, water table present at the surface, and an average slope greater than 5 percent (**Appendix C**, Photos 60 and 61). Few trees were established in these narrow wetlands; however, the upland banks were dominated by a dense canopy of old-growth western hemlock and Douglas fir (*Pseudotsuga menziesii*, FACU) (**Appendix C**, Photo 60). An occasional shrub layer in these features included select salmonberry plants. The herb stratum in these wetlands was dominated by skunk cabbage and slough sedge (**Appendix C**, Photo 61). Wetland hydrology in this series of seeps was indicated by 1 to 2 inches of surface water, soil saturation, and a present water table. A typical soil profile for one of these wetlands was a dark matrix and a mix of sand and silt loams. Soils for Wetland 30a had high organic content throughout. Data sheets for the Wetland 30 series are wetland sample plot Sp128 and upland plot Sp129.

Other Non-wetland Waters Henderson Creek

One section of Henderson Creek was mapped in Study Area 3 and one section was mapped in Study Area 2. The upstream portion, a 1,675-linear-foot section of Henderson Creek, flows from southeast to northwest through Study Area 3. This section is an average 3-foot wide stream channel that flows through an average 30-foot wide floodplain (**Appendix C**, Photo 42). The stream is routed through a 24-inch culvert under a farm-access road in the central-eastern portion of Study Area 3. This culvert likely causes impoundment during storm events. OHWL indicators observed in the field were drift deposits, vegetation breaks, and bankfull benches. The1,600-linear-foot section of Henderson Creek in Study Area 2 is downstream of Study Area 3 and flows northeast to southwest through the study area. The average bankfull width of this section gradually increases from 5 feet to 10 feet throughout its course. Approximately 100 feet downstream of its confluence with Stream 1 (described below), Henderson Creek is routed through a 24-inch culvert under the Airport access road. Within this reach, OHWL indicators observed were scour lines, changes in sediment, and changes in plant communities. In both sections, the valley walls are steep and the floodplain is densely vegetated with riparian shrubs.

Stream 1 – Unnamed Tributary to Henderson Creek

One 1,400-linear-foot section of Stream 1, an Unnamed Tributary to Henderson Creek that flows from southeast to northwest, is located in Study Area 3, and one 660-linear-foot section of Stream 1 is located in Study Area 2.

The channel and hydrology of the stream within Study Area 3 are significantly altered by roads, culverts, and impoundments. The headwaters channel of this stream, Wetland 16, has been altered by the development of the City of Newport Police shooting range and the associated access road. The small structures and fill material likely occupy the historic channel and floodplain. The 12-inch culvert and outlet from Wetland 16 marks the beginning of the existing stream channel. The bankfull width is 5 feet at this culvert outlet, and approximately 150 feet downstream the channel widens to a 15-foot average bankfull width. At this mid-section of the stream, the channel is densely vegetated and the banks are very steep, overgrown, and treacherous. The stream channel gradually widens downstream to 80 feet wide near a constructed impoundment at a farm-road crossing in the southwest corner of Study Area 3 (Appendix C, Photo 50). At this location, the stream is routed through a 24-inch culvert under a farm-access road and into a second impounded stream channel that with an average 20-foot bankfull width (Appendix C, Photo 51). The stream then routes through a 12-inch culvert under a second farm-access road and flows into a severely scoured drainage that has been stabilized with riprap and roadfill. Approximately 50 feet downstream of this second crossing, the stream channel develops stable banks with a 5-foot average bankfull width.

The free-flowing section of Stream 1 located in Study Area 2 has an average bankfull width of 10 feet and an average floodplain width of 60 feet. The vegetation within the floodplain is a very dense shrub layer that is confined by steep valley walls on each bank. This section flows into Henderson Creek within Study Area 2.

Streams 2 and 3

A 425-linear-foot section of Stream 2, a tributary to Stream 1, is mapped within the southwest quadrant of Study Area 3. This steep stream has a 3-foot average bankfull width. Stream 3 is a 650-linear-foot tributary to Stream 2 that is mapped within Study Area 3 (**Appendix C**, Photo 44 and 46). This stream has a bankfull width of 2 feet. OHWL indicators observed in the field were moss lines, scour line, and vegetation breaks.

Streams 4 and 8

A 650-linear-foot section of Stream 4 was mapped within the northeast quadrant of Study Area 3 (**Appendix C**, Photo 37). The channel of this steep stream is clogged with large woody debris throughout the delineated reach. OHWL indicators observed in the field were bankfull benches and moss lines. Approximately 1,000 feet north of Stream 4 in a parallel drainage, a 500-linear-foot section of Stream 8 was mapped in the northeast quadrant of Study Area 3 (**Appendix C**, Photo 32). Similar to Stream 4, the channel is fairly straight and is within a deep drainage clogged with large woody debris. OHWL indicators observed in the field were were scour lines, changes in sediment, and changes in plant communities. Streams 4 and 8 are the only mapped streams within the ten study areas that discharge to Yaquina Bay.

Moore Creek and Stream 7

A 1,550-linear-foot section of Moore Creek, which flows from east to west, was mapped in the northern portion of Study Area 4. The average bankfull width of this headwater stream ranges from 10 to 18 feet, depending on the reach (**Appendix C**, Photo 57). Within Study Area 4, the floodplain of the stream is confined by steep and densely vegetated valley walls on each bank. Wetlands 27, 28, and 29 were delineated within the Moore Creek floodplain. Throughout the mapped stream length, the banks are steep, overgrown, and treacherous. The OHWL of the stream was delineated using field indicators such as scour line, changes in sediment, and changes in vegetation communities.

Stream 7 is a 60-linear foot and very steep channel mapped within Study Area 4 that flows into the Wetland 27, which is within the Moore Creek floodplain. The OHWL indicators observed in the field were scour line and exposed vegetation roots (**Appendix C**, Photo 56).

Streams 5 and 6 – Tributaries to Thiel Creek

Stream 5 is a 450-lineary-foot section of an unnamed tributary to Thiel Creek with a 4foot average bankfull width (**Appendix C**, Photo 60). Wetland 30a is associated with the floodplain of Stream 5. Stream 6 is a 150-linear-foot tributary to Stream 5 with a 2-foot average bankfull width (**Appendix C**, Photo 62). The OHWL indicators observed in the field were changes in sediment, observed scour line, and exposed vegetation roots.

F) DEVIATION FROM LWI OR NWI

Although wetlands were mapped in the vicinity of the survey area by the NWI, very few actually fell within the water resource delineation study areas (**Appendix A**, Figure 3A).

The wetlands mapped by NWI within Henderson Creek and Moore Creek were generally correct in their locations; however, the precise boundaries delineated in the field differed in some cases by as much as 75 feet. Streams were delineated in the field within the immediate vicinity of most locations where streams were mapped by the NWI. In all cases, the stream alignments delineated in the field deviated from the NWI mapped streams, in some cases by as much as 100 feet. Similarly, U.S. Geological Survey (USGS) National Hydrography Dataset (NHD) streams were mapped at several locations in Study Areas 2, 3, and 4. Streams were delineated within the immediate vicinity of all streams mapped by the NHD. However, the delineated stream alignments also deviated from the NHD mapped streams, in some cases by as much as 100 feet.

Three riverine wetlands are mapped by NWI within the southeastern portion of Study Area 10. These wetlands are mapped as narrow drainages flowing from east to west. This portion of the wetland delineation study area was recently clear-cut, and as a result, visibility was greater than 80 percent at the time of the survey. These mapped wetland areas were investigated at time of the survey, but no wetlands were observed in these areas.

ESA received a draft geospatial dataset of the City of Newport LWI (2012) from City staff on September 18, 2019. At the time of the September 2019 field survey, this draft dataset and its associated LWI report had not been approved by DSL. Several wetlands were mapped on the draft LWI throughout Study Areas 2, 3, and 4 (**Appendix A**, Figure 3B).

One emergent wetland is mapped by the draft LWI within NRCS mapped hydric soils in the southeast corner of Study Area 3. The mapped wetland is in the uphill reaches of a concave swale. Sample plot Sp116 is located in the lowest point of this swale feature. Dominant vegetation included red huckleberry, reed canary grass (*Phalaris arundinacea*, FACW), English plantain (*Plantago lanceolata*, FACU), common bent grass, and Himalayan blackberry. Vegetation was determined to be hydrophytic through the prevalence index test (Corps 2010). Soils were a disturbed mix of silt loam and sandy loam that had high chroma and value, and were not determined to be hydric. No primary hydrology indicators were observed at the time of the September survey.

One forested wetland is mapped by the draft LWI on a hillslope within the southern portion of Study Area 4. Most of this mapped feature was determined to be upland hemlock forest. This area had very little understory, and visibility was high within forest floor. Five seep wetlands (Wetlands 30a, 30b, 30c, 30d, and 30e) were delineated either within or adjacent to the mapped wetland; however, the precise boundaries differed by as much as 350 feet.

One forested wetland is mapped by the draft LWI in the northwest corner of Study Area 1. The mapped wetland is on a very steep slope adjacent to a mapped emergent wetland located outside of the study area. This area is steep, densely vegetated, and treacherous. However, the few areas that were observed within this mapped wetland were determined to be upland.

G) MAPPING METHOD

Spatial data (survey points and boundaries) were collected in the field using a Bad Elf GNSS Surveyor Bluetooth receiver with a tablet data collector capable of sub-meter accuracy. These data were collected using equipment capable of sub-meter mapping grade accuracy and were digitized in real time into geographic information system (GIS) shapefiles using ArcGIS version 10.4.1. Shapefiles were used to produce maps and identify spatial locations presented in this delineation report. All background layers, including the survey boundary, were georeferenced using North American Datum of 1983 State Plane, Oregon North, FIPS3601 (U.S. feet). Background imagery was sourced from Esri.

H) ADDITIONAL INFORMATION

Several small tributaries of the Pacific Ocean flow across the study areas and vicinity: Henderson Creek, Thiel Creek, and Moore Creek. Thiel Creek is located outside of the ten study areas and is the only stream mapped as critical habitat for federally listed Oregon Coast Steelhead and Coho Salmon (73 *Federal Register* 7816). Data from the Oregon Biodiversity Information Center (ORBIC) indicate that steelhead may be present in Henderson Creek (ORBIC 2019). This information is based on the best professional judgment of the Oregon Department of Fish and Wildlife (ODFW) District fisheries biologist. All streams mapped in the ten study areas would be considered Essential Fish Habitat (EFH) for Pacific Salmon under the Magnuson-Stevens Fisheries Conservation and Management Act, based on the accessibility (current or historic) of these waters to salmonids (Pacific Fishery Management Council 2014).

I) RESULTS AND CONCLUSIONS

A total of 7.28 acres of wetlands were delineated in the field using routine wetland delineation methods. In addition, OHWL was delineated for the 1.701 acres of ten streams identified. All water resources mapped by this delineation, except for three features, are completely contained within the wetland delineation study area. Table 4 summarizes each water resource.

Study Area	Name	Acres	HGM Classification	Cowardin Class	Potentially Jurisdictional?
1	Wetland 11a	0.39	Slope	Palustrine emergent	Yes
1	Wetland 11b	0.02	Riverine	Palustrine scrub-shrub	Yes
	Wetland 10	0.20	Slope	Palustrine forested	Yes
	Wetland 11c	0.03	Riverine	Palustrine scrub-shrub	Yes
	Wetland 11d	0.07	Riverine	Palustrine scrub-shrub	Yes
	Wetland 11e	1.99	Riverine	Palustrine scrub-shrub/forested	Yes
	Wetland 12	0.16	Slope	Palustrine emergent	Yes
2	Wetland 13	0.02	Riverine	Palustrine emergent	Yes
	Wetland 2	0.02	Slope	Palustrine emergent	Yes
	Wetland 9	0.04	Slope	Palustrine forested	Yes
	Henderson Creek	0.27		Riverine	Yes
	Stream 1	0.09		Riverine (same feature as listed below in Study Areas 3)	Yes
	Wetland 14	0.24	Depressional	Palustrine forested	Yes
	Wetland 15	0.50	Depressional	Palustrine emergent	No
	Wetland 16	0.04	Slope	Palustrine emergent	Yes
	Wetland 18	0.06	Slope	Palustrine emergent	Yes
	Wetland 19	0.22	Slope	Palustrine forested	Yes
	Wetland 20	0.02	Slope	Palustrine forested	Yes
	Wetland 21a	0.28	Riverine	Palustrine forested	Yes
	Wetland 21b	0.20	Riverine	Palustrine forested	Yes
	Wetland 23	0.04	Depressional	Palustrine emergent	Yes
	Wetland 24	0.14	Slope	Palustrine forested	Yes
	Wetland 25a	0.16	Slope	Palustrine forested	Yes
	Wetland 25b	0.17	Riverine	Palustrine forested	Yes
3	Wetland 26	0.02	Slope	Palustrine forested	Yes
	Wetland 4	0.03	Slope	Palustrine forested	Yes
	Wetland 5	0.06	Slope	Palustrine forested	Yes
	Wetland 6	0.04	Slope	Palustrine forested	Yes
	Wetland 7	0.08	Slope	Palustrine forested	Yes
	Wetland 8	0.14	Slope	Palustrine forested	Yes
	Henderson Creek	0.08		Riverine	Yes
	Stream 1	0.66		Riverine	Yes
	Steam 2	0.04		Riverine	Yes
	Stream 3	0.03		Riverine	Yes
	Stream 4	0.05		Riverine	Yes
	Stream 8	0.05		Riverine	Yes

Table 4. Summary of Water Resource Delineation

Study Area	Name	Acres	HGM Classification	Cowardin Class	Potentially Jurisdictional?
	Wetland 27	0.42	Riverine	Palustrine emergent	Yes
	Wetland 28	0.15	Riverine	Palustrine emergent/ scrub-shrub	Yes
	Wetland 29	0.89	Riverine	Palustrine emergent/ scrub-shrub	Yes
	Wetland 30a	0.13	Depressional	Palustrine forested	Yes
	Wetland 30b	0.09	Depressional	Palustrine forested	Yes
4	Wetland 30c	0.07	Depressional	Palustrine forested	Yes
4	Wetland 30d	0.04	Depressional	Palustrine forested	Yes
	Wetland 30e	0.05	Depressional	Palustrine forested	Yes
	Moore Creek	0.39		Riverine	Yes
	Stream 5	0.03		Riverine	Yes
	Stream 6	0.01		Riverine	Yes
	Stream 7	0.001		Riverine	Yes
10	Wetland 3	0.07	Depressional	Palustrine emergent	Yes
Tota	Wetlands	7.28			
Tota	al OHWL	1.701			

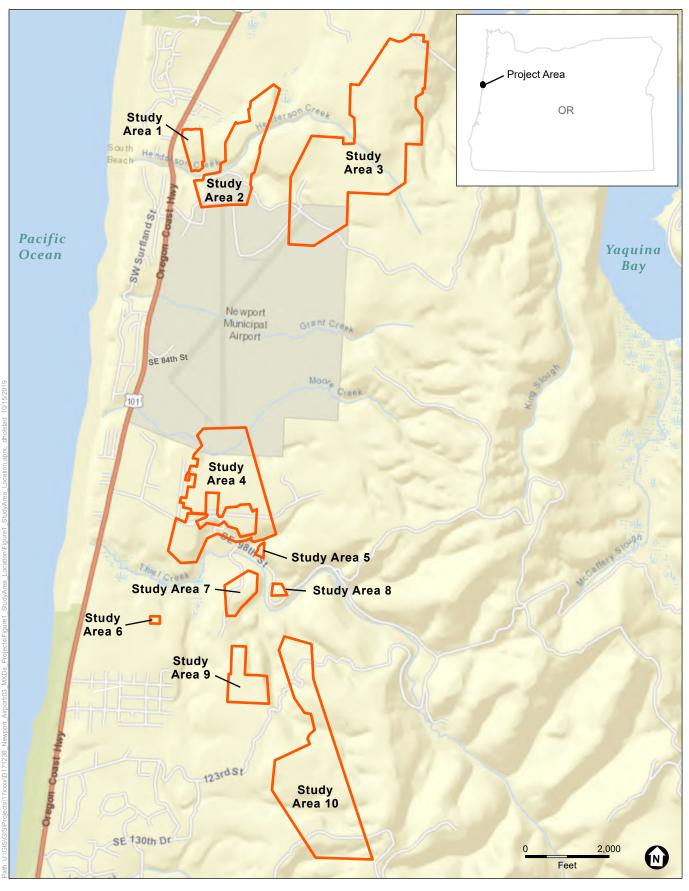
Notes: HGM = hydrogeomorphic; OHWL = ordinary high-water level. Source: Data compiled by Environmental Science Associates in 2019.

J) REQUIRED DISCLAIMER

This report documents the investigation, best professional judgment, and conclusions of the investigators. It should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been approved in writing by the reviewing agency/agencies.

APPENDIX A

Figure 1:	Study Area Location Map
Figure 2:	Tax Lot and Aerial Map
Figure 3A:	National Wetlands Inventory Map
Figure 3B:	Local Wetlands Inventory Map
Figure 4:	Soil Survey Map
Figure 5A:	Wetland Delineation Map Overview
Figure 5B-5K:	Wetland Delineation Map Detail (includes photo
	points and sample plots)

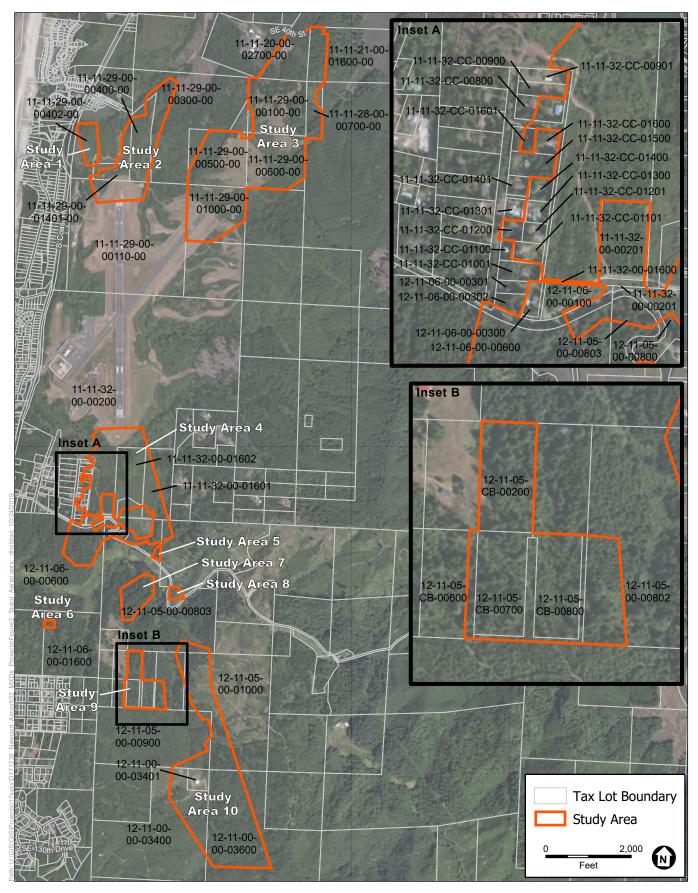


SOURCE: ESA, 2019; ESRI, 2017

D171238.00 Newport Airport EA

Figure 1 Study Area Location Map Lincoln County, OR



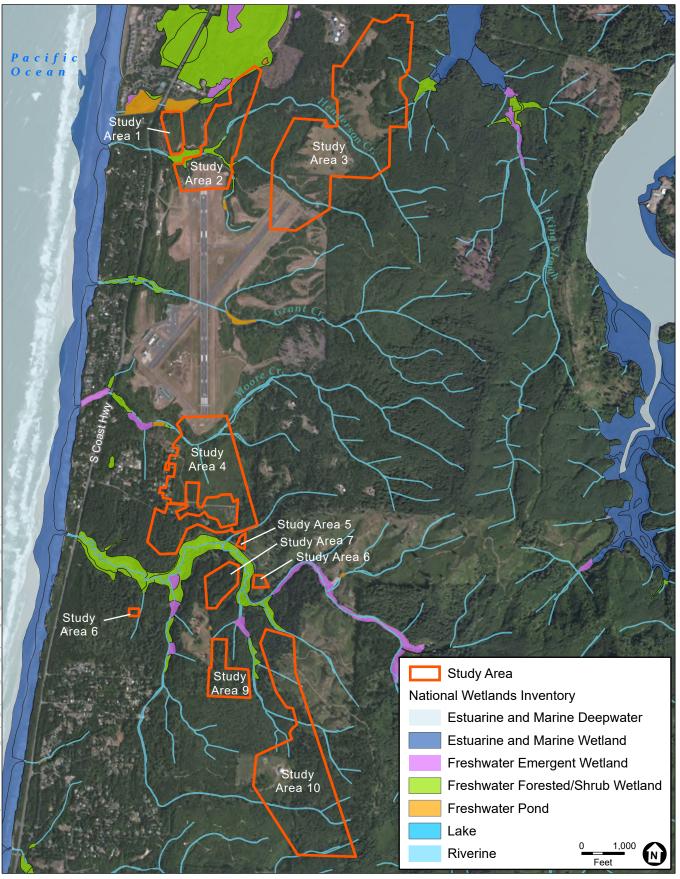


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; Lincoln County, 2017

D171238.00 Newport Airport EA

Figure 2 Tax Lot and Aerial Map Lincoln County, OR



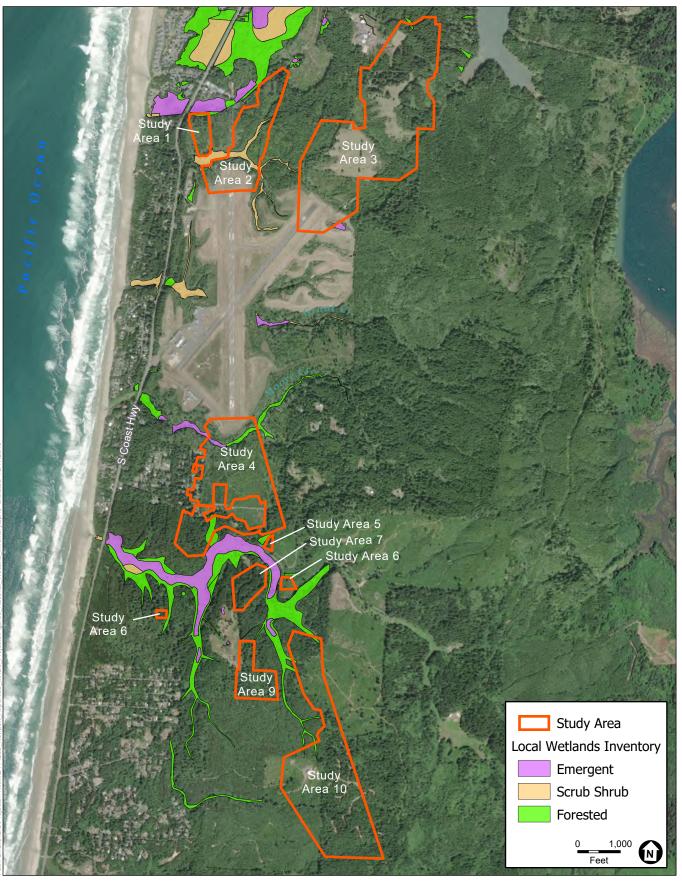


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; USFWS, 2017

D171238.00 Newport Airport EA

Figure 3A National Wetlands Inventory Map Lincoln County, OR

ESA

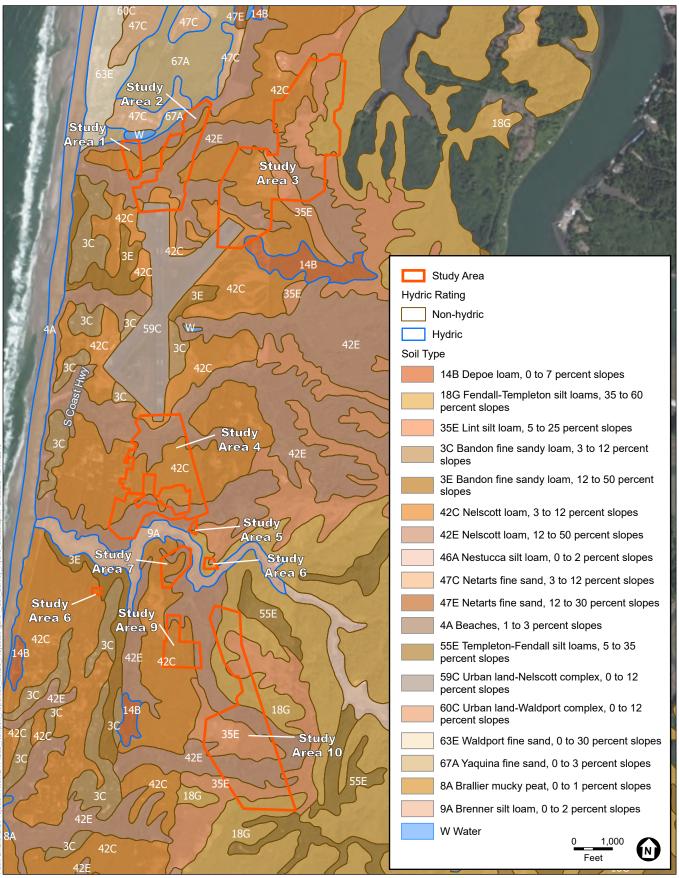


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; City of Newport, 2019

D171238.00 Newport Airport EA

Figure 3B DRAFT Local Wetlands Inventory Map Lincoln County, OR

ESA

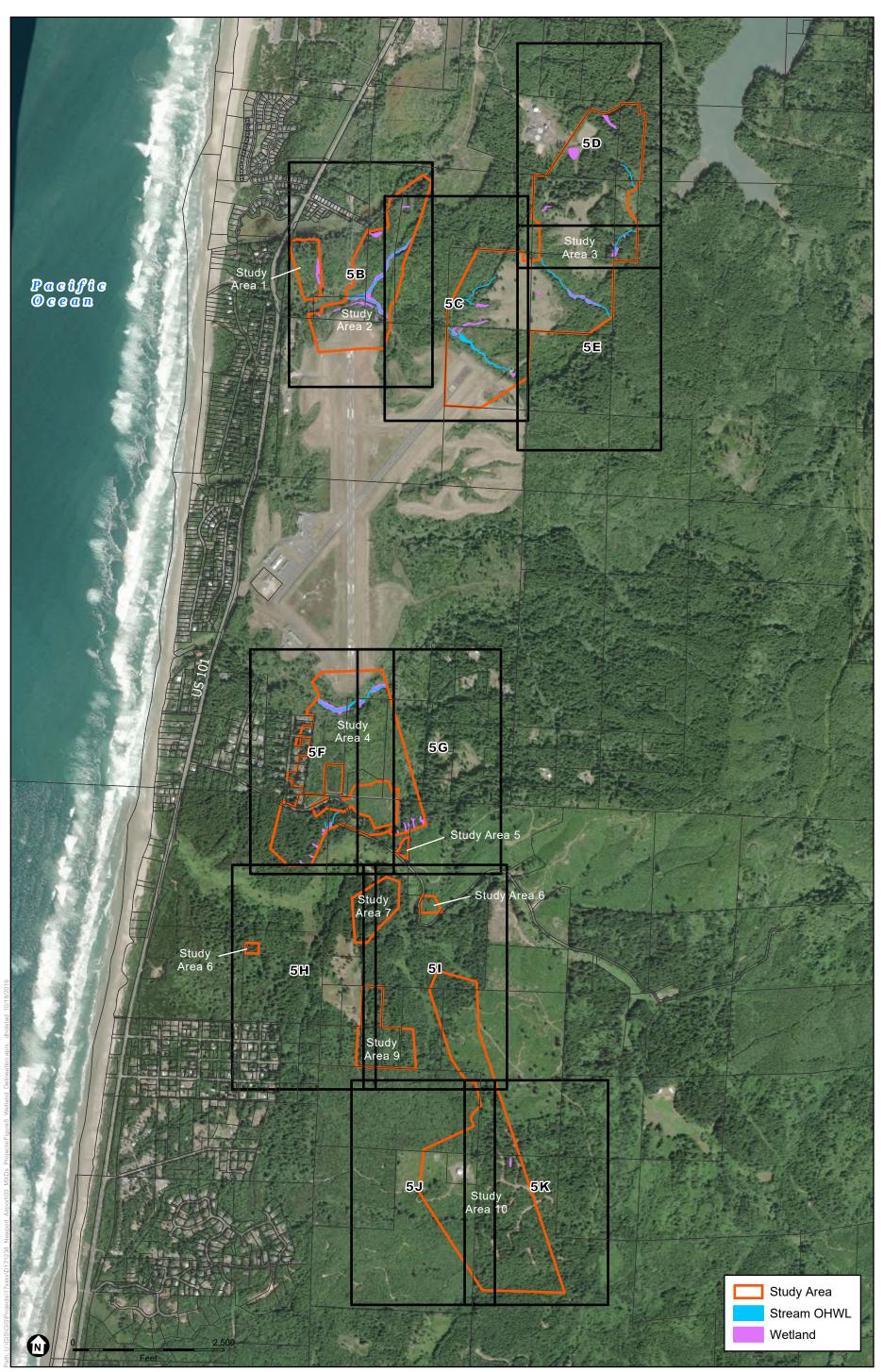


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; NRCS, 2017

D171238.00 Newport Airport EA

Figure 4 Soils Survey Map and Hydric Status Data Lincoln County, OR

ESA

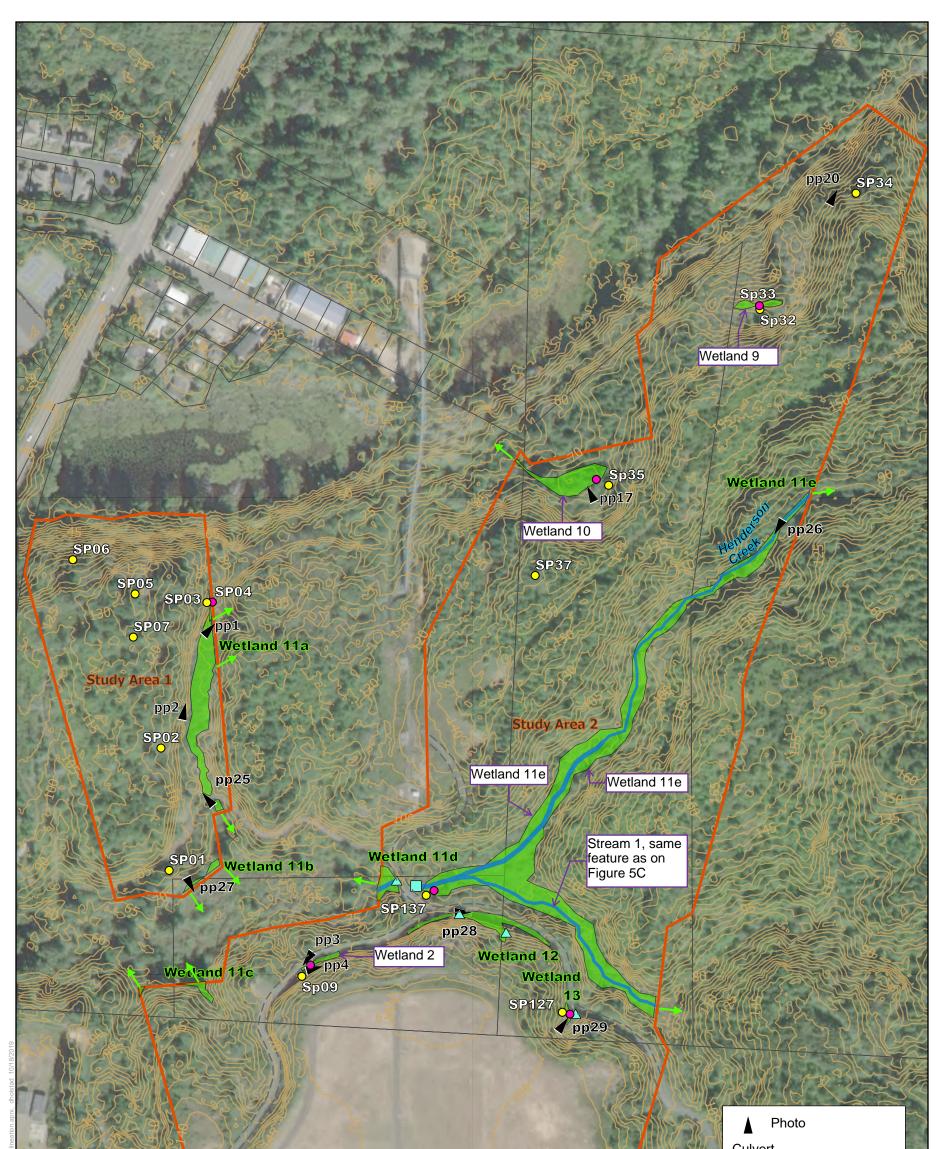


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; StreamNet, 2019; City of Newport, 2019.

D171238.00 Newport Airport EA

Figure 5A Wetland Delineation Map Lincoln County, OR

ESA



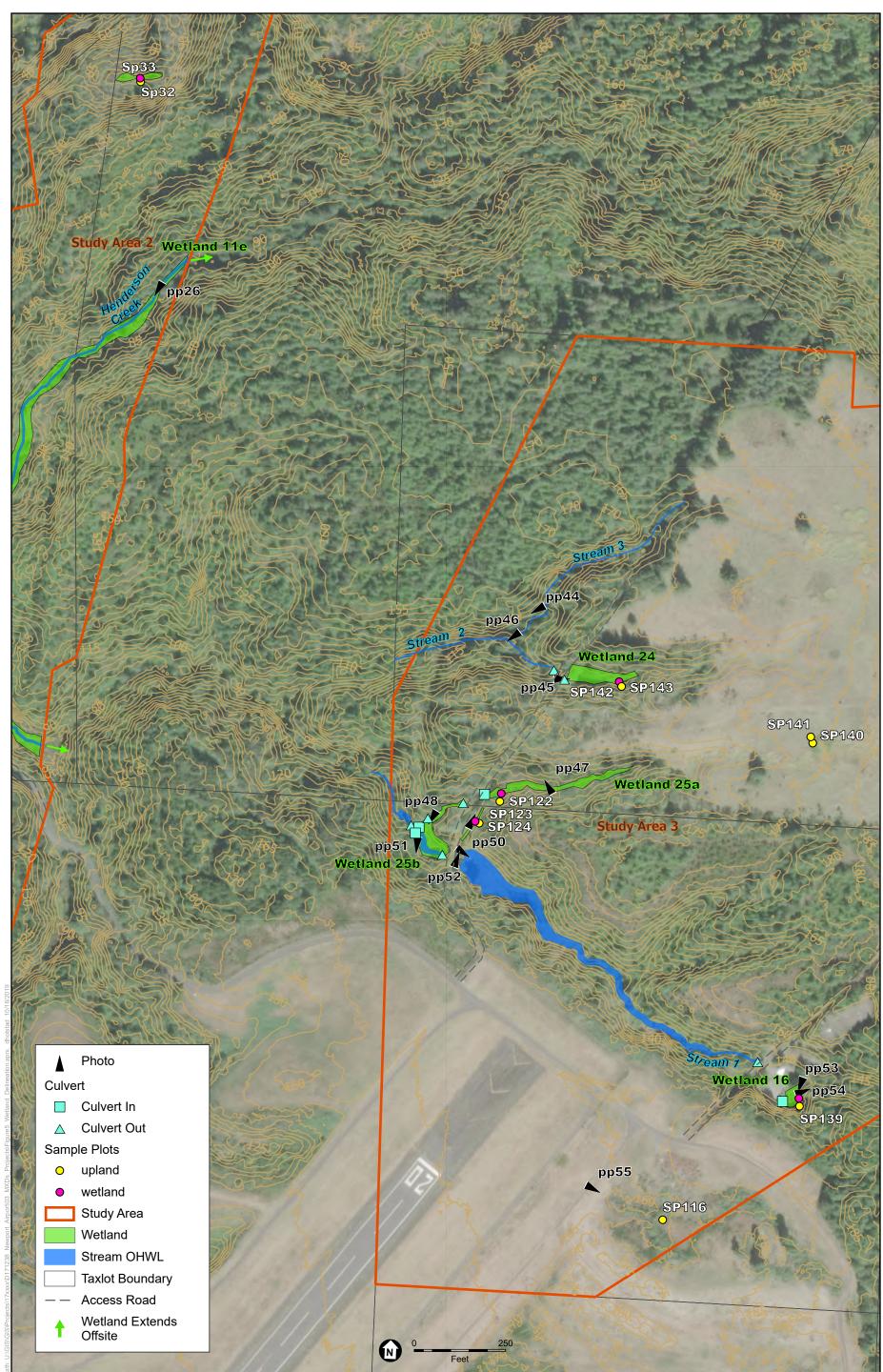


World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy). D171238.00 Newport Airport EA

Figure 5B Wetland Delineation Map Lincoln County, OR

ESA



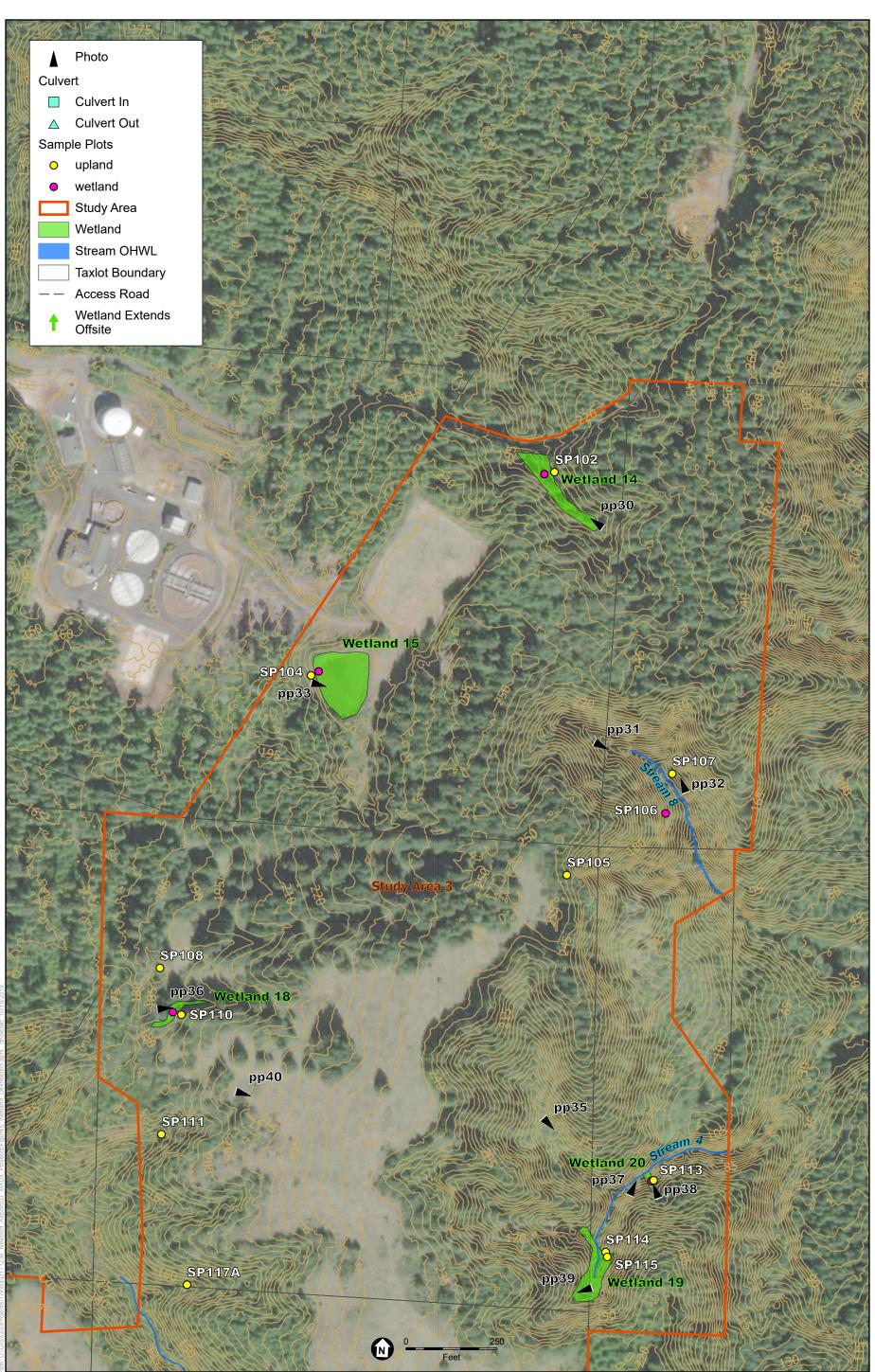
Norld Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA. 2019: DOGAMI, 2012.

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

D171238.00 Newport Airport EA

Figure 5C Wetland Delineation Map Lincoln County, OR

ESA

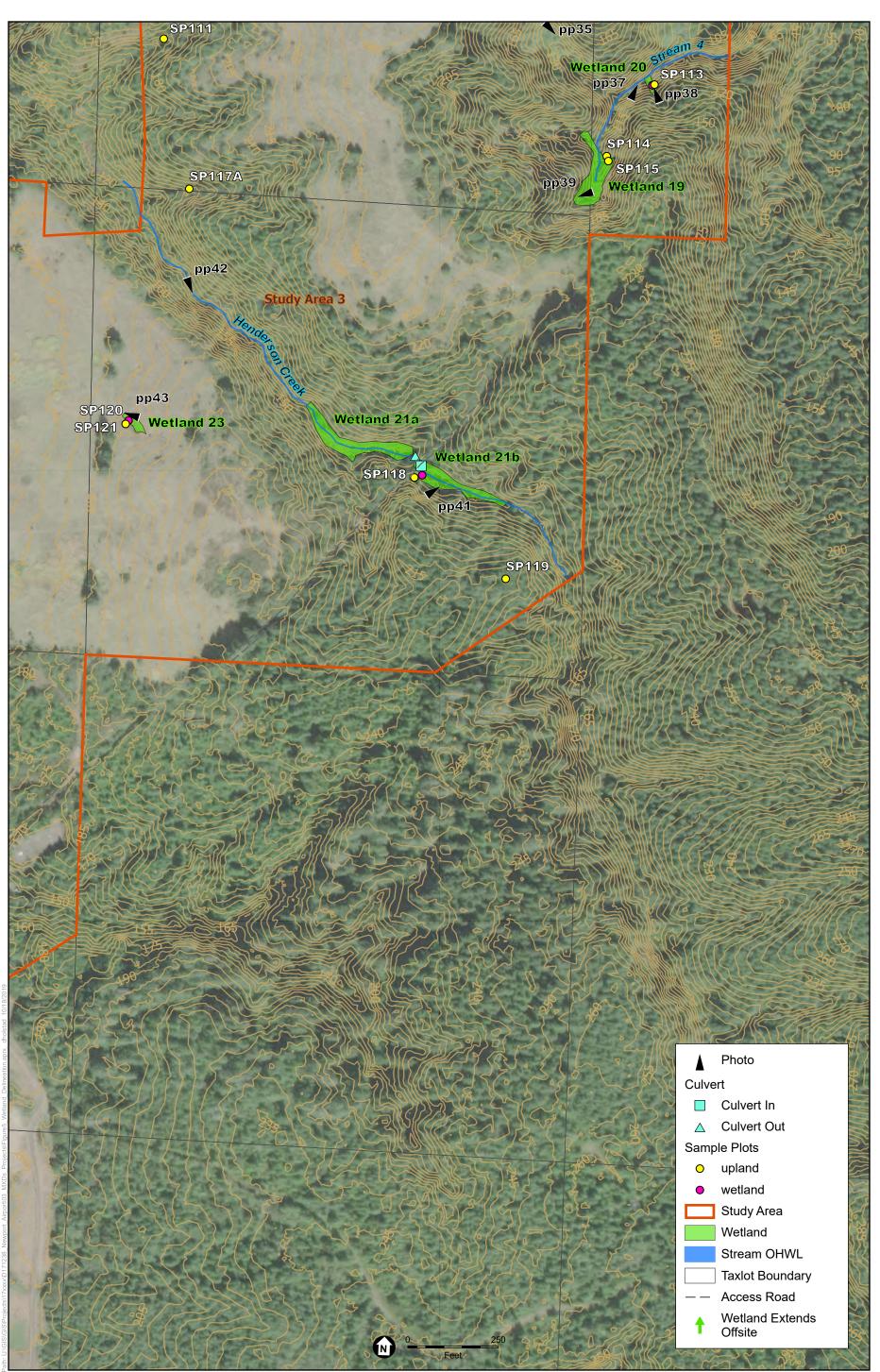


World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

ESA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy). D171238.00 Newport Airport EA

Figure 5D Wetland Delineation Map Lincoln County, OR



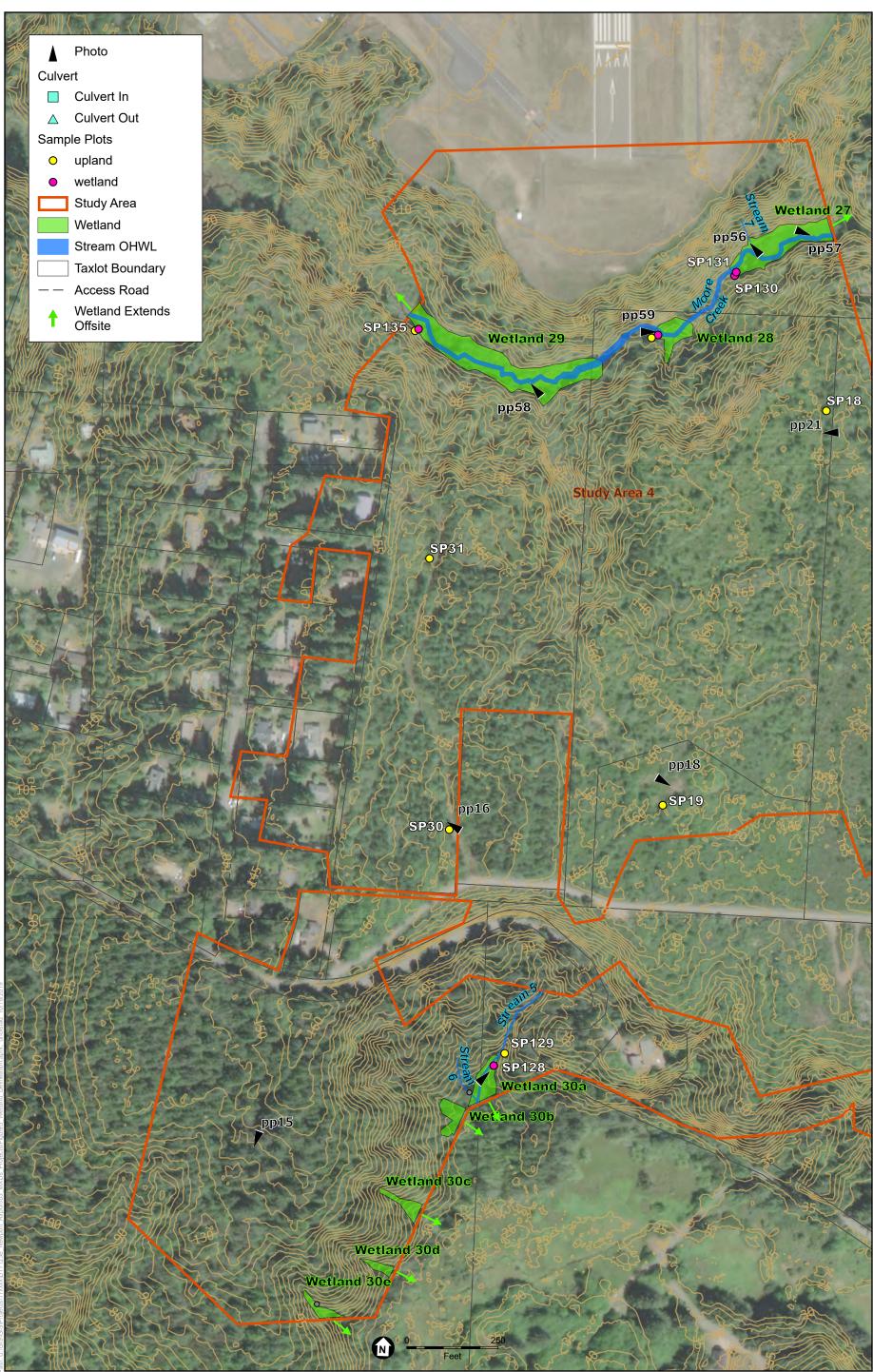
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

ESA

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5E Wetland Delineation Map Lincoln County, OR



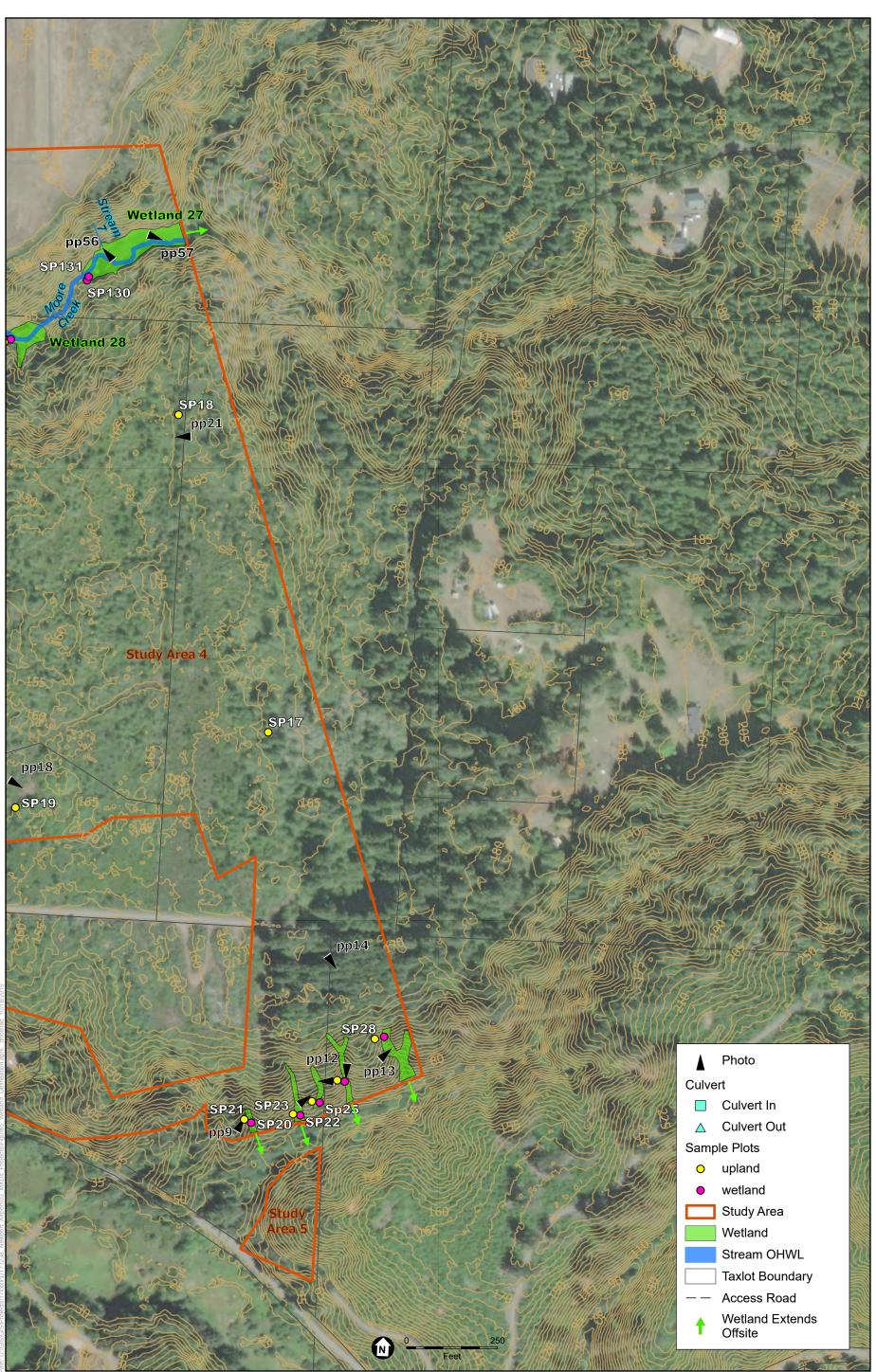
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5F Wetland Delineation Map Lincoln County, OR



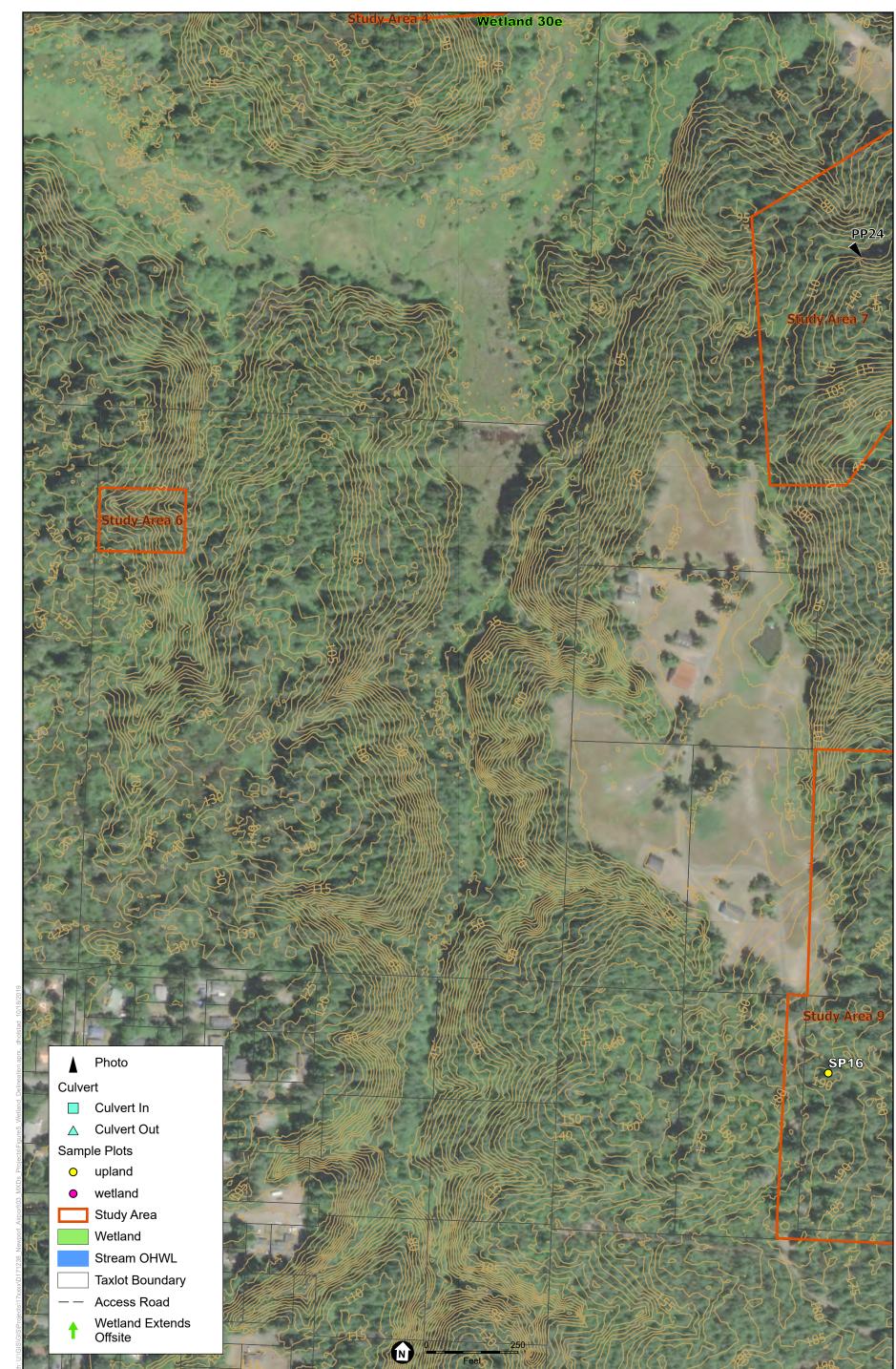


World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy). D171238.00 Newport Airport EA

Figure 5G Wetland Delineation Map Lincoln County, OR

ESA



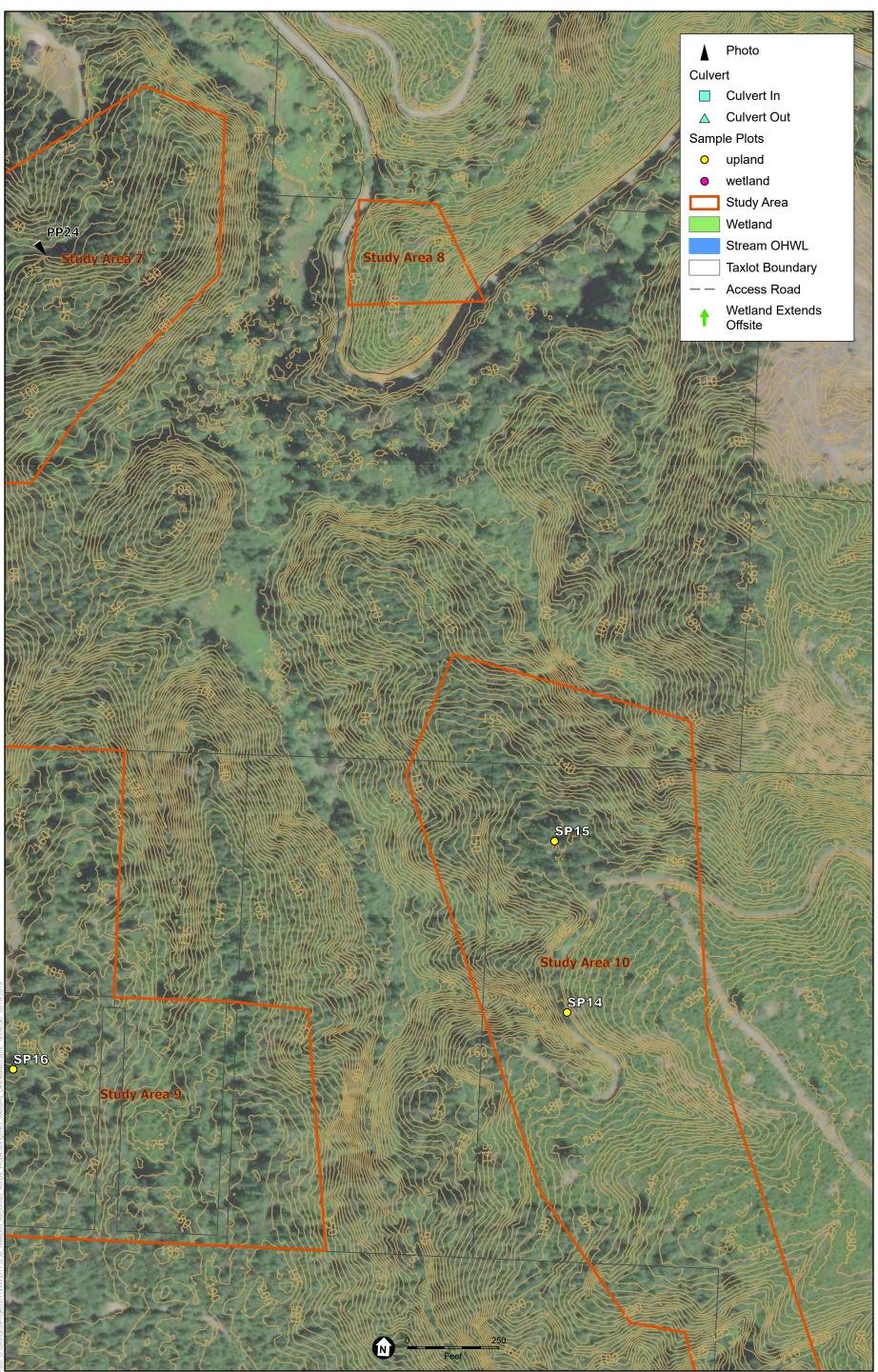
cs, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012. ce: Esri, DigitalGlobe, GeoEve, Earthstar

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5H Wetland Delineation Map Lincoln County, OR





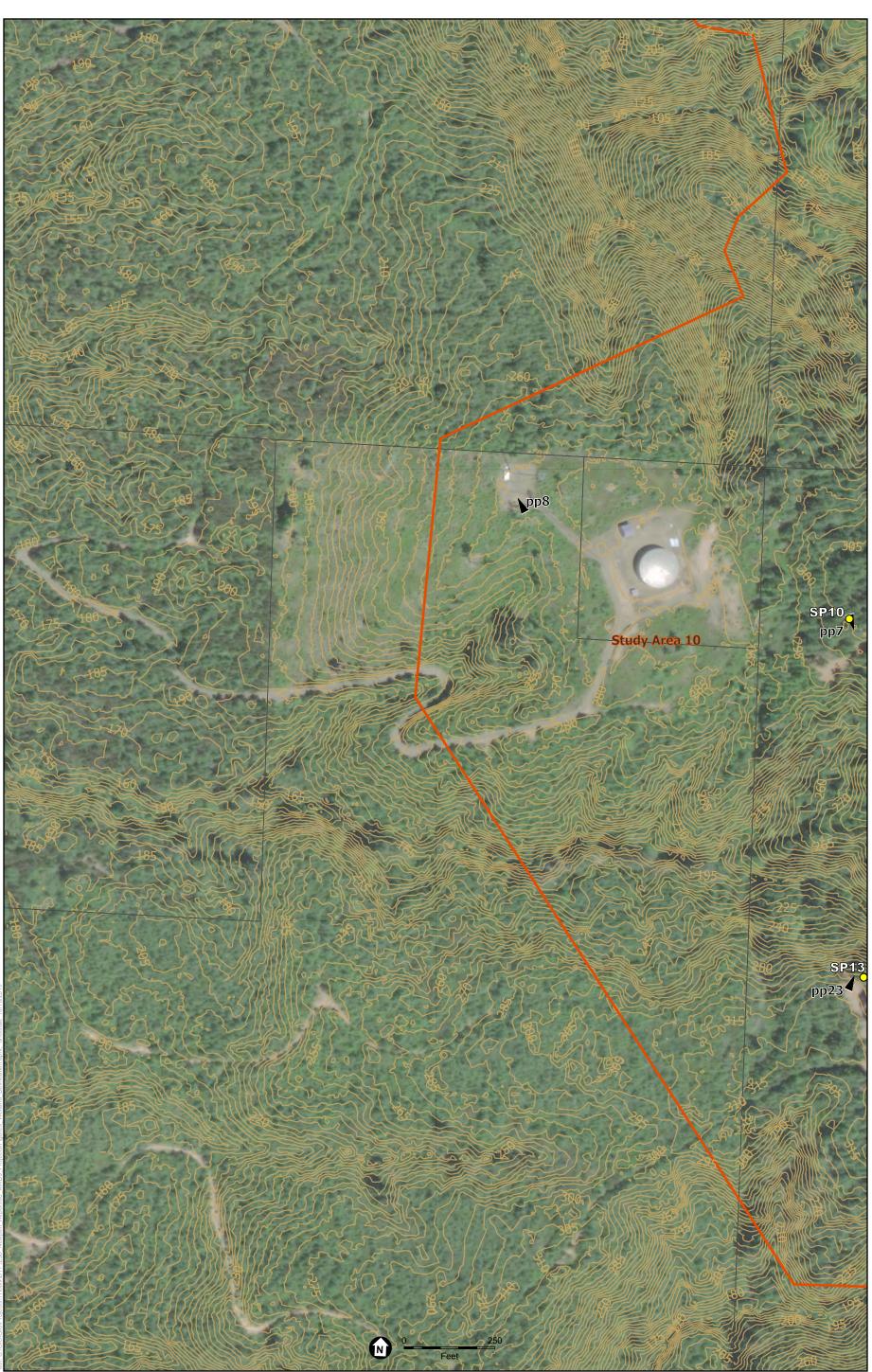
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

ESA

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5I Wetland Delineation Map Lincoln County, OR



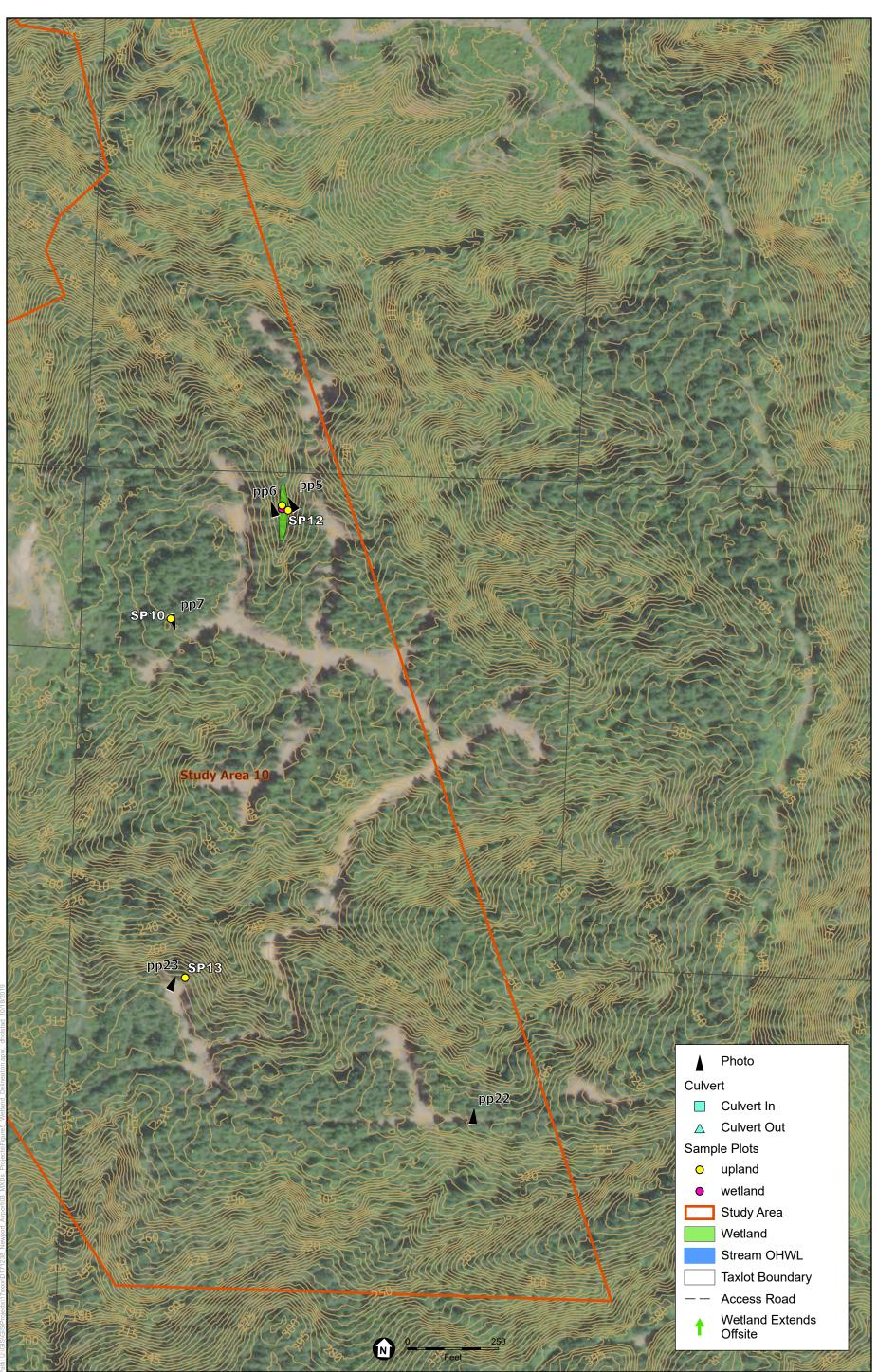
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5J Wetland Delineation Map Lincoln County, OR

ESA



World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy). D171238.00 Newport Airport EA

Figure 5K Wetland Delineation Map Lincoln County, OR

ESA

APPENDIX B

Datasheets

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

Project/Site: Newpo	rt Municipal Air	port		City/Co	unty:	City of New	port		Sampling Da	ite:	28-May-	2019
Applicant/Owner:	City of Newpor	t					State	OR	Sampling Po	int:	SP0	1
Investigator(s): Jeff	Barna, PWS ar	nd Luke Johnson		Section	n, Tov	vnship, Rang	ge: Sect	ion 29, T	ownship 11 S,	Range	11 S	
Landform (hillslope,	terrace, etc.):	terrace		Local reli	ief (co	oncave, conv	ex, none)	: Slope		Slope (%):	1
Subregion (LRR):	A2 - Willamet	te Valley	Lat: 4	4.589106			Long: -1	24.06186	68	Datum:	NAD83	
Soil Map Unit Name	: 42C - Nelsc	ott loam, 3 to 12	percent slope	es			N\	VI classi	fication: Near	PSCC		
Are climatic / hydrol	ogic conditions	on the site typic	al for this time	e of year?	Yes	No	X (lfı	no, expla	in in Remarks.))		
Are Vegetation	Soil	or Hydrology	significar	ntly disturbed?		Are "Norm	al Circum	stances'	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally	problematic?		(If needed	, explain a	any answ	ers in Remarks	s.)		

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

Hydrophytic Vegetation Present?	Yes X	(No						
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х	
Pomarka: Popardad proginitation in	provious mon	the woo	holow porma	L rango				

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Blat aize) and D	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Alnus rubra	50	1	FAC	That Are OBL, FACW, or FAC: 3 (A)	
2					
3				Total Number of Dominant	
4				Species Across All Strata: 5 (B)	
	50	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Vaccinium ovatum	5		FACU	That Are OBL, FACW, or FAC: 60.00 (A/B	.)
2. Sambucus racemosa	20	1	FACU		
3. Cytisus scoparius	5		NL	Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	
	30	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 90 x 3= 270	
1. Carex obnupta	2		OBL	FACU species 50 x 4= 200	
2. Polystichum munitum	15	1	FACU	UPL species 5 x 5= 25	
3. Rubus parviflorus	10		FACU	Column Totals: 147 (A) 497 (B)	
4. Rubus spectabilis	40	1	FAC		
5.				Prevalence Index = $B/A = 3.38$	
6.				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				X 2. Dominance Test is >50%	
9.				3. Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide supportir	na
11.				data in Remarks or on a separate sheet)	5
	67	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)	
1. Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology mus	
2.				be present, unless disturbed or problematic.	
	15	Tatal Oau			
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes <u>X</u> No	-
				Present?	
Remarks:					

US Army Corps of Engineers

Depth Matrix Redox Features (inches) Color (moist) % Type! Loc ² Texture Remarks 0-16 10 YR 3/3 100
0-16 10 YR 3/3 100 Loam 0-16 10 YR 3/3 100 Loam 1 100 Loam Image: Calibratic content of the content of
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): No X Remarks: Hydrology Indicators: Yes No X Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 1)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Type:
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Depth (inches): Hydric Soil Present? Yes No X Remarks: Hydrology Indicators: Secondary Indicators (2 or more required); check all that apply) Secondary Indicators (2 or more required); MutRA 1, 5
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Type:
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: nuless disturbed or problematic. Depth (inches): Hydric Soil Present? Yes No X Remarks: Hydric Soil Present? Yes No X HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 5)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type: Hydric Soil Present? Yes No X Remarks: Hydric Soil Present? Yes No X HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 5)
Type: No X Depth (inches): No X Remarks: No X HYDROLOGY Secondary Indicators: Secondary Indicators (2 or more required); check all that apply) Secondary Indicators (2 or more required); MLRA 1, 3 Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 3)
Type: No X Depth (inches): No X Remarks: No X HYDROLOGY Secondary Indicators: Secondary Indicators (2 or more required); check all that apply) Secondary Indicators (2 or more required); MLRA 1, 3 Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 3)
Depth (inches): Hydric Soil Present? Yes No X Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (mLRA 1, 1)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (mLRA 1, 1)
Wetland Hydrology Indicators:
Wetland Hydrology Indicators:
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1,
High Water Table (A2) 1.2.4A. and 4B 4A. and 4B
Saturation (A3) Salt Crust (B11) Drainage Patterns (B10)
Satisfies Satisfies Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)
Field Observations:
Surface Water Present? Yes No X Depth (Inches): NA
Water Table Present? Yes No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 Wetland Hydrology Present? Yes No X
(includes capillary fringe)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

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

Project/Site: Newpo	Project/Site: Newport Municipal Airport			City/County: City of Newport			Sampling Date	e: 28-Ma	28-May-2019	
Applicant/Owner:	City of New	port				State:	OR	Sampling Poin	nt: SF	02
Investigator(s): Jeff	Barna, PWS	and Luke Johnson		Section, Tov	wnship, Rang	e: Sectio	on 29, T	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, etc.	.): hillslope		Local relief (co	oncave, conv	ex, none):	convex	S	lope (%):	5
Subregion (LRR):	A2 - Willan	nette Valley	Lat: 44.45	9976		Long: -12	4.06200	3 D	atum: NAD8	3
Soil Map Unit Name	e: 42C - Ne	Iscott loam, 3 to 12 p	ercent slopes			NW	/I classif	ication: None		
Are climatic / hydrol	ogic conditic	ons on the site typical	for this time of y	ear? Yes	No 2	K (lf no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Norma	al Circums	tances"	presentí Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain a	ny answ	ers in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes X	K No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1. Picea sitchensis	15	1	FAC	That Are OBL, FACW, or FAC: (A)
2. Pinus contorta	35	1	FAC	
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	50	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	80	1	FAC	That Are OBL, FACW, or FAC: 80.00 (A/B)
2. Gaultheria shallon	10		FACU	
3.				Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species 1 x 1= 1
	90	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5'R)				FAC species 145 x 3= 435
1. Carex obnupta	1		OBL	FACU species 45 x 4= 180
2. Polystichum munitum	35	1	FACU	UPL species $x 5=$
				Column Totals: 191 (A) 616 (B)
1				
4 5.				Prevalence Index = $B/A = 3.23$
6				Hydrophytic Vegetation Indicators:
7.				1. Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
0				3. Prevalence Index is ≤3.0 ¹
9 10.				4 Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	36	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1 Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
<u></u>	15			
	15	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes <u>x</u> No
				Present?
Remarks:				

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(inches) Color (moist)	% Col	or (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-16 10 YR 3/3	100				_	Sandy loam				
					_					
					_					
					_					
¹ Type: C=Concentration, D=Depletion				ed Sand	Grains.		tion: PL=Pore Lining, M=Matrix			
ydric Soil Indicators: (Applicable to	o all LRRs, unles	s otherwise note	ed.)			Indicators for	Problematic Hydric Soils ³ :			
Histosol (A1)		Redox (S5)				2 cm Muck				
Histic Epipedon (A2)		ed Matrix (S6)					t Material (TF2)			
Black Histic (A3)		/ Mucky Mineral (I		pt MLRA	. 1)	Very Shallow Dark Surface (TF12)				
Hydrogen Sulfide (A4)		/ Gleyed Matrix (F	-2)			Other (Explain in Remarks)				
Depleted Below Dark Surface (A11	,	ted Matrix (F3)								
Thick Dark Surface (A12)		Dark Surface (F6	,				ydrophytic vegetation and			
Sandy Mucky Mineral (S1)		ted Dark Surface (Depressions (F8				-	drology must be present,			
Sandy Gleyed Matrix (S4)		unless dist	urbed or problematic.							
estrictive Layer (if present):										
Type: Depth (inches):				Hvd	Iric Soil	Present? Y	es No X			
Depth (inches):				Hyd	lric Soil	Present? Y	es <u>No X</u>			
Depth (inches):				Hyd	lric Soil	Present? Y	es <u>No X</u>			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators:	equired: check all	that apply)		Hyd	Iric Soil					
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1)	Wa	ater-Stained Leave	es (B9) (e			Secondary Water-S	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2)	Wa 1	ater-Stained Leave , 2, 4A, and 4B)	es (B9) (e			Secondary Water-\$ 4A,	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 and 4B)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3)	Wa 1 Sa	ater-Stained Leave , 2, 4A, and 4B) It Crust (B11)				Secondary Water-\$ Drainag	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 and 4B) Je Patterns (B10)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2)	Wa 1 Sa Aq	ater-Stained Leave , 2, 4A, and 4B)	s (B13)			Secondary Water-S 4A , Drainag Dry-Sea	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1 , 2 and 4B) Je Patterns (B10) ason Water Table (C2)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Wa 1 Sa Aq Hy	ater-Stained Leave , 2, 4A, and 4B) It Crust (B11) uatic Invertebrate	s (B13) dor (C1)	xcept M	_ LRA	Secondary Water-S 4A, Drainag Dry-Sea Saturat	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1 , 2 and 4B) Je Patterns (B10) ason Water Table (C2)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Wa Sa Aq Hy Ox	ater-Stained Leave , 2, 4A, and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc	s (B13) dor (C1) res along	xcept M	_ LRA	Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1 , 2 and 4B) Je Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Wa Sa Aq Hy Ox Pru Re	ater-Stained Leave , 2 , 4A , and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc idized Rhizospher esence of Reduce cent Iron Reductio	s (B13) dor (C1) res along d Iron (C4 on in Tille	xcept M Living Ro I) d Soils (C	LRA Dots (C3)	Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 and 4B) Je Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C rphic Position (D2) / Aquitard (D3) eutral Test (D5)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)		ater-Stained Leave , 2 , 4A , and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc idized Rhizospher esence of Reduce cent Iron Reductio unted or Stressed	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D	xcept M Living Ro I) d Soils (C	LRA Dots (C3)	Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne Raised	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1 , 1 and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C rphic Position (D2) / Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRR A)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		ater-Stained Leave , 2 , 4A , and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc idized Rhizospher esence of Reduce cent Iron Reductio	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D	xcept M Living Ro I) d Soils (C	LRA Dots (C3)	Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne Raised	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 and 4B) Je Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C rphic Position (D2) / Aquitard (D3) eutral Test (D5)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface Field Observations:		ater-Stained Leave , 2 , 4A , and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc idized Rhizospher esence of Reduce cent Iron Reductio unted or Stressed her (Explain in Re	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	xcept M Living Ro I) d Soils (C 1) (LRR	LRA Dots (C3)	Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne Raised	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 and 4B) Je Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C rphic Position (D2) / Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRR A)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one regent of the second of the se		ater-Stained Leave , 2, 4A, and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc idized Rhizospher esence of Reduce cent Iron Reduction unted or Stressed her (Explain in Re- Depth (Inche	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	xcept M Living Ro Li J Soils (C 1) (LRR	LRA Dots (C3)	Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne Raised	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C rphic Position (D2) / Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRR A)			
Depth (inches): Remarks: IVDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one regeneric surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes		ater-Stained Leave , 2 , 4A , and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc idized Rhizospher esence of Reduce cent Iron Reduction inted or Stressed her (Explain in Refine Depth (Inchefine)	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks) s): <u>N/</u> s): <u>>1</u>	xcept Mi Living Ro Living		Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne Raised Frost-H	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C rphic Position (D2) / Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)			
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes		ater-Stained Leave , 2, 4A, and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc idized Rhizospher esence of Reduce cent Iron Reduction unted or Stressed her (Explain in Re- Depth (Inche	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks) s): <u>N/</u> s): <u>>1</u>	xcept Mi Living Ro Living		Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne Raised	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1 , 2 and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C rphic Position (D2) / Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)			
Depth (inches): Remarks: YDROLOGY /etland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface Surface Water Present? Yes Water Table Present? Yes		ater-Stained Leave , 2, 4A, and 4B) It Crust (B11) uatic Invertebrate drogen Sulfide Oc idized Rhizospher esence of Reduce cent Iron Reduction inted or Stressed her (Explain in Re- Depth (Inche Depth (Inche Depth (Inche	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks) es): <u>N/</u> es): <u>>1</u> es): <u>>1</u>	Living Ro) d Soils (C 1) (LRR 5 5	LRA Dots (C3) C6) A) Wetla	Secondary Water-S 4A, Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne Raised Frost-H	Indicators (2 or more required) Stained Leaves (B9) (MLRA 1 , and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C rphic Position (D2) / Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)			

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

Project/Site: Newpo	Project/Site: Newport Municipal Airport			City/County: City of Newport			Sampling Date: 28-		y-2019	
Applicant/Owner:	City of Nev	<i>r</i> port				State:	OR	Sampling Poir	nt: SF	°03
Investigator(s): Jeff	Barna, PW	S and Luke Johnson		Section, Tov	wnship, Range	Sectio	on 29, T	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, etc	c.): terrace		Local relief (co	oncave, conve	x, none):	none	S	Slope (%):	1
Subregion (LRR):	A2 - Willar	mette Valley	Lat: 44.59	1029		_ong: <u>-12</u>	4.06160	8 C	atum: NAD8	3
Soil Map Unit Name	: 42E - Ne	elscott loam, 12 to 50 p	percent slopes			NW	I classif	ication: None		
Are climatic / hydrol	ogic conditi	ons on the site typical	for this time of ye	ear? Yes	No X	(If no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Norma	Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain ar	ny answ	ers in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes X	K No						
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x	
Demontres — Depended executivities in annuique menthe une below normal sonne								

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1. Picea sitchensis	15	1	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Pinus contorta	35	1	FAC	
3				Total Number of Dominant
4				Species Across All Strata: 5 (B)
	50	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	80	1	FAC	That Are OBL, FACW, or FAC: 60.00 (A/B)
2. Gaultheria shallon	10		FACU	
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species 1 x 1= 1
	90	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 145 x 3= 435
1. Carex obnupta	1		OBL	FACU species 45 x 4= 180
2. Polystichum munitum	35	1	FACU	UPL species x 5=
3.				Column Totals: 191 (A) 616 (B)
4				
5.				Prevalence Index = $B/A = \frac{3.23}{2}$
6.				Hydrophytic Vegetation Indicators:
7.				1-Rapid Test For Hydrophytic Vegetation
8.				X 2-Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
11	36	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1 Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	15	Total Causer		
% Dava Craund in Llark Stratum		= Total Cover		Hydrophytic Vegetation Yes X No
% Bare Ground in Herb Stratum				
				Present?
Remarks:				

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Depth Matrix Redox Features Inchesig Color (mosit) % Type Loc ² Taxture Remarks Inchesig Color (mosit) % Type Loc ² Taxture Remarks Inchesig Color (mosit) % Type Loc ² Taxture Remarks Sandy loam Sandy loam Sandy loam Sandy loam Sandy loam Sandy loam Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. Notations of the post of the p	Profile Description: (Describe to the depth n		confirm the a	ibsence of indicator	'S.)			
0-16 10 YR 3/3 100			vpe ¹ Loc ²	Texture	Remarks			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histic Epideon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: hydric Soil Present? No x Perturn Incheases Water Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) No x Restrictive Layer (if present): Type: Hydric Soil Present? Yes No x Remarks: Primary Indicators (Ininium of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4, 4, and 48) Dark A, and 48) Saturation (A3) Saturation (A1) Depresent C(C2) Saturatin Visible on Aerial Imagery (C3) Saturati			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histocal (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type:								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histocal (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type:	<u></u>			·	<u> </u>			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histocal (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type:								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histocal (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type:								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histocal (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Learny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Learny Mucky Mineral (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Wetland Hydrology Indicators:								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histocal (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Learny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Learny Mucky Mineral (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Wetland Hydrology Indicators:		aduand Matrix, CS, Covered or Costed	Sand Crains	² Location:	DL Doro Lining M Motrix			
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) "Indicators of hydrophytic vegetation and wettand hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wettand hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depleted fails (A2) No X Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Droisage Patterns (B10) Dry-Season Water Table (C2) Saturation (A3) Saturation (C4) Saturation (C2) Saturation (C2) Saturation (C2) Saturation (A3) Saturation (C4) Presence of Reduced Iron (C4) Saturation (A3) Saturation (C3) Saturation (C4) Presence of Reduced Iron (C4) Saturation (A3) Saturation (C3) Saturation (C3) Saturation (C3) Saturation (C4) Frost-Heave Hummocks (D7) </td <td></td> <td></td> <td>Sanu Grains.</td> <td></td> <td></td>			Sanu Grains.					
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) "Indicators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Depleted Matrix (F3) No X Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (mLRA 1, 2, 4A, and 4B) Surface Water (A1) Water-Stained Leaves (B1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Salt Crust (B11) Diange Patterns (B10) Distauration Visible on Aerial Imagery (C9) Saluration Visible on Aerial Imagery (C9) Salur	Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A1	0)			
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Primary Indicators: Primary Indicators: No _ X No _ X Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except MLRA 4, and 4B) Water-Stained Leaves (B9) (except MLRA 4, 4, and 4B) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation (Nishie on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturator V	Histic Epipedon (A2)	Stripped Matrix (S6)		——————————————————————————————————————				
Depleted Below Dark Surface (A11) Depleted Matrix (F3) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:			MLRA 1)					
Thick Dark Surface (12) Redox Dark Surface (F6) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type:				Other (Explain	in Remarks)			
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:		_ ` ` ` `		3Indicators of hydro	phytic vegetation and			
Restrictive Layer (if present): Type:				•				
Type:	Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbe	d or problematic.			
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)	Restrictive Layer (if present):							
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required). Water Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B1) Water Marks (B1) Aquatic Invertebrates (B13) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Solis (C6) Surface Soil Cracks (B6) Sturted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Field Observations: No Z Sufface Water Present? Yes No Water Table Present? Yes No No Z Depth (Inches): >16 Water Table Present? Yes No X Depth (Inches): >16 Wetland Hydrology Present? Yes No		_	Hydric Soil	Procent? Vec	No X			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA	· · · ·	_	Tiyune Son	Fresent: Tes				
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Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Other (Inches): NA Field Observations: No X Depth (Inches): NA 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								
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Field Observations: Surface Water Present? Yes No X Depth (Inches): NA 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								
Surface Water Present? Yes No X Depth (Inches): NA 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	Sparsely Vegetated Concave Surface (B8)							
Water Table Present? Yes No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 (includes capillary fringe) Ves No X Depth (Inches): >16	Field Observations:							
Saturation Present? Yes No X Depth (Inches): >16 Wetland Hydrology Present? Yes No X (includes capillary fringe) Vetal		/	-					
(includes capillary fringe)			- Wetla	nd Hydrology Prese	ent? Yes No X			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			-	,				
	Describe Recorded Date (streem course manit	oring well aerial photos previous insp	octione) if ava	ailable:				
Remarks:	Describe Recorded Data (Stream gauge, MONIG		ections), il ava					

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

Project/Site: Newport Municipal Airport		City/County:	City of Ne	ewport Sampling Date: 28-May	y-2019
Applicant/Owner: City of Newport				State: OR Sampling Point: SP	' 04
Investigator(s): Jeff Barna, PWS and Luke Johnson		Section, To	wnship, Ra	nge: Section 29, Township 11 S, Range 11 S	
Landform (hillslope, terrace, etc.): terrace				nvex, none): convex Slope (%):	1
Subregion (LRR): A2 - Willamette Valley	Lat: 44.591		,	Long: -124.061554 Datum: NAD83	
Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 perc				NWI classification: None	<u> </u>
Are climatic / hydrologic conditions on the site typical for the		ear? Yes	No	X (If no, explain in Remarks.)	
	ignificantly di			rmal Circumstances" present' Yes X No	
Are VegetationSoilor Hydrologyn	aturally prob	ematic?	(If neede	ed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	o showing	sampling	point lo	cations, transects, important feature	s, etc.
Hydrophytic Vegetation Present? Yes X	No				
Hydric Soil Present? Yes X I	No	Is the	Sampled A	Irea	
Wetland Hydrology Present? Yes X	No	within	a Wetland	l? Yes X No	
Remarks: wetland is on edge of compacted forest acce					
Soils not hydric. Layer with a dominant chron		an 2 must he	less than 6	inches	
Recorded precipitation in previous months w				incres.	
		ina range			
VEGETATION – Use scientific names of pla					
Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:	
		Species?	Status	Number of Dominant Species	
1. Alnus rubra	80	1	FAC	That Are OBL, FACW, or FAC: 2	(A)
2					
3				Total Number of Dominant	-
4				Species Across All Strata: 3	(B)
	80	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	10		FAC	That Are OBL, FACW, or FAC: 66.67	(A/B)
2. Gaultheria shallon	10		FACU		
3				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	_
5				OBL species 75 x 1= 75	_
	20	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 105 x 3= 315	
1. Carex obnupta	75	1	OBL	FACU species 11 x 4= 44	_
2. Athyrium cyclosorum	1		FAC	UPL species x 5=	-
3. Polystichum munitum	1		FACU	Column Totals: 191 (A) 434	(B)
4.					- ` ′
5.				Prevalence Index = $B/A = 2.27$	
6.				Hydrophytic Vegetation Indicators:	
7.				1-Rapid Test For Hydrophytic Vegetation	
8.				X 2-Dominance Test is >50%	
0				X 3-Prevalence Index is $\leq 3.0^{1}$	
40				4- Morphological Adaptations ¹ (Provide sup	poorting
	·			data in Remarks or on a separate sheet)	
11	77	= Total Cover		5-Wetland Non-Vascular Plants ¹)
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Ex	(plain)
1 Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrolog	
	10		I AC	, , , , , , , , , , , , , , , , , , , ,	jy must
2	·			be present, unless disturbed or problematic.	
	15	= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X No	
				Present?	
Remarks: wetland is on edge of compacted forest ad	ccess road				

US Army Corps of Engineers

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			eded to document th		or confi	rm the a	absence of indica	ators.)
<u>Depth</u>	Matrix			ox Features	- 1	. 2	-	
(inches) 0-6	Color (moist) 10 YR 4/4	<u>%</u> 60	Color (moist) 2.5 YR 4/6	<u>%</u> 40	Type ¹ C	Loc ²	Texture Sand	Remarks
6-16	10 YR 4/1	90	10 Yr 4/6	10		M	Sandy Loam	
		•	luced Matrix, CS=Cov		ited Sand	Grains.		ion: PL=Pore Lining, M=Matrix.
Hydric Soli	indicators: (Applic	able to all LKKS	, unless otherwise n	otea.)			indicators for h	Problematic Hydric Soils ³ :
Histos		X	Sandy Redox (S5)				2 cm Muck	
	Epipedon (A2)		Stripped Matrix (S6)					Material (TF2)
	Histic (A3)		Loamy Mucky Minera		ept MLRA	. 1)		w Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Other (Expla	ain in Remarks)
	ed Below Dark Surfa	ce (A11)	Depleted Matrix (F3)	(50)				
	Dark Surface (A12)		Redox Dark Surface				-	drophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfac				-	rology must be present, rbed or problematic.
Sanuy	Gleyed Matrix (S4)		Redox Depressions (FO)			uniess distu	rbed of problematic.
Restrictive	Layer (if present):							
Type:								
Depth	(inches):				Hyd	Iric Soil	Present? Ye	s <u>X</u> No
Remarks:	Soils not hydric. Lag	er with a domina	nt chroma of more that	an 2 must b	e less tha	n 6 inch	es.	
HYDROL	OGY							
Wetland Hv	drology Indicators:							
-	dicators (minimum of		eck all that apply)				Secondary I	ndicators (2 or more required)
	e Water (A1)		Water-Stained Le	aves (B9) (except M	LRA		tained Leaves (B9) (MLRA 1, 2,
	/ater Table (A2)		1, 2, 4A, and 4E					nd 4B)
X Satura	tion (A3)		Salt Crust (B11)				Drainage	e Patterns (B10)
	Marks (B1)		Aquatic Invertebra	ates (B13)				son Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide					on Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp	-	-	pots (C3)	· ·	ohic Position (D2)
	/lat or Crust (B4) eposits (B5)		Presence of Redu Recent Iron Redu		,	6)		Aquitard (D3) utral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress			,		ant Mounds (D6) (LRR A)
	tion Visible on Aerial	Imagery(B7)	Other (Explain in		.,(,		ave Hummocks (D7)
Sparse	ely Vegetated Concav	ve Surface (B8)						
Field Obs	ervations:							
Surface W	ater Present? Y	es No	· · ·	ches): N	۹			
		es No		· · · · · · · · · · · · · · · · · · ·				
Saturation		'es <u>X</u> No	Depth (Inc	ches): 12	2	Wetla	nd Hydrology Pr	esent? Yes <u>X</u> No
	apillary fringe)	m douido	ing well periol photos		nonoctica	(a) if as		
Describe F	vecorded Data (strea	m gauge, monito	ring well, aerial photos	s, previous i	Ispection	15), 11 ava	allaDIE.	
Remarks:								

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

Project/Site: Newpo	roject/Site: Newport Municipal Airport				: City of New	vport			Sampling Da	te: 28-N	/lay-2019
Applicant/Owner:	City of Ne	ewport		·		St	tate:	OR	Sampling Po	int:	SP05
nvestigator(s): Jeff Barna, PWS and Luke Johnson				Section, To	ownship, Ran	ge: S	Sectior	n 29, To	wnship 11 S,	Range 11 S	5
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (c	concave, con	vex, no	one): r	none		Slope (%):	1
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.59	1068		Long	g: -124	.06232	9	Datum: NAI	D83
Soil Map Unit Name	: 42E - N	Nelscott loam, 12 to 50) percent slopes	i			NWI	classif	ication: None		
Are climatic / hydrole	ogic condi	tions on the site typic	al for this time of	f year? Yes	No	Х	(If no,	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Norn	nal Cir	cumsta	ances"	present' Yes	X No	
Are Vegetation Soil or Hydrology naturally pro				lematic?	(If needed	d, expla	ain ang	y answe	ers in Remarks	3.)	

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

Hydrophytic Vegetation Present?	Yes >	X No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	х
Remarks: Recorded precipitation in		onthe way	s below porm				

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of	plants.				
Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Picea sitchensis	15		FAC	That Are OBL, FACW, or FAC: 3 (A	.)
2. Pinus contorta	35	1	FAC		-
3.				Total Number of Dominant	
4.				Species Across All Strata: 4 (B)
	50	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	60	1	FAC	That Are OBL, FACW, or FAC:	3)
2. Gaultheria shallon	10		FACU		
3				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	
	70	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Athyrium cyclosorum	5	1	FAC	FACU species x 4=	
2				UPL species x 5=	
3				Column Totals: (A) (B)	
4					
5				Prevalence Index = $B/A = \underline{0}$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				X 2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide supporti	ing
11.				data in Remarks or on a separate sheet)	-
	5	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain))
1. Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology mu	ust
2.				be present, unless disturbed or problematic.	
	15	= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes x No	
				Present?	-
Remarks:					

US Army Corps of Engineers

Sampling Point: SP05

	h needed to document the indicator or confirm the	absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 YR 2/2 100		Sandy loam
<u> </u>		
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Grains	2Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:	_	
Depth (inches):	Hydric Soil F	Present? Yes <u>No X</u>
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	l; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)		
	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Drift Deposits (B3)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations:	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes N Water Table Present? Yes N	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) d Hydrology Present? YesNoX
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16 Wetland	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) d Hydrology Present? YesNoX

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

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/County:	City of Newpo	rt		Sampling Date	e: 28-M	ay-2019
Applicant/Owner:	City of New	oort				State:	OR	Sampling Poir	nt: S	P06
Investigator(s): Jeff	Barna, PWS	and Luke Johnson		Section, Tov	wnship, Range:	Sectio	on 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, etc.): hillslope		Local relief (co	oncave, conve	k, none):	none	S	Slope (%):	2
Subregion (LRR):	A2 - Willam	nette Valley	Lat: 44.591	293	L	.ong: <u>-12</u>	4.06296	6 C	Datum: NAD	83
Soil Map Unit Name	: 42E - Nel	scott loam, 12 to 50 p	ercent slopes			NW	I classif	ication: None		
Are climatic / hydrol	ogic conditio	ns on the site typical f	or this time of ye	ar? Yes	No X	(If no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	sturbed?	Are "Normal	Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	ematic?	(If needed, e	xplain ar	ny answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes X	K No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	X

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Picea sitchensis	35	1	FAC	That Are OBL, FACW, or FAC: 4	(A)
2. Alnus rubra	10	1	FAC		
3.				Total Number of Dominant	
4.				Species Across All Strata: 5	(B)
	45	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	50	1	FAC	That Are OBL, FACW, or FAC: 80.00 (A	√B)
2. Gaultheria shallon	10		FACU		
3. Sambucus racemosa	30	1	FACU	Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	
	90	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1				FACU species x 4=	
2.				UPL species x 5=	
3.				Column Totals: (A) (E	3)
4.				()	/
5				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7.				1. Rapid Test For Hydrophytic Vegetation	
8				X 2. Dominance Test is >50%	
0				3. Prevalence Index is ≤3.0 ¹	
9 10.				4- Morphological Adaptations ¹ (Provide suppo	ortina
44				data in Remarks or on a separate sheet)	
····		= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6. Problematic Hydrophytic Vegetation ¹ (Expla	in)
1. Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology n	
2.				be present, unless disturbed or problematic.	
	15	Tatal Osua			
N/ Dans Organishin Ulark Observation 400		= Total Cover		Hydrophytic Vegetation Yes X No	
% Bare Ground in Herb Stratum 100					
				Present?	
Remarks:					

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Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Type: Construction Construction Construction Construction Construction Histosol (A1) Sandy Redox (S5) Construction Construction Construction Construction Construction Histosol (A1) Construction Cons	Depth Matrix (inches) Color (moist)	% Col	Redo or (moist)	%	Type ¹	Loc ²	Texture	Remarks	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:: Histicsol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky (Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Back Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Deptit (inches): Hydric Soil Present? Yes No X Primary Indicators: Primary Indicators: Primary Indicators (2 or more required) Matr. 1, 2, 4A, and 4B) Dist Crust (B11) Dist Crust (B12) Dist Cr					190	200		Komano	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:: Histicsol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky (Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Back Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Deptit (inches): Hydric Soil Present? Yes No X Primary Indicators: Primary Indicators: Primary Indicators (2 or more required) Matr. 1, 2, 4A, and 4B) Dist Crust (B11) Dist Crust (B12) Dist Cr									
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:: Histiscal (A1) Sandy Redox (S5) 2 cm Muck (A10) Histisc Epipedion (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histis (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Depleted Bolow Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Bolow Dark Surface (A11) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Deptet (inches): Hydric Soil Present? Yes No X Remarks: Sardrace Water (A1) Water-Stained Leaves (B9) (except MLRA Uater-Stained Leaves (B9) (except MLRA 4A, and 4B) Drainage Patterns (B10)									
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:: Histiscal (A1) Sandy Redox (S5) 2 cm Muck (A10) Histisc Epipedion (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histis (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Depleted Bolow Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Bolow Dark Surface (A11) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Deptet (inches): Hydric Soil Present? Yes No X Remarks: Sardrace Water (A1) Water-Stained Leaves (B9) (except MLRA Uater-Stained Leaves (B9) (except MLRA 4A, and 4B) Drainage Patterns (B10)							·		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:: Histicsol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky (Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Back Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Depth (inches): Hydric Soil Present? Yes No X Primary Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Matr. 1, 2, 4A, and 4B) Saturation (A3) Saturation (R1) Aquatic Invertebrates (B3) Dist Curk (B11) Dist Curk (B13) Dist Curk (B11) Dist Curk (B13) Dist Curk (B14) Dist Curk (B14) Dist Curk (B14) Dist Curk (B14) Dist Curk (·		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:: Histicsol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky (Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Back Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Depth (inches): Hydric Soil Present? Yes No X Primary Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Matr. 1, 2, 4A, and 4B) Saturation (A3) Saturation (R1) Aquatic Invertebrates (B3) Dist Curk (B11) Dist Curk (B13) Dist Curk (B11) Dist Curk (B13) Dist Curk (B14) Dist Curk (B14) Dist Curk (B14) Dist Curk (B14) Dist Curk (
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:: Histicsol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky (Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Back Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Depth (inches): Hydric Soil Present? Yes No X Primary Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Matr. 1, 2, 4A, and 4B) Saturation (A3) Saturation (R1) Aquatic Invertebrates (B3) Dist Curk (B11) Dist Curk (B13) Dist Curk (B11) Dist Curk (B13) Dist Curk (B14) Dist Curk (B14) Dist Curk (B14) Dist Curk (B14) Dist Curk (
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histo Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Wucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mcky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Remarks: Type: Hydric Soil Present? Yes No X Remarks: No X Redox Depressions (F8) WUDROLOGY Saturation (A3) Sati Crust (B11) Saturation (A3) Sati Crust (B11) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres and pulving Roots (C3) Geomorphic Position (C2) Settiment Deposits (B3) Oxidized Rhizospheres and pulving Roots (C3) Geomorphic Position (C2) Mater Marks (B1) Aquatic Invertobrates (B13) Drainage Patterns (B10) Drainage Patterns (B10) Settorest (B3) Oxidized Rhizospheres anong Living Roots (C3) Geomorphic Positio	//				ed Sand	Grains.			
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inches): Remarks: IYDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surf Field Observations: Surface Water Present? Yes Water Table Present? Yes		ater-Stained Lea , 2 , 4A , and 4E It Crust (B11) uatic Invertebra drogen Sulfide idized Rhizosph esence of Redu cent Iron Reduc unted or Stresse her (Explain in F Depth (Inc Depth (Inc	tes (B13) Odor (C1) neres along ced Iron (C- ction in Tille ad Plants (C Remarks) hes): <u>N/</u> hes): <u>>1</u>	Living Ro 4) d Soils (0 1) (LRR	 LRA Doots (C3) C6) A)	Secondary Inc Water-Stai 4A, and Drainage F Dry-Seaso Saturation Geomorph Shallow Ac FAC-Neutr Raised Ant Frost-Heav	dicators (2 or more requ ned Leaves (B9) (MLR 1 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) : Mounds (D6) (LRR A) re Hummocks (D7)	A 1, 2
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Newpo	roject/Site: Newport Municipal Airport				ty: City of New	port		Sa	ampling Date:	28-May	-2019
Applicant/Owner:	City of Ne	ewport				State	: OR	Sa	ampling Point:	SP)7
Investigator(s): Jeff	Barna, PV	VS and Luke Johnson		Section, 1	Fownship, Rang	ge: Sec	tion 29,	Town	ship 11 S, Ran	ge 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief	(concave, conv	ex, none): conve	ex	Slop	e (%):	1
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.59	90759		Long: -	24.0623	328	Datu	um: NAD83	3
Soil Map Unit Name	: 42C - N	Nelscott loam, 3 to 12	percent slopes			Ν	WI class	sificati	ion: None		
Are climatic / hydrole	ogic condi	tions on the site typic	al for this time o	of year? Ye	es No	X (If	no, expl	ain in	Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norm	al Circur	nstances	s" pres	sent' Yes X	No	
Are Vegetation Soil or Hydrology naturally pro				blematic?	(If needed	, explain	any ans	wers i	in Remarks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes x Yes Yes	K No No No	X X	Is the Sampled Area within a Wetland?	Yes	NoX	
Remarks: 0 herbs							
Descende des servicis itations is			le alla sur la ave				

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of pl	lants.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1. Picea sitchensis	35	1	FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Pseudotsuga menziesii	20	1	FACU	
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	55	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	50	1	FAC	That Are OBL, FACW, or FAC: 75.00 (A/B)
2. Gaultheria shallon	10		FACU	
3.				Prevalence Index worksheet:
4. Rubus armeniacus	5		FAC	Total % Cover of: Multiply by:
5				OBL species x 1=
	65	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 105 x 3= 315
1				FACU species 30 x 4= 120
2				UPL species x 5=
3		_		Column Totals: <u>135</u> (A) <u>435</u> (B)
4				
5				Prevalence Index = $B/A = 3.22$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
		= Total Cover		5. Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	15	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 100				Vegetation Yes x No
				Present?
Remarks: 0 herbs				

US Army Corps of Engineers

Sampling Point: SP07

	h needed to document the indicator or confirm the	e absence of indicators.)
	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 YR 2/2 100		Sandy loam
<u> </u>		·
<u> </u>		
<u> </u>		
	Deduced Matrix CC Covered or Costed Cond Crain	as. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	Reduced Matrix, CS=Covered or Coated Sand Grain	Indicators for Problematic Hydric Soils ³ :
Tyune oon mulcators. (Applicable to an E	into, unless otherwise noted.)	indicators for r robientatic rigane cons.
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.	
Restrictive Layer (if present):		
Туре:		
Depth (inches):	— Hydric Soil	Present? Yes No X
· · · ·		
Remarks:		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
	l; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	l; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	i
Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Discribe Recorded Data (stream gauge, mode)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): >16 Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): >16 Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

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

Project/Site: Newport Municipal Airport		City/	City/County: City of Newport				Sampling Date:		28-May-2019						
Applicant/Owner:	City of Ne	ewport	t					S	tate:	OR	Sampling Po	pint:	SP	08	
Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Ran						ge:	Sectio	n 29, To	wnship 11 S,	Range	11 S				
Landform (hillslope,	terrace, e	etc.):	terraces		Local	relief (cc	ncave, con	ivex, n	one): o	convex		Slope	(%):	3	
Subregion (LRR):	A2 - Will	amett	e Valley	Lat:	44.588475			Long	g: <u>-12</u> 4	.06041	5	Datum	: NAD83	3	
Soil Map Unit Name	: 42E - N	Velsco	ott loam, 12 to 50	percent slo	opes				NWI	classifi	cation: Near	PSCC			
Are climatic / hydrol	ogic cond	itions	on the site typica	l for this tin	ne of year?	Yes	No	Х	(lf no	, explaiı	n in Remarks.)			
Are Vegetation	Soil	Х	or Hydrology	signific	antly disturbe	ed?	Are "Norr	nal Cir	cumst	ances"	present' Yes	Х	No		
Are Vegetation	Soil		or Hydrology	natural	lly problematio	c?	(If neede	d, expl	ain an	y answe	ers in Remark	s.)	_		

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

Hydrophytic Vegetation Present?	Yes	Х	No						
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area					
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	X	No		
Remarka: Recorded precipitation in pre	Pomerka: Percented precipitation in province menthe was below permet range								

Remarks: Recorded precipitation in previous months was below normal range

Soils are fill material, however, assumed to be hydric based on wetland hydrology and hydrophytic plants.

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1.				That Are OBL, FACW, or FAC:	2 (A)
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata:	2 (B)
		= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1.				That Are OBL, FACW, or FAC:	100.00 (A/B)
2.				_	
3.				Prevalence Index worksheet:	
4.				Total % Cover of:	Aultiply by:
5.				OBL species 1 x 1=	: 1
		= Total Cover		FACW species 35 x 2=	70
Herb Stratum (Plot size: 5' R)				FAC species 35 x 3=	105
1. Holcus lanatus	30	1	FAC	FACU species 5 x 4=	= 20
2. Equisetum arvense	5		FAC	· · · · · · · · · · · · · · · · · · ·	
3. Lysichiton americanus	1		OBL	Column Totals: 76 (A)	196 (B)
4. Juncus effusus	20	1	FACW		(=)
5. Epilobium ciliatum	15		FACW	Prevalence Index = B/A =	2.58
6. Rubus parviflorus	5		FACU	Hydrophytic Vegetation Indicato	ers:
7				1- Rapid Test For Hydrophytic	
8				X 2- Dominance Test is >50%	- 3
0				X 3. Prevalence Index is $\leq 3.0^1$	
10				4. Morphological Adaptations ¹	(Provide supporting
11				data in Remarks or on a sep	
····	76	= Total Cover		5- Wetland Non-Vascular Plan	,
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Ve	
				¹ Indicators of hydric soil and wetla	
1 2.				be present, unless disturbed or pr	
۲				· · ·	oblematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X	No
				Present?	
Remarks:					

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Profile Description: (Describe to the dep	th needed to document the inc	licator or con	firm the a	bsence of ind	icators.)				
Depth Matrix	Redox Fea	atures							
(inches)Color (moist)%0-16Fill	6 Color (moist)	% Type ¹	Loc ²	Texture	Remarks Refusal at 6 inches				
<u></u>									
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered	or Coated San	d Grains.	² Loc	ation: PL=Pore Lining, M=Matrix.				
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)		Indicators fo	r Problematic Hydric Soils ³ :				
Histosol (A1) Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)			2 cm Muc Red Pare	⊳k (A10) nt Material (TF2)				
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLR	A 1)		llow Dark Surface (TF12)				
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)			X Other (Ex	plain in Remarks)				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Matrix (F3) Redox Dark Surface (F6)			3Indicators of	hydrophytic vegetation and				
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.									
Restrictive Layer (if present):									
Type: Depth (inches):		н	/dric Soil	Present?	Yes X No				
· · · · ·	, assumed to be hydric based or	-							
	, assumed to be flydne based of	r wettand nyun	blogy and		uno.				
HYDROLOGY									
Wetland Hydrology Indicators:									
Primary Indicators (minimum of one require					y Indicators (2 or more required)				
X Surface Water (A1)	Water-Stained Leaves	(B9) (except I	MLRA		-Stained Leaves (B9) (MLRA 1, 2, , and 4B)				
X High Water Table (A2) X Saturation (A3)	1, 2, 4A, and 4B) Salt Crust (B11)				ige Patterns (B10)				
Water Marks (B1)	Aquatic Invertebrates (B13)			eason Water Table (C2)				
Sediment Deposits (B2)	Hydrogen Sulfide Odor	. ,			tion Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Oxidized Rhizospheres		Roots (C3)		orphic Position (D2)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced I Recent Iron Reduction	. ,	(C6)		w Aquitard (D3) Ieutral Test (D5)				
Surface Soil Cracks (B6)	Stunted or Stressed Pl		· · /		d Ant Mounds (D6) (LRR A)				
Inundation Visible on Aerial Imagery(B			,		Heave Hummocks (D7)				
Sparsely Vegetated Concave Surface (B8)								
Field Observations:									
Surface Water Present? Yes X Water Table Present? Yes X	No Depth (Inches): No Depth (Inches):								
Saturation Present? Yes X	No Depth (Inches):		Wetla	nd Hydrology	Present? Yes X No				
(includes capillary fringe)				, <u>.</u>					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, prev	vious inspectio	ons), if ava	ailable:					
Remarks:									

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

Project/Site: Newport Municipal Airport		City/County:	City of Ne	ewport Sampling Date: 28-May-2019
Applicant/Owner: City of Newport				State: OR Sampling Point: SP09
Investigator(s): Jeff Barna, PWS and Luke Johnson		Section, To	wnship, Ra	ange: Section 29, Township 11 S, Range 11 S
Landform (hillslope, terrace, etc.): terrace		Local relief (c	oncave, co	onvex, none): convex Slope (%): 4
Subregion (LRR): A2 - Willamette Valley	Lat: 44.588	392		Long: -124.060495 Datum: NAD83
Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 p	ercent slopes			NWI classification: Near PSCC
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 di	sturbed?	Are "No	rmal Circumstances" present' Yes X No
Are Vegetation Soil or Hydrology	naturally probl	ematic?	(If neede	ed, explain any answers in Remarks.)
	nap showir	ig samplin	g point l	locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No X			
Hydric Soil Present? Yes	No X	Is the	Sampled A	Area
Wetland Hydrology Present? Yes	No <u>X</u>	within	a Wetland	1? Yes <u>No X</u>
Remarks: Veg has been mowed within ditch feature 4% slope)			
Recorded precipitation in previous month	is was below n	ormal range		
VEGETATION – Use scientific names of				
Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1. Picea sitchensis	35	1	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Pseudotsuga menziesii 3.	20	1	FACU	Total Number of Dominant
4.				Species Across All Strata: 7 (B)
	55	Tatal Causer		
Sapling/Shrub Stratum (Plot size: 30' R)		= Total Cover		Percent of Dominant Species
1. Rubus parviflorus	20	1	FACU	That Are OBL, FACW, or FAC: 42.86 (A/B)
2. Gaultheria shallon	40	1	FACU	
3.				Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species x 1=
	60	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 100 x 3= 300
1. Linnaea borealis	5	1	FACU	FACU species 90 x 4= 360
2. Equisetum arvense	50	1	FAC	UPL species x 5=
3. Polystichum munitum	5		FACU	Column Totals: 190 (A) 660 (B)
4.				
5				Prevalence Index = $B/A = 3.47$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	60 =	= Total Cover		5-Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	15	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum	_			Vegetation Yes <u>No X</u> Present?
Remarks: Veg has been mowed within ditch feat	ure			1

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Sampling Point: SP09

Profile Description: (Describe to the de	pth needed to document the indicator or confirm the	e absence of indicators.)						
Depth Matrix	Redox Features							
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks						
0-4 10 YR 2/2 100)	Sandy loam						
4-16 10 YR 2/2		gravelly loan						
		21						
	M=Reduced Matrix, CS=Covered or Coated Sand Grain							
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :						
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)						
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)						
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)						
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)						
Depleted Below Dark Surface (A11)	Depleted Matrix (F2)							
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and						
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,						
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.								
Restrictive Layer (if present):								
Туре:								
Depth (inches):	Hydric Soil	Present? Yes No X						
Remarks: 4% slope								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of one require	ed: check all that apply)	Secondary Indicators (2 or more required)						
i								
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,						
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)						
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10) Dry-Season Water Table (C2)						
Water Marks (B1)	Aquatic Invertebrates (B13)							
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3							
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)						
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)						
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)						
Inundation Visible on Aerial Imagery(E	 Other (Explain in Remarks) 	Frost-Heave Hummocks (D7)						
On any shull be not start and O survey on O surfaces								
Sparsely Vegetated Concave Surface	(B8)							
Sparsely Vegetated Concave Surface Field Observations:	(B8)							
	(B8)							
Field Observations:								
Field Observations: Surface Water Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16	nd Hydrology Present? Yes <u>No X</u>						
Field Observations: Surface Water Present? Yes Water Table Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16	nd Hydrology Present? Yes <u>No X</u>						
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16							
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16							
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16							
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, r	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16							

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

Project/Site: Newport Municipal Airport			City/Coun	City/County: City of Newport			Sampling Dat	ie: 2	28-May-2	2019		
Applicant/Owner:	City of Ne	wport		_		St	ate:	OR	Sampling Poi	nt:	SP10)
Investigator(s): Jeff Barna, PWS and Luke Johnson				Section,	Section, Township, Range: Section 29, Township 11 S, Range 11 S				1 S			
Landform (hillslope,	terrace, et	c.): terrace		Local relief	(concave, con	vex, no	one): r	none	5	Slope (%	%):	2
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.5	4934		Long	j: -124	.04804	4 [Datum:	NAD83	
Soil Map Unit Name	: 35E - Li	nt silt loam, 5 to 25 p	ercent slopes				NWI	classif	ication: None			
Are climatic / hydrole	ogic condit	ions on the site typic	al for this time	of year? Ye	es <u>No</u>	Х	(If no,	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norn	nal Ciro	cumsta	ances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?	(If needed	d, expla	ain ang	y answ	ers in Remarks	.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х		
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area	
Wetland Hydrology Present?	Yes	No	Х	within a Wetland? Yes <u>No X</u>	_
Remarks: Clear cut					

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:	
	% Cover	Species?	Status	Number of Dominant Species	(•)
1				That Are OBL, FACW, or FAC:	(A)
2				Tatal Number of Daminant	
3				Total Number of Dominant	
4				Species Across All Strata:	(B)
Sapling/Shrub Stratum (Plot size: 30' R)		= Total Cover		Percent of Dominant Species	
1. <u> </u>				That Are OBL, FACW, or FAC: #DIV/0!	(A/B)
2.					(,,,,,)
3.				Prevalence Index worksheet:	
4.				Total % Cover of: Multiply by:	
5.				OBL species x 1=	
		= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1				FACU species x 4=	
				UPL species x 5=	
2					(B)
4				(),)	(2)
5				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				2- Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide sup	porting
11				data in Remarks or on a separate sheet)	
	:	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Exp	olain)
1				¹ Indicators of hydric soil and wetland hydrology	/ must
2.				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100					х
				Present?	<u>~</u>
Remarks: Clear cut				I	

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Profile Description: (Describe to the o	-		m the absence of in	dicators.)					
Depth Matrix (inches) Color (moist)	Redox Featu % Color (moist) %		Loc ² Texture	Remarks					
	08 Charcoal 2			Remarks					
¹ Type: C=Concentration, D=Depletion,		or Coated Sand	Grains ² I o	ocation: PL=Pore Lining, M=Matr					
Hydric Soil Indicators: (Applicable to a				r Problematic Hydric Soils ³ :					
Histosol (A1)	Sandy Redox (S5)		2 cm Muc	k (A10)					
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parer	nt Material (TF2)					
Black Histic (A3)	Loamy Mucky Mineral (F1) (e	except MLRA 1)		low Dark Surface (TF12)					
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Ex	plain in Remarks)					
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)		andicators of	hydrophytic vocatation and					
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.									
Restrictive Layer (if present):									
Туре:									
Depth (inches):		Hydric	Soil Present?	/es <u>No X</u>					
Remarks:									
HYDROLOGY									
Wetland Hydrology Indicators:									
Primary Indicators (minimum of one req	uired: check all that apply)		Secondar	y Indicators (2 or more required)					
Surface Water (A1)	Water-Stained Leaves (B	9) (except MLR		Stained Leaves (B9) (MLRA 1, 2,					
High Water Table (A2)	1, 2, 4A, and 4B)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		and 4B)					
Saturation (A3)	Salt Crust (B11)			ge Patterns (B10)					
Water Marks (B1)	Aquatic Invertebrates (B1			ason Water Table (C2)					
Sediment Deposits (B2) Drift Deposits (B3)	Hydrogen Sulfide Odor (C Oxidized Rhizospheres al	•		tion Visible on Aerial Imagery (C9) orphic Position (D2)					
Algal Mat or Crust (B4)	Presence of Reduced Iror	0 0		v Aquitard (D3)					
Iron Deposits (B5)	Recent Iron Reduction in	Tilled Soils (C6)	FAC-N	eutral Test (D5)					
Surface Soil Cracks (B6)	Stunted or Stressed Plant			Ant Mounds (D6) (LRR A)					
Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface		S)	Frost-F	leave Hummocks (D7)					
Field Observations: Surface Water Present? Yes	No X Depth (Inches):	NA							
Water Table Present? Yes	No X Depth (Inches):	>16							
Saturation Present? Yes	No X Depth (Inches):	>16	Vetland Hydrology I	Present? Yes <u>No X</u>					
(includes capillary fringe)									
Describe Recorded Data (stream gauge	, monitoring well, aerial photos, prev	ious inspections	s), if available:						
Remarks: Clear cut									

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

Project/Site: Newport Municipal Airport	City/County: City of Newpo	ort Sampling Date: 28-May-2019
Applicant/Owner: City of Newport		State: OR Sampling Point: SP11
Investigator(s): Jeff Barna, PWS and Luke Johnson	Section, Township, Range	: Section 29, Township 11 S, Range 11 S
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave, conve	x, none): convex Slope (%): 4
Subregion (LRR): A2 - Willamette Valley Lat:	44.550203 I	Long: -124.046922 Datum: NAD83
Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slo	pes	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this tim	e of year? Yes No X	(If no, explain in Remarks.)
Are Vegetation Soil X or Hydrology significa	antly disturbed? Are "Normal	I Circumstances" present' Yes X No
Are Vegetation Soil or Hydrology naturall	y problematic? (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point locat	ions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No		
Hydric Soil Present? Yes X No	Is the Sampled Area	l
Wetland Hydrology Present? Yes X No	within a Wetland?	Yes <u>X</u> No
Remarks: Recorded precipitation in previous months was bele Soils are disturbed, however, assumed to be hydr Flowing water present	5	hydrophytic plants.
VEGETATION – Use scientific names of plants.		
	cover Species? Status N	ominance Test worksheet: umber of Dominant Species
1		hat Are OBL, FACW, or FAC: 2 (A)
2		
3	T	otal Number of Dominant

2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
		= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)		-		Percent of Dominant Species
1. Rubus spectabilis	5	1	FAC	That Are OBL, FACW, or FAC: 66.67 (A/B)
2. Gaultheria shallon	5	1	FACU	
3.				Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species 20 x 1= 20
	10	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)		-		FAC species 10 x 3= 30
1. Blechnum spicant	5		FAC	FACU species 10 x 4= 40
2. Lysichiton americanus	20	1	OBL	UPL species x 5=
3. Epilobium minutum	5		FACU	Column Totals: 40 (A) 90 (B)
4.				
5.				Prevalence Index = $B/A = 2.25$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8.				X 2- Dominance Test is >50%
9.				X 3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	30	= Total Cover		5-Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)		-		6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Pomorko				Present?
Remarks:				Present?

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	n needed to document the indicator or confirm the	absence of indicators.)					
Depth Matrix	Redox Features						
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks					
0-8 10 YR 4/3 50	10 YR 3/6 2 C M	Sand					
0-8 10 YR 2/2 58		Sand loam					
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Grains	² Location: PL=Pore Lining, M=Matrix.					
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :					
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)					
Histic Epipedon (A2)	· · · · ·						
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)					
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	X Other (Explain in Remarks)					
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)						
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and					
Sandy Mucky Mineral (S1)	Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)						
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.					
Restrictive Layer (if present):							
Туре:							
Depth (inches):	Hydric Soi	I Present? Yes X No					
Remarks: Soils are disturbed, however, as	sumed to be hydric based on wetland hydrology and l	hydrophytic plants.					
	,						
HYDROLOGY							
Wetland Hydrology Indicators: Primary Indicators (minimum of one required	; check all that apply)	Secondary Indicators (2 or more required)					
Wetland Hydrology Indicators:	; check all that apply) Water-Stained Leaves (B9) (except MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required							
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)					
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)					
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)					
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)					
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)					
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (Inches): 3	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes X Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No Depth (Inches): 3 No Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes X Yes X Saturation Present? Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes X Water Table Present? Yes Saturation Present? Yes X (includes capillary fringe) Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No Depth (Inches): 3 No Depth (Inches): Weth	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes X Water Table Present? Yes Saturation Present? Yes X (includes capillary fringe) Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No Depth (Inches): 3 No Depth (Inches): 1	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes X Water Table Present? Yes Saturation Present? Yes X (includes capillary fringe) Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No Depth (Inches): 3 No Depth (Inches): Weth	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)					

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

Project/Site: Newpo	rt Municipal	Airport		City/County:	City of Newpor	rt		Sampling Date	e: 28-May	-2019
Applicant/Owner:	City of New	/port				State:	OR	Sampling Poin	it: SP	12
Investigator(s): Jeff	Barna, PWS	S and Luke Johnson		Section, Tov	wnship, Range:	Sectio	on 29, To	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, etc	:.): hillslope		Local relief (co	oncave, convex	, none):	slope	S	lope (%):	8
Subregion (LRR):	A2 - Willar	mette Valley	Lat: 44.550	23	L	ong: <u>-12</u> 4	4.04692	5 D	atum: NAD83	6
Soil Map Unit Name	: 42E - Ne	elscott loam, 12 to 50 p	percent slopes			NW	I classif	ication: None		
Are climatic / hydrol	ogic conditio	ons on the site typical	for this time of ye	ar? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly dis	sturbed?	Are "Normal	Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally proble	ematic?	(If needed, e	xplain ar	ny answe	ers in Remarks.))	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	х	No No No	X X	Is the Sampled Area within a Wetland? Yes <u>No X</u>	
Remarks: clear cut drainage, very steep side walls						
Recorded precipitation in prev	vious m	onths	was be	elow nor	rmal range	

Clear cut

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				
3				Total Number of Dominant
4				Species Across All Strata: 3 (B)
		= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	20	1	FAC	That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	20	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Blechnum spicant	15	1	FAC	FACU species x 4=
2. Athyrium cyclosorum	2		FAC	UPL species x 5=
3. Polystichum munitum	5	1	FACU	Column Totals: (A) (B)
4.				
5.				Prevalence Index = $B/A = 0$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8.				X 2. Dominance Test is >50%
9.				3. Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	22	= Total Cover		5. Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1.				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 100				Vegetation Yes x No
% Bare Ground in Herb Stratum 100				Vegetation Yes <u>x</u> No Present?
% Bare Ground in Herb Stratum 100 Remarks: clear cut drainage, very steep side walls				· · · · · · · · · · · · · · · · · · ·

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Profile Description: (Describe to the depth	needed to document the indicator or confirm the a	bsence of indicators.)					
Depth Matrix	Redox Features						
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks					
0-16 7.5 YR 3/3 100							
		² Leasting DL Dave Lining M Matrix					
	educed Matrix, CS=Covered or Coated Sand Grains.	² Location: PL=Pore Lining, M=Matrix.					
Hydric Soil Indicators: (Applicable to all LRI	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :					
Listand (Ad)	Sandy Daday (SE)	$2 \text{ or } \mathbf{M}_{\text{track}}(A \neq 0)$					
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)					
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)					
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)					
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)					
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)						
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and					
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,					
Sandy Gleyed Matrix (S4)	Sandy Gleyed Matrix (S4) Redox Depressions (F8)						
		unless disturbed or problematic.					
Restrictive Layer (if present):							
Type:	—						
Depth (inches):	Hydric Soil	Present? Yes No X					
Remarks:							
Remarks.							
HYDROLOGY							
IIIDROEDOI							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of one required;	check all that apply)	Secondary Indicators (2 or more required)					
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,					
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)					
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)					
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)						
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)					
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)					
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)					
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)					
Sparsely Vegetated Concave Surface (B8)							
Sparsely Vegetated Concave Surface (B8)							
Sparsely Vegetated Concave Surface (B8) Field Observations:							
Field Observations:							
Field Observations: Surface Water Present? Yes							
Field Observations: Surface Water Present? Yes Water Table Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16	nd Hydrology Present? Yes No X					
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16	nd Hydrology Present? Yes <u>No X</u>					
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 cl Wetla	· · ·					
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16	· · ·					
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 cl Wetla	· · ·					
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 cl Wetla	· · ·					
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monited the stream gauge)	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 cl Wetla	· · ·					

Project/Site: Newpo	ort Municipal Air	port		C	City/County:	City of Ne	wpor	t		Sampling Da	ate:	28-May	/-2019	
Applicant/Owner:	City of Newpor	t						State:	OR	Sampling Po	oint:	SP	13	
Investigator(s): Jeff	Barna, PWS ar	nd Luke Johnson		Ś	Section, Tov	wnship, Rai	nge:	Sectio	n 29, T	ownship 11 S,	Rang	je 11 S		
Landform (hillslope	, terrace, etc.):	terrace		Lo	cal relief (co	oncave, co	nvex	, none):	none		Slope	e (%):	3	
Subregion (LRR):	A2 - Willamet	e Valley	Lat:	44.54664	3		Lo	ong: <u>-12</u> 4	1.04772	27	Datur	m: NAD83	3	
Soil Map Unit Name	e: 42E - Nelsc	ott loam, 12 to 50 p	ercent slo	opes				NW	l classif	fication: None	;			
Are climatic / hydro	logic conditions	on the site typical	for this tin	ne of year	? Yes	No	Х	(If no	, explai	in in Remarks.	.)			
Are Vegetation	Soil	or Hydrology	signific	antly distu	rbed?	Are "Nor	rmal (Circumst	ances"	present' Yes	Х	No		
Are Vegetation	Soil	or Hydrology	natural	ly problem	atic?	(If neede	ed, ex	xplain an	y answ	ers in Remark	.s.)			
		A (()) !(12					4		

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

Hydrophytic Vegetation Present?	Yes	No X				
Hydric Soil Present?	Yes	No X	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No X	within a Wetland?	Yes	No	X
Remarks: Clear cut						

Recorded precipitation in previous months was below normal range Clear cut

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC:	(A)
2					
3				Total Number of Dominant	
4				Species Across All Strata:	(B)
		= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1				That Are OBL, FACW, or FAC: #DIV/0!	(A/B)
2				Prevalence Index worksheet:	
3					
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	
		= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1				FACU species x 4=	
2				UPL species x 5=	
3				Column Totals: (A)	(B)
4					
5				Prevalence Index = $B/A = \underline{0}$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide supp	oorting
11.				data in Remarks or on a separate sheet)	-
		= Total Cover		5 Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Expl	lain)
1				¹ Indicators of hydric soil and wetland hydrology	must
2.				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes No 2	x
				Present?	<u>~</u>
Remarks: Clear cut					
itemains. Clear cut					

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Profile Description: (Describe to the depth	needed to document the indicator	or confirm the a	bsence of indicato	rs.)				
Depth Matrix	Redox Features							
(inches) Color (moist) %	Color (moist) %	Type ¹ Loc ²	Texture	Remarks				
0-16 7.5 YR 3/3 98	Charcoal 2							
	<u></u>							
<u> </u>								
			<u> </u>					
	<u> </u>		<u> </u>					
¹ Type: C=Concentration, D=Depletion, RM=F	educed Matrix, CS=Covered or Coat	ed Sand Grains.	² Location	: PL=Pore Lining, M=Matrix.				
Hydric Soil Indicators: (Applicable to all LR	Rs, unless otherwise noted.)		Indicators for Pro	oblematic Hydric Soils ³ :				
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A	10)				
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Ma					
Black Histic (A3)	Loamy Mucky Mineral (F1) (exce	ot MLRA 1)	Very Shallow [Dark Surface (TF12)				
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain	in Remarks)				
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)							
Thick Dark Surface (A12)	Redox Dark Surface (F6)		³ Indicators of hydro	ophytic vegetation and				
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7) wetland hydrology must be present.							
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbe	ed or problematic.				
Restrictive Layer (if present):								
Туре:								
Depth (inches):		Hydric Soil	Present? Yes	No X				
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of one required;	check all that apply)		Secondary Ind	icators (2 or more required)				
Surface Water (A1)	Water-Stained Leaves (B9) (e	xcept MLRA	Water-Stair	ned Leaves (B9) (MLRA 1, 2,				
High Water Table (A2)	1, 2, 4A, and 4B)		4A, and					
Saturation (A3)	Salt Crust (B11)		Drainage P	atterns (B10)				
Water Marks (B1)	Aquatic Invertebrates (B13)			n Water Table (C2)				
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)			Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Oxidized Rhizospheres along I			c Position (D2)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled	,	Shallow Aq FAC-Neutra					
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D	. ,		Mounds (D6) (LRR A)				
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	(2		e Hummocks (D7)				
Sparsely Vegetated Concave Surface (B8			_	(),				
Field Observations:								
Surface Water Present? Yes	No X Depth (Inches): NA	<u>. </u>						
	No X Depth (Inches): >16							
	No X Depth (Inches): >16	S Wetla	nd Hydrology Pres	ent? Yes <u>No X</u>				
(includes capillary fringe) Describe Recorded Data (stream gauge, mon	itoring well aerial photos, previous in	spections) if ava	ilable [.]					
Describe Recorded Data (Stream gauge, mon	ווסווויש שפוו, מפוזמו מווטנטס, מפיוטעס ווו		ແເດນເບັ.					
Remarks: Clear cut								

State: OR Sampling Point: SP14 ion, Township, Range: Section 29, Township 11 S, Range 11 S Section 29, Township 11 S, Range 11 S relief (concave, convex, none): none Slope (%): 3 Long: -124.050715 Datum: NAD83 NWI classification: None NAD83 Yes No X No Yes No X No (If needed, explain any answers in Remarks.) No Yes (If needed, explain any answers in Remarks.) No Yes Is the Sampled Area No X within a Wetland? Yes No X
relief (concave, convex, none): none Slope (%): 3 Long: -124.050715 Datum: NAD83 NWI classification: None None Yes No X Are "Normal Circumstances" present' Yes X No ? (If needed, explain any answers in Remarks.) Pling point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes No X
Long: -124.050715 Datum: NAD83 NWI classification: None Yes No X (If no, explain in Remarks.) I? Are "Normal Circumstances" present' Yes X No ? (If needed, explain any answers in Remarks.) pling point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes No X
Yes No X (If no, explain in Remarks.) I? Are "Normal Circumstances" present' Yes X No ? (If needed, explain any answers in Remarks.) pling point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes No X
Yes No X (If no, explain in Remarks.) d? Are "Normal Circumstances" present' Yes X No ? (If needed, explain any answers in Remarks.) pling point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes No X
Are "Normal Circumstances" present' Yes X No ? (If needed, explain any answers in Remarks.) pling point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes No X
? (If needed, explain any answers in Remarks.) pling point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes NoX
pling point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes <u>No X</u>
Is the Sampled Area within a Wetland? Yes <u>No X</u>
Is the Sampled Area within a Wetland? Yes <u>No X</u>
within a Wetland? Yes NoX
within a Wetland? Yes <u>No X</u>
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nant Indicator Dominance Test worksheet: ies? Status Number of Dominant Species
I FAC That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant
Species Across All Strata: 4 (B)
Cover
Percent of Dominant Species
UPL That Are OBL, FACW, or FAC: 50.00 (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species x 1=
Cover FACW species x 2=
FAC species 70 x 3= 210
FACU FACU species 50 x 4= 200
I FAC Column Totals:20 (A)410 (B)
Prevalence Index = B/A = <u>3.42</u>
Hydrophytic Vegetation Indicators:
1- Rapid Test For Hydrophytic Vegetation
2- Dominance Test is >50% 3- Prevalence Index is ≤3.0 ¹
4- Morphological Adaptations ¹ (Provide supporting
data in Remarks or on a separate sheet)
Cover 5- Wetland Non-Vascular Plants ¹
6- Problematic Hydrophytic Vegetation ¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
Cover Hydrophytic
Vegetation Yes No X
Present?

US Army Corps of Engineers

DepthMatrix(inches)Color (moist)%0-47.5 YR 33/34-16Fill	Color (moist) % Type ¹ Loc ²	Texture Remarks Silt loam
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all Lf Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Reduced Matrix, CS=Covered or Coated Sand Grains Rs, unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if present): Type:	Hydric Soi	I Present? Yes <u>No X</u>
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	and Hydrology Present? Yes <u>No X</u>

Project/Site: Newpo	rt Municipa	l Airport		City/County:	City of Newpo	ort		Sampling Date	e: 28-M	ay-2019
Applicant/Owner:	City of Nev	wport				State:	OR	Sampling Poir	nt: S	P15
Investigator(s): Jeff	Barna, PW	S and Luke Johnson		Section, Tov	vnship, Range	: Sectio	n 29, T	ownship 11 S, R	Range 11 S	
Landform (hillslope,	terrace, et	c.): terrace		Local relief (co	oncave, conve	x, none):	convex	S	Slope (%):	4
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.557	7346		_ong: <u>-12</u> 4	1.05092	5 C	Datum: NAD	83
Soil Map Unit Name	: 18G - Fe	endall-Templeton silt	loams, 35 to 60	percent slopes		NW	l classif	ication: None		
Are climatic / hydrole	ogic conditi	ions on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Norma	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain an	iy answ	ers in Remarks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	X X	Is the Sampled Area			
Wetland Hydrology Present? Remarks: Open and mossy forest flo	Yes or	No	X	within a Wetland?	Yes	No	<u> </u>

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	10	1	FACU	That Are OBL, FACW, or FAC: 1 (A))
2. Picea sitchensis	55	1	FAC	(*)	
3.				Total Number of Dominant	
4.				Species Across All Strata: 3 (B))
	65	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1.				That Are OBL, FACW, or FAC: 33.33 (A/B	3)
2.					
3.				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	
		= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 55 x 3= 165	
1. Gaultheria shallon	10	1	FACU	FACU species 20 x 4= 80	
2.				UPL species x 5=	
3				Column Totals: 75 (A) 245 (B)	
4					
5				Prevalence Index = $B/A = 3.27$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide supportin	ng
11				data in Remarks or on a separate sheet)	
	10	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain))
1				¹ Indicators of hydric soil and wetland hydrology must	st
2				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 90				Vegetation Yes No X	
				Present?	-
Remarks: Open and mossy forest floor				•	

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Sampling Point: SP15

Profile Desc	cription: (Descr	ribe to the depth	needed to	document t	he indicat	or or cor	nfirm the	absence of in	ndicators.)		
Depth	Mat				Features						
(inches)	Color (moist) %	Color (r	noist)	%	Type ¹	Loc ²	Texture	Remarks		
									Same as SP14		
	Concentration D	Depletion PM	Boducod Ma	triv CS Cov	warad ar C	ootod So	ad Craina	21	antion: DL Dara Lining M Matr		
		=Depletion, RM= plicable to all LF				Dated Sal	nd Grains		ocation: PL=Pore Lining, M=Matr		
-								0			
Histosol		—	_Sandy Re	, ,				2 cm Muc			
	pipedon (A2)		Stripped N						ent Material (TF2)		
	istic (A3)	_		cky Mineral		pt MLRA	. 1)		llow Dark Surface (TF12)		
	en Sulfide (A4)	–	_ `	eyed Matrix	(F2)			Other (Ex	(plain in Remarks)		
·	d Below Dark Su		Depleted I	, ,							
	ark Surface (A12	-		k Surface (F	,				hydrophytic vegetation and		
	Aucky Mineral (S	· _		Dark Surface					hydrology must be present,		
Sandy C	Gleyed Matrix (S4	4)	_Redox De	pressions (F	8)			unless dis	sturbed or problematic.		
Restrictive L	ayer (if present	i):									
Туре:			_								
Depth (i	nches):		_			Hyd	Iric Soil F	Present?	Yes <u>No X</u>		
Remarks:											
HYDROLO	GY										
Wetland Hyd	drology Indicato	ors:									
-		n of one required	: check all th	at apply)				Secondar	ry Indicators (2 or more required)		
	Water (A1)	•		Stained Lea	ves (B9) (e	except M			-Stained Leaves (B9) (MLRA 1, 2,		
	ater Table (A2)			4A, and 4B)		, copt in			, and 4B)		
Saturati	()			ust (B11)					age Patterns (B10)		
	Aarks (B1)			: Invertebrat	es (B13)				eason Water Table (C2)		
Sedime	nt Deposits (B2)		Hydrog	en Sulfide C	Odor (C1)			Satura	ation Visible on Aerial Imagery (C9)		
	posits (B3)			d Rhizosph		Living Ro	oots (C3)		orphic Position (D2)		
Algal Ma	at or Crust (B4)		Preser	ce of Reduc	ed Iron (C	4)		Shallo	w Aquitard (D3)		
Iron Dep	oosits (B5)		Recent	Iron Reduc	tion in Tille	d Soils (0	C6)	FAC-N	Veutral Test (D5)		
Surface	Soil Cracks (B6))	Stunte	d or Stresse	d Plants (D	1) (LRR	A)	Raised	d Ant Mounds (D6) (LRR A)		
Inundati	on Visible on Ae	rial Imagery(B7)	Other (Explain in R	emarks)			Frost-I	Heave Hummocks (D7)		
Sparsel	y Vegetated Con	cave Surface (B	8)								
Field Obse	rvations:										
Surface Wa	ter Present?	Yes N	lo <u>X</u>	Depth (Inch	nes): NA	A					
Water Table	Present?		lo X	Depth (Inch	nes): >1	6					
Saturation F	Present?	Yes N	lo X	Depth (Inch	nes): >1	6	Wetlan	d Hydrology	Present? Yes <u>No X</u>		
(includes ca	pillary fringe)										
Describe Re	ecorded Data (st	ream gauge, moi	nitoring well,	aerial photo	s, previous	s inspecti	ons), if av	vailable			
Remarks:											
GIIIAINS.											

Project/Site: Newpo	rt Municipa	al Airport		City/Coun	ty: City of Newp	oort		Sampling Date	e: 28-Ma	y-2019
Applicant/Owner:	City of Net	wport				State:	OR	Sampling Poin	it: SF	P16
Investigator(s): Jeff	Barna, PW	'S and Luke Johnson		Section,	Township, Rang	e: Sectio	on 29, To	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relief	(concave, conv	ex, none):	none	S	lope (%):	2
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.5	555547		Long: -124	4.05649	5 D	atum: NAD8	3
Soil Map Unit Name	: 42C - N	elscott loam, 3 to 12	percent slopes	S		NW	l classif	ication: None		
Are climatic / hydrole	ogic condit	ions on the site typic	al for this time	of year? Y	es No	X (If no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	oblematic?	(If needed	, explain ar	ny answ	ers in Remarks.))	

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

Hydrophytic Vegetation Present?	Yes	No	Х	
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area
Wetland Hydrology Present?	Yes	No	Х	within a Wetland? Yes <u>No X</u>
Remarks:				•

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Picea sitchensis	35	1	FAC	That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
	35	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	80	1	FACU	That Are OBL, FACW, or FAC: 50.00 (A/B)
2.				
3				Prevalence Index worksheet:
4		. <u> </u>		Total % Cover of: Multiply by:
5				OBL species x 1=
	80	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 35 x 3= 105
1				FACU species 80 x 4= 320
2.				UPL species x 5=
3				Column Totals: 115 (A) 425 (B)
4.				
5.				Prevalence Index = $B/A = 3.70$
6.				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
		= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 100				Vegetation Yes No X
				Present?
Remarks:				1

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Sampling Point: SP16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Daph Matrix Redux Features (inches) Color (moist) % Type' Loc ² Texture Remarks 0-16 Color (moist) % Color (moist) % Type' Loc ² Texture Remarks "inple: Color (moist) % Color (moist) % Type' Color (moist) % Sitt learn Sitt learn <t< th=""></t<>
(inches) Color (moist) % Type1 Loc ² Texture Remarks 0-16 10 YR 2/2
¹ -16 ¹ 10 YR 2/2 ¹ Sill loam ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Coation: PL=Pore Lining, M=Matr Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosci (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosci (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Sallow Dark Surface (TF12) Hydric Soil Indicators (A3) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Remarks: Mydric Soil Present? Yes No X No X Mign Vater Table (A2) Hydrace Cristion C0(1) Depleted Dark Surface (F7) Mudicators (10 memories): Type: Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (if present): No X, 44, and 49 Surface Water (A1) Mater-Stained Leaves (B9) (except MLRA
¹ -16 ¹ 10 YR 2/2 ¹ 1 Islam ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matri ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matri ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matri ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matri ¹ Holicosol (A1) ¹ Sandy Redox (S5) ¹ Location: PL=Pore Lining, M=Matrix ¹ Holicosol (A1) ¹ Location: PL=Pore Lining, M=Matrix ¹ Location: PL=Pore Lining, M=Matr
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matr. ¹ Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls: Histic Epideon (A2) Stripped Matrix (S6) C an Muck (A10) Histic Epideon (A2) Stripped Matrix (S7) Core of the Core of t
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
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Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils::
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Histic Epipedon (A2) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Black Histic (A3) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Deplet (Inches): No X Permary Indicators (finimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Table (A2) No X Hydrogen Sulfide Odor (C1) Salt Crust (B11) Depletares (B3) Surface Water (A1) Salt Crust (B11) Dry-Season Water Table (C2) Surface Water (A1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Salt Crust (B1) Salt Crust (B1) Dry-Season Water Table (C2) Surface Sail Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Staturation (Visible on Aerial Imagery(C3) Surface Sail Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Salt act or throw and the Soils (C6) Salt act or throw and tard (D3) Sparasely Vegetated Concave Surface (B8) R
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Histic Epipedon (A2) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Black Histic (A3) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Deplet (Inches): No X Permary Indicators (finimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Table (A2) No X Hydrogen Sulfide Odor (C1) Salt Crust (B11) Depletares (B3) Surface Water (A1) Salt Crust (B11) Dry-Season Water Table (C2) Surface Water (A1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Salt Crust (B1) Salt Crust (B1) Dry-Season Water Table (C2) Surface Sail Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Staturation (Visible on Aerial Imagery(C3) Surface Sail Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Salt act or throw and the Soils (C6) Salt act or throw and tard (D3) Sparasely Vegetated Concave Surface (B8) R
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Hydric Soil Present? Yes
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depleted Matrix (S4) Persent? Yes No X Remarks: Hydric Soil Present? Yes No X Persent? No X Primary Indicators (minimum of one required; check all that apply) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) Saturation Visibl
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Thick Dark Surface (A12) Redox Dark Surface (F6) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (if present): Type: hydro [stresent]? Yes No X Remarks: Hydric Soil Present? Yes No X Secondary Indicators (2 or more required) Surface Water (A1)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:
Sandy Gleyed Matrix (S4)
Restrictive Layer (if present): Type:
Type:
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) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water-Stained Leaves (B13) Water-Stained Leaves (B13) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Mit Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Sunface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No Depth (Inches): NA Field Observations: No Depth (Inches): NA Water Table Present? Yes No Depth (Inches): NA
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) Saturation (A3) Sati Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Fost-Heave Hummocks (D7) Fost-Heave Hummocks (D7) Field Observations: No X Depth (Inches):
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) Saturation (A3) Sati Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Fost-Heave Hummocks (D7) Fost-Heave Hummocks (D7) Field Observations: No X Depth (Inches):
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Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (Inches): NA Water Table Present? Yes No X Depth (Inches): >16
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Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Vegetated Concave Surface (B8) No X Depth (Inches): NA Water Table Present? Yes No X
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: No Surface Water Present? Yes No X Water Table Present? Yes No X
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Teild Observations: No X Surface Water Present? Yes No X Depth (Inches): NA Water Table Present? Yes No X Depth (Inches): >16
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Teld Observations: Surface Water Present? Yes Surface Water Table Present? Yes No X Depth (Inches): >16
Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (Inches): NA Water Table Present? Yes No X Depth (Inches): >16
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Field Observations: Surface Water Present? Yes No X Depth (Inches): NA Water Table Present? Yes No X Depth (Inches): >16
Surface Water Present? Yes No X Depth (Inches): NA Water Table Present? Yes No X Depth (Inches): >16
Water Table Present? Yes No X Depth (Inches): >16
Water Table Present? Yes No X Depth (Inches): >16
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available
Remarks:

Project/Site: Newpo	roject/Site: Newport Municipal Airport				City/County: City of Newport			Sampling Date	e: 28-Ma	ay-2019		
Applicant/Owner:	City of New	port					State:	OR	Sampling Poir	nt: SI	P17	
Investigator(s): Jeff	Barna, PWS	and Luke Johnson		Section,	, Townshi	p, Range	Sectio	n 29, To	ownship 11 S, R	ange 11 S		
Landform (hillslope,	terrace, etc	.): terrrace		Local relie	ef (concav	/e, conve	k, none):	none	S	lope (%):	3	
Subregion (LRR):	A2 - Willan	nette Valley	Lat: 4	4.567856		L	ong: -124	1.05496	3 D	atum: NAD8	33	
Soil Map Unit Name	: 42C - Ne	lscott loam, 3 to 12 p	percent slope	s			NW	l classif	ication: None			
Are climatic / hydrol	ogic conditio	ons on the site typica	I for this time	e of year?	Yes	No X	(If no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significan	tly disturbed?	Ar	e "Normal	Circumst	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally	problematic?	(If	needed, e	explain an	y answe	ers in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes <u>x</u>		No		
Hydric Soil Present?	Yes		No	Х	Is the Sampled Area
Wetland Hydrology Present?	Yes	_	No	Х	within a Wetland? Yes <u>No X</u>
Remarks:					

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Picea sitchensis	65	1	FAC	That Are OBL, FACW, or FAC: 2	(A)
2. Alnus rubra	15		FAC		-
3.				Total Number of Dominant	
4.				Species Across All Strata: 3	(B)
	80	= Total Cover			_
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	30	1	FACU	That Are OBL, FACW, or FAC: 66.67	(A/B)
2. Rubus spectabilis	10	1	FAC		
3.				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5.				OBL species x 1=	-
	40	= Total Cover		FACW species x 2=	_
Herb Stratum (Plot size: 5' R)				FAC species 90 x 3= 270	-
1				FACU species x 4=	-
2				UPL species x 5=	-
3				Column Totals: 90 (A) 270	(B)
4					_(D)
4				Prevalence Index = $B/A = \frac{3.00}{2}$	
6.				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				X 2- Dominance Test is >50%	
9.				X 3. Prevalence Index is $\leq 3.0^{1}$	
10				4. Morphological Adaptations ¹ (Provide su	oportina
11.				data in Remarks or on a separate sheet	
		= Total Cover		5- Wetland Non-Vascular Plants ¹	/
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (E)	plain)
1				¹ Indicators of hydric soil and wetland hydrolog	nv must
2.				be present, unless disturbed or problematic.	,
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes x No	
				Present?	
Remarks:				1	

US Army Corps of Engineers

Depth Matrix	Redox Features	1 . 2		- .			
(inches) Color (moist) 0-16 7.5 YR 2.5/2	<u>%</u> Color (moist) % Typ	pe ¹ Loc ²	Texture Silt loam	Remarks			
31 7 7 7	RM=Reduced Matrix, CS=Covered or Coated S	Sand Grains	. ² Loca	tion: PL=Pore Lining, M=Matrix			
Hydric Soil Indicators: (Applicable to a	all LRRs, unless otherwise noted.)		Indicators for	Problematic Hydric Soils ³ :			
Histosol (A1)	Sandy Redox (S5)		2 cm Muck	(A10)			
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent	Material (TF2)			
Black Histic (A3)	Loamy Mucky Mineral (F1) (except M	LRA 1)	Very Shallo	w Dark Surface (TF12)			
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)				
Depleted Below Dark Surface (A11)							
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)		-	/drophytic vegetation and Irology must be present,			
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		-	irbed or problematic.			
Restrictive Layer (if present):							
Type:							
Depth (inches):		Hydric Soil	Present? Ye	es <u>No X</u>			
Depth (inches):		Hydric Soil	Present? Ye	es <u>No X</u>			
· · · · ·		Hydric Soil	Present? Ye	es <u>No X</u>			
· · · · ·		Hydric Soil	Present? Ye	es <u>No X</u>			
· · · · ·		Hydric Soil	Present? Ye	es <u>No X</u>			
Remarks: IYDROLOGY Wetland Hydrology Indicators:		Hydric Soil	Present? Ye	es <u>No X</u>			
Remarks:	uired; check all that apply)	Hydric Soil		ndicators (2 or more required)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1)	Water-Stained Leaves (B9) (except		Secondary Water-S	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (exception) 1, 2, 4A, and 4B)		Secondary Water-S 4A, a	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 nd 4B)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11)		Secondary Water-S 4A, a	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 ind 4B) e Patterns (B10)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (excep 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)		Secondary Water-S 4A, a Drainage Dry-Sea	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 und 4B) e Patterns (B10) son Water Table (C2)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11)	ot MLRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 Ind 4B) e Patterns (B10)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (exception) 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	ot MLRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Saturatio	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 Ind 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C3			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (excep 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	ot MLRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Shallow FAC-Net	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9 phic Position (D2) Aquitard (D3) utral Test (D5)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (excep 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (L	ot MLRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Shallow FAC-Nei Raised A	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (L (B7) Other (Explain in Remarks)	ot MLRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Shallow FAC-Nei Raised A	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C3 phic Position (D2) Aquitard (D3) utral Test (D5)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (L (B7) Other (Explain in Remarks)	ot MLRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Shallow FAC-Nei Raised A	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9 phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations:	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (L (B7) Other (Explain in Remarks) ce (B8)	ot MLRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Shallow FAC-Nei Raised A	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9 phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (L (B7) Other (Explain in Remarks) ce (B8) No X Depth (Inches): NA	ot MLRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Shallow FAC-Nei Raised A	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C3 phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations:	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (L (B7) Other (Explain in Remarks) ce (B8)	ot MLRA ng Roots (C3 ills (C6) .RR A)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ner Raised A Frost-He	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C4 phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)			
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (L (B7) Other (Explain in Remarks) ce (B8) No X Depth (Inches): NA No X Depth (Inches): >16	ot MLRA ng Roots (C3 ills (C6) .RR A)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Shallow FAC-Nei Raised A	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C4 phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)			
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Project/Site: Newport Municipal Airport				City/Co	City/County: City of Newport			Sampling Date:		28-May-2019			
Applicant/Owner:	City of Ne	ewport					S	state:	OR	Sampling Po	int:	SP	18
Investigator(s): Jeff	Barna, PW	/S and Luke Johnson		Sectio	on, Tow	nship, Ran	ge:	Section	n 29, T	ownship 11 S,	Range	11 S	
Landform (hillslope,	terrace, e	tc.): terrrace		Local re	lief (co	ncave, con	vex, n	ione): r	none		Slope	(%):	3
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	.570218			Lon	g: -124	.05605	3	Datum	: NAD83	3
Soil Map Unit Name	: 42E - N	lelscott loam, 12 to 50) percent slop	pes				NWI	classif	ication: None			
Are climatic / hydrole	ogic condi	tions on the site typic	al for this time	e of year?	Yes	No	Х	(If no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significant	ly disturbed?	•	Are "Norn	nal Ci	rcumst	ances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally p	oroblematic?		(If needed	d, exp	lain an	y answ	ers in Remarks	s.)	_	

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

	Wetland Hydrology Present? Yes No X within a Wetland? Yes No X	Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	х	No No	Х	Is the Sampled Area			
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Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Pinus contorta	45	1	FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Alnus rubra	15	1	FAC	(')
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	60	1	FACU	That Are OBL, FACW, or FAC: 60.00 (A/B)
2. Cytisus scoparius	10		NL	
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5.				OBL species x 1=
	70	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 70 x 3= 210
1. Pteridium aquilinum	15	1	FACU	FACU species 75 x 4= 300
2.				UPL species 10 x 5= 50
3.				Column Totals: 155 (A) 560 (B)
4.				
5.				Prevalence Index = $B/A = \frac{3.61}{2}$
6.				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8.				X 2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	15	= Total Cover		5-Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	10	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	10	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 100				Vegetation Yes x No
				Present?
Remarks:				

US Army Corps of Engineers

Sampling Point: SP18

Profile Description: (Describe to the dept	h needed to document the indicator or confirm the	ne absence of indicators.)				
Depth Matrix	Redox Features					
(inches) Color (moist) %	1 2	- Texture Remarks				
0-16 10 YR 3/3	Color (moist) % Type' Loc ²	Silt loam				
0-10 10 TK 3/3		Silt Iballi				
		· ·				
		· ·				
		· ·				
		· ·				
		· ·				
		· ·				
¹ Type: C=Concentration, D=Depletion, RM=	=Reduced Matrix, CS=Covered or Coated Sand Gra	ins. ² Location: PL=Pore Lining, M=Matr				
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :				
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)				
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)				
		Very Shallow Dark Surface (TF12)				
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)					
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)				
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and				
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,				
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.				
Restrictive Layer (if present):						
Type:						
Depth (inches):	Hvdric So	il Present? Yes No X				
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
	d; check all that apply)	Secondary Indicators (2 or more required)				
Wetland Hydrology Indicators:	d; check all that apply) Water-Stained Leaves (B9) (except MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required						
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) 3) Geomorphic Position (D2)				
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Water Table Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): >16 Wetl	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes Saturation Present? Yes Discribe Recorded Data (stream gauge, model)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): >16 Wetl	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): >16 Wetl	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)				

Project/Site: Newport Municipal Airport				City/Coun	City/County: City of Newport			Sampling Date	e: 28-M	ay-2019
Applicant/Owner:	City of New	wport				State:	OR	Sampling Poir	nt: S	SP19
Investigator(s): Jeff	Barna, PW	S and Luke Johnson	l	Section,	Township, Rang	e: Sectio	on 29, T	ownship 11 S, R	Range 11 S	
Landform (hillslope,	terrace, et	c.): terrace		Local relief	(concave, conv	ex, none):	none	S	Slope (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.5	567205		Long: -12	4.05758	8 C	Datum: NAD	83
Soil Map Unit Name	: 42C - N	elscott loam, 3 to 12	percent slopes	s		NW	I classi	ication: None		
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time	of year? Ye	es No	X (If n	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	/ disturbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	oblematic?	(If needed	, explain a	ny answ	ers in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x
Remarks:				•			

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Pinus contorta	10	1	FAC	That Are OBL, FACW, or FAC: 4	(A)
2 Alnus rubra	10	1	FAC		()
3. Picea sitchensis	15	1	FAC	Total Number of Dominant	
4.				Species Across All Strata: 7	(B)
	35	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	25	1	FACU	That Are OBL, FACW, or FAC: 57.14	A/B)
2. Cytisus scoparius	10		NL		
3. Vaccinium parvifolium	30	1	FACU	Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	
	65	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 45 x 3=135	
1. Pteridium aquilinum	15	1	FACU	FACU species 70 x 4= 280	
2. Holcus lanatus	10	1	FAC	UPL species 10 x 5= 50	
3.				Column Totals: 125 (A) 465 ((B)
4.					
5				Prevalence Index = $B/A = 3.72$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				X 2- Dominance Test is >50%	
9				3. Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide supp	orting
11				data in Remarks or on a separate sheet)	
	25	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Expl	ain)
1				¹ Indicators of hydric soil and wetland hydrology	must
2				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes No	(
				Present?	
Remarks:				-	

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Sampling Point: SP19

Profile Description: (Describe to the dept	h needed to document the indicator or confirm the	e absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 YR 3/3		Silt loam
		Sittibali
¹ Type: C=Concentration, D=Depletion, RM:	=Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Historol (A1)	Sandy Roday (SE)	2 om Muck (A10)
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Soil	Present? Yes No X
Remarks:		
itemarks.		
HYDROLOGY		
Watland Understandingtons		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require		Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3	Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
		Raised Ant Mounds (D6) (LRR A)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raiseu Ant Mounus (Do) (LRR A)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6)) Other (Explain in Remarks)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B) Other (Explain in Remarks)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations:)Other (Explain in Remarks) 38)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes)Other (Explain in Remarks) 38) NoX Depth (Inches):NA	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes)Other (Explain in Remarks) 38) No XDepth (Inches):NA No XDepth (Inches):16	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes)Other (Explain in Remarks) 38) No XDepth (Inches):NA No XDepth (Inches):16	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe))Other (Explain in Remarks) 38) NoX Depth (Inches):NA NoX Depth (Inches):>16 NoX Depth (Inches):>16 Wetla	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe))Other (Explain in Remarks) 38) No XDepth (Inches):NA No XDepth (Inches):16	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo)Other (Explain in Remarks) 38) NoX Depth (Inches):NA NoX Depth (Inches):>16 NoX Depth (Inches):>16 Wetla	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe))Other (Explain in Remarks) 38) NoX Depth (Inches):NA NoX Depth (Inches):>16 NoX Depth (Inches):>16 Wetla	Frost-Heave Hummocks (D7)

Project/Site: Newpo	Project/Site: Newport Municipal Airport			City/Co	City/County: City of Newport			Sampling Da	te: 28	28-May-2019		
Applicant/Owner:	City of New	wport			-		State:	OR	Sampling Po	int:	SP20	
Investigator(s): Jeff	Barna, PW	S and Luke Johnson		Section	n, Tow	nship, Rang	ge: Sect	on 29, T	ownship 11 S,	Range 11	IS	
Landform (hillslope,	terrace, et	c.): hillslope		Local rel	ief (cor	ncave, conv	ex, none)	convex		Slope (%): 4	
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.	.56491			Long: -1:	24.05496	6	Datum: N	IAD83	
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50	0 percent slop	bes			N\	VI classi	fication: Near	R4SBC		
Are climatic / hydrole	ogic condit	ions on the site typic	al for this time	e of year?	Yes	No	X (If r	io, expla	in in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantl	y disturbed?		Are "Norm	al Circum	stances"	present' Yes	X N	lo	
Are Vegetation	Soil	or Hydrology	naturally p	roblematic?		(If needed	, explain a	iny answ	ers in Remarks	s.)		_

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

Hydrophytic Vegetation Present?	Yes	Х	No					
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area				
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No	
Remarks:								

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	5	opeoles	FACU	That Are OBL, FACW, or FAC: 3	(A)
2. Picea sitchensis	60	1	FAC		(//)
3.		<u> </u>		Total Number of Dominant	
4.				Species Across All Strata: 4	(B)
	65	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	10	1	FACU	That Are OBL, FACW, or FAC: 75.00	(A/B)
2.					
3				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species 20 x 1= 20	
	10	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 90 x 3= 270	
1. Blechnum spicant	30	1	FAC	FACU species <u>15</u> x 4= <u>60</u>	
2. Lysichiton americanus	20	1	OBL	UPL species x 5=	
3				Column Totals: 125 (A) 350	(B)
4					
5				Prevalence Index = $B/A = 2.80$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				X 2- Dominance Test is >50%	
9				X 3. Prevalence Index is $\leq 3.0^1$	
10				4- Morphological Adaptations ¹ (Provide sup	porting
11				data in Remarks or on a separate sheet)	
	50	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Exp	
1				¹ Indicators of hydric soil and wetland hydrology	y must
2				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X No	
				Present?	
Remarks:				-	

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Sampling Point:

SP20

Frome Description. (Describe to the	depth needed to document	the indicator	or conf	firm the	e absence of indi	cators.)
Depth Matrix	Redo	x Features				
(inches) Color (moist)	% Color (moist)	% 1	Гуре ¹	Loc ²	Texture	Remarks
0-4 10 YR 3/3	80		<u>, , , , , , , , , , , , , , , , , , , </u>		Silt loam	
0-4 Gravel	20					
4-16 10 YR 4/2	90 10 YR 6/2	10	С	М	Silt loam	
¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, CS=Co	overed or Coat	ted San	d Grain	s. ² Loca	ation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to						Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)					Material (TF2)
Black Histic (A3)	Loamy Mucky Minera	(F1) (except	MLRA	1)	Very Shallov	v Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix			.,		in in Remarks)
Depleted Below Dark Surface (A11		·· -/				
Thick Dark Surface (A12)	Redox Dark Surface ((F6)			³ Indicators of hyd	drophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surfac	,			-	rology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (I	. ,			-	rbed or problematic.
		0)				bed of problematic.
Restrictive Layer (if present):						
Type: Depth (inches):			Llude	ia Sail	Present? Yes	s X No
			пуш	10 3011	Flesent? Tes	
Remarks:						
HYDROLOGY						
HYDROLOGY Wetland Hydrology Indicators:						
	quired; check all that apply)				Secondary II	ndicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one rec	1 1 1	aves (B9) (exc	cept ML	RA		· · · · ·
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1)	Water-Stained Lea		cept ML	_ .RA	Water-St	ndicators (2 or more required) ained Leaves (B9) (MLRA 1, 2, n d 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one rec	1 1 1		cept ML	- RA	Water-Sta 4A, ar	ained Leaves (B9) (MLRA 1, 2,
X Surface Water (A1) X High Water Table (A2)	Water-Stained Lea 1, 2, 4A, and 4E	i)	cept ML	RA	Water-Sta 4A, ar Drainage	ained Leaves (B9) (MLRA 1, 2, nd 4B)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)) ites (B13)	cept ML	RA	Water-Sta 4A, ar Drainage Dry-Seas	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra) ites (B13) Odor (C1)			Water-St 4A, ar Drainage Dry-Seas Saturatio	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide) ites (B13) Odor (C1) heres along Liv			Water-Sta 4A, ar Drainage Dry-Seas Saturation	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph	tes (B13) Odor (C1) heres along Liv ced Iron (C4)	ving Roo	ots (C3)	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse	tes (B13) Odor (C1) neres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roo Soils (Cl	ots (C3) 6)	Water-Sti 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) whic Position (D2) Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F	tes (B13) Odor (C1) neres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roo Soils (Cl	ots (C3) 6)	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) whic Position (D2) Aquitard (D3) tral Test (D5)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F	tes (B13) Odor (C1) neres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roo Soils (Cl	ots (C3) 6)	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F	tes (B13) Odor (C1) neres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roo Soils (Cl	ots (C3) 6)	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F	tes (B13) Odor (C1) neres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks)	ving Roo Soils (Cl	ots (C3) 6)	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface Field Observations: Surface Soil Cracks (B6)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F ce (B8)	tes (B13) Odor (C1) neres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) hes): 2	ving Roo Soils (Cl	ots (C3) 6)	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfate Field Observations: Surface Water Present? Yes X Water Table Present? Yes Saturation Present? Yes X	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F ce (B8) No Depth (Inc	tes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ad Plants (D1) Remarks) hes):2 hes):	ving Roo Soils (Cl	ots (C3) 6) A)	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A) ave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfate Field Observations: Surface Water Present? Yes X Water Table Present? Yes	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F ce (B8) No Depth (Inc No Depth (Inc	tes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ad Plants (D1) Remarks) hes):2 hes):	ving Roo Soils (Cl	ots (C3) 6) A)	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A Frost-Hea	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A) ave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfate Field Observations: Surface Water Present? Yes X Water Table Present? Yes Saturation Present? Yes X	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F ce (B8) No Depth (Inc No Depth (Inc No Depth (Inc	tes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) hes): hes): hes):	ving Roo Soils (Cl (LRR A	ots (C3) 6) N) Wetla	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A Frost-Hea	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A) ave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfact Field Observations: Surface Water Present? Yes X Water Table Present? Yes X Gincludes capillary fringe) Describe Recorded Data (stream gauge	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F ce (B8) No Depth (Inc No Depth (Inc No Depth (Inc	tes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) hes): hes): hes):	ving Roo Soils (Cl (LRR A	ots (C3) 6) N) Wetla	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A Frost-Hea	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A) ave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one red X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfations: Surface Water Present? Yes X Water Table Present? Yes X Saturation Present? Yes X (includes capillary fringe) Yeingel X	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse y(B7) Other (Explain in F ce (B8) No Depth (Inc No Depth (Inc No Depth (Inc	tes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) hes): hes): hes):	ving Roo Soils (Cl (LRR A	ots (C3) 6) N) Wetla	Water-Sta 4A, ar Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A Frost-Hea	ained Leaves (B9) (MLRA 1, 2, nd 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LRR A) ave Hummocks (D7)

Project/Site: Newpo	Project/Site: Newport Municipal Airport			City/Co	City/County: City of Newport			Sampling Dat	e: 28-1	May-2019	
Applicant/Owner:	City of New	wport			-		State:	OR	Sampling Poi	nt:	SP21
Investigator(s): Jeff	Barna, PW	S and Luke Johnson	l	Sectio	n, Tow	nship, Rang	e: Secti	on 29, T	ownship 11 S, F	Range 11 S	6
Landform (hillslope,	terrace, et	c.): terrace		Local rel	lief (co	ncave, conv	ex, none):	none		Slope (%):	4
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 4	44.564933			Long: -12	4.05503	5 E	Datum: NA	D83
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50	0 percent s	lopes			NV	/I classi	fication: Near F	R4SBC	
Are climatic / hydrole	ogic condit	ions on the site typic	al for this ti	me of year?	Yes	No	X (lfn	o, expla	in in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	ntly disturbed?	-	Are "Norm	al Circum	stances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	v problematic?		(If needed	, explain a	ny answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarks:							

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	60	1	FACU	That Are OBL, FACW, or FAC:	1 (A)
2. Picea sitchensis	5		FAC		
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	65	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	40	1	FACU	That Are OBL, FACW, or FAC:	25.00 (A/B)
2					
3.				Prevalence Index worksheet:	
4				Total % Cover of:	Multiply by:
5				OBL species x 1=	=
	40	= Total Cover		FACW species x 2=	=
Herb Stratum (Plot size: 5' R)				FAC species 10 x 3=	= 30
1. Polystichum munitum	10	1	FACU	FACU species 110 x 4=	= 440
2. Blechnum spicant	5	1	FAC	UPL species x 5=	=
3				Column Totals: 120 (A)	470 (B)
4.					
5.				Prevalence Index = B/A =	<u>3.92</u>
6				Hydrophytic Vegetation Indicate	ors:
7				1- Rapid Test For Hydrophytic	Vegetation
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹	(Provide supporting
11.				data in Remarks or on a se	parate sheet)
	15	= Total Cover		5- Wetland Non-Vascular Plan	its ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Ve	egetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetle	and hydrology must
2.				be present, unless disturbed or p	roblematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes	No X
				Present?	
Remarks:				1	

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Sampling Point:

SP21

Profile Description: (Describe to the depth	needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix	Redox Features	
		and a second sec
(inches) Color (moist) %	Color (moist) % Type ¹ Lo	oc ² Texture Remarks
0-16 10 YR 3/3		Silt loam
		2
	Reduced Matrix, CS=Covered or Coated Sand G	
Hydric Soil Indicators: (Applicable to all LF	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
		unless disturbed of problematic.
Postrictive Lover (if present):		
Restrictive Layer (if present):		
Type:		
Depth (inches):	Hydric	Soil Present? Yes No X
Remarks:		
rionano.		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
	<u> </u>	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B	3)	
Field Observations:		
	o X Depth (Inches): NA	
Saturation Present? Yes N	o <u>X</u> Depth (Inches): >16 W	/etland Hydrology Present? Yes No_X
(includes capillary fringe)		
(includes capillary fringe)	itoring well, aerial photos, previous inspections)), if available
(includes capillary fringe)	itoring well, aerial photos, previous inspections)), if available
(includes capillary fringe)	itoring well, aerial photos, previous inspections)), if available
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous inspections)), if available

Project/Site: Newpo	Project/Site: Newport Municipal Airport		City/County:	City/County: City of Newport			Sampling Date	e: 28-Ma	y-2019	
Applicant/Owner:	City of Newp	ort				State:	OR	Sampling Poin	t: SF	22
Investigator(s): Jeff	Barna, PWS	and Luke Johnson		Section, To	wnship, Range	: Sectio	n 29, T	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, etc.)	: hillslope		Local relief (c	oncave, conve	x, none):	convex	S	lope (%):	4
Subregion (LRR):	A2 - Willam	ette Valley	Lat: 44.	564982		_ong: -124	1.05444	8 D	atum: NAD8	3
Soil Map Unit Name	: 42E - Nels	scott loam, 12 to 50	percent slope:	S		NWI classification: Near R4SBC				
Are climatic / hydrol	ogic conditior	ns on the site typical	for this time of	of year? Yes	NoX	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	/ disturbed?	Are "Norma	l Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pr	oblematic?	(If needed,	explain an	iy answ	ers in Remarks.))	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X X	No No No	Is the Sampled Area within a Wetland?	Yes	x	No
Remarks:				-			

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute	Dominant On a size of	Indicator	Dominance Test worksheet:				
	% Cover	Species?	Status	Number of Dominant Species				
1				That Are OBL, FACW, or FAC:	2 (A)			
2				Total Number of Deminent				
3				Total Number of Dominant Species Across All Strata:	2 (B)			
4				Species Across Air Strata.	(B)			
Sapling/Shrub Stratum (Plot size: 30' R)		= Total Cover		Percent of Dominant Species				
· · · · · · · · · · · · · · · · · · ·				That Are OBL, FACW, or FAC:	100.00 (A/B)			
1 2.				That Ale OBE, I AOW, OF I AC.	(A/B)			
3.				Prevalence Index worksheet:				
4.				Total % Cover of:	Multiply by:			
4 5.					(1= 20			
5		= Total Cover		· · ·	< 2= <u>20</u>			
Herb Stratum (Plot size: 5' R)				· · · · · · · · · · · · · · · · · · ·	(3= 30			
1. Blechnum spicant	10	1	FAC		< 4=			
2. Lysichiton americanus	20	1	OBL	· · · · · · · · · · · · · · · · · · ·	< 5=			
3.				Column Totals: 30 (A)	50 (B)			
4					(D)			
5				Prevalence Index = B/A =	1.67			
6.				Hydrophytic Vegetation Indic	ators:			
7				1- Rapid Test For Hydrophy	tic Vegetation			
8.				X 2. Dominance Test is >50%				
9.				X 3. Prevalence Index is $\leq 3.0^1$				
10.				4- Morphological Adaptation	ns ¹ (Provide supporting			
11.				data in Remarks or on a				
	30	= Total Cover		5- Wetland Non-Vascular P				
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic	Vegetation ¹ (Explain)			
1				¹ Indicators of hydric soil and w	etland hydrology must			
2.				be present, unless disturbed o				
		= Total Cover		Hydrophytic	_ ·			
% Bare Ground in Herb Stratum					(No			
				Present?				
Remarks:				1				

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SOIL										Sampling Point:	SP22
Profile Des	scription: (Desci	ribe to the	e depth n	eeded to d	locument the	e indicato	r or conf	irm the	absence of ind	dicators.)	
Depth	pth Matrix Redox Features									·	
(inches)	Color (mois		%	Color (%	Type ¹	Loc ²	Texture	Remar	ks
0-4	10 YR 3/3	·/	80			70	.)po		Silt loam		
0-4	Gravel		20								
4-16	10 YR 4/2		90	10 YF	R 6/2	10	С	М	Silt loam		
								_			
1											
	Concentration, D						ated Sand	d Grains		cation: PL=Pore Lin	
Hydric Soil	I Indicators: (App	plicable to	o all LRR	s, unless (otherwise no	oted.)			Indicators fo	or Problematic Hyd	ric Soils ³ :
Histos	ol (A1)			Sandy Re	edox (S5)				2 cm Muo	ck (A10)	
Histic	Epipedon (A2)			Stripped I	Matrix (S6)				Red Pare	nt Material (TF2)	
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1)										llow Dark Surface (1	F12)
										plain in Remarks)	
Deplet	ed Below Dark Su	Irface (A1	1) X	Depleted	Matrix (F3)						
Thick I	Dark Surface (A12	³ Indicators of	hydrophytic vegetat	ion and							
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)										ydrology must be pr	esent,
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unles										sturbed or problema	tic.
	Layer (if present	t):									
Type: Dopth	(inches):			_			Llvd	Iria Sail	Present?	Yes X No	
Deptil	(incres).			_			nyo		Tresent:		
Remarks:											
HYDROL	OGY										
Wetland Hy	ydrology Indicato	vre.									
-	dicators (minimum		auired: c	heck all the	at annly)				Secondar	y Indicators (2 or m	ore required)
	e Water (A1)		quirea, o		-Stained Lea	voc (BQ) (axcont M	_ D A		-Stained Leaves (BS	
	Vater Table (A2)				4A, and 4B)		except w	LNA		, and 4B)) (IVIERA 1, 2,
X Satura					rust (B11)					ige Patterns (B10)	
	Marks (B1)				c Invertebrat	es (B13)				eason Water Table (C2)
	ent Deposits (B2)				gen Sulfide C					tion Visible on Aeria	,
	eposits (B3)				ed Rhizosphe		Living Ro	oots (C3		orphic Position (D2)	
Algal N	Mat or Crust (B4)			Prese	nce of Reduc	ed Iron (C	4)		Shallo	w Aquitard (D3)	
Iron De	eposits (B5)			Recen	t Iron Reduct	tion in Tille	ed Soils (O	C6)	FAC-N	leutral Test (D5)	
	e Soil Cracks (B6)				d or Stresse	-	01) (LRR	A)		d Ant Mounds (D6) (
	ation Visible on Ae	-	• • •	Other	(Explain in R	emarks)			Frost-l	Heave Hummocks (27)
Sparse	ely Vegetated Con	cave Surf	ace (B8)								
Field Obs	ervations:										
Surface W	ater Present?	Yes X	No	o	Depth (Inch	ies): 2					
Water Tab	ble Present?	Yes X	No	o	Depth (Inch	ies):	_				
Saturation		Yes X	No	o	Depth (Inch	ies):		Wetla	nd Hydrology	Present? Yes	X No
•	capillary fringe)										
Describe F	Recorded Data (st	ream gaug	ge, monit	oring well, a	aerial photos,	, previous	inspectio	ns), if av	vailable:		
Remarks:											

Project/Site: Newport Municipal Airport	C	City/County:	City of Newp	ort		Sampling D	ate:	28-May	-2019
Applicant/Owner: City of Newport				State:	OR	Sampling P	oint:	SP2	23
Investigator(s): Jeff Barna, PWS and Luke Johnson	1	Section, Tov	vnship, Range	e: Sectio	n 29, To	wnship 11 S	, Range	11 S	
Landform (hillslope, terrace, etc.): hillslope	Lc	ocal relief (co	oncave, conve	ex, none): I	none		Slope (%):	6
Subregion (LRR): A2 - Willamette Valley Lat:	44.56498	39		Long: -124	.05452	3	Datum:	NAD83	
Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent	slopes			NW	classif	ication: Near	R4SBC		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes	No >	(If no	, explai	n in Remarks	.)		
Are Vegetation Soil or Hydrology signific	cantly distu	urbed?	Are "Norma	I Circumst	ances"	present' Yes	Х	No	
Are Vegetation Soil or Hydrology natura	ally problem	natic?	(If needed,	explain an	y answe	ers in Remark	(s.)		
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	n noint loc	ations	trane	octe impo	rtant f	oature	os otc
-	-	Sampini	g point lot	ations,		ecto, impo		cature	-3, etc.
Hydrophytic Vegetation Present? Yes No	<u>X</u>								
Hydric Soil Present? Yes No	Х		Sampled Area						
Wetland Hydrology Present? Yes <u>No</u>	Х	within	a Wetland?	Yes		No	Х	i.	
Remarks: open mossy forest floor with duff and litter									
Recorded precipitation in previous months was	bolownon	mal rango							
		narrange							
VEGETATION – Use scientific names of plant									
		Dominant Species?	0			vorksheet:			
		·	'			nt Species		-	(•)
1. Tsuga heterophylla	60	1		hat Are O	3L, FAC	CW, or FAC:		2	(A)
2. Picea sitchensis	5		FAC	otal Numb	or of D	minant			
3								2	(P)
4			`	Species Ac	IUSS AII	Silala.		6	(B)
Sapling/Shrub Stratum (Plot size: 30' R)	<u>65</u> = T	otal Cover		Porcont of	Jomino	nt Species			
1. Gaultheria shallon	10	1				•	22	22	
		1	- 700	nat Are O	SL, FAC	CW, or FAC:	33	.33	(A/B)

4.				Species Across All Strata:	6 (B)			
	65	= Total Cover						
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	i			
1. Gaultheria shallon	10	1	FACU	That Are OBL, FACW, or FAC	C: <u>33.33</u> (A/B)			
2. Rubus spectabilis	5	1	FAC					
3. Sambucus racemosa	10	1	FACU	Prevalence Index workshe	eet:			
4				Total % Cover of:	Multiply by:			
5				OBL species	x 1=			
	25	= Total Cover		FACW species	x 2=			
Herb Stratum (Plot size: 5' R)		-		FAC species 30	x 3= 90			
1. Polystichum munitum	35	1	FACU	FACU species	x 4=			
2. Blechnum spicant	20	1	FAC	UPL species	x 5=			
3. Pteridium aquilinum	10		FACU	Column Totals: 30 (A	A) 90 (B)			
4. Athyrium cyclosorum	5		FAC					
5				Prevalence Index = B/A	= <u>3.00</u>			
6				Hydrophytic Vegetation Indicators:				
7.				1- Rapid Test For Hydrophytic Vegetation				
8.				2- Dominance Test is >50%				
9.				X 3. Prevalence Index is $\leq 3.0^1$				
10.				4- Morphological Adapta	tions ¹ (Provide supporting			
11.				data in Remarks or on	n a separate sheet)			
	70	= Total Cover		5- Wetland Non-Vascula				
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophy	rtic Vegetation ¹ (Explain)			
1				¹ Indicators of hydric soil and	d wetland hydrology must			
2.				be present, unless disturbe	d or problematic.			
		= Total Cover		Hydrophytic				
% Bare Ground in Herb Stratum		-		Vegetation Yes	No X			
				Present?				
Remarks: open mossy forest floor with duff and litte	ər			1				

US Army Corps of Engineers

Sampling Point:

SP23

Depth Matrix	Redox Features	
Color (moist) % 0-16 10 YR 3/3	Color (moist) % Type ¹	Loc ² Texture Remarks Silt loam
<u> </u>		· ·
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sa	nd Grains. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Other (Explain in Remarks)
Thick Dark Surface (A11)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.	
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hyd	Iric Soil Present? Yes No X
HYDROLOGY		
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one require		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one require 	Water-Stained Leaves (B9) (except M	LRA Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B)	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11)	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11)	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (0	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 bots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR) Other (Explain in Remarks)	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR) Other (Explain in Remarks)	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 bots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present?	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (0 Stunted or Stressed Plants (D1) (LRR) Other (Explain in Remarks) 38) No X Depth (Inches): NA	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 bots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rd Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (0 Stunted or Stressed Plants (D1) (LRR) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 bots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (0 Stunted or Stressed Plants (D1) (LRR) Other (Explain in Remarks) 38) No X Depth (Inches): NA	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 bots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rd Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (0 Stunted or Stressed Plants (D1) (LRR) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) bots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Gincludes capillary fringe) Describe Recorded Data (stream gauge, model)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) bots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	LRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) bots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

	N DATA FO	RM – Wes	tern Mou	ntains, Valleys, and Coast Region
Project/Site: Newport Municipal Airport		City/County	: City of Ne	wport Sampling Date: 28-May-2019
Applicant/Owner: City of Newport				State: OR Sampling Point: SP24
Investigator(s): Jeff Barna, PWS and Luke Johnson		Section, To	wnship, Rai	nge: Section 29, Township 11 S, Range 11 S
_andform (hillslope, terrace, etc.): hillslope		Local relief (c	concave, cor	nvex, none): none Slope (%): 6
Subregion (LRR): A2 - Willamette Valley	Lat: 44.56	· ·		Long: -124.054331 Datum: NAD83
Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 p				NWI classification: Near R4SBC
Are climatic / hydrologic conditions on the site typical			No	X (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	significantly d			mal Circumstances" present' Yes X No
Are Vegetation Soil or Hydrology				ed, explain any answers in Remarks.)
				ocations, transects, important features, e
Hydrophytic Vegetation Present? Yes	No X	ig campin	.9 pent i	
Hydric Soil Present? Yes	No X	Is the	Sampled A	rea
Wetland Hydrology Present? Yes	No X	within	a Wetland	? Yes No X
Remarks: open mossy forest floor with duff and litt				
ternarks. Open mossy lorest hoor with duit and hit	lei			
Recorded precipitation in previous month	hs was below r	ormal range		
/EGETATION – Use scientific names of		5		
/EGETATION - Use scientific hames of	•			1
Tree Stretum (Diet eizer ool D)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1. Tsuga heterophylla	15	1	FACU	That Are OBL, FACW, or FAC: 1 (A)
2. Picea sitchensis	55	1	FAC	
3				Total Number of Dominant
4			·	Species Across All Strata: 6 (B)
	70	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	15	1	FACU	That Are OBL, FACW, or FAC: 16.67 (A/B)
2. Vaccinium parvifolium	20	1	FACU	
3. Sambucus racemosa	10	1	FACU	Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	45	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 55 x 3= 165
1. Polystichum munitum	25	1	FACU	FACU species 95 x 4= 380
2. Pteridium aquilinum	10		FACU	UPL species x 5=
3. Athyrium cyclosorum	5		FAC	Column Totals: 150 (A) 545 (B)
4.	_			
5.				Prevalence Index = $B/A = \frac{3.63}{2}$
6.	_			Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8.				2. Dominance Test is >50%
9.				3. Prevalence Index is $\leq 3.0^{1}$

40 = Total Cover

= Total Cover

US Army Corps of Engineers

Remarks:

% Bare Ground in Herb Stratum

Woody Vine Stratum

(Plot size: 30' R)

open mossy forest floor with duff and litter

10.

11.

1. 2.

Western Mountains, Valleys, and Coast - Version 2.0

4- Morphological Adaptations¹ (Provide supporting

data in Remarks or on a separate sheet)

6- Problematic Hydrophytic Vegetation¹(Explain) ¹ Indicators of hydric soil and wetland hydrology must

Yes

No X

5-Wetland Non-Vascular Plants¹

Hydrophytic Vegetation

Present?

be present, unless disturbed or problematic.

Sampling Point:

SP24

Profile Description: (Describe to the dep	th needed to document the indicator or con	firm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %		Loc ² Texture Remarks
0-16 10 YR 3/3	Color (moist) % Type ¹	Silt loam
10 11(3/3		Sir Idam
· · ·		
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sar	nd Grains. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	, <u> </u>
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hyd	ric Soil Present? Yes No X
Remarks:		
Remarks.		
HYDROLOGY		
Wetland Hydrology Indicators:		
	d: check all that apply)	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one require		Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MI	
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Ro	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR	
Inundation Visible on Aerial Imagery(B7		Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (I	38)	
Field Observations:		
Surface Water Present? Yes	No X Depth (Inches): NA	
Water Table Present? Yes	No X Depth (Inches): >16	
		Wetland Hydrology Present? Yes No X
Saturation Present? Yes	No X Depth (Inches): >16	
Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): >10	
(includes capillary fringe)	No <u>A</u> Depth (Inches): <u>> 10</u> ponitoring well, aerial photos, previous inspection	
(includes capillary fringe)		
(includes capillary fringe)		
(includes capillary fringe) Describe Recorded Data (stream gauge, m		

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/Co	ounty:	City of New	port			Sampling Date: 28-M			019	
Applicant/Owner:	City of Ne	wport		-		St	ate:	OR	Sampling Poi	g Point: SP2				
Investigator(s): Jeff Barna, PWS and Luke Johnson					n, Tow	nship, Rang	ge: S	Section	n 29, Township 11 S, Range 11 S					
Landform (hillslope, terrace, etc.): hillslope					lief (co	ncave, conv	vex, no	one): <u>c</u>	convex	Slope (%): 4				
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	.565085			Long	j: -124	.05424	9	Datum: <u>N</u>	IAD83		
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50) percent slo	pes				NWI	classif	ication: Near I	R4SBC			
Are climatic / hydrole	ogic condit	tions on the site typic	al for this tim	e of year?	Yes	No	Х	(If no,	explai	n in Remarks.)				
Are Vegetation	Soil	or Hydrology	significant	ly disturbed?	•	Are "Norm	nal Ciro	cumsta	ances"	present' Yes	XN	lo		
Are Vegetation	Soil	or Hydrology	naturally p	oroblematic?		(If needed	l, expla	ain ang	answ	ers in Remarks	5.)			

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

Hydrophytic Vegetation Present?	Yes	Х	No					
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area				
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No	
Remarks:								

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Blat size) ool D	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species				
1				That Are OBL, FACW, or FAC: 3 (A)				
2								
3				Total Number of Dominant				
4				Species Across All Strata: <u>3</u> (B)				
		= Total Cover						
Sapling/Shrub Stratum (Plot size: <u>30' R)</u>	40		540	Percent of Dominant Species				
1. Rubus spectabilis	10	1	FAC	That Are OBL, FACW, or FAC: 100.00 (A/B)				
2				Prevalence Index worksheet:				
4				Total % Cover of: Multiply by:				
5				OBL species 30 x 1= 30				
	10	= Total Cover		FACW species 20 x 2= 40				
Herb Stratum (Plot size: 5' R)				FAC species x 3=				
1. Blechnum spicant	10	1	FAC	FACU species x 4=				
2. Lysichiton americanus	30	1	OBL	UPL species x 5=				
3				Column Totals: <u>50</u> (A) <u>70</u> (B)				
4								
5				Prevalence Index = $B/A = 1.40$				
6				Hydrophytic Vegetation Indicators:				
7				1-Rapid Test For Hydrophytic Vegetation				
8				X 2- Dominance Test is >50%				
9.				X 3- Prevalence Index is $\leq 3.0^1$				
10.				4- Morphological Adaptations ¹ (Provide supporting				
11.				data in Remarks or on a separate sheet)				
	40	= Total Cover		5-Wetland Non-Vascular Plants ¹				
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)				
1				¹ Indicators of hydric soil and wetland hydrology must				
2.				be present, unless disturbed or problematic.				
		= Total Cover						
% Bare Ground in Herb Stratum				Hydrophytic Vegetation Yes X No				
% Bare Ground in Herb Stratum				Vegetation Yes <u>X</u> No Present?				
Demoder				r 163611.:				
Remarks:								

US Army Corps of Engineers

SOIL	
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Profile De	scription: (Describe to	the depth	needed to document	t the indicat	or or cor	firm the	e absence of in	dicators.)	
Depth	Matrix	•		ox Features				,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	10 YR 3/3	80					Silt loam		
0-4	Gravel	20							
4-16	10 YR 4/2	90	10 YR 6/2	10	С	М	Silt loam		
	Concentration, D=Deple	tion PM-F	aduced Matrix CS-C	overed or C	ated Sa	d Grain	2 o	cation: PL=Pore Lining, M=Matr	
	Indicators: (Applicab				Jaleu Jai			Problematic Hydric Soils ³ :	
-				,,				-	
	ol (A1)		Sandy Redox (S5)				2 cm Muck		
	Epipedon (A2)		Stripped Matrix (S6)				it Material (TF2)		
	Histic (A3)		Loamy Mucky Minera		pt MLRA	. 1)		ow Dark Surface (TF12)	
	gen Sulfide (A4)		Loamy Gleyed Matrix Depleted Matrix (F3)				Other (Exp	olain in Remarks)	
	ed Below Dark Surface (Dark Surface (A12)	ATT) <u>^</u>	Redox Dark Surface				andicators of h	ydrophytic vegetation and	
	Mucky Mineral (S1)		Depleted Dark Surface					drology must be present,	
	Gleyed Matrix (S4)		-	turbed or problematic.					
Oandy	Cleyed Matrix (C+)		Redox Depressions	(10)				arbed of problematic.	
Restrictive	Layer (if present):								
Type:			-						
Depth	(inches):		-		Hyd	ric Soil	Present? Y	′es <u>X</u> No	
Remarks:									
HYDROL	OGY								
Wetland H	drology Indicators:								
	dicators (minimum of on	e required:	check all that apply)				Secondary	Indicators (2 or more required)	
	e Water (A1)		Water-Stained Le	aves (B9) (e	xcent M	RA	Water-Stained Leaves (B9) (MLRA 1, 2,		
	Vater Table (A2)		1, 2, 4A, and 4	. , .	xoopt in			and 4B)	
X Satura	· · ·		Salt Crust (B11)	-,				ge Patterns (B10)	
	Marks (B1)		Aquatic Invertebr	ates (B13)				ason Water Table (C2)	
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturat	ion Visible on Aerial Imagery (C9)	
	eposits (B3)		Oxidized Rhizosp	heres along	Living Ro	oots (C3	·	rphic Position (D2)	
	Mat or Crust (B4)		Presence of Redu		·			v Aquitard (D3)	
	eposits (B5)		Recent Iron Redu		•	,		eutral Test (D5)	
	e Soil Cracks (B6)		Stunted or Stress		1) (LRR .	A)		Ant Mounds (D6) (LRR A)	
	ation Visible on Aerial Im		Other (Explain in	Remarks)			FIOSI-H	leave Hummocks (D7)	
			,						
	ervations:	v ••	Denth ()	ahaa):					
		X No X No		·					
Saturation						Wetla	nd Hydrology P	Present? Yes X No	
	capillary fringe)								
•	Recorded Data (stream g	jauge, mon	itoring well, aerial pho	tos, previous	inspection	ons), if a	available		
<u> </u>									
Remarks:									

Project/Site: Newport Municipal Airport	City/County: City of Newpo	ort	Sampling Date:	28-May-2019
Applicant/Owner: City of Newport		State: OR	Sampling Point:	SP26
Investigator(s): Jeff Barna, PWS and Luke Johnson	Section, Township, Range	: Section 29, T	ge 11 S	
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conve	x, none): none	Slop	e (%): 8
Subregion (LRR): A2 - Willamette Valley Lat: 4	4.565258 I	_ong: -124.05407	74 Datu	ım: NAD83
Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent s	opes	NWI classi	fication: Near R4SI	BC
Are climatic / hydrologic conditions on the site typical for this ti	ne of year? Yes No X	(If no, expla	in in Remarks.)	
Are Vegetation Soil or Hydrology significa	ntly disturbed? Are "Normal	Circumstances"	'present' Yes X	No
Are Vegetation Soil or Hydrology naturally	problematic? (If needed, e	explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point loc	ations, trans	ects, importan	t features, etc.
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes No 2	Is the Sampled Area			
Wetland Hydrology Present? Yes No	within a Wetland?	Yes	<u>No X</u>	
Remarks: open mossy forest floor with duff and litter				
Recorded precipitation in previous months was be	low normal range			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	20	1	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Picea sitchensis	40	1	FAC	
3.				Total Number of Dominant
4.				Species Across All Strata: 8 (B)
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	15	1	FACU	That Are OBL, FACW, or FAC: 25.00 (A/B)
2. Vaccinium parvifolium	20	1	FACU	
3. Menziesia ferruginea	10	1	FACU	Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	45	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 55 x 3= 165
1. Polystichum munitum	10	1	FACU	FACU species 85 x 4= 340
2. Blechnum spicant	10	1	FAC	UPL species x 5=
3. Pteridium aquilinum	10	1	FACU	Column Totals: 140 (A) 505 (B)
4. Athyrium cyclosorum	5		FAC	
5				Prevalence Index = $B/A = 3.61$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	35	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks: open mossy forest floor with duff and lit	ter			

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Sampling Point: SP26

Profile Description: (Describe to the depth			
	needed to document the indicator or co	onfirm the abse	ence of indicators.)
Depth Matrix	Redox Features		
		1 <u> </u>	
(inches) Color (moist) %	Color (moist) % Type ¹		exture Remarks
0-16 10 YR 3/3		Silt	oam
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated S	and Grains.	² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all LF	Rs, unless otherwise noted.)	Indi	cators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLR	RA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	Depleted Matrix (F3)		
Depleted Below Dark Surface (A11)			
Thick Dark Surface (A12)	Redox Dark Surface (F6)		cators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbed or problematic.
<u> </u>			
Restrictive Layer (if present):			
Type:			
Depth (inches):	- In	ydric Soil Prese	ent? Yes No X
	- '''	yune oon mes	
Remarks:			
HYDROLOGY			
HYDROLOGY			
HYDROLOGY Wetland Hydrology Indicators:			
	check all that apply)		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required			· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except I		Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	MLRA -	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	MLRA -	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	MLRA -	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F	MLRA Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	MLRA 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF	MLRA 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks)	MLRA 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks)	MLRA 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks)	MLRA 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (Bater)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks)	MLRA 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (Batter Present? Yes	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): NA	MLRA 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (Bill Field Observations: Surface Water Present? Yes Water Table Present? Yes	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): NA o X Depth (Inches): >16	MLRA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (Batter Present? Yes N Water Table Present? Yes Naturation Present? Yes	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 0 x Depth (Inches): NA o X Depth (Inches): >16	MLRA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B3) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Naturation Present? Yes Naturation Present? Yes	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): >16 o X Depth (Inches): >16	MLRA Roots (C3) (C6) R A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (Based Concave Surface Surface (Based Concave Surface Surface (Based Concave Surface Surface (Based Concave Surface (Based Concave Surface (Based Concave Surface Surface (Based Concave Surface (Based Concave Surface Su	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): >16 o X Depth (Inches): >16	MLRA Roots (C3) (C6) R A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B4) Field Observations: Surface Water Present? Yes Water Table Present? Yes Vater Table Present? Yes Naturation Present? Yes Saturation Present? Yes Naturation Present? Yes Discribe Recorded Data (stream gauge, monostic)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): >16 o X Depth (Inches): >16	MLRA Roots (C3) (C6) R A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B3) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Naturation Present? Yes Naturation Present? Yes	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): >16 o X Depth (Inches): >16	MLRA Roots (C3) (C6) R A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B4) Field Observations: Surface Water Present? Yes Water Table Present? Yes Vater Table Present? Yes Naturation Present? Yes Saturation Present? Yes Naturation Present? Yes Discribe Recorded Data (stream gauge, monostic)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): >16 o X Depth (Inches): >16	MLRA Roots (C3) (C6) R A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpo	rt Municipa	al Airport		City/Co	City/County: City of Newport			Sampling Dat	e: 28-N	<i>l</i> lay-2019	
Applicant/Owner:	City of Ne	wport					State:	OR	Sampling Poi	nt:	SP27
Investigator(s): Jeff	Sectio	Section, Township, Range: Section 29, Township 11 S, Range 11 S									
Landform (hillslope,	Local re	lief (co	ncave, conv	ex, none):	convex		Slope (%): 4				
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	.565251			Long: -12	4.05399	14 E	Datum: NAI	D83
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50) percent slo	pes			NW	I classi	fication: Near F	R4SBC	
Are climatic / hydrole	ogic condit	tions on the site typic	al for this tim	e of year?	Yes	No	X (lf no	o, explai	in in Remarks.)		
Are Vegetation	Soil	or Hydrology	significant	ly disturbed?	_	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally p	problematic?		(If needed	, explain ai	ny answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No					
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area				
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No	
Remarks:								

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1.	76 COver	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)			
2.				$\frac{111}{3}$			
3.				Total Number of Dominant			
4.				Species Across All Strata: 4 (B)			
··		= Total Cover					
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species			
1. Rubus spectabilis	10	1	FAC	That Are OBL, FACW, or FAC:(A/B)			
2							
3				Prevalence Index worksheet:			
4				Total % Cover of: Multiply by:			
5				OBL species 20 x 1= 20			
	10	= Total Cover		FACW species x 2=			
Herb Stratum (Plot size: 5' R)				FAC species 20 x 3= 60			
1. Blechnum spicant	10	1	FAC	FACU species 10 x 4= 40			
2. Lysichiton americanus	20	1	OBL	UPL species x 5=			
3. Pteridium aquilinum	10	1	FACU	Column Totals: 50 (A) 120 (B)			
4.							
5.				Prevalence Index = $B/A = 2.40$			
6.				Hydrophytic Vegetation Indicators:			
7				1- Rapid Test For Hydrophytic Vegetation			
8				X 2- Dominance Test is >50%			
9.				X 3. Prevalence Index is $\leq 3.0^1$			
10.				4- Morphological Adaptations ¹ (Provide supporting	g		
11.				data in Remarks or on a separate sheet)	-		
	40	= Total Cover		5- Wetland Non-Vascular Plants ¹			
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)			
1				¹ Indicators of hydric soil and wetland hydrology mus	t		
2.				be present, unless disturbed or problematic.			
		= Total Cover		Hydrophytic			
% Bare Ground in Herb Stratum				Vegetation Yes X No			
				Present?			
Remarks:				•	_		

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SOIL								Sampling Point: SP27		
Profile Des	scription: (Describe to	the depth	needed to document	the indicat	or or cor	firm the	e absence of ind	dicators.)		
Depth	Matrix	•		x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4	10 YR 3/3	80		70	туре	LUC	Silt loam	Remarks		
0-4	Gravel	20								
4-16	10 YR 4/2	90	10 YR 6/2	10	С	М	Silt loam			
¹ Type: C=	Concentration, D=Deple	tion, RM=R	educed Matrix, CS=Co	overed or C	oated Sar	nd Grain	is. ² Lo	cation: PL=Pore Lining, M=Matr		
Hydric Soil	Indicators: (Applicabl	le to all LRI	Rs, unless otherwise	noted.)			Indicators for	Problematic Hydric Soils ³ :		
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muck	(A10)		
	Epipedon (A2)		Stripped Matrix (S6)					t Material (TF2)		
	Histic (A3)		Loamy Mucky Minera	l (F1) (exce	nt MI RA	1)		ow Dark Surface (TF12)		
	gen Sulfide (A4)		Loamy Gleyed Matrix		pr menta	,		lain in Remarks)		
	ed Below Dark Surface ((A11) X	Depleted Matrix (F3)	(12)						
·	Dark Surface (A12)	<u></u>	Redox Dark Surface ('F6)			3Indicators of h	ydrophytic vegetation and		
	Mucky Mineral (S1)		Depleted Dark Surfac	. ,				drology must be present,		
	Gleyed Matrix (S4)		Redox Depressions (I	F8)				urbed or problematic.		
				- /						
Restrictive	Layer (if present):									
Туре:			_							
Depth	(inches):		•		Hyd	ric Soil	Present? Y	es <u>X</u> No		
Remarks:										
HYDROL	CON									
IIIDROL	561									
Wetland Hy	drology Indicators:									
Primary In	dicators (minimum of on	e required;	check all that apply)			_	Secondary	Indicators (2 or more required)		
X Surfac	e Water (A1)		Water-Stained Lea	aves (B9) (e	except M	LRA	Water-Stained Leaves (B9) (MLRA 1, 2,			
X High V	Vater Table (A2)		1, 2, 4A, and 4B	5)			4A, and 4B)			
X Satura			Salt Crust (B11)				Drainage Patterns (B10)			
	Marks (B1)		Aquatic Invertebra	. ,				ason Water Table (C2)		
	ent Deposits (B2)		Hydrogen Sulfide					ion Visible on Aerial Imagery (C9)		
	eposits (B3)		Oxidized Rhizosph	0	•	oots (C3	·	rphic Position (D2)		
~	/lat or Crust (B4) eposits (B5)		Presence of Redu Recent Iron Redu		,)		/ Aquitard (D3) eutral Test (D5)		
	e Soil Cracks (B6)		Stunted or Stresse			,		Ant Mounds (D6) (LRR A)		
	tion Visible on Aerial Im	agery(B7)	Other (Explain in F			n)		eave Hummocks (D7)		
	ely Vegetated Concave S	0,00		(onnanito)						
	· ·	. ,								
	ervations:	V No	Danth (Inc							
		X No X No	· · ·							
Saturation		X No				Wetla	nd Hydrology P	resent? Yes X No		
	capillary fringe)									
	Recorded Data (stream g	jauge, moni	toring well, aerial photo	os, previous	s inspection	ons), if a	available			
			3 <i>j i i i j i i i</i>			,, -				
Remarks:										

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/County:	City of Newpo	rt		Sampling Date:	28-Ma	y-2019
Applicant/Owner:	City of Nev	vport				State:	OR	Sampling Point:	SP	28
Investigator(s): Jeff	Barna, PW	S and Luke Johnson		Section, Tov	wnship, Range:	Sectio	n 29, To	ownship 11 S, Rai	nge 11 S	
Landform (hillslope,	terrace, etc	c.): hillslope		Local relief (co	oncave, conve	k, none):	none	Slo	pe (%):	5
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.	.565582	L	.ong: <u>-12</u> 4	4.05369	6 Dat	um: NAD8	3
Soil Map Unit Name	: 42E - Ne	elscott loam, 12 to 50	percent slope	'S		NW	l classif	ication: Near R45	SBC	
Are climatic / hydrol	ogic conditi	ons on the site typical	for this time of	of year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantl	ly disturbed?	Are "Normal	Circumst	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally p	oroblematic?	(If needed, e	explain an	ny answe	ers in Remarks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	X X X	Is the Sampled Area within a Wetland? Yes	No	X
Remarks: open mossy forest floor wi	th duff and lif	tter		•		

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species	_	<i>(</i> ,)
1. Tsuga heterophylla	20	1	FACU	That Are OBL, FACW, or FAC:	2	(A)
2. Picea sitchensis	40	1	FAC			
3				Total Number of Dominant	_	(5)
4				Species Across All Strata:	7	(B)
	60	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species		
1. Gaultheria shallon	15	1	FACU	That Are OBL, FACW, or FAC:	28.57	(A/B)
2. Vaccinium parvifolium	20	1	FACU			
3. Menziesia ferruginea	10		FACU	Prevalence Index worksheet		
4. Rubus spectabilis	10		FAC	Total % Cover of:	Multiply by:	-
5				OBL species	x 1=	_
	55	= Total Cover		FACW species	x 2=	-
Herb Stratum (Plot size: 5' R)				FAC species 60	x 3= 180	_
1. Polystichum munitum	10	1	FACU	FACU species 85	x 4= 340	_
2. Blechnum spicant	10	1	FAC	UPL species	x 5=	_
3. Pteridium aquilinum	10	1	FACU	Column Totals: 145 (A)	520	(B)
4. Athyrium cyclosorum	5		FAC			
5				Prevalence Index = B/A =	<u>3.59</u>	
6				Hydrophytic Vegetation Indi	cators:	
7				1-Rapid Test For Hydroph	ytic Vegetation	
8.				2- Dominance Test is >50%	%	
0				3- Prevalence Index is ≤3.0	0 ¹	
9 10				4-Morphological Adaptatio	ons ¹ (Provide sur	porting
11.				data in Remarks or on a		
	35	= Total Cover		5- Wetland Non-Vascular F		
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic		olain)
				¹ Indicators of hydric soil and v	• • •	
1 2.				be present, unless disturbed		ymusi
2					or problematic.	
		= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum				Vegetation Yes	No	X
				Present?		
Remarks: open mossy forest floor with duff and litter						

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Depth Matrix	needed to document the indicator or confirm the a Redox Features	absence of indicators.)
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 YR 3/3		Silt loam
	educed Matrix, CS=Covered or Coated Sand Grains.	² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators: (Applicable to all LR		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7)	wetland hydrology must be present,
	_ Redox Depressions (F8)	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;	aback all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Saturation (A3) Water Marks (B1)		
Water Marks (B1) Sediment Deposits (B2)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations:	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): >16 No X Depth (Inches): >16	Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newport Municipal Airport			City/Cour	nty: City of Newp	ort		Sampling Date	e: 28-Ma	iy-2019	
Applicant/Owner:	City of Nev	wport				State:	OR	Sampling Poin	t: SF	P29
Investigator(s): Jeff	Barna, PW	S and Luke Johnson		Section,	Township, Range	e: Sectio	n 29, T	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relie	f (concave, conve	ex, none):	none	S	lope (%):	7
Subregion (LRR):	A2 - Willa	mette Valley	Lat:	44.565601		Long: -124	4.05359	9 D	atum: NAD8	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50) percent s	lopes		NW	l classif	ication: Near Re	4SBC	
Are climatic / hydrole	ogic condit	ions on the site typic	al for this t	ime of year? Y	′es No >	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?	Are "Norma	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	y problematic?	(If needed,	explain ar	iy answ	ers in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes	Х	No					
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area				
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No	
Remarks:								

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Alnus rubra	35	1	FAC	That Are OBL, FACW, or FAC: 3 (A)
2.				(')
3.			·	Total Number of Dominant
4.				Species Across All Strata: 3 (B)
	35	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	10	1	FAC	That Are OBL, FACW, or FAC: 100.00 (A/B)
2.				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species 40 x 1= 40
	10	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 55 x 3= 165
1. Blechnum spicant	10		FAC	FACU species 10 x 4= 40
2. Lysichiton americanus	40	1	OBL	UPL species x 5=
3. Pteridium aquilinum	10		FACU	Column Totals: <u>105</u> (A) <u>245</u> (B)
4				
5				Prevalence Index = $B/A = 2.33$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				X 3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	60	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

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SOIL	
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Profile De	scription: (Describe to	the depth	needed to document	the indicat	or or cor	nfirm the	e absence of in	dicators.)		
Depth	Matrix		Redo	ox Features						
(inches)	Color (moist)	0/	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
<u>, , , , , , , , , , , , , , , , , , , </u>	. ,	<u>%</u>	Color (moist)	70	туре	LOC		Remarks		
0-4	10 YR 3/3	80					Silt loam			
0-4	Gravel	20								
4-16	10 YR 4/2	90	10 YR 6/2	10	C	M	Silt loam			
1							2.			
'Type: C=	Concentration, D=Deple	etion, RM=F	Reduced Matrix, CS=C	overed or C	oated Sa	nd Grain	is. ² Lo	cation: PL=Pore Lining, M=Matr		
Hydric Soi	Indicators: (Applicab	le to all LR	Rs, unless otherwise	noted.)			Indicators for	Problematic Hydric Soils ³ :		
Histop	ol (A1)		Sandy Doday (SE)				2 om Muel	((110)		
			Sandy Redox (S5)				2 cm Mucł			
Histic	Epipedon (A2)		Stripped Matrix (S6)					t Material (TF2)		
Black	Histic (A3)		Loamy Mucky Minera	al (F1) (exce	ept MLRA	. 1)	Very Shall	ow Dark Surface (TF12)		
Hydro	gen Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Other (Exp	olain in Remarks)		
	ed Below Dark Surface	(A11) X	Depleted Matrix (F3)							
	Dark Surface (A12)		Redox Dark Surface	(F6)			3Indicators of h	hydrophytic vegetation and		
	Mucky Mineral (S1)		-	()						
	•		Depleted Dark Surface (F7) wetland hydrology must be present,							
Sandy	Gleyed Matrix (S4)		Redox Depressions (F8)			unless dist	turbed or problematic.		
Postrictivo	Layer (if present):									
	Layer (in present).									
Type:	(he - he) -		-				D			
Depth	(inches):		-		пус	FIC 5011	Present? Y	′es <u>X</u> No		
Remarks:										
rtomanto.										
HYDROL	OGY									
	vdrology Indicators:									
Primary In	dicators (minimum of on	e required;	check all that apply)			_	Secondary	Indicators (2 or more required)		
X Surfac	e Water (A1)		Water-Stained Le	aves (B9) (except M	LRA	Water-	Stained Leaves (B9) (MLRA 1, 2,		
X High V	Vater Table (A2)		1, 2, 4A, and 4E	3)			4A,	and 4B)		
X Satura			Salt Crust (B11)	,			Drainad	ge Patterns (B10)		
	Marks (B1)		Aquatic Invertebra	ates (B13)				ason Water Table (C2)		
	ent Deposits (B2)		Hydrogen Sulfide					ion Visible on Aerial Imagery (C9)		
	• • • •				Listin or De	ata (00)				
	eposits (B3)		Oxidized Rhizosp	-	-			rphic Position (D2)		
	Mat or Crust (B4)		Presence of Redu		,			Aquitard (D3)		
	eposits (B5)		Recent Iron Redu		`	,		eutral Test (D5)		
	e Soil Cracks (B6)		Stunted or Stress		D1) (LRR	A)		Ant Mounds (D6) (LRR A)		
Inunda	ation Visible on Aerial Im	agery(B7)	Other (Explain in	Remarks)			Frost-H	leave Hummocks (D7)		
Sparse	ely Vegetated Concave S	Surface (B8)							
Field Obs	ervations:									
		X No	Depth (Inc	ches): 2	,					
				·						
	-	X No		·						
Saturation	-	X No	Depth (Inc	mes):		vvetla	nd Hydrology F	Present? Yes X No		
	capillary fringe)					、 ·				
Describe F	Recorded Data (stream g	gauge, mon	itoring well, aerial phot	os, previou	s inspecti	ons), if a	available			
Dam. I										
Remarks:										

Project/Site: Newpo	rt Municipal A	Airport		City/C	ounty:	City of New	port		Sampling Date	e: 28-Ma	ay-2019	
Applicant/Owner:	City of Newp	ort					State:	OR	Sampling Poin	nt: S	P30	
Investigator(s): Jeff	Barna, PWS	and Luke Johnson		Section	on, Tow	nship, Rang	ge: Section	on 29, T	ownship 11 S, R	ange 11 S		
Landform (hillslope,	terrace, etc.)	terrace		Local re	elief (co	ncave, con	/ex, none):	convex	S	lope (%):	2	
Subregion (LRR):	A2 - Willame	ette Valley	Lat: 44	4.566951			Long: -12	4.05981	8 D	atum: NAD	33	
Soil Map Unit Name	: 42C - Nels	scott loam, 3 to 12 p	percent slope:	S			NW	I classif	ication: None			
Are climatic / hydrole	ogic conditior	ns on the site typica	I for this time	of year?	Yes	No	X (If n	o, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significant	tly disturbed	?	Are "Norm	nal Circums	tances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally p	problematic?		(If needed	l, explain a	ny answ	ers in Remarks.))		

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

Hydrophytic Vegetation Present?	Yes	No	Х			
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area		
Netland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No

Remarks:

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:	
	% Cover	Species?	Status	Number of Dominant Species	()
1. Pinus contorta	20	1	FAC	That Are OBL, FACW, or FAC:	1 (A)
2. Alnus rubra 3.	5		FAC	Total Number of Dominant	
				Species Across All Strata:	2 (P)
4				Species Across All Strata.	3 (B)
Sapling/Shrub Stratum (Plot size: 30' R)	25	= Total Cover		Percent of Dominant Species	
1 Gaultheria shallon	30	1	FACU	That Are OBL, FACW, or FAC:	33.33 (A/B)
2. Rubus spectabilis	10		FAC		(//D)
3. Alnus rubra	10		FAC	Prevalence Index worksheet:	
4. Cytisus scoparius	20	1	NL	Total % Cover of:	Multiply by:
5.				OBL species x	1=
	70	= Total Cover			2=
Herb Stratum (Plot size: 5' R)				FAC species 55 x	3= 165
1				FACU species 30 x	4= 120
2.				UPL species 20 x	5= 100
3.				Column Totals: 105 (A)	385 (B)
4					
5				Prevalence Index = B/A =	<u>3.67</u>
6				Hydrophytic Vegetation Indica	itors:
7				1-Rapid Test For Hydrophyt	ic Vegetation
8				2- Dominance Test is >50%	
9				3- Prevalence Index is $\leq 3.0^1$	
10				4- Morphological Adaptations	s ¹ (Provide supporting
11. Dandelion and crab grass 20 each				data in Remarks or on a s	. ,
		= Total Cover		5-Wetland Non-Vascular Pla	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic \	
1. Rubus armeniacus	10		FAC	¹ Indicators of hydric soil and we	tland hydrology must
2				be present, unless disturbed or	problematic.
	10	= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes	No X
				Present?	
Remarks:					

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Profile Description: (Describe to the depth Depth Matrix	needed to document the indicator or confirm the Redox Features	absence of indicators.)
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	- Texture Remarks
0-16 10 YR 3/4		Silt loam
<u> </u>		
	Reduced Matrix, CS=Covered or Coated Sand Grain	0.
Hydric Soil Indicators: (Applicable to all LR	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric So	il 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)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C	
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8		
<u> </u>	,	
Field Observations:	No. Y Dopth (Inches): NA	
Surface Water Present? Yes	No X Depth (Inches): NA	
Water Table Present? Vec	No X Depth (Inches): >16	
	No X Depth (Inches): >16 No X Depth (Inches): >16 Wet	and Hydrology Present? Yes No Y
Saturation Present? Yes		land Hydrology Present? Yes No_ X
Saturation Present? Yes (includes capillary fringe)		
Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): >16 Weth	
Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): >16 Weth	

Project/Site: Newpor	rt Municip	al Airport		City/County:	City of Newpo	rt		Sampling Dat	e: 28-Ma	y-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poi	nt: SF	P31
Investigator(s): Jeff I	Barna, PV	VS and Luke Johnsor	า	Section, Tov	vnship, Range:	Section	29, Town	ship 11 S, Ra	nge 11 S	
Landform (hillslope,	terrace, e	tc.): terrace		Local relief (co	oncave, convex	, none):	none	9	Slope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.568	8979	L	.ong: <u>-124</u> .	.060151	[Datum: NAD8	3
Soil Map Unit Name	: 42C - N	Nelscott loam, 3 to 12	percent slopes			NWI	classificat	ion: None		
Are climatic / hydrolo	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(lf no,	explain in	Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumsta	ances" pre	sent? Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain any	answers	in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x
Remarks:							

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test workshe Number of Dominant Spec	
1. Pinus contorta	20	1	FAC	That Are OBL, FACW, or F	
2. Alnus rubra	5		FAC		(1)
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	25	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Speci	es
1. Gaultheria shallon	30	1	FACU	That Are OBL, FACW, or F	AC: 50.00 (A/B)
2. Rubus spectabilis	10		FAC		
3. Alnus rubra	10	1	FAC	Prevalence Index works	heet:
4. Cytisus scoparius	20	1	NL	Total % Cover of:	Multiply by:
5				OBL species	x 1=
	70	= Total Cover		FACW species	x 2=
Herb Stratum (Plot size: 5' R)				FAC species 45	x 3= 135
1				FACU species 30	x 4= <u>120</u>
2.				UPL species 20	x 5= 100
3.				Column Totals: 95	(A) <u>355</u> (B)
4.					
5				Prevalence Index = B/	/A = <u>3.74</u>
6				Hydrophytic Vegetation	Indicators:
7				1- Rapid Test For Hyd	rophytic Vegetation
8				2- Dominance Test is	>50%
9				3- Prevalence Index is	≤3.0 ¹
10.				4- Morphological Adap	tations ¹ (Provide supporting
11. Dandelion and crab grass 20 each				data in Remarks or	on a separate sheet)
		= Total Cover		5- Wetland Non-Vascu	
Woody Vine Stratum (Plot size: 30' R)					hytic Vegetation ¹ (Explain)
1. Rubus armeniacus	10		FAC	¹ Indicators of hydric soil a	and wetland hydrology must
2				be present, unless distur	ped or problematic.
	10	= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes	No X
				Present?	
Remarks:					

US Army Corps of Engineers

Sampling Point:

SP31

Profile Description: (Describe to the depth		or confirm the	e absence of indicato	 prs.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % 1	ype ¹ Loc ²	Texture	Remarks
0-16 10 YR 3/4			Silt loam	
			·	
¹ Type: C=Concentration, D=Depletion, RM=I		ed Sand Grain		h: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LF	Rs, unless otherwise noted.)		Indicators for Prob	lematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A	10)
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent M	()
Black Histic (A3)	Loamy Mucky Mineral (F1) (except	MLRA 1)		Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)		Other (Explain	n in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Redox Dark Surface (F6)		³ Indicators of hydrop	bytic vocatation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)			logy must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		-	ed or problematic.
	,			
Restrictive Layer (if present):				
Type: Depth (inches):	_	Hydric Soil	Present? Yes	No X
			Fresent: Tes	
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:			O	
Primary Indicators (minimum of one required				dicators (2 or more required)
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B)		4A, and	ned Leaves (B9) (MLRA 1, 2,
Saturation (A3)	Salt Crust (B11)		•	Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)			n Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		Saturation	Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Liv	ring Roots (C3)	· · · ·	ic Position (D2)
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4)			quitard (D3)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled S Stunted or Stressed Plants (D1)	()		al Test (D5) t Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	()		ve Hummocks (D7)
Sparsely Vegetated Concave Surface (B8	3)			
Field Observations:				
Surface Water Present? Yes N	o X Depth (Inches): NA			
Water Table Present? Yes N		_		
	o X Depth (Inches): >16	Wetla	nd Hydrology Preser	nt? Yes <u>No X</u>
(includes capillary fringe)	sitoring wall parial photos, province in	(nontiona) if a	wailable:	
Describe Recorded Data (stream gauge, mor	intoring well, aerial photos, previous in	spections), if a		
Remarks:				

Project/Site: Newpo	rt Municip	al Airport		City/County	: City of Newpo	ort		Sampling Date	: 28-Ma	y-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poin	t: SF	32
Investigator(s): Jeff	Barna, PV	VS and Luke Johnson		Section, To	wnship, Range	: Sectio	n 29, T	ownship 11 S, Ra	ange 11 S	
Landform (hillslope,	terrace, e	tc.): terrace		Local relief (c	concave, conve	x, none):	none	SI	lope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	4.5932943534		_ong: -124	4.05621	4897 Da	atum: NAD8	3
Soil Map Unit Name	: 42C - N	Nelscott loam, 3 to 12	percent slop	bes		NW	l classif	ication: None		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this tim	ne of year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significan	tly disturbed?	Are "Norma	l Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	problematic?	(If needed,	explain ar	iy answ	ers in Remarks.)		

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

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

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	85	1	FACU	That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	85	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Sambucus racemosa	40	1	FACU	That Are OBL, FACW, or FAC: 25.00 (A/B)
2.				
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	40	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Polystichum munitum	40	1	FACU	FACU species x 4=
2. Athyrium cyclosorum	20	1	FAC	UPL species x 5=
3				Column Totals: (A) (B)
4				
5.				Prevalence Index = $B/A = \underline{0}$
6.				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	60	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				
				-

US Army Corps of Engineers

Sampling Point:

SP32

Depth		o the depth	needed to document		or or cor	firm the	e absence of ir	ndicators.)
Deptin	Matrix		Rede	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10 YR 2/2	100					Sandy loam	quite a bit of sand
8-14	10 YR 2/2	100					loam	
14-16	10 YR 4/2	90	10 YR 3/6	5			sandy loam	
		—						
<u> </u>								
¹ Type: C=C	Concentration, D=Depl	etion, RM=R	educed Matrix, CS=C	overed or Co	ated Sa	nd Grain	s. ² L	ocation: PL=Pore Lining, M=Matr
Hydric Soil I	Indicators: (Applicat	ole to all LR	Rs, unless otherwise	e noted.)			Indicators fo	r Problematic Hydric Soils ³ :
Histosol	l (A1)		Sandy Redox (S5)				2 cm Muc	k (A10)
Histic E	pipedon (A2)		Stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black H	istic (A3)		Loamy Mucky Minera	al (F1) (exce	ot MLRA	1)	Very Shal	low Dark Surface (TF12)
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix	k (F2)			Other (Ex	plain in Remarks)
	d Below Dark Surface	(A11)	Depleted Matrix (F3)					
Thick Da	ark Surface (A12)		Redox Dark Surface	(F6)			³ Indicators of	hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		Depleted Dark Surfa	ce (F7)			wetland h	ydrology must be present,
Sandy C	Gleyed Matrix (S4)	_	Redox Depressions	(F8)			unless dis	sturbed or problematic.
Restrictive L	Layer (if present):							
Type:								
Depth (i	inches):				Hyd	ric Soil	Present?	Yes No X
			•					
Remarks:								
HYDROLO	GY							
Wetland Hyd								
	drology Indicators:							
Primary Indi	drology Indicators: icators (minimum of or	ne required;	check all that apply)				Secondar	y Indicators (2 or more required)
	icators (minimum of o	ne required;	11.27	aves (B9) (e	xcept M	_ LRA		y Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 ,
Surface	icators (minimum of or Water (A1)	ne required;	Water-Stained Le		xcept M	_ LRA	Water	Stained Leaves (B9) (MLRA 1, 2,
Surface	icators (minimum of or Water (A1) ater Table (A2)	ne required;	Water-Stained Le		xcept M	_ LRA	Water- 4A	Stained Leaves (B9) (MLRA 1, 2, , and 4B)
Surface High Wa	icators (minimum of or Water (A1) ater Table (A2)	ne required; (Water-Stained Le	В)	xcept M	_ LRA	Water 4A Draina	Stained Leaves (B9) (MLRA 1, 2,
Surface High Wa Saturati	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1)	ne required;	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr	B) ates (B13)	xcept M	_ LRA	Water 4A Draina Dry-Se	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) eason Water Table (C2)
Surface High Wa Saturati Water M Sedimen	icators (minimum of or Water (A1) ater Table (A2) on (A3)	ne required;	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	B) ates (B13) Odor (C1)			Water 4A Draina Dry-Se Satura	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10)
Surface High Wa Saturati Water M Sedimen Drift Dep	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2)	ne required; (Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	B) ates (B13) Odor (C1) heres along	_iving Ro		Water 4A Draina Dry-Se Satura	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9)
Surface High Wa Saturati Water M Sedimen Drift Dep Algal Ma	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	ne required; (Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp	B) ates (B13) Odor (C1) heres along uced Iron (C4	_iving Ro	oots (C3)	Water- 4A Draina Dry-Se Satura) Geom Shallo	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Surface High Wa Saturati Water M Sedimer Drift Dej Algal Ma	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	ne required; (Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tilled	_iving Ro) d Soils (C	oots (C3)	Water- 4A Draina Dry-Se Satura (Shallo FAC-N	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
Surface High Wa Saturati Water M Sedimel Drift Dep Algal Ma Iron Dep Surface	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial In	nagery(B7)	Water-Stained Lee 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along b uced Iron (C4 action in Tilled ad Plants (D	_iving Ro) d Soils (C	oots (C3)	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2 , , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Surface High Wa Saturati Water M Sedimel Drift Dep Algal Ma Iron Dep Surface	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	nagery(B7)	Water-Stained Lee 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along b uced Iron (C4 action in Tilled ad Plants (D	_iving Ro) d Soils (C	oots (C3)	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Surface High Wa Saturati Water M Sedimel Drift Dep Algal Ma Iron Dep Surface	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial In y Vegetated Concave	nagery(B7)	Water-Stained Lee 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along b uced Iron (C4 action in Tilled ad Plants (D	_iving Ro) d Soils (C	oots (C3)	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Surface High Wa Saturati Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsel	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial In y Vegetated Concave	nagery(B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along b uced Iron (C4 uction in Tilled and Plants (D Remarks)	Living Rc .) I Soils (C 1) (LRR)	oots (C3)	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Surface High Wa Saturati Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsel	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial In y Vegetated Concave rvations: tter Present? Yes	nagery(B7) Surface (B8)	Water-Stained Let 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Inc	B) ates (B13) Odor (C1) heres along b uced Iron (C4 uction in Tilled and Plants (D Remarks) ches): <u>NA</u>	Living Rc) J Soils (C 1) (LRR	oots (C3)	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Surface High Wa Saturati Water M Sedimer Drift De Algal Ma Iron Dep Surface Inundati Sparset Surface Wa	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial In y Vegetated Concave rvations: ater Present? Yes e Present? Yes	nagery(B7) Surface (B8)	Water-Stained Let Water-Stained Let 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Inc X Depth (Inc	B) ates (B13) Odor (C1) heres along b uced Iron (C4 uction in Tilled ad Plants (D Remarks) ches): NA ches): >10	Living Rc) J Soils (C 1) (LRR	oots (C3) (C6) (A)	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2 , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Surface High Wa Saturati Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obset Surface Wa Water Table Saturation F	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial In y Vegetated Concave rvations: ater Present? Yes e Present? Yes	nagery(B7) Surface (B8) No	Water-Stained Let 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Inc X Depth (I	B) ates (B13) Odor (C1) heres along b uced Iron (C4 uction in Tilled ad Plants (D Remarks) ches): NA ches): >10	Living Rc) J Soils (C 1) (LRR	oots (C3) (C6) (A)	Water- 4A Draina Dry-Se Satura () Geome Shallo FAC-N Raiseo Frost-F	Stained Leaves (B9) (MLRA 1, 2 , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Surface High Wa Saturati Water M Sedimen Drift Dej Algal Ma Iron Deg Surface Inundati Sparsel Field Obse Surface Wa Water Table Saturation F (includes ca	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial In y Vegetated Concave rvations: ater Present? Yes e Present? Yes Present? Yes	nagery(B7) Surface (B8) No No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Ind X Depth (Ind X Depth (Ind	B) ates (B13) Odor (C1) heres along b uced Iron (C4 uction in Tilled ed Plants (D Remarks) ches): NA ches): >16 ches): >16	Living Rc) d Soils (C 1) (LRR)	oots (C3) C6) A) Wetla	Water- 4A, Draina Dry-Se Satura Shallo FAC-N Raisec Frost-ł	Stained Leaves (B9) (MLRA 1, 2 , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Surface High Wa Saturati Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundati Sparsel Field Obset Surface Wa Water Table Saturation F (includes ca	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) • Soil Cracks (B6) ion Visible on Aerial In y Vegetated Concave rvations: ater Present? Yes e Present? Yes Present? Yes apillary fringe)	nagery(B7) Surface (B8) No No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Ind X Depth (Ind X Depth (Ind	B) ates (B13) Odor (C1) heres along b uced Iron (C4 uction in Tilled ed Plants (D Remarks) ches): NA ches): >16 ches): >16	Living Rc) d Soils (C 1) (LRR)	oots (C3) C6) A) Wetla	Water- 4A, Draina Dry-Se Satura Shallo FAC-N Raisec Frost-ł	Stained Leaves (B9) (MLRA 1, 2 , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Surface High Wa Saturati Water M Sedimen Drift Dej Algal Ma Iron Deg Surface Inundati Sparsel Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) • Soil Cracks (B6) ion Visible on Aerial In y Vegetated Concave rvations: ater Present? Yes Present? Yes Present? Yes present? Yes papillary fringe) ecorded Data (stream	nagery(B7) Surface (B8) No No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Ind X Depth (Ind X Depth (Ind	B) ates (B13) Odor (C1) heres along b uced Iron (C4 uction in Tilled ed Plants (D Remarks) ches): NA ches): >16 ches): >16	Living Rc) d Soils (C 1) (LRR)	oots (C3) C6) A) Wetla	Water- 4A Draina Dry-Se Satura Satura () Geom FAC-N Raised FAC-N Raised Frost-F	Stained Leaves (B9) (MLRA 1, 2 , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Project/Site: Newport Municipal Airport	City/County: City	of Newport	Sampling Date:	28-May-2019
Applicant/Owner: City of Newport		State: OR	Sampling Point:	SP33
Investigator(s): Jeff Barna, PWS and Luke Johnson	Section, Townshi	ip, Range: Section 29, T	ownship 11 S, Rang	je 11 S
Landform (hillslope, terrace, etc.): hillslope	Local relief (concav	ve, convex, none): none	Slope	e (%):1
Subregion (LRR): A2 - Willamette Valley Lat: 44.4	5933214363	Long: -124.05622	21006 Datu	m: NAD83
Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slope	s	NWI classi	fication: None	
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes	No X (If no, expla	in in Remarks.)	
Are Vegetation Soil or Hydrology significantly	y disturbed? Are	e "Normal Circumstances"	' present' Yes X	No
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If	needed, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map show	ving sampling po	oint locations, trans	ects, important	t features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Samp	oled Area		
Wetland Hydrology Present? Yes x No	within a We	etland? Yes X	KNo	_
Remarks:				
Recorded precipitation in previous months was below wetland hydrology is contained within hour-glass dis	Ũ			
VEGETATION – Use scientific names of plants.				
Absolut Tree Stratum (Plot size: 30' R) % Cove		atus Number of Domina		
		That Are OBL, FA	•	2 (A)
1			CW, 01 FAC.	3 (A)
2 3.		Total Number of D)ominant	
4.		Species Across Al		3 (B)
······································	= Total Cover			(2)
Sapling/Shrub Stratum (Plot size: 30' R)		Percent of Domina	ant Species	
1, rubus spectabilis 20	1 FA	AC That Are OBL, FA	•	00.00 (A/B)
2.				(,,,,)
3.		Prevalence Inde	x worksheet:	
4.		Total % Cove	r of: Mul	tiply by:
5.		OBL species	x 1=	
20	= Total Cover	FACW species	x 2=	
Herb Stratum (Plot size: 5' R)	_	FAC species	x 3=	
1. Blechnum spicant 5	F	AC FACU species	x 4=	
2. carex obnupta 30	1 OI	BL UPL species	x 5=	
3. Lysichiton americanus80	1 OI	BL Column Totals:	(A)	(B)
4 5		Prevalence Ir	ndex = B/A =	0
6.		Hydrophytic Veg	getation Indicators:	
7.			For Hydrophytic Ve	
8.		X 2-Dominance	e Test is >50%	
9.			e Index is ≤3.0 ¹	
10.		4- Morphologi	ical Adaptations ¹ (Pr	ovide supporting
11			marks or on a separa	ate sheet)
115	= Total Cover		on-Vascular Plants ¹	4
Woody Vine Stratum (Plot size: 30' R)			c Hydrophytic Veget	
1			dric soil and wetland	
2		be present, unle	ss disturbed or prob	lematic.
	= Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum		Vegetation Present?	Yes X	No
Remarks:				

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	cription: (Describe to Matrix	the depth		t the indicat ox Features	or or cor	nfirm the	e absence of in	dicators.)
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 4/2	90	10 YR 3/6	10	C	M	Silt loam	Remarks
4-16	10 YR 4/2	80	10 YR 3/6	20	С	М	Silt loam	
	Concentration D Danla	tion DM D	aduced Matrix CS C	overed or C	onted Ser	nd Croin	2	cation: PL=Pore Lining, M=Matr
	Concentration, D=Deple Indicators: (Applicabl				Jaleu Sa	nu Grain		Problematic Hydric Soils ³ :
Histoso	bl (A1)		Sandy Redox (S5)				2 cm Muck	(A10)
	Epipedon (A2)		Stripped Matrix (S6)					t Material (TF2)
Black H	Histic (A3)		Loamy Mucky Minera	al (F1) (exce	pt MLRA	(1)	Very Shall	ow Dark Surface (TF12)
X Hydrog	en Sulfide (A4)		Loamy Gleyed Matrix	x (F2)			Other (Exp	lain in Remarks)
Deplete	ed Below Dark Surface (A11) X	Depleted Matrix (F3)					
	Dark Surface (A12)		Redox Dark Surface	(F6)			³ Indicators of h	ydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa				wetland hy	drology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dist	urbed or problematic.
	Layer (if present):							
Type: Depth	(inches):				Hve	tric Soil	Present? Y	es X No
Doptil					nye			
Remarks:								
HYDROLO	DGY							
Wotland Hy	drology Indicators:							
	dicators (minimum of on-	e required:	heck all that apply)				Secondary	Indicators (2 or more required)
	e Water (A1)	e required, i	Water-Stained Le	aves (B9) (e	vcent M			Stained Leaves (B9) (MLRA 1, 2,
	ater Table (A2)		1, 2, 4A, and 4		Acept M			and 4B)
X Saturat			Salt Crust (B11)	_,				je Patterns (B10)
	Marks (B1)		Aquatic Invertebr	ates (B13)				ason Water Table (C2)
Sedime	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturat	ion Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp	-	-	oots (C3)		rphic Position (D2)
	lat or Crust (B4)		Presence of Red		,			Aquitard (D3)
	eposits (B5) e Soil Cracks (B6)		Recent Iron Redu Stunted or Stress		,	'		eutral Test (D5) Ant Mounds (D6) (LRR A)
	tion Visible on Aerial Ima	agery(B7)	Other (Explain in			~)		eave Hummocks (D7)
	ly Vegetated Concave S			,			_	
Field Obse	ervations:							
		X No		· · · · · · · · · · · · · · · · · · ·				
				· · · · · · · · · · · · · · · · · · ·				
Saturation	Present? Yes apillary fringe)	X No	Depth (In	cnes):	—	wetla	nd Hydrology P	Present? Yes <u>x</u> No
	ecorded Data (stream g	auge, moni	oring well, aerial pho	tos, previous	inspecti	ons), if a	available	
Remarks:	wetland hydrology is c	ontained wit	hin hour-glass disc sl	haped basin				

Project/Site: Newpor	rt Municip	al Airport		City/County	: City of New	vport			Sampling Da	ite:	28-May	-2019
Applicant/Owner:	City of Ne	ewport		-		S	state:	OR	Sampling Po	int:	SP	34
Investigator(s): Jeff I	Barna, PV	VS and Luke Johnsor	l	Section, To	ownship, Ran	ge:	Section	n 29, To	ownship 11 S,	Range	11 S	
Landform (hillslope,	terrace, e	etc.): terrace		Local relief (concave, con	vex, n	ione): r	none		Slope (%):	1
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.59	94154		Lon	g: -124	.05530	6	Datum:	NAD83	}
Soil Map Unit Name	: 42C - N	Nelscott loam, 3 to 12	percent slopes				NWI	classif	ication: None			
Are climatic / hydrolo	ogic condi	itions on the site typic	al for this time o	of year? Yes	s No	Х	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly of	disturbed?	Are "Norn	nal Ci	rcumst	ances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally prot	blematic?	(If needed	d, exp	lain an	y answ	ers in Remarks	s.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe wor	bolow porp	al range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of p	olants.				
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Tsuga heterophylla	10		FACU	That Are OBL, FACW, or FAC:	2 (A)
2. Picea sitchensis	40	1	FAC		
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	50	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	50	1	FACU	That Are OBL, FACW, or FAC:	50.00 (A/B)
2. Menziesia ferruginea	10		FACU		
3				Prevalence Index worksheet:	
4				Total % Cover of:	Multiply by:
5				OBL species x	1=
	60	= Total Cover		FACW species x	2=
Herb Stratum (Plot size: 5' R)				FAC species x	3=
1. Polystichum munitum	10	1	FACU	FACU species x	4=
2. Blechnum spicant	10	1	FAC	UPL species x	5=
3				Column Totals: (A)	(B)
4					
5				Prevalence Index = B/A =	<u>0</u>
6				Hydrophytic Vegetation Indica	ators:
7				1- Rapid Test For Hydrophy	tic Vegetation
8	_			2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	1
10				4- Morphological Adaptation	is ¹ (Provide supporting
11.				data in Remarks or on a s	separate sheet)
	20	= Total Cover		5- Wetland Non-Vascular Pl	ants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic	Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and w	etland hydrology must
2				be present, unless disturbed or	r problematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 30				Vegetation Yes	No X
				Present?	
Remarks:				1	

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Sampling Point:

SP34

Profile Description: (Describe to the dept		
	h needed to document the indicator or confirm t	he absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	- Texture Remarks
0-16 10 YR 3/3		Silt loam
¹ Type: C=Concentration, D=Depletion, RM:	=Reduced Matrix, CS=Covered or Coated Sand Gra	ins. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
	Loamy Gleved Matrix (F2)	
Hydrogen Sulfide (A4)	Depleted Matrix (F3)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)		
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric So	il Present? Yes No X
Remarks:		
Nonano.		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
	d; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	d; check all that apply) Water-Stained Leaves (B9) (except MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) 3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B7 Field Observations: Surface Water Present? Yes Water Table Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B7 Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B7 Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe) Ves	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): >16 Wet	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B7 Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe) Ves	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Water Table Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, model)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): >16 Wet	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe) Ves	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): >16 Wet	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpor	rt Municip	al Airport		City/County:	: City of Nev	vport			Sampling Dat	te: 28-1	May-2019	
Applicant/Owner:	City of No	ewport				S	State:	OR	Sampling Poi	nt:	SP35	
Investigator(s): Jeff I	Barna, PV	VS and Luke Johnsor	1	Section, To	wnship, Ran	ige:	Section	n 29, To	ownship 11 S, I	Range 11 S	6	
Landform (hillslope,	terrace, e	etc.): terrace		Local relief (c	concave, con	ivex, r	none): r	none	:	Slope (%):	1	
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.59	1993		Lon	ng: -124	.05764	8 I	Datum: NA	D83	
Soil Map Unit Name	: 42C - I	Nelscott loam, 3 to 12	percent slopes			-	NWI	classif	ication: None			
Are climatic / hydrolo	ogic cond	itions on the site typic	al for this time of	f year? Yes	No	Х	(lf no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Norr	nal Ci	rcumst	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If neede	d, exp	lain an	y answe	ers in Remarks	.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe woo	bolowno	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	85	1	FACU	That Are OBL, FACW, or FAC:	1 (A)
2				-	
3				Total Number of Dominant	
4				Species Across All Strata:	4 (B)
Sapling/Shrub Stratum (Plot size: 30' R)	85	= Total Cover		Percent of Dominant Species	
1. Sambucus racemosa	40	1	FACU	That Are OBL, FACW, or FAC:	25.00 (A/B)
2.	-+0		TAGO	That Are OBL, FACW, of FAC.	25.00 (A/B)
3.				Prevalence Index worksheet:	
4.				Total % Cover of:	Multiply by:
5.					=
	40	= Total Cover		FACW species x 2	
Herb Stratum (Plot size: 5' R)				FAC species x 3	=
1. Polystichum munitum	40	1	FACU		=
2. Athyrium cyclosorum	20	1	FAC		=
3				Column Totals: (A)	(B)
4					
5				Prevalence Index = B/A =	<u>0</u>
6				Hydrophytic Vegetation Indicat	ors:
7				1- Rapid Test For Hydrophytic	vegetation
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations	¹ (Provide supporting
11				data in Remarks or on a se	
	60	= Total Cover		5- Wetland Non-Vascular Plan	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Ve	• • • •
1				¹ Indicators of hydric soil and wet	
2				be present, unless disturbed or p	problematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes	<u>No X</u>
				Present?	
Remarks:				_	

US Army Corps of Engineers

Sampling Point: SP35

								· · ·
Profile De	scription: (Describe t	to the depth	needed to document	the indicato	r or cor	firm the	e absence of ir	ndicators.)
Depth	Matrix		Rede	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10 YR 2/2	100			. 71		Sandy loam	quite a bit of sand
8-14	10 YR 2/2	100					loam	<u>.</u>
14-16	10 YR 4/2	90	10 YR 3/6	5			sandy loam	· · · · · · · · · · · · · · · · · · ·
	10 111 1/2		10 11(0/0		<u> </u>		buildy loann	
		·						
		·						
		·						
		· <u> </u>						
		·						
	Concentration, D=Dep				ated Sar	nd Grain	is. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soi	I Indicators: (Applica	ble to all LR	Rs, unless otherwise	e noted.)			Indicators fo	r Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muc	ek (A10)
	Epipedon (A2)	_	Stripped Matrix (S6)					nt Material (TF2)
						~		llow Dark Surface (TF12)
	Histic (A3)		Loamy Mucky Minera			. 1)		
	gen Sulfide (A4)		Loamy Gleyed Matrix	. ,			Other (Ex	plain in Remarks)
·	ted Below Dark Surface	e (A11)	Depleted Matrix (F3)					
	Dark Surface (A12)		Redox Dark Surface	. ,				hydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa	ce (F7)			wetland h	ydrology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dis	sturbed or problematic.
Restrictive	Layer (if present):							
Type:	-ujo: (p. coo).							
	(inches):		-		Hvd	ric Soil	Present?	Yes No X
•	()		-					
Remarks:								
HYDROL	OGY							
Wetland H	ydrology Indicators:							
Primary In	dicators (minimum of c	one required;	check all that apply)				Secondar	y Indicators (2 or more required)
	e Water (A1)	<i>· · · ·</i>	Water-Stained Le	aves (R9) (e	cent M			-Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4	. , .	loopt m			, and 4B)
	ation (A3)		Salt Crust (B11)	5)			-	ge Patterns (B10)
	Marks (B1)		Aquatic Invertebr	ates (B13)				eason Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide	. ,				tion Visible on Aerial Imagery (C9
	eposits (B3)		Oxidized Rhizosp		iving Pr	ote (C3		orphic Position (D2)
	Mat or Crust (B4)		Presence of Redu	-	-	013 (03	· · · · · · · · · · · · · · · · · · ·	w Aquitard (D3)
	eposits (B5)		Recent Iron Redu			26)		leutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		`	,		d Ant Mounds (D6) (LRR A)
	ation Visible on Aerial I	magany(P7)				A)		Heave Hummocks (D7)
	ely Vegetated Concave		Other (Explain in	Remarks)			FIOSI-F	Heave Hullinocks (D7)
Sparse	ely vegetated Concave	Sunace (Do)					
Field Obs	ervations:							
Surface W	/ater Present? Yes	N	Depth (Ind	ches): NA				
Water Tab	ble Present? Yes	N	Depth (Ind	ches): >16	_			
Saturation	Present? Yes	N	Depth (Ind	ches): >16		Wetla	nd Hydrology	Present? Yes <u>No X</u>
(includes o	capillary fringe)							
Describe I	Recorded Data (stream	gauge, mon	itoring well, aerial pho	tos, previous	inspectio	ons), if a	available	
Remarks:								

Project/Site: Newpo	rt Municip	al Airport		City/County:	City of Newp	ort		Sampling Date	e: 28-May	/-2019
Applicant/Owner:	City of N	ewport				State:	OR	Sampling Poin	t: SP	36
Investigator(s): Jeff	Barna, P\	VS and Luke Johnsor	I	Section, Tov	vnship, Rang	e: Sectio	on 29, To	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, e	etc.): hillslope		Local relief (co	oncave, conv	ex, none):	none	S	lope (%):	1
Subregion (LRR):	A2 - Wil	amette Valley	Lat: 44.592	2006		Long: -124	4.05774	2D	atum: NAD8	3
Soil Map Unit Name	: 42C - I	Nelscott loam, 3 to 12	percent slopes			NW	l classif	ication: None		
Are climatic / hydrole	ogic cond	itions on the site typic	al for this time of	f year? Yes	No	K (lf no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Norma	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain ar	ny answ	ers in Remarks.))	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	х	No	within a Wetland?	Yes	Х	No
Pemarks: Recorded precipitation in		mont	he was below porr	nal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Streture (Distaine) and D	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3	(A)
2					
3				Total Number of Dominant	(E)
4				Species Across All Strata: 3	(B)
Copling/Shrub Stratum (Dist size: 201 D)		= Total Cover		Descent of Deminent Creation	
Sapling/Shrub Stratum (Plot size: <u>30' R)</u>	20	4		Percent of Dominant Species	
1. rubus spectabilis	20	1	FAC	That Are OBL, FACW, or FAC: 100.00 (A	4∕B)
2				Prevalence Index worksheet:	
4					
5	20			OBL species x 1=	
	20	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)	_			FAC species x 3=	
1. Blechnum spicant	5		FAC	FACU species x 4=	
2. carex obnupta	30	1	OBL	UPL species x 5=	
3. Lysichiton americanus	80	1	OBL	Column Totals:(A)(E	3)
4					
5				Prevalence Index = $B/A = \underline{0}$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				X 2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide suppo	orting
11				data in Remarks or on a separate sheet)	
	115	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Expla	,
1				¹ Indicators of hydric soil and wetland hydrology r	nust
2				be present, unless disturbed or problematic.	
		= Total Cover	_	Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X No	
				Present?	
Remarks:					
				-	

US Army Corps of Engineers

Sampling Point:

SP36

Profile De	scription: (Describe to	the depth	needed to document	the indicat	or or cor	nfirm the	absence of inc	licators.)
Depth	Matrix	-	Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 4/2	90	10 YR 3/6	10	C	М	Silt loam	
4-16	10 YR 4/2	80	10 YR 3/6	20	С	М	Silt loam	
				. <u> </u>				
¹ Type: C=	Concentration, D=Deple	tion, RM=R	educed Matrix, CS=C	overed or C	oated Sa	nd Grain	s. ² Lo	cation: PL=Pore Lining, M=Matr
21	Indicators: (Applicabl							Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muck	(A10)
Histic	Epipedon (A2)		Stripped Matrix (S6)				Red Parent	t Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) (exce	pt MLRA	(1)	Very Shallo	ow Dark Surface (TF12)
X Hydrog	gen Sulfide (A4)		Loamy Gleyed Matrix	: (F2)			Other (Exp	lain in Remarks)
·	ed Below Dark Surface ((A11) X	Depleted Matrix (F3)					
	Dark Surface (A12)		Redox Dark Surface	. ,				ydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfac				-	drology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions (F8)			unless dist	urbed or problematic.
	Layer (if present):							
Type: Depth	(inches):				Hve	Iric Soil	Present? Y	es X No
Deptii	(inches).				iiye		Fresent: 1	
Remarks:								
	0.01/							
HYDROL								
	vdrology Indicators:						O	
	dicators (minimum of on	e required;				_		Indicators (2 or more required)
	e Water (A1) Vater Table (A2)		Water-Stained Le 1, 2, 4A, and 4E		except IVI	LKA		Stained Leaves (B9) (MLRA 1, 2, and 4B)
X Satura			Salt Crust (B11)	,			,	e Patterns (B10)
	Marks (B1)		Aquatic Invertebra	ates (B13)				ason Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturati	on Visible on Aerial Imagery (C9)
Drift D	eposits (B3)		Oxidized Rhizospl	heres along	Living Ro	oots (C3)) Geomoi	rphic Position (D2)
	Mat or Crust (B4)		Presence of Redu	``	,			Aquitard (D3)
	eposits (B5)		Recent Iron Redu		`	,		eutral Test (D5)
	e Soil Cracks (B6) ation Visible on Aerial Im	2000/(P7)	Stunted or Stress		01) (LRR	A)		Ant Mounds (D6) (LRR A) eave Hummocks (D7)
	ely Vegetated Concave S	0 , (,	Other (Explain in	remarks)			FIOSI-FI	
	, ,				<u> </u>			
	ervations: /ater Present? Yes	X No	Depth (Inc	shes). 4				
		X No			—			
Saturation		X No			—	Wetla	nd Hydrology P	resent? Yes x No
	capillary fringe)		· · ·	·				
Describe F	Recorded Data (stream g	gauge, moni	toring well, aerial phot	os, previous	s inspecti	ons), if a	vailable	
Domentia	wational hudgets	ontoineder		opod 6!				
Remarks:	wetland hydrology is c	Untained Wi	nin nour-glass alsc sr	iapeu basin				

Project/Site: Newpo	rt Municip	al Airport		City/County:	City of New	port		Sampling D	ate:	28-May	-2019
Applicant/Owner:	City of Ne	ewport		-		State	: OR	Sampling P	oint:	SP3	37
Investigator(s): Jeff	Barna, PV	/S and Luke Johnsor	1	Section, To	wnship, Rang	ge: Sec	tion 29, 1	Fownship 11 S	, Range	11 S	
Landform (hillslope,	terrace, e	tc.): terrace		Local relief (c	oncave, conv	vex, none): none		Slope ((%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.59	1325		Long: -1	24.0583	42	Datum	NAD83	
Soil Map Unit Name	: 42C - N	lelscott loam, 3 to 12	percent slopes			N	WI class	ification: None	e		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time o	of year? Yes	No	X (If	no, expla	ain in Remarks	.)		
Are Vegetation	Soil	or Hydrology	significantly of	disturbed?	Are "Norm	nal Circur	nstances	" present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally prot	olematic?	(If needed	l, explain	any ansv	vers in Remark	(s.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Pagardad proginitation in		onthe wor	bolownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of p	plants.			
Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	10		FACU	That Are OBL, FACW, or FAC: 1 (A)
2. Picea sitchensis	50	1	FAC	
3. Alnus rubra	15	<u> </u>	FAC	Total Number of Dominant
4.				Species Across All Strata: 3 (B)
	75	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	10	1	FACU	That Are OBL, FACW, or FAC: 33.33 (A/B)
2.				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	10	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Polystichum munitum	10	1	FACU	FACU species x 4=
2				UPL species x 5=
3				Column Totals: (A) (B)
4				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	10	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				J

US Army Corps of Engineers

Sampling Point: SP37

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Type1 Loc2 Texture Remarks 0-16 10 YR 2/2	
Color (moist) % Color (moist) % Type1 Loc2 Texture Remarks 0-16 10 YR 2/2	
0-16 10 YR 2/2 Silt loam 0-16 10 YR 2/2 Silt loam 10 YR 2/2 Silt loam Silt loam Silt loam 10 YR 2/2 Silt loam Silt loam Silt loam Silt loam Silt loam 10 YR 2/2 Silt loam Silt loam Silt loam Silt loam Silt loam 10 YR 2/2 Silt loam Silt loam Silt loam Silt loam Silt loam 10 YR 2/2 Silt loam Silt loam Silt loam Silt loam Silt loam 10 YR 2/2 Silt loam Silt loam Silt loam Hydric Soil Indicators (A1) Sandy Redox (S5) Silt loam Sandy Redox (S6) Black Histi	
Image:	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12)	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)Indicators for Problematic Hydric Soils ³ :Histosol (A1)Sandy Redox (S5)2 cm Muck (A10)Histic Epipedon (A2)Stripped Matrix (S6)Red Parent Material (TF2)Black Histic (A3)Loamy Mucky Mineral (F1) (except MLRA 1)Very Shallow Dark Surface (TF12)Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Other (Explain in Remarks)Depleted Below Dark Surface (A11)Depleted Matrix (F3)Indicators of hydrophytic vegetation and	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12)	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12)	
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Thick Dark Surface (A12) Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation and	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present,	
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.	
Sandy Gleyed Matrix (S4) Redox Depressions (P6) unless disturbed of problematic.	
Restrictive Layer (if present):	
Type:	
Depth (inches): No X	
Remarks:	
HYDROLOGY	
Watered Hydrology Indiantera	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)	
	,
Surface Water (A1)Water-Stained Leaves (B9) (except MLRAWater-Stained Leaves (B9) (MLRA 1	,
High Water Table (A2) 1, 2, 4A, and 4B) 4A, and 4B)	,
High Water Table (A2)1, 2, 4A, and 4B)4A, and 4B)Saturation (A3)Salt Crust (B11)Drainage Patterns (B10)	,
High Water Table (A2)1, 2, 4A, and 4B)4A, and 4B)Saturation (A3)Salt Crust (B11)Drainage Patterns (B10)Water Marks (B1)Aquatic Invertebrates (B13)Dry-Season Water Table (C2)	A 1, 2,
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Project/Site: Newpo	rt Municip	al Airport		City/County:	City of Newpo	rt		Sampling Dat	e: 23-Se	o-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 10)1
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	vnship, Range:	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (co	ncave, conve	, none):	none	5	Slope (%):	3
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.597	7722	L	.ong: <u>-12</u> 4	1.04369	60 E	Datum: NAD8	3
Soil Map Unit Name	e: 25E - L	int silt loam, 5 to 25	percent slopes			NW	l classif	ication: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	lematic?	(If needed, e	xplain an	y answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Remarka: Recorded precipitation in	nroviouo	mont		normal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	60	1	FACU	That Are OBL, FACW, or FAC: 4 (A)
2.				
3.	·			Total Number of Dominant
4.	·			Species Across All Strata: 5 (B)
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	15	1	FAC	That Are OBL, FACW, or FAC: 80.00 (A/B)
2. Vaccinium parvifolium	5	1	FACU	
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	20	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Lysichiton americanus	10	1	OBL	FACU species x 4=
2. Carex obnupta	30	1	OBL	UPL species x 5=
3.				Column Totals: (A) (B)
4				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	40	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

US Army Corps of Engineers

Sampling Point: 101

Profile Description: (Describe to the dep	th needed to document the indicator or conf	irm the absence of indicators.)
Depth Matrix	Redox Features	
		Les ² Texture Demorks
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
0-18 10YR 2/1 100		Silt loam Very dark, no redox
1		2
	=Reduced Matrix, CS=Covered or Coated San	d Grains. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all I	_RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Roday (S5)	2 on Muck (A10)
	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	1) Very Shallow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hvdr	ic Soil Present? Yes X No
		<u> </u>
Remarks:		
Remarks: HYDROLOGY		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:	d: chock all that apply)	Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require		Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	d; check all that apply) Water-Stained Leaves (B9) (except ML	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) X High Water Table (A2)		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except ML	RA Water-Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) X High Water Table (A2)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cl Stunted or Stressed Plants (D1) (LRR A	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) obts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cl Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cl Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) obts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cl Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) obts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cl Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) obts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4) Stunted or Stressed Plants (D1) (LRR A T) Other (Explain in Remarks) B8) No X Depth (Inches): NA No Depth (Inches): 7	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Obts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) 6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4) Stunted or Stressed Plants (D1) (LRR A T) Other (Explain in Remarks) B8) No X Depth (Inches): NA No Depth (Inches): 7	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) obts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Ves	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4 Stunted or Stressed Plants (D1) (LRR A T) Other (Explain in Remarks) B8) No X Depth (Inches): NA No Depth (Inches): 7 No Depth (Inches): 4	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) obts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Shallow Aquitard (D5) 6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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Project/Site: Newpo	rt Municip	al Airport		City/Cou	Inty: City of Ne	ewpor	t		Sampling Dat	e: 23-Se	ep-2019
Applicant/Owner:	City of Ne	ewport					State:	OR	Sampling Poir	nt: SF	P102
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section	, Township, Ra	ange:	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relie	ef (concave, co	nvex,	none): I	none	5	Slope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat:	44.597741		Lo	ong: -124	.04359	C	Datum: NAD	83
Soil Map Unit Name	: Lint silt	loam, 5 to 25 percen	t slopes				NW	classif	ication: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this ti	ime of year?	Yes No	Х	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?	Are "No	rmal (Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	y problematic?	(If need	ed, ex	plain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Recorded precipitation in		onthe wor	bolownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	60	1	FACU	That Are OBL, FACW, or FAC: (A)
2.		<u> </u>		
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	5	1	FACU	That Are OBL, FACW, or FAC: (A/B)
2.				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	5	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Polystichum munitum	5	1	FACU	FACU species x 4=
2				UPL species x 5=
3				Column Totals:(A)(B)
4				
5				Prevalence Index = $B/A = 0$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	5	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 80				Vegetation Yes No X
				Present?
Remarks: mossy and leaf litter forest floor				

US Army Corps of Engineers

Sampling Point: SP102

Profile Description: (Describe to the dep	h needed to document the indicator or o	confirm the a	bsence of indica	ators.)
Depth Matrix	Redox Features			
(inches) Color (moist) %	Color (moist) % Type	e ¹ Loc ²	Texture	Remarks
0-14 5YR2.5/2 100			Sandy loam	Remarks
¹ Type: C=Concentration, D=Depletion, RM		Sand Grains.	² Locat	ion: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	I	ndicators for Pr	oblematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A	.10)
Histic Epipedon (A2)	Stripped Matrix (S6)	-	Red Parent M	aterial (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except ML	.RA 1) –	Very Shallow	Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	-	Other (Explair	n in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	-		
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3	Indicators of hydr	ophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland hydro	logy must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturb	ed or problematic.
Restrictive Layer (if present):				
Type: Log		Judria Cail D	resent? Yes	No X
Depth (inches): 14	_	Hydric Soil Pi	resent? res	NoX
Remarks: significant duff layer above soil.				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one require	d; check all that apply)		Secondary Ind	dicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except	MIRA		ined Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)		4A, and	
Saturation (A3)	Salt Crust (B11)			Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)		Dry-Seaso	n Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		Saturation	Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living	Roots (C3)	Geomorph	ic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)		Shallow Ac	quitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	. ,		al Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LR	RR A)		t Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7			Frost-Heav	ve Hummocks (D7)
Sparsely Vegetated Concave Surface (I	38)			
Field Observations:				
	No X Depth (Inches): NA			
	No X Depth (Inches):	Matter		anto Van N-V
	No X Depth (Inches):	wetland	Hydrology Pres	sent? Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, me	phitoring well aerial photos, provious incore	ections) if ave	ailable	
Describe Recorded Data (Silearn yauye, m	sintoning well, aenai priotos, previous ilispe			
Demerke				
Remarks:				
Remarks:				

Project/Site: Newpo	rt Municipal	Airport		City/Co	unty: C	City of Nev	vport			Sampling I	Date:	23-Sep	o-2019	
Applicant/Owner:	City of New	port					:	State:	OR	Sampling I	Point:	10)3	
Investigator(s): Luke	e Johnson a	nd Amanda Brophy		Section	n, Towr	nship, Ran	ge:	Sectio	n 29, To	ownship 11 S	3, Ranç	ge 11 S		
Landform (hillslope,	terrace, etc	.): Depression		Local rel	ief (con	icave, con	vex,	none): (Concav	е	Slop	e (%):	0	
Subregion (LRR):	A2 - Willam	ette Valley	Lat:	44.596161			Loi	ng: <u>-12</u> 4	.04598	4	Datu	m: NAD8	3	
Soil Map Unit Name	: Nelscott	loam, 3 to 12 perce	nt slopes					NW	classif	ication: non	e			
Are climatic / hydrol	ogic conditio	ons on the site typic	al for this t	ime of year?	Yes	No	Х	(lf no	, explai	n in Remark	s.)			
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?		Are "Norr	nal C	ircumst	ances"	present' Ye	s X	No		
Are Vegetation	Soil	or Hydrology	naturall	y problematic?		(If neede	d, exp	olain an	y answe	ers in Rema	rks.)			

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	X No		Is the Sampled Area			
Wetland Hydrology Present?	Yes	X No		within a Wetland?	Yes	Х	No
Remarks: Recorded precipitation in		onthe w	e bolow nor	mal range			

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
		= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1				That Are OBL, FACW, or FAC:(A/B)
2.				
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5.				OBL species x 1=
		= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Hypochaeris radicata	2	1	FACU	FACU species x 4=
2				UPL species x 5=
2				Column Totals: (A) (B)
4				
4. 5				Prevalence Index = B/A = 0
6				Hydrophytic Vegetation Indicators:
o 7				1- Rapid Test For Hydrophytic Vegetation
0				2. Dominance Test is >50%
9.				3 · Prevalence Index is $\leq 3.0^{1}$
10				4- Morphological Adaptations ¹ (Provide supporting
10 11.				data in Remarks or on a separate sheet)
. 	2	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
2				
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks: feature appears to be stormwater/wastew	vater enhand	ed gravel trea	tement sys	stem

US Army Corps of Engineers

Sampling Point: 103

Profile De	scription: (Describ	e to the depth	needed to document	t the indicate	or or cor	nfirm the	e absence of ind	icators.)
Depth	Matrix		Pod	ox Features				
					_ 1	. 2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	Fill	80	5YR3/4	15	С	М	Sandy grave	
6-16	10YR 3/1	95	7.5YR 5/6	5	<u> </u>	M	Sandy grave	
	1							
1							2.	
		•	Reduced Matrix, CS=C		bated Sa	nd Grain	is. ² Loc	ation: PL=Pore Lining, M=Matr
Hydric Soi	I Indicators: (Appli	cable to all LR	Rs, unless otherwise	e noted.)			Indicators for I	Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muck	(410)
	()		Stripped Matrix (S6)					Material (TF2)
	Epipedon (A2)							· · · ·
	Histic (A3)	_	Loamy Mucky Miner		pt MLRA	(1)	Very Shallo	w Dark Surface (TF12)
Hydro	gen Sulfide (A4)		Loamy Gleyed Matri	x (F2)			Other (Expl	ain in Remarks)
Deple	ted Below Dark Surfa	ace (A11)	Depleted Matrix (F3)	1				
Thick	Dark Surface (A12)	X	Redox Dark Surface	(F6)			3Indicators of hy	/drophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa	ce (F7)			wetland hyd	Irology must be present,
	Gleved Matrix (S4)		Redox Depressions				-	urbed or problematic.
				(10)				inted of problematic.
Restrictive	Layer (if present):							
	Luyer (in present).							
Type: Dopth	(inches):		-		Live	Iria Sail	Present? Ye	es X No
Deptil			-		пус		Flesent? Te	
Remarks:								
HYDROL	OGY							
Wetland H	ydrology Indicators							
							0	
Primary in	idicators (minimum c	of one required;	check all that apply)			_		Indicators (2 or more required)
Surfac	e Water (A1)		Water-Stained Le	eaves (B9) (e	xcept M	LRA	Water-S	tained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4	B)			4A, a	ind 4B)
X Satura	ation (A3)		Salt Crust (B11)				Drainage	e Patterns (B10)
Water	Marks (B1)		Aquatic Invertebr	ates (B13)			Dry-Sea	son Water Table (C2)
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturatio	on Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp		Living Ro	oots (C3) Geomor	phic Position (D2)
	Mat or Crust (B4)		Presence of Red	0	•		· _ ·	Aquitard (D3)
	eposits (B5)		Recent Iron Redu		,	26)		utral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		`	'		Ant Mounds (D6) (LRR A)
	ation Visible on Aeria	Imagany(P7)				~)		eave Hummocks (D7)
			Other (Explain in	Remarks)			FIUST-HE	ave Hummocks (D7)
Spars	ely Vegetated Conca	ave Sunace (Bo)					
Field Obs	ervations:							
Surface W	ater Present? Ye	es N	o X Depth (In	ches): NA	`			
Water Tat	ble Present? Ye	es X N	Depth (In	ches): 6				
Saturatior		es X N	· · ·			Wetla	nd Hydrology Pr	esent? Yes X No
	capillary fringe)			, <u> </u>	—		,	
•		am daude mon	itoring well, aerial pho	tos, previous	inspecti	ons) if a	vailable	
Describe		an gaage, non	terring treat, denta prio	, provious	mopooli	5110), 11 6		
Pomorko								
Remarks:								

Project/Site: Newport Municipal Airport				City/Count	City/County: City of Newport				ate: 23	23-Sep-2019	
Applicant/Owner:	City of Nev	vport				State:	OR	Sampling Po	pint:	104	
Investigator(s): Luke	e Johnson a	nd Amanda Brophy		Section, 1	Fownship, Rang	ge: Section	on 29, T	ownship 11 S,	Range 11	S	
Landform (hillslope,	terrace, etc	c.): Depression		Local relief	(concave, conv	vex, none):	Concav	/e	Slope (%)): (C
Subregion (LRR):	A2 - Willan	nette Valley	Lat:	44.596128		Long: -12	4.04606	64	Datum: N	AD83	
Soil Map Unit Name	: Nelscott	loam, 3 to 12 perce	nt slopes			NW	/I classi	fication: none			
Are climatic / hydrol	ogic conditi	ons on the site typic	al for this t	ime of year? Ye	es No	X (If n	o, explai	in in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?	Are "Norm	al Circums	tances"	present' Yes	XN	lo	
Are Vegetation	Soil	or Hydrology	naturall	y problematic?	(If needed	, explain a	ny answ	ers in Remark	s.)		

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

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of p	lants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	i	
1. Alnus rubra	5	1	FAC	That Are OBL, FACW, or FAC	C: 2	(A)
2.						_
3.				Total Number of Dominant		
4.				Species Across All Strata:	6	(B)
	5	= Total Cover				_
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species		
1. Gaultheria shallon	15	1	FACU	That Are OBL, FACW, or FAC	C: <u>33.33</u>	(A/B)
2.						
3				Prevalence Index workshe	et:	
4				Total % Cover of:	Multiply by:	
5	15			OBL species	x 1=	
	30	= Total Cover		FACW species	x 2=	
Herb Stratum (Plot size: 5' R)				FAC species	x 3=	
1. Plantago lanceolata	20	1	FACU	FACU species	x 4=	
2. Cytisus scoparius	10	1	NL	UPL species	x 5=	
3. Holcus lanatus	5		FAC	Column Totals: (A	.)	(B)
4						
5		·		Prevalence Index = B/A =	<u> </u>	
6				Hydrophytic Vegetation Inc		
7				1- Rapid Test For Hydrop		
8		·		2- Dominance Test is >50		
9		·		3- Prevalence Index is ≤3		
10		·		4- Morphological Adaptat	ions ¹ (Provide su	ipporting
11				data in Remarks or on		t)
	35	= Total Cover		5- Wetland Non-Vascular		
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophy		
1. Rubus armeniacus	25	1	FAC	¹ Indicators of hydric soil and	•	gy must
2. Rubus ursinus	10	1	FACU	be present, unless disturbed	d or problematic.	
	35	= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum				Vegetation Yes	No	х
				Present?		
Remarks:				•		

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Sampling Point:

		Sampling Point: 104
Profile Description: (Describe to the dep	th needed to document the indicator or confirm the	e absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-18 10 yr 4/4 100		Sandy loam Contains gravel
¹ Type: C=Concentration, D=Depletion, RM	I=Reduced Matrix, CS=Covered or Coated Sand Grain	s. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Soil	Present? Yes X No
Remarks: Constructed berm		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require	ed; check all that apply)	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one require Surface Water (A1)	ed; check all that apply) Water-Stained Leaves (B9) (except MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)) Geomorphic Position (D2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface (Field Observations:	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B3) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) B8) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B2) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) B8) No X No X No X Depth (Inches): Na No X No X Depth (Inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B2) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, m	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) B8) No X No X No X Depth (Inches): Na No X No X Depth (Inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) B8) No X No X No X Depth (Inches): Na No X No X Depth (Inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpo	rt Municipa	al Airport		City/County: City of Newport				Sampling Dat	e: 23-Sep	o-2019
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poir	nt: 10)5
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tov	wnship, Range	: Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): Slope		Local relief (co	oncave, conve	x, none):	None	S	Slope (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.594	4708	I	_ong: -124	1.04327	3 C	Datum: NAD8	3
Soil Map Unit Name	: Fendall	-Templeton silt loams	s, 35 to 60 percer	nt slopes		NW	l classif	ication: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(lf nc	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	explain ar	iy answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe wor	bolow porp	al range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	65	1	FACU	That Are OBL, FACW, or FAC:	(A)
2.		<u> </u>			
3.				Total Number of Dominant	
4.				Species Across All Strata: 4	(B)
	65	= Total Cover			_ ``
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	25	1	FAC	That Are OBL, FACW, or FAC:	(A/B)
2. Rubus parviflorus	5		FACU		
3. Gaultheria shallon	10		FACU	Prevalence Index worksheet:	
4. Alnus rubra	5		FAC	Total % Cover of: Multiply by	:
5. Vaccinium parvifolium	10		FAC	OBL species x 1=	
	55	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Polystichum munitum	5	1	FACU	FACU species x 4=	
2. Trillium ovatum	10	1	FACU	UPL species x 5=	
3.				Column Totals: (A)	(B)
4.					
5				Prevalence Index = $B/A = \underline{0}$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	า
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide s	supporting
11. Lillypad plant	10			data in Remarks or on a separate she	et)
	25	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹	Explain)
1				¹ Indicators of hydric soil and wetland hydrol	ogy must
2				be present, unless disturbed or problematic	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes No	х
				Present?	
Remarks:					

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Des fils De		des dande na		(((-				
	scription: (Describe to	the depth he			or or cor	ntirm the	e absence of Inc	licators.)
Depth	Matrix		Red	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	Duff		7.5 5/0			<u></u>	0:14 1	
2-10	10YR 4/6	97	7.5 yr 5/8	3	С	M/pl	Silt loam	
							·	
							<u> </u>	
							·	
¹ Type: C-	-Concentration, D=Deple	tion RM-Red	luced Matrix CS-C	overed or Co	ated Sa	nd Grain	21 or	cation: PL=Pore Lining, M=Matr
	Indicators: (Applicabl							Problematic Hydric Soils ³ :
-				e noteu.)			indicators for	r robieniatic riyune cons.
	ol (A1)		andy Redox (S5)				2 cm Muck	
Histic	Epipedon (A2)		tripped Matrix (S6)					t Material (TF2)
	Histic (A3)		oamy Mucky Miner		pt MLRA	(1)	Very Shallo	ow Dark Surface (TF12)
Hydro	gen Sulfide (A4)		oamy Gleyed Matri				Other (Exp	lain in Remarks)
·	ted Below Dark Surface (·	epleted Matrix (F3)					
	Dark Surface (A12)		edox Dark Surface					ydrophytic vegetation and
	Mucky Mineral (S1)		epleted Dark Surfa				-	drology must be present,
Sandy	Gleyed Matrix (S4)	F	edox Depressions	(F8)			unless dist	urbed or problematic.
Restrictive	Layer (if present):							
Type:	Hard pan							
	(inches): 10				Hyd	iric Soil	Present? Y	es No X
Deveseration								
Remarks:	Old road bed							
HYDROL	OGY							
Wetland H	ydrology Indicators:							
Primary In	dicators (minimum of one	e required; ch	eck all that apply)				Secondary	Indicators (2 or more required)
Surfac	e Water (A1)		Water-Stained Le	eaves (B9) (e	xcept M	 LRA	Water-S	Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)	-	 1, 2, 4A, and 4		•			and 4B)
	ation (A3)		Salt Crust (B11)				Drainag	e Patterns (B10)
Water	Marks (B1)	_	Aquatic Inverteb	ates (B13)			Dry-Sea	ason Water Table (C2)
Sedim	ent Deposits (B2)	_	Hydrogen Sulfide	e Odor (C1)			Saturati	on Visible on Aerial Imagery (C9)
Drift D	eposits (B3)	_	Oxidized Rhizosp	oheres along	Living Ro	oots (C3) Geomor	rphic Position (D2)
	Mat or Crust (B4)	_	Presence of Red		'			Aquitard (D3)
	eposits (B5)	_	Recent Iron Red		•	'		eutral Test (D5)
	e Soil Cracks (B6)	(57)	Stunted or Stress		1) (LRR	A)		Ant Mounds (D6) (LRR A)
	ation Visible on Aerial Ima		Other (Explain in	Remarks)			Frost-He	eave Hummocks (D7)
Spars	ely Vegetated Concave S	sunace (B8)						
	ervations:							
	/ater Present? Yes	No	X Depth (In	-				
	ble Present? Yes	No	X Depth (In	-		141-11		
Saturation		No	X Depth (In	ches): >16	<u> </u>	vvetla	nd Hydrology P	resent? Yes <u>No X</u>
·	capillary fringe) Recorded Data (stream g	auge, monito	ring well, aerial pho	otos, previous	inspecti	ons). if a	available	
	(ou ou in g		5, <u></u> , pilo	.,		,,, o		
1								
Remarks:								

Project/Site: Newpor		City/Co	unty: I	Newport			Sampling Da	ate:	23-Sep	-2019		
Applicant/Owner:	City of Nev	wport		_	-		State:	OR	Sampling Po	oint:	10	6
Investigator(s): L. Jo	hnson, A.	Brophy		Section	n, Tow	nship, Rang	e: Sectio	on 29, T	ownship 11 S,	Range	11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local rel	ief (cor	ncave, conv	ex, none):	Concav	'e	Slope	(%):	20
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.59	952101			Long: -12	4.04227	39	Datum	: NAD83	1
Soil Map Unit Name	: Fendall-	Templeton silt loams	s, 35 to 60 perce	ent slopes			NW	I classif	ication: none			
Are climatic / hydrolo	ogic conditi	ons on the site typic	al for this time o	of year?	Yes	No	X (If no	o, explai	n in Remarks.	.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?		Are "Norm	al Circums	tances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?		(If needed	, explain ar	ny answ	ers in Remark	s.)		

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

Hydric Soil P	Vegetation Present? Present? drology Present?	Yes Yes Yes	X X X	No No No		e Sampled A n a Wetland			
	Recorded precipitation Soils are moist and not Within seasonal drainag	t saturated	month	ıs was below n	iormal range				
VEGETAT	TION – Use scienti	ific name	s of	plants.					
<u>Tree Stratu</u> 1. <u>Tsuga he</u>		0m R)		Absolute % Cover 50	Dominant Species? X	Indicator Status FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)

% Bare Ground in Herb Stratum				Vegetation Yes <u>X</u> No Present?
		= Total Cover		Hydrophytic
1 2				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: R)	20	= Total Cover		5- Wetland Non-Vascular Plants ¹ 6- Problematic Hydrophytic Vegetation ¹ (Explain)
10 11.				4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9				3- Prevalence Index is ≤3.0 ¹
8				X 2- Dominance Test is >50%
7				1- Rapid Test For Hydrophytic Vegetation
5 6				Prevalence Index = B/A = <u>0</u> Hydrophytic Vegetation Indicators:
4				
3 Athyrium cyclosorum	5	- <u>x</u>	FAC	UPL species x 5= Column Totals: (A) (B)
1. Polystichum munitum 2. Geum macrophyllum	5	- <u>X</u>	FACU	FACU species x 4=
Herb Stratum (Plot size: 3m R)	10	v	FACU	FAC species x 3=
	90	= Total Cover		FACW species x 2=
5				OBL species x 1=
4.				Total % Cover of: Multiply by:
3.				Prevalence Index worksheet:
1. Rubus spectabilis 2.	90	X	FAC	That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size: 5m R)	50	= Total Cover		Percent of Dominant Species
4.				Species Across All Strata: 5 (B)
2 3.				Total Number of Dominant

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	cription: (Describe to	the depth			or or cor	nfirm the	e absence of i	ndicators.)
Depth (inchoo)	Matrix	0/		ox Features	Tuna ¹	Loc ²	Texture	Remarks
(inches) 0-4	Color (moist) 5YR 2.5/2	<u>%</u> 100	Color (moist)	%	Type ¹	LOC	Silt loam	mucky, high organics
4-16	10YR 3/1	70	5GY 5/1	15	С	М	Silt loam	maoky, nigh organico
			5YR 3/4	15	C	М	Silt loam	
<i>,</i> ,	Concentration, D=Deple				pated Sa	nd Grain	18. ² L	ocation: PL=Pore Lining, M=Matr
Hydric Soil I	ndicators: (Applicab	le to all LR	Rs, unless otherwise	e noted.)			Indicators fo	or Problematic Hydric Soils ³ :
Histoso	l (A1)		Sandy Redox (S5)				2 cm Muo	ck (A10)
Histic E	pipedon (A2)		Stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black H	istic (A3)		Loamy Mucky Minera	al (F1) (exce	pt MLRA	(1)	Very Sha	llow Dark Surface (TF12)
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix	x (F2)			Other (Ex	plain in Remarks)
Deplete	d Below Dark Surface	(A11)	Depleted Matrix (F3)					
Thick D	ark Surface (A12)	Х	Redox Dark Surface	(F6)			3Indicators of	hydrophytic vegetation and
Sandy M	Mucky Mineral (S1)	Х	Depleted Dark Surfa	ce (F7)			wetland h	ydrology must be present,
Sandy C	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dis	sturbed or problematic.
Restrictive I	_ayer (if present):							
Type:								
Depth (i	nches):		-		Hyd	Iric Soil	Present?	Yes X No
			•		-			
Remarks:	Soils are moist and no	t saturated						
HYDROLO	GY							
Wetland Hw	drology Indicators:							
-	icators (minimum of or	o roquirod:	check all that apply)				Seconda	ry Indicators (2 or more required)
	•	ie required,	Water-Stained Le	2006 (BQ) (vcont M			-Stained Leaves (B9) (MLRA 1, 2,
	Water (A1) ater Table (A2)		1, 2, 4A, and 4		xcept w	LNA		, and 4B)
X Saturati			Salt Crust (B11)	5)				age Patterns (B10)
	/arks (B1)		Aquatic Invertebr	ates (B13)				eason Water Table (C2)
	nt Deposits (B2)		Hydrogen Sulfide					ation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Oxidized Rhizosp	heres along	Living Ro	oots (C3) Geom	orphic Position (D2)
Algal M	at or Crust (B4)		Presence of Redu	uced Iron (C4	4)		Shallo	w Aquitard (D3)
	posits (B5)		Recent Iron Redu		•	,		leutral Test (D5)
	Soil Cracks (B6)		Stunted or Stress		1) (LRR	A)		d Ant Mounds (D6) (LRR A)
	ion Visible on Aerial Im		Other (Explain in	Remarks)			Frost-	Heave Hummocks (D7)
Sparser	y Vegetated Concave	Sunace (Do						
Field Obse								
	ter Present? Yes	No						
Water Table	-	No No		·		M/		
Saturation F	-	X No	Depth (Ind	ches): zer	0	wetla	nd Hydrology	Present? Yes X No
	apillary fringe) ecorded Data (stream g	gauge, moni	toring well, aerial pho	tos, previous	inspecti	ons), if a	available	
Remarks:	Within seasonal draina	age,						

Project/Site: Newpo	rt Municip	al Airport		City/County:	City of Newpo	ort		Sampling Date	e: 23-Sep	o-2019
Applicant/Owner:	City of N	ewport				State:	OR	Sampling Poin	t: 10)7
Investigator(s): Luke	Johnsor	and Amanda Brophy		Section, Tov	vnship, Range	: Sectio	n 29, T	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, e	etc.): hillslope		Local relief (co	oncave, conve	x, none):	none	S	lope (%):	4
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.595	506	I	_ong: -124	1.04220	9 D	atum: NAD8	3
Soil Map Unit Name	: 18G -F	Fendall-Templeton silt	loams, 35 to 60 p	percent slopes		NW	l classif	ication: Riverine	e	
Are climatic / hydrole	ogic conc	litions on the site typica	al for this time of	year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly dis	sturbed?	Are "Norma	l Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	ematic?	(If needed, e	explain ar	iy answ	ers in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x	
Remarks: Recorded precipitation in		nthe was	below por	mal range				

Recorded precipitation in previous months was below normal range emarks:

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Sambucus racemosa	15	1	FACU	That Are OBL, FACW, or FAC:	(A)
2. Tsuga heterophylla	10	1	FACU	3	
3.				Total Number of Dominant	
4.				Species Across All Strata: 6	(B)
	25	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Alnus rubra	60	1	FAC	That Are OBL, FACW, or FAC:	(A/B)
2.					
3				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	_
5				OBL species x 1=	_
	60	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Polystichum munitum	10	1	FACU	FACU species x 4=	
2. Athyrium cyclosorum	5	1	FAC	UPL species x 5=	-
3. Blechnum spicant	5	1	FAC	Column Totals: (A)	(B)
4.					
5.				Prevalence Index = $B/A = 0$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				2- Dominance Test is >50%	
9				3. Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide sup	oporting
11				data in Remarks or on a separate sheet)
	20	= Total Cover		5 Wetland Non-Vascular Plants ¹	,
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Ex	plain)
1				¹ Indicators of hydric soil and wetland hydrolog	y must
2.				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes No	x
				Present?	<u>~</u>
Remarks:					
Romano.					

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Sampling Point: 107

Profile Description: (Describe to the dant	h needed to decument the indicator or confirm	the absence of indicators)
	h needed to document the indicator or confirm	The absence of mulcators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Lo	c ² Texture Remarks
0-16 5yr 3/2 100		
¹ Type: C=Concentration, D=Depletion, RM=	=Reduced Matrix, CS=Covered or Coated Sand G	rains. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:	_	
Depth (inches):	Hydric S	Soil Present? Yes No X
Remarks: Elecks of sandstone mixed in se	oil	
Remarks: Flecks of sandstone mixed in se	bil	
Remarks: Flecks of sandstone mixed in se	bil	
	bil	
HYDROLOGY	bil	
HYDROLOGY Wetland Hydrology Indicators:		
HYDROLOGY	d; check all that apply)	Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B7 Field Observations: Surface Water Present?	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B7) Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) etland Hydrology Present? Yes No X
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B7) Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) etland Hydrology Present? Yes No X
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, model)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) etland Hydrology Present? Yes No X
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) etland Hydrology Present? Yes No X

Project/Site: Newpo	rt Municipa	al Airport		City/County:	City of Newpo	rt		Sampling Date	e: 23-Sep	-2019
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poin	nt: 10	8
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	vnship, Range:	Sectio	n 29, To	wnship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, e	tc.): terraces		Local relief (co	ncave, conve	, none):	none	S	lope (%):	0
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.59	3872	L	ong: <u>-12</u> 4	1.04752	2D	atum: NAD83	3
Soil Map Unit Name	: 42C, N	elscott loam, 3 to 12	percent slopes			NW	l classif	cation: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.))	

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

Hydrophytic Vegetation Present?	Yes	X No					
Hydric Soil Present?	Yes	No	X	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarks: Recorded precipitation in	nrevious m	onthe was	s helow norm	al range			

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
1	. <u> </u>			That Are OBL, FACW, or FAC: (A)
2 3				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
		= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Frangula purshiana	1	1	FAC	That Are OBL, FACW, or FAC:(A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	1	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Phalaris arundinacea	100	1	FACW	FACU species x 4=
2. Carex obnupta	10		OBL	UPL species x 5=
3.				Column Totals: (A) (B)
4.				
5.				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	110	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	65		FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	65	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

US Army Corps of Engineers

Sampling Point: 108

Profile Description: (Describe to the dep	h needed to document the indicator or con	firm the absence of in	dicators)
Depth Matrix	Redox Features	<u> </u>	
(inches) Color (moist) % 0-16 10 yr 2/2	Color (moist) % Type ¹	Loc ² Texture Silt loam	Remarks
0-18 10 yi 2/2		Siit ioani	
		<u> </u>	
		<u> </u>	
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated San	d Grains. ² Lo	cation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)		Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Mucł	(A10)
Histic Epipedon (A2)	Stripped Matrix (S6)		t Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA		ow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	.,	lain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)		
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of h	ydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		drology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	-	urbed or problematic.
Restrictive Layer (if present):			
Туре:			
Depth (inches):	Hydi	ric Soil Present? Y	es <u>No X</u>
Remarks: Trace redox in pore linings, less	s than 1%		
Remarks: Trace redox in pore linings, less	s than 1%		
Remarks: Trace redox in pore linings, les	s than 1%		
	s than 1%		
HYDROLOGY	s than 1%		
HYDROLOGY Wetland Hydrology Indicators:			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	d; check all that apply)		Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	d; check all that apply) Water-Stained Leaves (B9) (except ML	RA Water-	Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)	_RA	Stained Leaves (B9) (MLRA 1, 2, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11)	RAWater-3 4A, Drainag	Stained Leaves (B9) (MLRA 1, 2, and 4B) je Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	d; check all that apply) — Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	.RAWater-3 4A, Drainag Dry-Sea	Stained Leaves (B9) (MLRA 1, 2, and 4B) Je Patterns (B10) ason Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	RA Water-3 4A, Drainaç Dry-Se Saturat	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	d; check all that apply) — Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	RA Water-3 4A, Drainag Dry-Se Saturat ots (C3) Geomo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro	RA Water 4A, Drainag Dry-Sea Saturat ots (C3) Geomo Shallow	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4)	RA Water-1 4A, Drainag Dry-Sea Saturat ots (C3) Geomo Shallow 6) FAC-No	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) v Aquitard (D3)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR 4))Other (Explain in Remarks)	RA Water-3 4A, Drainag Dry-Sea Saturat ots (C3) Geomo Shallow Shallow 6) FAC-Ne A) Raised	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) v Aquitard (D3) eutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR 4))Other (Explain in Remarks)	RA Water-3 4A, Drainag Dry-Sea Saturat ots (C3) Geomo Shallow Shallow 6) FAC-Ne A) Raised	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR 4))Other (Explain in Remarks)	RA Water-3 4A, Drainag Dry-Sea Saturat ots (C3) Geomo Shallow Shallow 6) FAC-Ne A) Raised	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B7 Field Observations: Surface Water Present?	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR 4))Other (Explain in Remarks) 38) NoX Depth (Inches):NA	RA Water-3 4A, Drainag Dry-Sea Saturat ots (C3) Geomo Shallow Shallow 6) FAC-Ne A) Raised	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR A)Other (Explain in Remarks) 38) NoX Depth (Inches):NA NoX Depth (Inches):NA	RA Water-3 4A, Drainag Dry-Se: Saturat ots (C3) Geomo Shallow (6) FAC-No A) Raised Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) / Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR 4))Other (Explain in Remarks) 38) NoX Depth (Inches):NA	RA Water-3 4A, Drainag Dry-Sea Saturat ots (C3) Geomo Shallow Shallow 6) FAC-Ne A) Raised	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) / Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Ves	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR 4) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	RA Water-3 4A, Drainag Dry-Se: Saturat ots (C3) Geomo Shallow (6) FAC-Na A) Raised Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) / Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Ves	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR A)Other (Explain in Remarks) 38) NoX Depth (Inches):NA NoX Depth (Inches):NA	RA Water-3 4A, Drainag Dry-Se: Saturat ots (C3) Geomo Shallow (6) FAC-Na A) Raised Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) / Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B7 Field Observations: Surface Water Present? Yes Water Table Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, methods)	d; check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR 4) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	RA Water-3 4A, Drainag Dry-Se Saturat ots (C3) Geomo Shallow (C3) FAC-Ne A) Raised Frost-H Wetland Hydrology F	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) / Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)

Project/Site: Newpo	rt Municipa	al Airport		City/County:	City of Newpo	rt		Sampling Date	e: 23-Se	o-2019
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poir	nt: 10)9
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	nship, Range	Sectio	n 29, To	wnship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (co	ncave, convex	, none):	concave	e <u></u> s	Slope (%):	5
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.593	3544	L	.ong: <u>-12</u> 4	1.04736	6 C	Datum: NAD8	3
Soil Map Unit Name	: 42C - N	lelscott loam, 3 to 12	percent slopes			NW	l classif	cation: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Remarka: Recorded precipitation in	nroviouo	mont		normal range			

Recorded precipitation in previous months was below normal range kemarks:

VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Status 30'R) Species? Number of Dominant Species 1. Alnus rubra 20 1 FAC That Are OBL, FACW, or FAC: 2. Total Number of Dominant 3. 4. Species Across All Strata: 20 = Total Cover Sapling/Shrub Stratum (Plot size: 30' R) Percent of Dominant Species That Are OBL, FACW, or FAC: 1. 100.00 (A/B) 2. Prevalence Index worksheet: 3. 4. Total % Cover of: Multiply by: OBL species x 1= 5. = Total Cover FACW species x 2= Herb Stratum (Plot size: 5'R) FAC species х З= 1. Carex obnupta 70 OBL 1 FACU species x 4= OBL 15 2. Lemna minor UPL species x 5= 3. Column Totals: (A) 4. 5. Prevalence Index = B/A = 6 Hydrophytic Vegetation Indicators: 1- Rapid Test For Hydrophytic Vegetation 7. X 2-Dominance Test is >50% 8. 3- Prevalence Index is $\leq 3.0^1$ 9. 4- Morphological Adaptations¹ (Provide supporting 10. 11.

11	85 = Total Cover	data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)		6- Problematic Hydrophytic Vegetation ¹ (Explain)
1		¹ Indicators of hydric soil and wetland hydrology must
2		be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum	= Total Cover	Hydrophytic Vegetation Yes X No Present?
Remarks:		

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(A)

(B)

(B)

2

2

0

Profile De	scription: (Describe	to the depth	needed to document	the indicate	or or con	firm the	e absence of inc	licators.)
Depth	Matrix		Rede	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10 yr 3/2	100					Sand loam	
6-12	10 yr 3/2	96	5 yr 4/6	4	<u> </u>	<u>M</u>	Sand loam	
12-16	2.5y 5/1	95	7.5 yr 6/6	5	С	М	Loam	
							<u> </u>	
							·	
							<u> </u>	
							·	
¹ Type: C=	Concentration, D=De	pletion, RM=F	educed Matrix, CS=C	overed or Co	ated Sar	nd Grain	is. ² Loo	cation: PL=Pore Lining, M=Matr
Hydric Soi	Indicators: (Applic	able to all LR	Rs, unless otherwise	e noted.)				Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muck	(A10)
Histic	Epipedon (A2)		Stripped Matrix (S6)				Red Parent	t Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) (exce	ot MLRA	. 1)	Very Shallo	ow Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix	x (F2)		-	Other (Exp	lain in Remarks)
	ed Below Dark Surfac	ce (A11) X	Depleted Matrix (F3)				、 '	
	Dark Surface (A12)		Redox Dark Surface	(F6)			³ Indicators of h	ydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa	ce (F7)			wetland hyd	drology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dist	urbed or problematic.
Restrictive	Layer (if present):							
Type:								
	(inches):		-		Hyd	ric Soil	Present? Ye	es X No
Remarks:			-		I			
Remaine.								
HYDROL	OGY							
	drology Indicators:							
	dicators (minimum of		check all that apply)				Secondarv	Indicators (2 or more required)
	e Water (A1)		Water-Stained Le	aves (B9) (e	xcept M			Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4					and 4B)
X Satura			Salt Crust (B11)	,			Drainag	e Patterns (B10)
	Marks (B1)		Aquatic Invertebr	ates (B13)				ason Water Table (C2)
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturati	on Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp	heres along	Living Ro	oots (C3) Geomor	phic Position (D2)
	Mat or Crust (B4)		Presence of Redu	uced Iron (C4	-)			Aquitard (D3)
	eposits (B5)		Recent Iron Redu		•	,		utral Test (D5)
	e Soil Cracks (B6)	(07)	Stunted or Stress		1) (LRR /	A)		Ant Mounds (D6) (LRR A)
	ation Visible on Aerial		Other (Explain in	Remarks)			Frost-He	eave Hummocks (D7)
Sparse	ely Vegetated Concav	e Sunace (Bo)					
	ervations:		V Danish (lie					
	ater Present? Yes Present? Yes			·				
Saturation						Wotla	nd Hydrology P	resent? Yes X No
	capillary fringe)	<u>,</u> IN		0100). <u>00110</u>		mena	ina riyarology P	
		m gauge, mon	itoring well, aerial pho	tos, previous	inspection	ons), if a	available	
Remarks:								

Project/Site: Newport Municipal Airport		City/County:	rt		Sampling Date	e: 23-Sej	o-2019			
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 11	10
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	nship, Range:	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (co	ncave, convex	, none):	none	S	Slope (%):	4
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.59	3527	L	ong: -124	1.04727	4 C	Datum: NAD8	3
Soil Map Unit Name	: 42C - N	lelscott loam, 3 to 12	percent slopes			NW	l classif	ication: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	X No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	Х	No
Remarka: Recorded precipitation in	n roviouo m	onthe we	a halaw narm				

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Picea sitchensis	45	1	FAC	That Are OBL, FACW, or FAC: 3 (A)
2.				(1)
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	45	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	5	1	FAC	That Are OBL, FACW, or FAC: 75.00 (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	5	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Plantago lanceolata	40	1	FACU	FACU species x 4=
2. Ranunculus repens	10		FAC	UPL species x 5=
3. Trifolium longipes	10		FAC	Column Totals: (A) (B)
4.				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	60	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	65	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	65	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

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Sampling Point: 110

Profile Description: (Describe to the dept	h needed to document the indicator or confirm th	e absence of indicators.)
Depth Matrix	Redox Features	,
		Tautura
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 yr 2/2 100		Silt loam
<u> </u>		
<u> </u>		
¹ Type: C-Concentration D-Depletion RM-	Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
		·
Restrictive Layer (if present):		
Type:		
Depth (inches):	Hydric Soil	I Present? Yes No X
	· · · · · · · · · · · · · · · · · · ·	
Remarks:		
Remarks:		
Remarks:		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:	t check all that apply)	Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required		Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stand Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B7) Sparsely Vegetated Concave Surface (B7) Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B7) Sparsely Vegetated Concave Surface (B7) Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes Gaturation Present? Yes Includes capillary fringe) Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B7) Sparsely Vegetated Concave Surface (B7) Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes Gaturation Present? Yes Includes capillary fringe) Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16 Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B7) Sparsely Vegetated Concave Surface (B7) Surface Water Present? Yes Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes Gaturation Present? Yes Includes capillary fringe) Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16 Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newport Municipal Airport			City/County:	City of New	port		Sampling Da	te: 23-Se	p-2019	
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Po	int: 1	11
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tov	vnship, Rang	ge: Secti	on 29, T	ownship 11 S,	Range 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (co	oncave, conv	ex, none):	concav	e	Slope (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.592	262		Long: -12	4.04742	9	Datum: NAD8	3
Soil Map Unit Name	: 42 E - N	Nelscott loam, 12 to 5	0 percent slopes			NV	/I classif	ication: none		
Are climatic / hydrol	ogic condi	ions on the site typic	al for this time of	year? Yes	No	X (lf n	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	sturbed?	Are "Norm	al Circum	stances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	ematic?	(If needed	, explain a	ny answ	ers in Remarks	5.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Demarka: Recorded precipitation in			halaura				

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Alnus rubra	85	1	FAC	That Are OBL, FACW, or FAC: 2 (A)
2.				
3.	·			Total Number of Dominant
4.	·			Species Across All Strata: 5 (B)
	85	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Sambucus racemosa	10	1	FACU	That Are OBL, FACW, or FAC: 40.00 (A/B)
2. Rubus parviflorus	10	1	FACU	
3. Gaultheria shallon	20	1	FACU	Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	40	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Polystichum munitum	20		FACU	FACU species x 4=
2				UPL species x 5=
3				Column Totals: (A) (B)
4.				
5.				Prevalence Index = $B/A = 0$
6.				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	20	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	5	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.	·			be present, unless disturbed or problematic.
	5	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				

US Army Corps of Engineers

Sampling Point: 111

Profile Description: (Des	cribe to the depth	needed to document	the indicate	or or cor	nfirm the	e absence of indic	ators.)
Depth Ma	atrix	Redo	x Features				
(inches) Color (mois		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16 7.5 yr 2.5/			70	туре	LUC	Silt loam	Remarks
0-16 7.5 yr 4/4						Silt loam	
0-10 7.5 yl 4/4	50					Siit Ioani	
						<u> </u>	
						·······	
						·······	
¹ Type: C=Concentration, I	D=Depletion, RM=F	educed Matrix, CS=Co	overed or Co	ated Sar	nd Grain	is. ² Loca	tion: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (A	plicable to all LR	Rs, unless otherwise	noted.)			Indicators for P	oblematic Hydric Soils ³ :
	-						
Histosol (A1)		Sandy Redox (S5)				2 cm Muck (#	
Histic Epipedon (A2)		Stripped Matrix (S6)				Red Parent M	
Black Histic (A3)		Loamy Mucky Minera	l (F1) (exce	ot MLRA	. 1)	Very Shallow	Dark Surface (TF12)
Hydrogen Sulfide (A4)	_	Loamy Gleyed Matrix	(F2)			Other (Explai	n in Remarks)
Depleted Below Dark S	urface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A1	2)	Redox Dark Surface ((F6)			3Indicators of hyd	rophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surfac	e (F7)			•	plogy must be present,
Sandy Gleyed Matrix (S	·	Redox Depressions (I					bed or problematic.
	<u> </u>		0)				
Restrictive Layer (if prese	nt)·						
Type: Depth (inches):		-		Hvd	Iric Soil	Present? Yes	No X
Deptil (inches).		_		iiya		Tresent: Tes	
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicat	ors:						
Primary Indicators (minimu		check all that apply)				Secondary In	dicators (2 or more required)
	in or one required,	Water-Stained Lea		voor M	_		
Surface Water (A1)				хсерг м	LKA		ined Leaves (B9) (MLRA 1, 2,
High Water Table (A2)		1, 2, 4A, and 4E)			4A, an	•
Saturation (A3)		Salt Crust (B11)	(D(0))				Patterns (B10)
Water Marks (B1)	、 、	Aquatic Invertebra					on Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide					Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Oxidized Rhizosph	-	-	bots ($C3$	· · ·	nic Position (D2)
Algal Mat or Crust (B4)		Presence of Redu		,			quitard (D3)
Iron Deposits (B5)		Recent Iron Redu		`	,		ral Test (D5)
Surface Soil Cracks (B	,	Stunted or Stresse		1) (LRR .	A)		t Mounds (D6) (LRR A)
Inundation Visible on A		Other (Explain in F	Remarks)			Frost-Hea	ve Hummocks (D7)
	ncave Surface (B8)					
Sparsely Vegetated Co				1			
Sparsely Vegetated Co Field Observations: Surface Water Present?	· · ·	o X Depth (Inc	hes): NA				
Field Observations: Surface Water Present?	Yes No						
Field Observations: Surface Water Present? Water Table Present?	Yes No	X Depth (Inc	hes): >16	3	Wetla	nd Hydrology Pre	sent? Yes No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No		hes): >16	3	Wetla	nd Hydrology Pre	sent? Yes <u>No X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes No	Depth (Inc X Depth (Inc Depth (Inc	hes): >16 hes): >16	6 6			sent? Yes <u>No X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No Yes No Yes No	Depth (Inc X Depth (Inc Depth (Inc	hes): >16 hes): >16	6 6			sent? Yes <u>No X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Yes No Yes No Yes No	Depth (Inc X Depth (Inc Depth (Inc	hes): >16 hes): >16	6 6			sent? Yes <u>No X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes No	Depth (Inc X Depth (Inc Depth (Inc	hes): >16 hes): >16	6 6			sent? Yes <u>No X</u>

Project/Site: Newpo	rt Municip	al Airport		City/County:	City of Newpo	rt		Sampling Date	e: 24-Se	p-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 1	12
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	vnship, Range:	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	etc.): Slope		Local relief (co	oncave, convex	, none):	Concav	e S	Slope (%):	4
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.592	243	L	ong: <u>-12</u> 4	1.04224	C	Datum: NAD8	3
Soil Map Unit Name	: 18G -	Fendall-Templeton silf	t loams, 35 to 60 j	percent slopes		NW	l classif	ication: Riverin	e	
Are climatic / hydrol	ogic cond	itions on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly dis	sturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally proble	ematic?	(If needed, e	xplain an	y answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Remarka: Recorded precipitation in	nroviouo	mont		normal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				
3				Total Number of Dominant
4				Species Across All Strata: 4 (B)
Sapling/Shrub Stratum (Plot size: 30' R)		= Total Cover		Percent of Dominant Species
1. Rubus spectabilis	20	1	FAC	That Are OBL, FACW, or FAC: 100.00 (A/B)
2.	20	<u> </u>	17.0	That Ale OBE, FACW, OF FAC. 100.00 (AVB)
3.				Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.	·		·	
5	20	= Total Cover		· · · · · · · · · · · · · · · · · · ·
Herb Stratum (Plot size: 5' R)	20			
1. Lysichiton americanus	15	1	OBL	· · · · · · · · · · · · · · · · · · ·
2. Athyrium cyclosorum	10	1	FAC	FACU species x 4=
3 Blechnum spicant	15	1	FAC	UPL species x 5=
· · · ·	15	I	FAC	Column Totals:(A)(B)
4 5				Prevalence Index = B/A = 0
•				—
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11		<u></u>		data in Remarks or on a separate sheet)
Weeder Vine Streture (Dist size 201 D)	40	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 40				Vegetation Yes X No
				Present?
Remarks: Covered in upland hemlock canopy				

US Army Corps of Engineers

Sampling Point: 112

								1.9
Profile Desc	ription: (Describe to	the depth	needed to documen	t the indicat	or or cor	firm the	e absence of indica	ators.)
Depth	Matrix		Red	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10 yr 3/2	100	· · · ·				Sandy loam	
6-16	10 yr 4/1	100					Silt loam	
¹ Type: C=C	oncentration, D=Deple	etion, RM=R	educed Matrix, CS=C	Covered or Co	bated Sar	nd Grain	s. ² Locat	ion: PL=Pore Lining, M=Matr
Hydric Soil Ir	ndicators: (Applicab	le to all LRI	Rs, unless otherwise	e noted.)			Indicators for Pr	oblematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S5)				2 cm Muck (A	(10)
	pipedon (A2)		Stripped Matrix (S6)				Red Parent M	
Black His	,		Loamy Mucky Miner		ot MLRA	(1)	Very Shallow	Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gleyed Matri			,	Other (Explain	
	Below Dark Surface	(A11)	Depleted Matrix (F3)	. ,				
·	ark Surface (A12)	()	Redox Dark Surface				3Indicators of hvdr	rophytic vegetation and
	lucky Mineral (S1)		Depleted Dark Surfa	()			-	plogy must be present,
Sandy G	leyed Matrix (S4)		Redox Depressions	(F8)			unless disturb	bed or problematic.
	, , ,			()				•
Restrictive L	ayer (if present):							
Туре:								
Depth (ir	nches):				Hyd	ric Soil	Present? Yes	<u> </u>
Remarks: S	Sandstone layer at 4 i	nches in som	e locations Strange	soils				
rionano. c			lo locatione. Ottaligo	Cono				
	o.v							
HYDROLO	GY							
Wetland Hyd	rology Indicators:							
Primary Indi	cators (minimum of or	ne required;	check all that apply)			_	Secondary Inc	dicators (2 or more required)
X Surface	Water (A1)		Water-Stained Le	eaves (B9) (e	xcept M	LRA	Water-Stai	ined Leaves (B9) (MLRA 1, 2,
X High Wa	ter Table (A2)		1, 2, 4A, and 4	B)			4A, and	d 4B)
X Saturatio	on (A3)		Salt Crust (B11)					Patterns (B10)
X Water M			Aquatic Invertebr	rates (B13)			<u> </u>	n Water Table (C2)
Sedimen	t Deposits (B2)		Hydrogen Sulfide					Visible on Aerial Imagery (C9)
	oosits (B3)		Oxidized Rhizosp	-	-	oots (C3)		ic Position (D2)
~	t or Crust (B4)		Presence of Red		'			quitard (D3)
	osits (B5)		Recent Iron Redu		``	,		ral Test (D5)
	Soil Cracks (B6) on Visible on Aerial Im	agen/(B7)	Stunted or Stress Other (Explain in			A)		t Mounds (D6) (LRR A) ve Hummocks (D7)
	Vegetated Concave	0,00,00		Remarks)			FIUSI-FIEA	
Opulation	Vegetated Contave							
Field Obser								
Surface Wat	-	X No		ches): 1				
Water Table	-	X No		ches):			a d Uhadaa 1 🛛 🗖	
Saturation P	-	X No	Depth (In	cnes):		wetla	nd Hydrology Pres	sent? Yes <u>X</u> No
(includes cap Describe Re			toring well opriol sho		inenacti	one) if a	wailable	
	corded Data (stream		tomig wen, aenai pro	nos, previous	mspection	JIIS), II 8		
Small narrow se Remarks:	ep that flows into strea	am						
Komurko.								

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Project/Site: Newpor	rt Municip	al Airport		City/County: City of Newport			Sampling Date	e: 24-Se	p-2019	
Applicant/Owner:	City of N	ewport				State:	OR	Sampling Poir	nt: 1	13
Investigator(s): Luke	Johnsor	and Amanda Brophy		Section, To	wnship, Rang	e: Sectio	on 29, T	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	etc.): Slope		Local relief (c	oncave, conv	ex, none):	None	S	Slope (%):	7
Subregion (LRR):	A2 - Wills	amette Valley	Lat: 44.592	2436		Long: -12	4.04221	7 C	Datum: NAD8	3
Soil Map Unit Name	: 18G -	Fendall-Templeton silt	loams, 35 to 60	percent slopes	S	NW	I classif	ication: Riverin	e	
Are climatic / hydrolo	ogic cond	itions on the site typic	al for this time of	year? Yes	No	X (If n	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	sturbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	ematic?	(If needed	, explain a	ny answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	х
Remarka: Reported presinitation in	n nroviouo ma	onthe wor	holownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	70	1	FACU	That Are OBL, FACW, or FAC: 1 (A)
2.		·		
3.	·			Total Number of Dominant
4.	·			Species Across All Strata: 5 (B)
	70	= Total Cover		()
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Sambucus racemosa	10	1	FACU	That Are OBL, FACW, or FAC: 20.00 (A/B)
2. Vaccinium parvifolium	20	1	FACU	
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	30	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Blechnum spicant	10	1	FAC	FACU species x 4=
2. Athyrium cyclosorum	5		FAC	UPL species x 5=
3. Polystichum munitum	20	1	FACU	Column Totals: (A) (B)
4.	·			
5.	·			Prevalence Index = $B/A = 0$
6.				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.	·			data in Remarks or on a separate sheet)
· · · ·	35	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.	·			be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				

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Profile Description: (Describe to the	depth needed to document the indicator of	or confirm the	e absence of indica	tors.)
Depth Matrix	Redox Features			
(inches) Color (moist)	% Color (moist) % T	ype ¹ Loc ²	Texture	Remarks
	100 Duff		Duff	
11-16 7.5 yr 4/1	100		Clay loam	
			·	
			<u> </u>	
¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, CS=Covered or Coate	ed Sand Grain	ns. ² Locatio	on: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)		Indicators for Pro	blematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A1	0)
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Ma	aterial (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except I	MLRA 1)	Very Shallow D	Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain	in Remarks)
Depleted Below Dark Surface (A11	Depleted Matrix (F3)			
Thick Dark Surface (A12)	Redox Dark Surface (F6)		•	pphytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		-	ogy must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbe	ed or problematic.
Restrictive Layer (if present):				
Type:				
Depth (inches):		Hydric Soil	Present? Yes	<u> </u>
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one red	quired; check all that apply)		Secondary Ind	icators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (exce	ept MLRA	Water-Stair	ned Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)		4A, and	4B)
Saturation (A3)	Salt Crust (B11)			atterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)			Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)			/isible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4)	ing Roots (C3)Geomorphi Shallow Aqu	c Position (D2)
Iron Deposits (B5)	Recent Iron Reduction in Tilled S	oils (C6)	FAC-Neutra	· · ·
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (. ,		Mounds (D6) (LRR A)
Inundation Visible on Aerial Imager		, , , , , , , , , , , , , , , , , , ,		e Hummocks (D7)
Sparsely Vegetated Concave Surfa	ce (B8)			
Field Observations:				
Surface Water Present? Yes	No X Depth (Inches): NA	_		
Water Table Present? Yes	No X Depth (Inches): >16	-		
Saturation Present? Yes	No X Depth (Inches): >16	- Wetla	nd Hydrology Pres	ent? Yes <u>No X</u>
(includes capillary fringe)	e, monitoring well, aerial photos, previous ins	spections) if a	available	
	יוויטיטא איזאין איזא איזא איזאין איזאיזאין איזאיזאין איזאיזאין איזאיזאין איזאיזאין איזאיזאין איזאיזאין איזאיזא			
Romorko:				
Remarks:				

Project/Site: Newpor	Project/Site: Newport Municipal Airport			City/County: City of Newport			Sampling Dat	te: 24-S	ep-2019			
Applicant/Owner:	City of Ne	ewport					State:	OR	Sampling Poi	int:	114	
Investigator(s): Luke	Johnson	and Amanda Brophy		Section,	Township, Ra	nge:	Sectio	n 29, To	ownship 11 S, I	Range 11 S		
Landform (hillslope,	terrace, e	etc.): Slope		Local relie	f (concave, co	nvex,	none): I	None		Slope (%):	7	
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.591	1879		Lo	ong: -124	.04268	9 I	Datum: NAD	083	
Soil Map Unit Name	: 18G -	Fendall-Templeton silt	loams, 35 to 60	percent slo	ppes		NW	classif	ication: none			
Are climatic / hydrolo	ogic cond	itions on the site typica	al for this time of	year? Y	res No	Х	(lf no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "No	rmal (Circumst	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally probl	lematic?	(If need	ed, ex	plain an	y answ	ers in Remarks	5.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarka: Recorded precipitation in		nthe wor	holown	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	40	1	FACU	That Are OBL, FACW, or FAC: 3	(A)
2.					()
3.				Total Number of Dominant	
4.				Species Across All Strata: 6	(B)
	40	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	30	1	FAC	That Are OBL, FACW, or FAC: 50.00 (A/B)
2. Vaccinium parvifolium	10		FACU		
3. Gaultheria shallon	15	1	FACU	Prevalence Index worksheet:	
4. Menziesia ferruginea	1		FACU	Total % Cover of: Multiply by:	
5				OBL species x 1=	
	56	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Blechnum spicant	10	1	FAC	FACU species x 4=	
2. Athyrium cyclosorum	5	1	FAC	UPL species x 5=	
3. Polystichum munitum	20	1	FACU	Column Totals: (A) (A)	B)
4				、	
5				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				2- Dominance Test is >50%	
9.				3. Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide supp	orting
11.				data in Remarks or on a separate sheet)	-
	35	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Expla	ain)
1				¹ Indicators of hydric soil and wetland hydrology	must
2.				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes No X	c l
				Present?	<u> </u>
Remarks:					

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Dupp Marrix Redox Features Inchesis Color (moist) % Type Loam Wind mixed in 6:16 7.5yr 2.5/2 100	Profile Description: (Describe to the	e depth needed to document the indi	cator or confirm the	e absence of ir	ndicators.)
0-5 7.5yr 2.5/3 100					
6 -16 7 , 59/2-5/2 100 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1 -Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histice Epipedon (A2) Black Histic (A3) Learny Glayed Matrix (S6) Black Histic (A3) Learny Glayed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Trick Dark Surface (A11) Depleted Dark Surface (F6) Trick Dark Surface (A12) Red X Dark Surface (F6) Trick Dark Surface (A12) Red X Dark Surface (F7) Urless disturbed or problematic: Restrictive Layer (if present): Type: Type: Type: Type: Type: Type: Type: Type: Type: Type: Type: Type: Type: Type: Type: Ty			Type' Loc ²	-	
Image: Secondary Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histic Epipodon (A2) Sandy Rodox (S5) Black Histic (A3) Loamy Glegoed Matrix (F2) Depleted Batw Dark Surface (A11) Depleted Matrix (F2) Depleted Batw Dark Surface (A12) Redox Dark Surface (F6) Sandy Modey Mineral (F1) Depleted Dark Surface (F7) Tribic Dark Surface (A12) Redox Dark Surface (F7) Sandy Modey Mineral (F3) Depleted Dark Surface (F7) Type:					wood mixed in
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histos (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:	<u> </u>			Gand Ioann	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histos (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histos (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histos (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histos (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and wetiand hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Depleted Hark Surface (F6) Water Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Secondary Indicators (2 or more required) Surface Water (A1) Galar Stained Leaves (B9) (except MLRA 1) Depleted Bark Surface (F12) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Surface Water (A1) Sait Crust (B11) Sait Crust (B13) Depleted Surface (F12) Sait antion (A3) Surface (F12) Other (Explain in Remarks (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Saituration Nisble on Aerial Imagery (C9) Saituration Nisble on Aerial Imagery (C9) Saituration Nisble on Aerial Imagery (C9) Saituration Nisble on Aerial Image					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histos (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and wetiand hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No X Type: Depleted Hark Surface (F6) Water Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Secondary Indicators (2 or more required) Surface Water (A1) Galar Stained Leaves (B9) (except MLRA 1) Depleted Bark Surface (F12) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Surface Water (A1) Sait Crust (B11) Sait Crust (B13) Depleted Surface (F12) Sait antion (A3) Surface (F12) Other (Explain in Remarks (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Saituration Nisble on Aerial Imagery (C9) Saituration Nisble on Aerial Imagery (C9) Saituration Nisble on Aerial Imagery (C9) Saituration Nisble on Aerial Image	· · ·				
Histosol (A1)			r Coated Sand Grain		
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: No <x< td=""> No<x< td=""> Primary Indicators (minimum of one required; check all that apply) Saled Cwats (B11) Secondary Indicators (2 or more required) Surface Water (A1) -1, 2, 4A, and 4B) Sale Crust (B11) Depted fails apply) Sediment Deposits (B2) -1, 2, 4A, and 4B) Dary Second Present (B10) Saturation (A3) Sale Crust (B11) Diversent on (C1) Water Marks (B1) Aquatic Invertebrates (B13) Saturation Visible on Aetial Imagery (C2) Sufface Soli Cracks (B6) Crust B(A) Presence of Reduced Iron (C4) Priseare Soli Cracks (B6) Secont Iron Reduction in Tilled Solis (C6) Saturation Visible on Aetial Imagery (C2) Sufface Water Vegetated Conceve Surface (B8) Coent Iron Reduction in C1)(LRR A) Foct-Neutral Test (D5) Surface Water Present? Y</x<></x<>					-
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Suffide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Bark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type:					, ,
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: Hydric Soil Present? Yes No X Remarks: Primary Indicators (Ininimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Salt Crust (B11) Aquatic Invertebrates (B13) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Presence of Reduced Iron (C4) Presence of Reduced Iron (C4) FAC-Neutral Test (D5) Saturation Visible on Aerial Imagery (C9) Geomorphic Positin (D2) Shatire (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Presence Reduced Iron (C4) Staturation Visible on Aerial Imagery (C9) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Frost-Heave Hummocks (D7) Frost-Heave					, ,
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depleted Dark Surface (F7) Indicators (2 or more required) Type: Depth (inches): Hydric Soil Present? Yes No X Remarks: Secondary Indicators (2 or more required)			xcept MLRA 1)		
Thick Dark Surface (A12) Redox Dark Surface (F6) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (If present): Type:				Other (Ex	plain in Remarks)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: Hydric Soil Present? Yes No X Remarks: Hydric Soil Present? Yes No X Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Mater-Stained Leaves (B9) (mLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B1) Saturation (A3) Sati Crust (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10) Drainage Patterns (B10) Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Drainage Patterns (B10) Water Stained Leaves (B3) Oxidized Rhizospheres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Dift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Satilow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No Depth (Inches): <u>> 16</u>		/		3Indicators of	hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present):					, , , ,
Restrictive Layer (if present): Type:					
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)					
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Water Table Present? Yes No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 (includes capillary fringe) Ves No X Depth (Inches): >16 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Ves No X					
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(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available					Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available		No <u>x</u> Depth (inches).	Vella	ind Hydrology	
Remarks:		ge, monitoring well, aerial photos, previ	ous inspections), if a	available	
Kemarks:					

Project/Site: Newport Municipal Airport				City/County:	rt		Sampling Date	e: 24-Se	o-2019	
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poir	nt: 1 [.]	15
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	nship, Range	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	etc.): terrace		Local relief (co	ncave, conve	k, none):	Concav	e S	Slope (%):	4
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.58	4943	L	ong: <u>-12</u> 4	.05021	7 <u></u> C	Datum: NAD8	3
Soil Map Unit Name	: 14B - D	Depoe loam, 0 to 7 pe	rcent slopes			NW	l classif	ication: none		
Are climatic / hydrol	ogic cond	itions on the site typic	al for this time o	f year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly c	listurbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	plematic?	(If needed, e	explain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Pomarka: Popardad proginitation in	o provioue	mont	ha waa halaw norm	al rango			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
	% Cover	Species?	FACU	Number of Dominant Species
1. Tsuga heterophylla	60		FACU	That Are OBL, FACW, or FAC: (A)
23				Total Number of Dominant
				Species Across All Strata: 3 (B)
4				Species Across All Strata. 5 (B)
Sapling/Shrub Stratum (Plot size: 30' R)	60	= Total Cover		Percent of Dominant Species
1. Rubus spectabilis	40	1	FAC	
2.	40		FAC	That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
3.				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
 5.				
o	40	= Total Cover		· · · · · · · · · · · · · · · · · · ·
Herb Stratum (Plot size: 5' R)	40			
1 Lysichiton americanus	15	1	OBL	
2.	15		OBL	FACU species x 4=
				UPL species $x = $
3				Column Totals:(A)(B)
4 5.				Prevalence Index = B/A = 0
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
0				X 2- Dominance Test is >50%
				3- Prevalence Index is ≤3.0 ¹
9 10.				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
11. <u></u>	15	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 50				Vegetation Yes X No
				Present?
Remarks:				
Remarks.				

US Army Corps of Engineers

• • • • • • • • • • • • • • • • • • • •	h needed to document the	e indicator o	or confi	irm the	e absence of in	dicators.)
Depth Matrix	Redox F	eatures				
(inches) Color (moist) %	Color (moist)	% Ту	ype ¹	Loc ²	Texture	Remarks
0-5 10 yr 2/2 100	7.5				Sandy loam	Manuarati
5-16 10 yr 4/3 98	7.5 yr 5/6	2	С	PI	Sandy loam	Very sandy
¹ Type: C=Concentration, D=Depletion, RM:	Reduced Matrix, CS=Cove	red or Coate	ed Sand	d Grain	s. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise no	ted.)			Indicators fo	r Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muc	k (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F	1) (except I	MLRA 1	1)	Very Shal	low Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F	2)			Other (Ex	plain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A12)	Redox Dark Surface (F6	,				hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (,				ydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	1			unless dis	turbed or problematic.
Restrictive Layer (if present):						
Туре:						
Depth (inches):	_		Hydri	ic Soil	Present?	Yes <u>X</u> No
Remarks:						
HYDROLOGY						
HYDROLOGY Wetland Hydrology Indicators:						
	d; check all that apply)				Secondar	y Indicators (2 or more required)
Wetland Hydrology Indicators:	d; check all that apply) Water-Stained Leave	es (B9) (exce	ept MLF	RA		y Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2 ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one require X Surface Water (A1) X High Water Table (A2)		es (B9) (exce	ept MLF	RA	Water	· · · ·
X Surface Water (A1) X High Water Table (A2) X Saturation (A3)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11)		ept MLF	RA	Water- 4A, Draina	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates	s (B13)	ept MLF	RA	Water- 4A, Draina Dry-Se	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od	s (B13) or (C1)	-		Water- 4A, Draina Dry-Se Satura	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher	s (B13) or (C1) es along Livi	-		Water- 4A, Draina Dry-Se Satura	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced	s (B13) or (C1) es along Livi d Iron (C4)	ing Roo	ots (C3)	Water- 4A, Draina Dry-Se Satura Geome Shallou	Stained Leaves (B9) (MLRA 1, 2 , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher	s (B13) or (C1) es along Livi d Iron (C4) on in Tilled So	ing Roo Soils (C6	ots (C3)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduces Recent Iron Reductio Stunted or Stressed	s (B13) or (C1) es along Livi d Iron (C4) on in Tilled So Plants (D1) (ing Roo Soils (C6	ots (C3)	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2 , and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduces Recent Iron Reductio Stunted or Stressed Other (Explain in Ref	s (B13) or (C1) es along Livi d Iron (C4) on in Tilled So Plants (D1) (ing Roo Soils (C6	ots (C3)	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduces Recent Iron Reductio Stunted or Stressed Other (Explain in Ref	s (B13) or (C1) es along Livi d Iron (C4) on in Tilled So Plants (D1) (ing Roo Soils (C6	ots (C3)	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reductio Stunted or Stressed Other (Explain in Ref 38)	s (B13) or (C1) es along Livi d Iron (C4) on in Tilled So Plants (D1) (marks) s):s	ing Roo Soils (C6	ots (C3)	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes X Water Table Present?	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reductio Stunted or Stressed Other (Explain in Ref 38) No Depth (Inche No Depth (Inche	s (B13) or (C1) es along Livi d Iron (C4) n in Tilled So Plants (D1) (narks) s):6	ing Roo Goils (C6 (LRR A)	ots (C3) 5))	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raisec Frost-F	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B7) Surface Water Present? Yes X Yes X Water Table Present? Yes X Saturation Present? Yes	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reductio Stunted or Stressed Other (Explain in Ref 38)	s (B13) or (C1) es along Livi d Iron (C4) n in Tilled So Plants (D1) (narks) s):6	ing Roo Goils (C6 (LRR A)	ots (C3) 5))	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raisec Frost-F	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B7 Surface Water Present? Yes X Water Table Present? Yes X Saturation Present? Yes (includes capillary fringe) X	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduce Recent Iron Reductio Stunted or Stressed Other (Explain in Rei 38) No Depth (Inche No Depth (Inche	s (B13) or (C1) es along Livi d Iron (C4) n in Tilled S Plants (D1) (narks) s):	ing Roo Goils (C6 (LRR A)	ots (C3) 3)) Wetlar	Water- 4A, Draina Dry-Se Satura Geomo FAC-N FAC-N Raiseo Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B7) Surface Water Present? Yes X Yes X Water Table Present? Yes X Saturation Present? Yes	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduce Recent Iron Reductio Stunted or Stressed Other (Explain in Rei 38) No Depth (Inche No Depth (Inche	s (B13) or (C1) es along Livi d Iron (C4) n in Tilled S Plants (D1) (narks) s):	ing Roo Goils (C6 (LRR A)	ots (C3) 3)) Wetlar	Water- 4A, Draina Dry-Se Satura Geomo FAC-N FAC-N Raiseo Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require X Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes X Water Table Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, model)	Water-Stained Leave 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduce Recent Iron Reductio Stunted or Stressed Other (Explain in Rei 38) No Depth (Inche No Depth (Inche	s (B13) or (C1) es along Livi d Iron (C4) n in Tilled S Plants (D1) (narks) s):	ing Roo Goils (C6 (LRR A)	ots (C3) 3)) Wetlar	Water- 4A, Draina Dry-Se Satura Geomo FAC-N FAC-N Raiseo Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Project/Site: Newport	Municipal A	irport		City/Co	unty: N	lewport			Sampling Da	ate:	24-Sep-	2019
Applicant/Owner: C	ity of Newp	ort					State	OR	Sampling Po	pint:	116	1
Investigator(s): L. Joh	nson, A. Bro	ophy		Section	n, Town	ship, Rang	e: Sect	ion 29, T	ownship 11 S,	Range	11 S	
Landform (hillslope, te	errace, etc.)	terrace		Local rel	ief (con	cave, conv	ex, none)	: Conca	/e	Slope (%):	0
Subregion (LRR): A	2 - Willame	ette Valley	Lat:	44.5849481167	,		Long: -1	24.05023	31017	Datum	NAD83	
Soil Map Unit Name:	Depoe loa	m, 0 to 7 percent slo	pes				N	VI classi	fication: none			
Are climatic / hydrolog	gic condition	s on the site typical	for this t	ime of year?	Yes	No	X (If	no, expla	in in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?		Are "Norm	al Circum	stances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturall	y problematic?		(If needed	, explain ;	any answ	ers in Remark	s.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х	
Remarks: Recorded precipitation in	n previous mo	onths was	below r	mal range				

Recorded precipitation in previous months was below normal range

Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile Within seasonal drainage, no hydrology.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 10m R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2.				
3				Total Number of Dominant
4				Species Across All Strata: 6 (B)
		= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Rubus parviflorus	15	<u> </u>	FACU	That Are OBL, FACW, or FAC: 50.00 (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5. Cytisus scoparius	40	Х	NL	OBL species x 1=
	55	= Total Cover		FACW species 70 x 2= 140
Herb Stratum (Plot size: 3m R)				FAC species 90 x 3= 270
1. Phalaris arundinacea	70	<u> </u>	FACW	FACU species 25 x 4= 100
2. Plantago lanceolata	10	X	FACU	UPL species x 5=
3. Agrostis capillaris	30	X	FAC	Column Totals: <u>185</u> (A) <u>510</u> (B)
4				
5				Prevalence Index = $B/A = 2.76$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				X 3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	110	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	60	Х	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	60	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum		-		Vegetation Yes No X
				Present?
Remarks:				

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Profile Description: (Describe to the dep	oth needed to document t	he indicato	or or con	firm the	absence of indic	cators.)
Depth Matrix		<pre>K Features</pre>				Jucology
			Turne ¹	Loc ²	Texture	Domorko
(inches) Color (moist) % 0-4 10 yr 3/3 100	Color (moist)	%	Type ¹	LOC	Silt loam	Remarks
4-16 10 yr 3/3 95	7.5 yr 5/8	5	С	М	Sandy loam	
	110 91 0/0				Canay Ican	
¹ Type: C=Concentration, D=Depletion, RM	I=Reduced Matrix, CS=Co	vered or Co	ated Sar	nd Grain	s. ² Loca	tion: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise	noted.)			Indicators for P	roblematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muck (A	A10)
Histic Epipedon (A2)	Stripped Matrix (S6)					Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral	(F1) (exce r		1)		Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix			''		in in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	(1 2)				in in Kemarkay
Thick Dark Surface (A12)	Redox Dark Surface (F6)			3Indicators of hyd	Irophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface	,				ology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F	. ,				bed or problematic.
		0)				
Restrictive Layer (if present):						
Туре:						
Depth (inches):			Hyd	ric Soil	Present? Yes	s <u>No X</u>
Remarks: Soils are moist and not satura	ted Soils in adjacent area	are narts of	a distur	ned stop	knile	
Remarks. Obis are moist and not satura		are parts of	austur		Rplie	
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	ed; check all that apply)			_	Secondary Ir	ndicators (2 or more required)
Surface Water (A1)	Water-Stained Lea	ives (B9) (e	cept MI	RA	Water-Sta	ained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)			4A, ar	nd 4B)
Saturation (A3)	Salt Crust (B11)					Patterns (B10)
Water Marks (B1)	Aquatic Invertebra					on Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide (N Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizosph	-	-	ots (C3)		hic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduc	•	,			quitard (D3)
					FAC-Neu	tral Test (D5)
Iron Deposits (B5)	Recent Iron Reduc			·	- Beieed A	at Mounda (DG) (LDD A)
Surface Soil Cracks (B6)	Stunted or Stresse	d Plants (D		·		nt Mounds (D6) (LRR A)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B	Stunted or Stresse 7) Other (Explain in R	d Plants (D		·		nt Mounds (D6) (LRR A) ave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface	Stunted or Stresse 7) Other (Explain in R	d Plants (D		·		
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations:	Stunted or Stresse 7) Other (Explain in R (B8)	d Plants (D Remarks)	1) (LRR /	·		
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes	Stunted or Stresse 7) Other (Explain in R (B8) No X Depth (Incl	d Plants (D Remarks) nes): NA	1) (LRR /	·		
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes	Stunted or Stresse 7)Other (Explain in R (B8) NoX Depth (Inch NoX Depth (Inch	d Plants (D Remarks) nes): NA nes): >16	1) (LRR)	A)	Frost-Hea	ave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Stunted or Stresse 7) Other (Explain in R (B8) No X Depth (Incl	d Plants (D Remarks) nes): NA nes): >16	1) (LRR)	A)		ave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Stunted or Stresse 7) Other (Explain in R (B8) No X Depth (Inch No X Depth (Inch No X Depth (Inch	d Plants (D Remarks) nes): NA nes): >16 nes): >16	1) (LRR)	A) Wetla	Frost-Hea	ave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Stunted or Stresse 7) Other (Explain in R (B8) No X Depth (Inch No X Depth (Inch No X Depth (Inch	d Plants (D Remarks) nes): NA nes): >16 nes): >16	1) (LRR)	A) Wetla	Frost-Hea	ave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Stunted or Stresse 7) Other (Explain in R (B8) No X Depth (Inch No X Depth (Inch No X Depth (Inch nonitoring well, aerial photo	d Plants (D Remarks) nes): NA nes): >16 nes): >16	1) (LRR)	A) Wetla	Frost-Hea	ave Hummocks (D7)

Project/Site: Newpor	t Municipal A	irport		City/County:	Newport			Sampling Date	e: 24-Sep	-2019
Applicant/Owner:	City of Newp	ort		-		State:	OR	Sampling Poir	nt: SP11	7B
Investigator(s): A. Br	ophy			Section, Tow	nship, Range:	Sectio	n 29, To	wnship 11 S, F	Range 11 S	
Landform (hillslope, t	terrace, etc.)	: hillslope		Local relief (co	ncave, convex	(, none):	Concav	e S	Slope (%):	1
Subregion (LRR):	A2 - Willame	ette Valley	Lat: 44.589	9559	L	.ong: <u>-12</u> 4	.04459	C	Datum: NAD83	
Soil Map Unit Name:	Nelscott lo	am, 12 to 50 perce	ent slopes			NW	classifi	cation: none		
Are climatic / hydrolo	gic condition	is on the site typica	I for this time of	year? Yes	No X	(lf no	, explaiı	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Demontra: Deserved presinitation i							

Recorded precipitation in previous months was below normal range Remarks:

VEGETATION – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 10m R) % Cover Species? Status Number of Dominant Species 1. Tsuga heterophylla 80 Х FACU That Are OBL, FACW, or FAC: 40 2. Alnus rubra Х FAC Total Number of Dominant 3. 4. Species Across All Strata: 120 = Total Cover Sapling/Shrub Stratum (Plot size: 5m R) Percent of Dominant Species 1. Rubus spectabilis 10 FAC Х That Are OBL, FACW, or FAC: 2. Vaccinium parvifolium 10 Х FACU 3. Gaultheria shallon trace FACU Prevalence Index worksheet: 4. Total % Cover of: Multiply by: OBL species x 1= 5. 20 = Total Cover FACW species x 2= Herb Stratum (Plot size: 3m R) FAC species x 3= 1. Athyrium cyclosorum 5 FAC FACU species x 4= 15 OBL 2. Lysichiton americanus Х UPL species x 5= 3. Oenanthe sarmentosa 10 Х OBL Column Totals: (A) 4 5. Prevalence Index = B/A = 6. Hydrophytic Vegetation Indicators: 1- Rapid Test For Hydrophytic Vegetation 7. X 2- Dominance Test is >50% 8

% Bare Ground in Herb Stratum	= Total Cover	Hydrophytic Vegetation Yes <u>X</u> No Present?
2		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: R)		6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
11	30 = Total Cover	data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants ¹
10		4- Morphological Adaptations ¹ (Provide supporting
9.		3- Prevalence Index is ≤3.0 ¹

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~ ¬

4

6

66.67

0

(A)

(B)

(A/B)

(B)

Sampling Point: SP117B

Profile Description: (Describe to the dep	h needed to document the indicator or c	onfirm the a	bsence of in	dicators.)
	Redox Features			
		1 . 2		
(inches) Color (moist) %	Color (moist) % Type		Texture	Remarks
0-16 10YR 2/1 100		3	lit loam	mucky, high organics
1			2.	
	=Reduced Matrix, CS=Covered or Coated S			cation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all I	.RRS, unless otherwise noted.)	11	idicators to	r Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muc	k (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Pare	nt Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLF	RA 1)	Very Shal	low Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	-	Other (Ex	plain in Remarks)
Depleted Below Dark Surface (A11)	X Depleted Matrix (F3)	_		
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3	ndicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland h	/drology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless dis	turbed or problematic.
Restrictive Layer (if present):				
Туре:				
Depth (inches):	Hy	ydric Soil Pr	esent?	res <u>X</u> No
Remarks ¹				
Remarks:				
Remarks:				
Remarks: HYDROLOGY				
HYDROLOGY	d; check all that apply)		Secondar	y Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators:	d; check all that apply) Water-Stained Leaves (B9) (except l	MLRA		y Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)		MLRA	Water-	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	Water-Stained Leaves (B9) (except	MLRA	Water- 4A,	Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)	MLRA	Water- 4 A , Draina	Stained Leaves (B9) (MLRA 1, 2, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3)	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11)	MLRA	Water- 4A, Draina Dry-Se	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)		Water- 4A, Draina Dry-Se Satura	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1)		Water- 4A, Draina Dry-Se Satura Geomo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living 1 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Roots (C3) (C6)	Water- 4 A , Draina Dry-Se Satura Geomo Shallov FAC-N	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR	Roots (C3) (C6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)	Roots (C3) (C6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)	Roots (C3) (C6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)	Roots (C3) (C6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (minimum of the state of	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks)	Roots (C3) (C6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (Intervence) Field Observations:	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI) Other (Explain in Remarks) 38)	Roots (C3) (C6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (1) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Xaturation Present? Yes	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI) Other (Explain in Remarks) 38)	Roots (C3) (C6) R A)	Water- 4A, Draina Dry-Se Satura Geomo FAC-N Raiseo Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (1) Field Observations: Surface Water Present? Yes Water Table Present? Yes Xaturation Present? Yes Xuration Present? Yes Xuration Present? Yes Xuration Present? Yes Xuration Present? Yes	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No Depth (Inches): surface	Roots (C3) (C6) R A) Wetland	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raisec Frost-F	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (1) Field Observations: Surface Water Present? Yes Water Table Present? Yes Xaturation Present? Yes Xuration Present? Yes Xuration Present? Yes Xuration Present? Yes Xuration Present? Yes	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16	Roots (C3) (C6) R A) Wetland	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raisec Frost-F	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (0) Field Observations: Surface Water Present? Yes Water Table Present? Yes Xaturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Xaturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Saturation Present? Yes Xaturation Present? <t< td=""><td>Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No Depth (Inches): surface</td><td>Roots (C3) (C6) R A) Wetland</td><td>Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raisec Frost-F</td><td>Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)</td></t<>	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No Depth (Inches): surface	Roots (C3) (C6) R A) Wetland	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raisec Frost-F	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (1) Field Observations: Surface Water Present? Yes Water Table Present? Yes Xaturation Present? Yes Xuration Present? Yes Xuration Present? Yes Xuration Present? Yes Xuration Present? Yes	Water-Stained Leaves (B9) (except 1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRI Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16 No Depth (Inches): surface	Roots (C3) (C6) R A) Wetland	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raisec Frost-F	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Project/Site: Newport Municipal Airport				City/County: Newport				Sampling Date	e: 24-Sej	o-2019
Applicant/Owner:	City of Nev	wport				State:	OR	Sampling Poir	nt: 11	7A
Investigator(s): L. Johnson, A. Brophy				Section, Township, Range: Section 29, Township 11 S, Range 1					ange 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (co	oncave, convex	, none):	Concave	e S	Slope (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.591	1423	L	ong: -124	.04759	C	atum: NAD8	3
Soil Map Unit Name:	Nelscott	loam, 12 to 50 perc	ent slopes			NW	classifi	cation: none		
Are climatic / hydrold	ogic conditi	ons on the site typic	al for this time of	year? Yes	No X	(If no	, explair	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Demontra: Depended presinitation i							

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 10m R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Frangula purshiana	55	Х	FAC	That Are OBL, FACW, or FAC:	3 (A)
2.					```
3.				Total Number of Dominant	
4.				Species Across All Strata:	6 (B)
	55	= Total Cover			
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species	
1. Vaccinium parvifolium	15	Х	FACU	That Are OBL, FACW, or FAC:	50.00 (A/B)
2. Rubus spectabilis	5	X	FAC		
3. Sambucus racemosa	5	Х	FACU	Prevalence Index worksheet:	
4				Total % Cover of: N	lultiply by:
5					
	25	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 3m R)				FAC species 65 x 3=	195
1. Polystichum munitum	5	X	FACU	FACU species 25 x 4=	100
2. Athyrium cyclosorum	5	Х	FAC	UPL species x 5=	
3				Column Totals: 90 (A)	295 (B)
4.					
5				Prevalence Index = B/A =	<u>3.28</u>
6				Hydrophytic Vegetation Indicator	rs:
7				1- Rapid Test For Hydrophytic	/egetation
8				2- Dominance Test is >50%	
9				3- Prevalence Index is $\leq 3.0^{1}$	
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a sepa	arate sheet)
	10	= Total Cover		5- Wetland Non-Vascular Plant	
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Veg	jetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetla	nd hydrology must
2.				be present, unless disturbed or pre-	oblematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes	No X
				Present?	•
Remarks:				1	

US Army Corps of Engineers

Depth Matrix Redox Features (inches) Color (moist) % Type ¹ Loc ² 5-5 10 yr 221 99 5 yr 34 1 C M Sill team Sandatone flecks 5-16 10 yr 221 99 5 yr 34 1 C M Sill team Sandatone flecks 5-16 10 yr 221 99 5 yr 34 1 C M Sill team Sandatone flecks 1 Type: C-concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. *Location: PL-Pore Lining, M-MAtri Hydric Soil Indicators: Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:	Profile Description: (Describe to the dept	h needed to document	the indicate	or or con	firm the	e absence of ir	ndicators.)
0-5 10 yr 27 99 5 yr 3/4 1 C M Silt barn Sandstone flecks -5-16 10 yr 27 99 5 yr 3/4 1 C M Silt barn Sandstone flecks	Depth Matrix	Redo	ox Features				
⁶ -16 ¹⁰ yr 2/1 ¹⁰ yr 2/1 ¹⁰ yr 2/1 ¹⁰ yr 2/1 ¹¹ yr 2/1		Color (moist)	%	Type ¹	Loc ²		Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histesel (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:		5 yr 3/4	1	С	М		Sandstone flecks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histesel (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histesel (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histesel (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histesel (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histesel (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:	¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=C	overed or Co	bated Sar	nd Grain	s. ² L	ocation: PL=Pore Lining, M=Matr
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TT12) Hydrogen Sulfide (A4) Depleted Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: Depleted Matrix (S4) Redox Depressions (F8) Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Mydre Soil Present? Yes No X Saturation (A3) Saturation (A3) Saturation (A49) Saturation (A49) Saturation (A49) Day-Season Water Table (C2) Saturation (A61) Day-Season Water Table (C2) Saturation (C2) Shallow Aquitard (C3)							
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Suffice (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type:	Histosol (A1)	Sandy Redox (S5)				2 cm Muc	sk (A10)
Hydrogen Sulfide (A4) Learny Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: No X Depth (inches): Hydric Soil Present? Yes No X Remarks: Wetland Hydrology Indicators: No X AA, and 4B) Saturation (A3) Salt Crust (B11) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10) Draveson Water Table (C2) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Fac-Meutral Test (D5) Saturation Visible on Aerial Imagery (C9) Startace Water Freesen? Yes No X Eecondary Indicators (D7) Drainage Patterns (B10) Apatter Rhizospheres along Living Roots (C3) Fac-Meutral Test (D5) Saturation Visible on Aerial Imagery (C9)	Histic Epipedon (A2)						· · · ·
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type:				pt MLRA	.1)		
Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (If present): Type: No X Type: Peptersons (F8) Hydric Soil Present? Yes No X Remarks: Primary Indicators (Innimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Depletion (Innimum of one required): Invertibrates (B13) Secondary Indicators (2 or more required) Water Ataks (B1) Aquatic Invertebrates (B13) Depletion (C1) Drainage Patterns (B10) Saturation Visible on Aerial Imagery (C3) Saturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Frost-Heave Hummocks (D7) Saturation Present? Y			(F2)			Other (Ex	plain in Remarks)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: hydric Soil Present? Yes No X Remarks: Hydric Soil Present? Yes No X Primary Indicators (innimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (mLRA 1, 2, 4A, and 4B) Surface Water (A1) Salt Crust (B1) Water-Stained Leaves (B13) Drainage Patterns (B10) Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Drainage Patterns (B10) Water Stained Leaves (B8) Oxidized Rhizospheres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Dift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Surface Or Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Surface Soil Cracks (B6) Surface Concave Surface (B8) Surface Vater (A1) Reizent Iron Reduction in Tilled Soils (C6) Surface Water Present? Yes No X Depth (Inches): <u>>16</u> Water Table Present? Yes No X<			(F6)			3Indicators of	hydrophytic vegetation and
Restrictive Layer (if present): Type:			. ,				, , , , ,
Type:	Sandy Gleyed Matrix (S4)	Redox Depressions ((F8)			unless dis	sturbed or problematic.
Type:	Restrictive Layer (if present):						
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Sati Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Diff Deposits (B2) Hydrogen Sulfide Odor (C1) Diff Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Ton Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Frost-Heave Hummocks (D7) Field Observations: Surface Water Present? Yes No Depth (Inches): Vater Table Present? Yes No Depth (Inches): Saturation Present? Yes No X Depth (Inches): Mater Table Present?	Туре:						
HYDROLOGY Secondary Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iton Deposits (B5) Recent Iron Reduction in Tilled Solis (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Iton dotion Visible on Aerial Imagery(B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Depth (Inches): NA Water Table Present? Yes No X Water Table Present? Yes No X No X Depth (Inches): > 16 Vetland Hydrology Present? Yes No X Water Table Present? Yes No X Depth (Inches): > 16 Vetland Hydrology Present? Yes No X Depth (Inches): > 16 Depth (Inches): > 16 <tr< td=""><td>Depth (inches):</td><td>_</td><td></td><td>Hyd</td><td>ric Soil</td><td>Present?</td><td>Yes <u>No X</u></td></tr<>	Depth (inches):	_		Hyd	ric Soil	Present?	Yes <u>No X</u>
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Depth (Inches): NA Water Table Present? Yes No X No X Depth (Inches): > >16 Saturation Present? Yes No X No X Depth (Inches): > >16 Saturation Present? Yes No X Depth (Inches): > >16 Wetland Hydrology Present? Yes No X No X Depth (Inches): > >16 Wetland Hydrology Present? Yes No X No X <td>Remarks:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Remarks:						
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Saturation (A3)			. , .	xcept wit	LKA		
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Field Observations: No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 Water Table Present? Yes No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 Mater Table Present? Yes No X Depth (Inches): >16 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Yes No X			-,				
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (Inches): NA Water Table Present? Yes No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Mo X	Water Marks (B1)	Aquatic Invertebra	ates (B13)			Dry-Se	eason Water Table (C2)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Teled Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Depth (Inches): >16 Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Wetland Hydrology Present? Yes No X							
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Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Sturface Water Present? Yes No X Water Table Present? Yes No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 Wetland Hydrology Present? Yes No X Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available				,	(6)		
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (Inches): Nater Table Present? Yes No X Depth (Inches): Saturation Present? Yes No X Depth (Inches): (includes capillary fringe) No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available				`	,		()
Field Observations: Surface Water Present? Yes No X Depth (Inches): NA 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)			Frost-I	Heave Hummocks (D7)
Surface Water Present? Yes No X Depth (Inches): NA Water Table Present? Yes No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 Gincludes capillary fringe) No X Depth (Inches): >16 Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available If available If available	Sparsely Vegetated Concave Surface (E	38)					
Water Table Present? Yes No X Depth (Inches): >16 Saturation Present? Yes No X Depth (Inches): >16 (includes capillary fringe) Vestand Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Wetland Hydrology Present? Yes No X			-h). NIA				
Saturation Present? Yes No X Depth (Inches): >16 Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Wetland Hydrology Present? Yes No X		· · ·	·				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available			·		Wetla	nd Hydrology	Present? Yes No X
Remarks:	Describe Recorded Data (stream gauge, mo	onitoring well, aerial phot	os, previous	inspection	ons), if a	vailable	
	Remarks:						

Project/Site: Newport Municipal Airport				City/County: Newport				Sampling Dat	te: 24-Se	ep-2019
Applicant/Owner:	City of New	port				State:	OR	Sampling Poi	nt: 1	118
Investigator(s): A. Brophy				Section, Township, Range: Section 29, Township 11 S, Range 1					Range 11 S	
Landform (hillslope,	terrace, etc	.): hillslope		Local relief (co	ncave, conve	, none):	Concav	e s	Slope (%):	3
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.589	9559	L	ong: -124	1.04459		Datum: NAD	83
Soil Map Unit Name:	Nelscott	loam, 12 to 50 perc	ent slopes			NW	l classif	cation: R3UBI	Н	
Are climatic / hydrold	ogic condition	ons on the site typic	al for this time of	year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarka: Recorded precipitation in		nthe wor	holown	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of pl	ants.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Alnus rubra	30	Х	FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Tsuga heterophylla	80	Х	FACU	
3				Total Number of Dominant
4				Species Across All Strata: 6 (B)
	110	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Rubus spectabilis	5	X	FAC	That Are OBL, FACW, or FAC: 50.00 (A/B)
2. Gaultheria shallon	15	Х	FACU	
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	20	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)	_			FAC species 40 x 3= 120
1. Polystichum munitum	5	<u> </u>	FACU	FACU species 100 x 4= 400
2. Blechnum spicant	5	X	FAC	UPL species x 5=
3				Column Totals: <u>140</u> (A) <u>520</u> (B)
4				
5				Prevalence Index = $B/A = 3.71$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2. Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11	10	= Total Cover		data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)	10			6- Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
1				
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 80				Vegetation Yes <u>No X</u>
				Present?
Remarks:				

US Army Corps of Engineers

Sampling Point: 118

Profile Description: (Describe to the dept	n needed to document the indicator or confirm the	e absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 yr3/3 100		Silt loam
<u> </u>		
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histosof (A1) Histic Epipedon (A2)		
	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
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)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
		4A, and 4B)
High Water Table (A2) Saturation (A3)	1, 2, 4A, and 4B)	
	Salt Crust (B11)	Drainage Patterns (B10) Dry-Season Water Table (C2)
Water Marks (B1)	Aquatic Invertebrates (B13)	
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3	
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
ITON DEDOSITS (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
	Stunded or Streeged Diants (D1) (I BD A)	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6)	Other (Explain in Remarks)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations:	Other (Explain in Remarks)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	Other (Explain in Remarks) 8)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes	Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes	Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? YesN Water Table Present? YesN Saturation Present? YesN (includes capillary fringe)	Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? YesN Water Table Present? YesN Saturation Present? YesN (includes capillary fringe)	Other (Explain in Remarks) 8) No X Jo X Depth (Inches): >16 No X Depth (Inches): >16 Wetla	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? YesN Water Table Present? YesN Saturation Present? YesN (includes capillary fringe)	Other (Explain in Remarks) 8) No X Jo X Depth (Inches): >16 No X Depth (Inches): >16 Wetla	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? YesN Water Table Present? YesN Saturation Present? YesN (includes capillary fringe) Describe Recorded Data (stream gauge, mo	Other (Explain in Remarks) 8) No X Jo X Depth (Inches): >16 No X Depth (Inches): >16 Wetla	Frost-Heave Hummocks (D7)

Project/Site: Newport Municipal Airport				City/County: Newport				Sampling Dat	te: 24-S	ep-2019
Applicant/Owner: 0	City of New	/port				State:	OR	Sampling Poi	int:	119
Investigator(s): L. Jol	Section, Township, Range: Section 29, Township 11 S, Range 1					Range 11 S				
Landform (hillslope, t	errace, etc	.): hillslope		Local relief (co	ncave, convex	, none):	Concav	e s	Slope (%):	15
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.588	8477	L	ong: -124	.04642	1 I	Datum: NAD	083
Soil Map Unit Name:	Nelscott	loam, 12 to 50 perc	ent slopes			NW	classif	ication: none		
Are climatic / hydrolo	gic condition	ons on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks	s.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarka: Reported presinitation in	n nroviouo mo	nthe wee	holownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of p	lants.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Alnus rubra	30	Х	FAC	That Are OBL, FACW, or FAC: 1 (A)
2. Tsuga heterophylla	40	Х	FACU	
3. Pseudotsuga menziesii	40	Х	FACU	Total Number of Dominant
4				Species Across All Strata: 3 (B)
	110	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1				That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
		= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 30 x 3= 90
1				FACU species 80 x 4= 320
2				UPL species x 5=
3				Column Totals: <u>110</u> (A) <u>410</u> (B)
4				
5				Prevalence Index = $B/A = 3.73$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
		= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 100				Vegetation Yes No X
				Present?
Remarks:				•

US Army Corps of Engineers

Profile Des	scription: (Describe to	the depth	needed to document	the indicat	or or con	firm the	e absence of in	dicators.)
Depth	Matrix			ox Features				, , , , , , , , , , , , , , , , , , ,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	5YR 3/3	100					Silt loam	
5-16	7.5YR 3/3	95	7.5YR 4/6	5	С	М	Silt loam	
								<u> </u>
¹ Type C=	Concentration, D=Deple	tion RM=R	educed Matrix. CS=C	overed or Co	pated Sar	nd Grain	s. ² l c	ocation: PL=Pore Lining, M=Matr
<i>.</i>	Indicators: (Applicab							r Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Mucl	k (A10)
	Epipedon (A2)		Stripped Matrix (S6)					nt Material (TF2)
Black I	Histic (A3)		Loamy Mucky Minera	al (F1) (exce	pt MLRA	. 1)	Very Shall	ow Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix			-	Other (Exp	plain in Remarks)
Deplet	ed Below Dark Surface	(A11)	Depleted Matrix (F3)					
Thick [Dark Surface (A12)		Redox Dark Surface	(F6)			3Indicators of h	nydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa	ce (F7)			wetland hy	/drology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dis	turbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth	(inches):				Hyd	ric Soil	Present? Y	(es <u>No X</u>
Remarks:					•			
HYDROL	OGY							
Wetland Hy	/drology Indicators:							
Primary In	dicators (minimum of on	e required;	check all that apply)				Secondary	/ Indicators (2 or more required)
Surfac	e Water (A1)		Water-Stained Le	eaves (B9) (e	xcept M	_ LRA	Water-	Stained Leaves (B9) (MLRA 1, 2,
High W	/ater Table (A2)		1, 2, 4A, and 4	В)			4A,	and 4B)
Satura	tion (A3)		Salt Crust (B11)					ge Patterns (B10)
	Marks (B1)		Aquatic Invertebr					ason Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide			(00)		tion Visible on Aerial Imagery (C9)
	eposits (B3) /lat or Crust (B4)		Oxidized Rhizosp Presence of Redu	-	-	bots $(C3)$		prphic Position (D2) v Aquitard (D3)
	eposits (B5)		Recent Iron Redu		,	(6)		eutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		`	,		Ant Mounds (D6) (LRR A)
	tion Visible on Aerial Im	agery(B7)	Other (Explain in	Remarks)	, (,		leave Hummocks (D7)
Sparse	ely Vegetated Concave S	Surface (B8)						
Field Obs								
	ater Present? Yes	No	· ·					
Water Tab Saturation	le Present? Yes	No	· · ·	,		Matic	nd Uvdralam.	Procent? Vee No V
	Present? Yes _ capillary fringe)	No	X Depth (Inc	cries). <u>>1</u>	<u> </u>	wella	na nyarology r	Present? Yes <u>No X</u>
•	Recorded Data (stream g	gauge, moni	toring well, aerial pho	tos, previous	inspection	ons), if a	vailable	
Remarks:								

Project/Site: Newport	roject/Site: Newport Municipal Airport			City/Cou	City/County: Newport			Sampling Date	e: 24-Sep	o-2019
Applicant/Owner: 0	City of Newp	ort				State:	OR	Sampling Poir	nt: 12	20
Investigator(s): L. Joh	nnson, A. Br	ophy		Section	n, Township, Rang	e: Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope, to	errace, etc.)	: hillslope		Local reli	ef (concave, conv	ex, none):	Concav	e S	Slope (%):	1
Subregion (LRR): A	A2 - Willam	ette Valley	Lat:	44.58974087		Long: -124	4.04759	25 E	Datum: NAD8	3
Soil Map Unit Name:	Lint silt loa	am, 5 to 25 percent	t slopes			NW	l classif	ication: none		
Are climatic / hydrolog	gic condition	ns on the site typica	al for this t	ime of year?	Yes No 2	X (If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?	Are "Norma	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturall	y problematic?	(If needed,	explain ar	iy answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Pomarka: Pasardad prosinitation i		mont	a was bolow porm	al rango			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3	(A)
2					
3.				Total Number of Dominant	
4				Species Across All Strata: 3	(B)
		= Total Cover			
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species	
1. Rubus armeniacus	5	X	FAC	That Are OBL, FACW, or FAC: 100.00	(A/B)
2					
3.				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	_
5				OBL species x 1=	
	5	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 3m R)				FAC species x 3=	
1. Juncus effusus	75	х	FACW	FACU species x 4=	-
2. Lotus corniculatus	15		FAC	UPL species x 5=	
3. Agrostis capillaris	40	Х	FAC	Column Totals: (A)	(B)
4.					
5				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				X 2- Dominance Test is >50%	
9.				3. Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide sup	oporting
				data in Remarks or on a separate sheet	
11	130	= Total Cover		5- Wetland Non-Vascular Plants ¹	/
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Ex	plain)
4				¹ Indicators of hydric soil and wetland hydrolog	iv must
2				be present, unless disturbed or problematic.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2		Tatal Osuar			
N Deers Orecord in Lieth Oterture		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes <u>X</u> No Present?	
				riesent?	
Remarks:					

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Sampling Point: 120

Profile Description: (Describe to the dept			firm the	absence of inc	licators.)			
Depth Matrix	Redox Featur							
(inches) Color (moist) %	Color (moist) %	Type ¹	Loc ²	Texture	Remarks			
0-16 10 yr 4/2 96	5yr 3/4 4	C	PI	Silt loam				
				·				
				<u> </u>				
	<u> </u>							
				· ·				
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered o	r Coated Sar	nd Grains	s. ² Loo	cation: PL=Pore Lining, M=Matr			
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)			Indicators for	Problematic Hydric Soils ³ :			
Histosol (A1)	Sandy Redox (S5)			2 cm Muck	(A10)			
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Material (TF2)					
Black Histic (A3)	Loamy Mucky Mineral (F1) (ex	xcept MLRA	1)	Very Shallo	ow Dark Surface (TF12)			
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)			Other (Exp	lain in Remarks)			
Depleted Below Dark Surface (A11)	X Depleted Matrix (F3)							
Thick Dark Surface (A12)	Redox Dark Surface (F6)			³ Indicators of h	ydrophytic vegetation and			
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)			wetland hyd	drology must be present,			
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)			unless dist	urbed or problematic.			
Restrictive Layer (if present):								
Туре:								
Depth (inches):		Hyd	ric Soil I	Present? Y	es X No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of one required	l; check all that apply)		-	Secondary	Indicators (2 or more required)			
Surface Water (A1)	Water-Stained Leaves (B9) (except MI	_RA	Water-S	Stained Leaves (B9) (MLRA 1, 2,			
High Water Table (A2)	1, 2, 4A, and 4B)				and 4B)			
Saturation (A3)	Salt Crust (B11)				e Patterns (B10)			
Water Marks (B1)	Aquatic Invertebrates (B13				son Water Table (C2)			
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C				on Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	X Oxidized Rhizospheres ald		oots $(C3)$		phic Position (D2)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron Recent Iron Reduction in T	. ,	(6)		Aquitard (D3) eutral Test (D5)			
Surface Soil Cracks (B6)	Stunted or Stressed Plants	•	,		Ant Mounds (D6) (LRR A)			
Inundation Visible on Aerial Imagery(B7)			¬)		eave Hummocks (D7)			
Sparsely Vegetated Concave Surface (E	```	,						
Field Observations:								
Surface Water Present? Yes	No X Depth (Inches):	NA						
Water Table Present? Yes	No X Depth (Inches):	>16						
	No X Depth (Inches):	>16	Wetlar	nd Hydrology P	resent? Yes <u>X</u> No			
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previ	ous inspectio	ons), if av	vailable				
Remarks:								

Project/Site: Newpor	roject/Site: Newport Municipal Airport		City/Coun	City/County: Newport			Sampling Dat	te: 24-Se	o-2019	
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poi	nt: 12	21
Investigator(s): A. Brophy				Section,	Township, Range	: Sectio	n 29, To	ownship 11 S, I	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief	(concave, conve	x, none):	Concav	e s	Slope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	.58972257		Long: <u>-12</u> 4	1.04764	92 I	Datum: NAD8	3
Soil Map Unit Name	: Lint silt	loam, 5 to 25 percen	t slopes			NW	l classif	ication: none		
Are climatic / hydrolo	ogic condi	tions on the site typic	al for this tim	e of year? Ye	es <u>No X</u>	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significant	ly disturbed?	Are "Norma	I Circumst	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally p	problematic?	(If needed,	explain an	iy answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe woo	bolowno	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 2	(A)
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata: 4	(B)
		= Total Cover			•
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species	
1. Gaultheria shallon	2	Х	FACU	That Are OBL, FACW, or FAC: 50.00	(A/B)
2. Rubus armeniacus	3	Х	FAC		
3. Vaccinium ovatum	5	Х	FACU	Prevalence Index worksheet:	
4.				Total % Cover of: Multiply by:	
5.				OBL species x 1=	
	10	= Total Cover		FACW species x 2=	•
Herb Stratum (Plot size: 3m R)				FAC species 3 x 3= 9	•
1. Plantago lanceolata	5		FACU	FACU species 43 x 4= 172	-
2. Polystichum munitum	1		FACU	UPL species x 5=	-
3. Agrostis capillaris	30	X	FAC	Column Totals: 46 (A) 181	(B)
1					(-)
5				Prevalence Index = B/A = 3.93	
6.				Hydrophytic Vegetation Indicators:	
7				1 Rapid Test For Hydrophytic Vegetation	
8				2- Dominance Test is >50%	
0				3- Prevalence Index is ≤3.0 ¹	
9 10				4- Morphological Adaptations ¹ (Provide sup	porting
11				data in Remarks or on a separate sheet)	
11	36	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Exp	olain)
1				¹ Indicators of hydric soil and wetland hydrology	
2.				be present, unless disturbed or problematic.	, maor
				· · · ·	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum					x
				Present?	
Remarks:					

US Army Corps of Engineers

Sampling Point: 121

Profile Description: (Describe to the de				
	pth needed to document the indicator or confirm	he absence of indicators.)		
Depth Matrix	Redox Features			
(inches) Color (moist) % 0-13 10 yr 3/2 10		Texture Remarks		
13-16 10 yr 3/1 10	<u> </u>	Silt loam		
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, CS=Covered or Coated Sand Gra	ains. ² Location: PL=Pore Lining, M=Matr		
Hydric Soil Indicators: (Applicable to al	I LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :		
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)		
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)		
		Very Shallow Dark Surface (TF12)		
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)			
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)		
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)			
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and		
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,		
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.		
Restrictive Layer (if present):				
Type:				
Depth (inches):	Hvdric So	oil Present? Yes No X		
Remarks:				
HYDROLOGY				
HYDROLOGY Wetland Hydrology Indicators:				
	red; check all that apply)	Secondary Indicators (2 or more required)		
Wetland Hydrology Indicators:	red; check all that apply) Water-Stained Leaves (B9) (except MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi		· · · · · · · · · · · · · · · · · · ·		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stand Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (0	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E Sparsely Vegetated Concave Surface Field Observations: Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required in the second of the	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe) Vestor	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 37) Other (Explain in Remarks) (B8) No X Depth (Inches): >16 No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes Gaturation Present? Yes Saturation Present? Yes Discribe Recorded Data (stream gauge, for the stream gauge, for the	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 37) Other (Explain in Remarks) (B8) No X Depth (Inches): >16 No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Gaturation Present? Yes (includes capillary fringe) Vestor	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 37) Other (Explain in Remarks) (B8) No X Depth (Inches): >16 No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		

Project/Site: Newpor	roject/Site: Newport Municipal Airport		City/Coun	City/County: Newport			Sampling Date	e: 24-Sep	-2019	
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 12	2
Investigator(s): A. Brophy S					Township, Range	Sectio	n 29, To	wnship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief	(concave, conve	k, none):	Concav	e S	Slope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 4	14.58808823	I	ong: -124	1.052119	93 C	Datum: NAD83	3
Soil Map Unit Name	: Nelsco	tt loam, 3 to 12 perce	nt slopes			NW	l classifi	cation: none		
Are climatic / hydrolo	ogic condi	tions on the site typic	al for this ti	me of year? Ye	es No X	(If no	, explaiı	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	ntly disturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	problematic?	(If needed, e	explain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Demorto: Descrided are cipitation i							

_

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species	
1. Alnus rubra	95	Х	FAC	That Are OBL, FACW, or FAC:	3 (A)
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	95	= Total Cover		—	
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species	
1. Vaccinium parvifolium	20	Х	FACU	That Are OBL, FACW, or FAC:	75.00 (A/B)
2. Rubus spectabilis	15	Х	FAC		
3.	·			Prevalence Index worksheet:	
4.				Total % Cover of: M	lultiply by:
5				OBL species x 1=	
	35	= Total Cover			
Herb Stratum (Plot size: 3m R)				FAC species x 3=	
1. Lysichiton americanus	10	х	OBL		
2. Polystichum munitum	1		FACU	UPL species x 5=	
3.	·			Column Totals: (A)	(B)
4	·				(D)
4 5				Prevalence Index = B/A =	<u>0</u>
6				Hydrophytic Vegetation Indicator	rs:
7.				1- Rapid Test For Hydrophytic \	/egetation
8.				X 2- Dominance Test is >50%	0
9.				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide supporting
11	•			data in Remarks or on a sepa	
11	11	= Total Cover		5- Wetland Non-Vascular Plants	, ,
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Veg	
<u> </u>				¹ Indicators of hydric soil and wetla	
2.	·			be present, unless disturbed or pro	
Z					bbiematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X	No
				Present?	
Remarks:					

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Sampling Point:

SOIL		Sampling Point: 122
Profile Description: (Describe to the depth	needed to document the indicator or confirm the	he absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	- Texture Remarks
0-10 10 yr 2/1 100		Mucky sand high organics
10-16 10yr 3/1 100		Loamy sand high organics
		· ·
		· ·
		·
		21 21 21 21 21 21 21 21 21 21 21 21 21 2
	Reduced Matrix, CS=Covered or Coated Sand Gra	
Hydric Soil Indicators: (Applicable to all LF	rks, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	_ Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	– Hydric So	il Present? Yes X No
Demorko	-	
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
X High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
X Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	X Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B	3)	_
Field Observations:		
	o X Depth (Inches): NA	
Water Table Present? Yes X N		
		and Hydrology Present? Yes X No
Saturation Present? Yes X N	Depth (inches). Surface Well	
(includes capillary fringe)	oDeptri (incries)	
(includes capillary fringe)	hitoring well, aerial photos, previous inspections), if	available
(includes capillary fringe)		available
(includes capillary fringe)		available

Project/Site: Newport Municipal Airport			City/Count	City/County: Newport			Sampling Date	e: 24-Se	ep-2019	
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 1	23
Investigator(s): A. Br	Section, 7	Township, Range	: Sectio	n 29, To	ownship 11 S, F	Range 11 S				
Landform (hillslope,	terrace, e	etc.): hillslope		Local relief	(concave, conve	x, none):	none	S	Slope (%):	15
Subregion (LRR):	A2 - Will	amette Valley	Lat: 4	4.5880278		Long: -124	1.05213	08 C	Datum: NAD	33
Soil Map Unit Name:	: Nelsco	tt loam, 3 to 12 percer	nt slopes			NW	l classif	ication: none		
Are climatic / hydrold	ogic cond	itions on the site typic	al for this tir	me of year? Ye	es No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significar	ntly disturbed?	Are "Norma	I Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	problematic?	(If needed,	explain an	y answ	ers in Remarks.)	

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

Hydrophytic	Vegetation Present?	Yes	No	Х			
Hydric Soil F	Present?	Yes	No	Х	Is the Sampled Area		
Wetland Hyd	drology Present?	Yes	X No		within a Wetland?	Yes	No X
Remarks:	On steep slope that drains	well, geo	ology is p	ermeal	bedrock, dug on table that likely	perches wa	ter
	Recorded precipitation in pr	evious i	months w	as belo	normal range		

VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 10m R) % Cover Species? Status Number of Dominant Species 1. Alnus rubra 15 FAC That Are OBL, FACW, or FAC: 4 (A) 20 FACU 2. Tsuga heterophylla 3. Pseudotsuga menziesii 75 FACU Total Number of Dominant Х 4. Species Across All Strata: 4 (B) 110 = Total Cover Sapling/Shrub Stratum (Plot size: 5m R) Percent of Dominant Species 1. Vaccinium parvifolium 20 FACU Х That Are OBL, FACW, or FAC: 100.00 (A/B) 2. Vaccinium ovatum FACU 15 Х 3. Gaultheria shallon 15 Х FACU Prevalence Index worksheet: 4. Total % Cover of: Multiply by: OBL species 5. x 1= 50 = Total Cover FACW species x 2= Herb Stratum (Plot size: 3m R) FAC species 15 x 3= 45 FACU species 145 1. x 4= 580 2. UPL species x 5= Column Totals: 160 625 3 (A) (B) 4 5. Prevalence Index = B/A = 3.91 6 Hydrophytic Vegetation Indicators: 1- Rapid Test For Hydrophytic Vegetation 7. X 2-Dominance Test is >50% 8. 3- Prevalence Index is $\leq 3.0^1$ 9. 4- Morphological Adaptations¹ (Provide supporting 10. data in Remarks or on a separate sheet) 11. = Total Cover 5-Wetland Non-Vascular Plants¹ Woody Vine Stratum 6- Problematic Hydrophytic Vegetation¹(Explain) (Plot size: R) ¹ Indicators of hydric soil and wetland hydrology must 1. 2 be present, unless disturbed or problematic. = Total Cover Hydrophytic % Bare Ground in Herb Stratum 60 Vegetation Yes No X Present? On steep slope that drains well, geology is permeable bedrock, dug on table that likely perches water Remarks:

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Sampling Point: 123

Profile Description: (Describe to the de		
	pth needed to document the indicator or confirm the	ne absence of indicators.)
Depth Matrix	Redox Features	
		Taytura Domorka
(inches) Color (moist) % 0-2 7.5yr 2.5/2 100		Texture Remarks
<u>2-4</u> <u>10yr 2/1</u> <u>100</u>		Sand loam
4-16 10yr 3/1 100)	Sand loam
		· ·
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, CS=Covered or Coated Sand Gra	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to al	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
		Very Shallow Dark Surface (TF12)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	Hydric So	l Present? Yes No X
· · · ·		
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:	red: check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) 3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E Sparsely Vegetated Concave Surface Field Observations: Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requit Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Xaturation Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Xaturation Present? Yes	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 68) No X Depth (Inches): NA No Depth (Inches): No X Depth (Inches): 2	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Xaturation Present? Yes (includes capillary fringe) X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 68) No X Depth (Inches): NA No Depth (Inches): No X Depth (Inches): 2	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newport Municipal Airport			City/County: Newport			Sampling Dat	te: 24-S	ep-2019		
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poi	int:	124
Investigator(s): A. Br	Section, To	ownship, Range	: Sectio	n 29, T	ownship 11 S, I	Range 11 S				
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (concave, conve	x, none):	none	:	Slope (%):	15
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.58	3785823		Long: <u>-12</u> 4	4.05233	72	Datum: NAD	83
Soil Map Unit Name	: Nelsco	tt loam, 12 to 50 perce	ent slopes			NW	l classif	ication: none		
Are climatic / hydrold	ogic cond	itions on the site typic	al for this time o	of year? Yes	s No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly of	disturbed?	Are "Norma	I Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prot	blematic?	(If needed,	explain ar	iy answ	ers in Remarks	5.)	

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

Hydrophytic Vegetation Present?	Yes x	(No				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area		
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	<u>No X</u>
Remarks: Recorded precipitation in	n previous mo	onthe was	below norm	al range		

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Distaire) (a. D)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus contorta	15	х	FAC	That Are OBL, FACW, or FAC: (A)
2. Tsuga heterophylla	15	<u>x</u>	FACU	
3. Alnus rubra	35	Х	FAC	Total Number of Dominant
4 Picea sitchensis	15	X	FAC	
5 Frangula purshiana	15	x	FAC	Species Across All Strata: 7 (B)
	95	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Rubus spectabilis	5		FAC	That Are OBL, FACW, or FAC: 57.14 (A/B)
2. Rubus parviflorus	10		FACU	
3. Gaultheria shallon	45	X	FACU	Prevalence Index worksheet:
4 Rubus ursinus	5		FACU	
5 Rubus armeniacus	5	. <u> </u>	FAC	Total % Cover of: Multiply by:
6 Cytisus scoparius 10			NL	OBL species x 1=
	70	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 60 x 3= 180
1. Pteridium aquilinum	3	Х	FACU	FACU species 73 x 4= 292
2.				UPL species x 5=
3.				Column Totals: 133 (A) 472 (B)
1				
5				Prevalence Index = $B/A = 3.55$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9.				3. Prevalence Index is ≤3.0 ¹
40				4- Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
11	3	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)	<u> </u>			6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
1			·	
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 60				Vegetation Yes x No
				Present?
Remarks:				

Sampling Point: 124

Profile Description: (Describe to the dep	th needed to document the indicator of	r confirm the	absence of indica	ators.)		
Depth Matrix	Redox Features					
(inches) Color (moist) %	Color (moist) % Ty	pe ¹ Loc ²	Texture	Remarks		
0-4 7.5yr 3/3 100			Sand loam			
4-16 10yr 3/4 100			Loamy sand			
¹ Type: C=Concentration, D=Depletion, RM	-Reduced Matrix CS-Covered or Coated	d Sand Grains		on: PL=Pore Lining, M=Matr		
Hydric Soil Indicators: (Applicable to all				oblematic Hydric Soils ³ :		
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A	10)		
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Ma			
Black Histic (A3)	Loamy Mucky Mineral (F1) (except M	ILRA 1)	Very Shallow [Dark Surface (TF12)		
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	,	Other (Explain			
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)			,		
Thick Dark Surface (A12)	Redox Dark Surface (F6)		3Indicators of hydro	ophytic vegetation and		
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)			logy must be present,		
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		-	ed or problematic.		
Restrictive Layer (if present):						
Type:						
Depth (inches):		Hydric Soil	Present? Yes	No X		
Demorke						
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	d; check all that apply)		Secondary Ind	licators (2 or more required)		
ii						
Surface Water (A1)	Water-Stained Leaves (B9) (exce	PT MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,			
High Water Table (A2)	1, 2, 4A, and 4B)		4A, and	•		
Saturation (A3) Water Marks (B1)	Salt Crust (B11) Aquatic Invertebrates (B13)			atterns (B10) n Water Table (C2)		
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)			Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Oxidized Rhizospheres along Livir	a Poots (C3)		c Position (D2)		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	ig 10003 (03)	Shallow Aq			
Iron Deposits (B5)	Recent Iron Reduction in Tilled So	ils (C6)	FAC-Neutra			
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (I	. ,		Mounds (D6) (LRR A)		
Inundation Visible on Aerial Imagery(B7				e Hummocks (D7)		
Sparsely Vegetated Concave Surface (/ /					
	·					
Field Observations:						
Surface Water Present? Yes	No X Depth (Inches): NA No X Depth (Inches): NA					
Water Table Present? Yes Saturation Present? Yes	No X Depth (Inches): NA No X Depth (Inches): NA	Motler	nd Hydrology Pres	ant? Vac No Y		
Saturation Present? Yes (includes capillary fringe)		weuar	a nyarology Fres	ent? Yes <u>No X</u>		
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inse	pections) if a	vailable			
2000 and a control Data (Stream gauge, m		200000), ii av				
Remarks:						
-						

Project/Site: Newport Municipal Airport		City/County:	Newport	Sampling Date: 24-Sep-2019
Applicant/Owner: City of Newport				State: OR Sampling Point: 125
Investigator(s): A. Brophy		Section, To	wnship, Ra	nge: Section 29, Township 11 S, Range 11 S
Landform (hillslope, terrace, etc.): roadside ditch		Local relief (c	oncave, co	nvex, none): concave Slope (%): 0
Subregion (LRR): A2 - Willamette Valley	Lat: 44.587	787573		Long: -124.0524046 Datum: NAD83
Soil Map Unit Name: Nelscott loam, 12 to 50 percent	slopes			NWI classification: none
Are climatic / hydrologic conditions on the site typical f	or this time of	year? Yes	No	X (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	significantly di	sturbed?	Are "Nor	rmal Circumstances" present' Yes X No
Are Vegetation Soil or Hydrology	naturally probl	ematic?	(If neede	ed, explain any answers in Remarks.)
				and in the second in the stand factures at
SUMMARY OF FINDINGS – Attach site in	hap snowir	ig samplin	g point i	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No <u>X</u>			
Hydric Soil Present? Yes X	No	Is the	Sampled A	Area
Wetland Hydrology Present? Yes X	No	within	a Wetland	? Yes <u>X</u> No
Remarks: ditch like feature with veg that is barely u	pland			
Recorded precipitation in previous month		ormal range		
Roadside ditch slope wetland. Hydro fror	m slope seeps	and road rund	off. Surface	water present in wetland.
VEGETATION – Use scientific names of	plants.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Frangula purshiana	15	<u> </u>	FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Tsuga heterophylla	20		FACU	
3. Alnus rubra	75	Х	FAC	Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	110	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Rubus spectabilis	5		FAC	That Are OBL, FACW, or FAC: 50.00 (A/B)
2. Rubus parviflorus	10	x	FACU	、 ,
3. Gaultheria shallon	30	Х	FACU	Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.	_			OBL species x 1=
	45	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 70 x 3= 210
1. Blechnum spicant	50	Х	FAC	FACU species 63 x 4= 252
2. Pteridium aquilinum	3		FACU	UPL species x 5=
3.				Column Totals: 133 (A) 462 (B)
4.				
5.				Prevalence Index = $B/A = 3.47$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	53	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	:	= Total Cover	_	Hydrophytic
0/ David Oracina dia Ulark Otastura 05				Vegetation Yes No X
% Bare Ground in Herb Stratum 25				
% Bare Ground in Herb Stratum 25				Present?

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Profile Description: (Describe to the dep	th needed to document the indicator	or confirm the	absence of indicat	ors.)
Depth Matrix	Redox Features			,
(inches) Color (moist) %	Color (moist) %	Type ¹ Loc ²	Texture	Remarks
0-3 10yr 3/3 100		<u> </u>	Sand loam	
3-16 10yr 5/1 90	5yr 5/8 10	<u>С М</u>	Loamy sand	
¹ Type: C=Concentration, D=Depletion, RM	I=Reduced Matrix, CS=Covered or Coat	ted Sand Grain	s. ² Locatio	n: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)		Indicators for Pro	blematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A1	0)
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Ma	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except	MLRA 1)	Very Shallow D	ark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain	in Remarks)
Depleted Below Dark Surface (A11)	X Depleted Matrix (F3)			
Thick Dark Surface (A12)	Redox Dark Surface (F6)		³ Indicators of hydro	phytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		-	ogy must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbe	d or problematic.
Restrictive Layer (if present):				
Туре:				
Depth (inches):		Hydric Soil	Present? Yes	X No
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators: Primary Indicators (minimum of one require	d: check all that apply)		Secondary Indi	cators (2 or more required)
	Water-Stained Leaves (B9) (exc			ed Leaves (B9) (MLRA 1, 2 ,
Surface Water (A1) X High Water Table (A2)	1, 2, 4A, and 4B)		4A, and	
X Saturation (A3)	Salt Crust (B11)		Drainage Pa	,
Water Marks (B1)	Aquatic Invertebrates (B13)			Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)			isible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Liv	ving Roots (C3)		Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)		Shallow Aqu FAC-Neutra	
Iron Deposits (B5) Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled S Stunted or Stressed Plants (D1)	. ,		Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B		()		Hummocks (D7)
Sparsely Vegetated Concave Surface	B8)			
Field Observations:				
Surface Water Present? Yes	No X Depth (Inches): NA	_		
Water Table Present? Yes X	No Depth (Inches): 8	_		
Saturation Present? Yes X	No Depth (Inches): Surface	e Wetlaı	nd Hydrology Prese	nt? Yes <u>X</u> No
		1		
(includes capillary fringe)	onitoring well aerial photos, previous in	spections) if a	vailable	
Describe Recorded Data (stream gauge, n	onitoring well, aerial photos, previous in	nspections), if a	vailable	
Describe Recorded Data (stream gauge, n	onitoring well, aerial photos, previous in Hydro from slope seeps and road runof	• /		

Project/Site: Newport Municipal Airport			City/County:	Newport			Sampling Dat	te: 25-Se	p-2019	
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poi	nt: 1	26
Investigator(s): A. Brophy				Section, Tov	wnship, Range:	Sectio	n 29, To	wnship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (co	oncave, conve	, none):	Concav	e s	Slope (%):	0
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.58	734367	L	ong: -124	1.05670	68 [Datum: NAD8	33
Soil Map Unit Name	: Nelsco	tt loam, 12 to 50 perc	ent slopes			NW	l classif	cation: PSSC		
Are climatic / hydrole	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Demorto: Descrided are cipitation i							

Recorded precipitation in previous months was below normal range kemarks:

VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 10m R) % Cover Species? Status Number of Dominant Species 1. Alnus rubra 55 Х FAC That Are OBL, FACW, or FAC: 4 2. Total Number of Dominant 3 4. Species Across All Strata: 5 55 = Total Cover Sapling/Shrub Stratum (Plot size: 5m R) Percent of Dominant Species 1. Rubus ursinus 10 FACU Х That Are OBL, FACW, or FAC: 80.00 (A/B) 2. Rubus armeniacus 10 Х FAC 3. Lonicera involucrata 20 Х FAC Prevalence Index worksheet: 4. Total % Cover of: Multiply by: OBL species x 1= 5. 40 = Total Cover FACW species x 2= Herb Stratum (Plot size: 3m R) FAC species x 3= 1. Athyrium cyclosorum 5 FAC FACU species x 4= 2. Carex obnupta 95 OBL Х UPL species x 5= 3. Column Totals: (A) 4 5. Prevalence Index = B/A = 0 6 Hydrophytic Vegetation Indicators: 1- Rapid Test For Hydrophytic Vegetation 7. X 2-Dominance Test is >50% 8. 3- Prevalence Index is $\leq 3.0^1$ 9. 4- Morphological Adaptations¹ (Provide supporting 10. data in Remarks or on a separate sheet) 11. 100 = Total Cover 5-Wetland Non-Vascular Plants¹ Woody Vine Stratum (Plot size: 6- Problematic Hydrophytic Vegetation¹(Explain) R) ¹ Indicators of hydric soil and wetland hydrology must 1. 2 be present, unless disturbed or problematic. = Total Cover Hydrophytic

Remarks:

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% Bare Ground in Herb Stratum

Western Mountains, Valleys, and Coast - Version 2.0

Yes X

No

Vegetation

Present?

(A)

(B)

(B)

Sampling Point: 126

Profile De	scription: (Describe to	the depth	needed to document	the indicate	or or cor	nfirm the	e absence of ir	idicators.)	
Depth	Matrix	-	Rode	ox Features					
<u> </u>					_ 4		_	_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10yr 2/1	50	7.5yr 5/8	5	С	M	Sandy loam	Mucky with high organic conter	
	10yr 4/2	45					Sandy loam		
3-16	10 yr 5/2	85	7.5yr 5/8	15	С	M, pl	Sandy loam	Mucky and greasy with high ore	
	Concentration, D=Deple	tion DM_D	aduced Matrix CS-C	overed or C	atod Sa	ad Grain	2	ocation: PL=Pore Lining, M=Matr	
					Jaleu Sa	iu Grain			
Hydric Soil	Indicators: (Applicabl	e to all LR	ks, unless otherwise	e noted.)			Indicators to	r Problematic Hydric Soils ³ :	
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muc	k (A10)	
Histic	Epipedon (A2)		Stripped Matrix (S6)					nt Material (TF2)	
	Histic (A3)		Loamy Mucky Minera		nt MI DA	1)		low Dark Surface (TF12)	
	· · ·					,			
	gen Sulfide (A4)		Loamy Gleyed Matrix	. ,			Other (Ex	plain in Remarks)	
·	ed Below Dark Surface (A11) X	Depleted Matrix (F3)						
Thick I	Dark Surface (A12)		Redox Dark Surface	(F6)			3Indicators of	hydrophytic vegetation and	
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa	ce (F7)			wetland h	ydrology must be present,	
Sandy	Gleyed Matrix (S4)		unless dis	sturbed or problematic.					
Restrictive	Layer (if present):								
Type:									
	(inches):		•		Hyd	lric Soil	Present?	Yes X No	
•	. ,				-				
Remarks:									
	0.01/								
HYDROL	UGY								
Wetland H	vdrology Indicators:								
	dicators (minimum of on	e required.	check all that apply)				Secondar	y Indicators (2 or more required)	
	•	e required,				_		· · · · · · · · ·	
	e Water (A1)		Water-Stained Le		xcept M	LRA	Water-Stained Leaves (B9) (MLRA 1, 2,		
	Vater Table (A2)		1, 2, 4A, and 4	В)				and 4B)	
X Satura			Salt Crust (B11)					ge Patterns (B10)	
	Marks (B1)		Aquatic Invertebr					ason Water Table (C2)	
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Satura	tion Visible on Aerial Imagery (C9)	
Drift D	eposits (B3)		Oxidized Rhizosp	heres along	Living Ro	oots (C3)) Geom	orphic Position (D2)	
Algal M	Mat or Crust (B4)		Presence of Redu	uced Iron (C4	4)		Shallo	w Aquitard (D3)	
Iron D	eposits (B5)		Recent Iron Redu	ction in Tille	d Soils (0	C6)	FAC-N	leutral Test (D5)	
Surfac	e Soil Cracks (B6)		Stunted or Stress	ed Plants (D	1) (LRR	A)	Raised	Ant Mounds (D6) (LRR A)	
Inunda	ation Visible on Aerial Im	agery(B7)	Other (Explain in	Remarks)			Frost-I	Heave Hummocks (D7)	
Sparse	ely Vegetated Concave S	Surface (B8)							
	an vationa.				I				
	ervations:	•••	V 5 4 4						
	/ater Present? Yes	No No	· · ·	,					
		X No	· · ·						
Saturation	_	X No	Depth (Inc	ches): Surfa	ace	Wetla	nd Hydrology	Present? Yes <u>X</u> No	
(includes d	capillary fringe)								
							wailabla		
Describe F	Recorded Data (stream g	jauge, moni	toring well, aerial pho	tos, previous	inspecti	ons), if a	avaliable		
Describe F	Recorded Data (stream g	jauge, moni	toring well, aerial pho	tos, previous	inspecti	ons), if a			
Describe F Remarks:	Recorded Data (stream g	jauge, moni	toring well, aerial pho	tos, previous	inspecti	ons), if a			
	Recorded Data (stream g	jauge, moni	toring well, aerial pho	tos, previous	inspecti	ons), if a			

Project/Site: Newport Municipal Airport			City/County: Newport			Sampling Date	e: 25-Se	p-2019		
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 1	27
Investigator(s): A. Br	Section, Township, Range: Section 29, Township 11 S, Range 1				Range 11 S					
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (co	oncave, conve	, none):	Convex	S	Slope (%):	10
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.58	7344	L	.ong: <u>-12</u> 4	1.05670	7 <u></u> C	Datum: NAD8	3
Soil Map Unit Name	: Nelsco	tt loam, 12 to 50 perc	ent slopes			NW	l classifi	ication: none		
Are climatic / hydrole	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(If no	, explaii	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	iy answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	nthe wor	bolow po	rmal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of p	lants.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Tsuga heterophylla	90	Х	FACU	That Are OBL, FACW, or FAC: (A)
2. Pseudotsuga menziesii	15		FACU	
3. Frangula purshiana	15		FAC	Total Number of Dominant
4				Species Across All Strata: 2 (B)
	120	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Gaultheria shallon	35	Х	FACU	That Are OBL, FACW, or FAC: (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	35	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 15 x 3= 45
1				FACU species 140 x 4= 560
2.				UPL species x 5=
3.				Column Totals: 155 (A) 605 (B)
4.				
5.				Prevalence Index = $B/A = 3.90$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
		= Total Cover		5-Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				

US Army Corps of Engineers

Sampling Point: 127

Profile Descri	intion: (Describe	to the depth	needed to documer	nt the indicat	or or con	firm the	absence of in	odicators)			
Depth	Matrix	to the depth		dox Features							
<u> </u>		0/			Tuno ¹	Loc ²	Texture	Pomorko			
(inches) 0-3	Color (moist) Organic duff	%	Color (moist)	%	Type ¹	LOC	Texture	Remarks			
3-13	10yr 4/4	100					Sandy loam	Small pebbles of decaying sand			
13-16	10yr 2/2	100					Sandy loam	Organic burried a horizon			
			Reduced Matrix, CS=		pated Sar	nd Grain	s. ² Lo	ocation: PL=Pore Lining, M=Matr			
Hydric Soil Ind	dicators: (Applic	able to all LR	Rs, unless otherwis	se noted.)			Indicators fo	r Problematic Hydric Soils ³ :			
Histosol (/	A1)		Sandy Redox (S5)				2 cm Muc	:k (A10)			
Histic Epip	pedon (A2)		Stripped Matrix (S6)			Red Pare	nt Material (TF2)			
Black Hist	tic (A3)		Loamy Mucky Mine	eral (F1) (exce	pt MLRA	1)	Very Shal	llow Dark Surface (TF12)			
Hydrogen	Sulfide (A4)		Loamy Gleyed Matr				Other (Ex	plain in Remarks)			
	Below Dark Surfac	e (A11)	Depleted Matrix (F3								
Thick Darl	k Surface (A12)		Redox Dark Surface	e (F6)			³ Indicators of hydrophytic vegetation and				
Sandy Mu	ucky Mineral (S1)	_	Depleted Dark Surfa	ace (F7)			wetland h	ydrology must be present,			
Sandy Gle	eyed Matrix (S4)		Redox Depressions	s (F8)			unless disturbed or problematic.				
Bootriotivo Lo	vor (if procent);				1						
	yer (if present):										
Type: Depth (inc	ches):		-		Hvd	ric Soil	Present?	Yes No X			
(-								
Remarks:											
HYDROLOG	βY										
Wetland Hydro	ology Indicators:										
Primary Indica	ators (minimum of	one required;	check all that apply)			_	Secondar	y Indicators (2 or more required)			
Surface W	Vater (A1)		Water-Stained L	_eaves (B9) (e	xcept MI	RA	Water-	-Stained Leaves (B9) (MLRA 1, 2,			
High Wate	er Table (A2)		1, 2, 4A, and 4	4B)			4A,	, and 4B)			
Saturation			Salt Crust (B11)					ge Patterns (B10)			
Water Ma			Aquatic Inverteb				´	eason Water Table (C2)			
	Deposits (B2)		Hydrogen Sulfid					tion Visible on Aerial Imagery (C9)			
Drift Depo	. ,		Oxidized Rhizos		-	ots (C3)		orphic Position (D2)			
	or Crust (B4)		Presence of Rec Recent Iron Red		,	()		w Aquitard (D3)			
Iron Depo	Soil Cracks (B6)		Stunted or Stres		``	,		leutral Test (D5) d Ant Mounds (D6) (LRR A)			
	n Visible on Aerial	Imagery(B7)	Other (Explain in			~)		Heave Hummocks (D7)			
	Vegetated Concav			in Komano)							
	0	``	,								
Field Observ Surface Wate		N	o X Depth (Ir	nches): NA	<u> </u>						
	i lesent: les		<u> </u>	·							
	Present? Yes	N									
Water Table F Saturation Pre				nches): NA	A	Wetla	nd Hydroloav	Present? Yes No X			
Water Table F	esent? Yes			nches): NA	<u>\</u>	Wetla	nd Hydrology	Present? Yes <u>No X</u>			
Water Table F Saturation Pre (includes capi	esent? Yes illary fringe)	No						Present? Yes <u>No X</u>			
Water Table F Saturation Pre (includes capi	esent? Yes illary fringe)	No	Depth (Ir					Present? Yes <u>No X</u>			
Water Table F Saturation Pre (includes capi	esent? Yes illary fringe)	No	Depth (Ir					Present? Yes <u>No X</u>			

Project/Site: Newport Municipal Airport				City/County: Newport				Sampling Dat	te: 25-S	ep-2019
Applicant/Owner: 0	City of Newp	ort				State:	OR	Sampling Poi	nt:	128
Investigator(s): L. Joh	Section, Township, Range: Section 29, Township 11 S, Range 1				Range 11 S					
Landform (hillslope, t	errace, etc.)	: hillslope		Local relief (co	ncave, convex	, none):	Concav	e s	Slope (%):	10
Subregion (LRR): /	A2 - Willame	ette Valley	Lat: 44.56	5239	L	ong: <u>-12</u> 4	1.05936	э [Datum: NAD	83
Soil Map Unit Name:	Nelscott Ic	am, 12 to 50 perc	ent slopes			NW	l classif	cation: none		
Are climatic / hydrolo	gic conditior	ns on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Demorito: Descrided presinitation i			41				

Remarks: Recorded precipitation in previous months was below normal range

Tree Stratum (Plot size: 10m R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	60	Х	FACU	That Are OBL, FACW, or FAC: 1 (A)
2. Pseudotsuga menziesii	20	Х	FACU	
3. Frangula purshiana	15		FAC	Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	95	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Gaultheria shallon	40	Х	FACU	That Are OBL, FACW, or FAC: 25.00 (A/B)
2. Rubus spectabilis	5		FAC	
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species 90 x 1= 90
	45	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 25 x 3= 75
1. Carex obnupta	75	Х	OBL	FACU species 123 x 4= 492
2. Blechnum spicant	5		FAC	UPL species x 5=
3. Lysichiton americanus	15		OBL	Column Totals: 238 (A) 657 (B)
4. Menziesia ferruginea	3		FACU	
5.				Prevalence Index = $B/A = 2.76$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9			X 3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	98	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				I

US Army Corps of Engineers

Sampling Point:

SOIL				Sampling Point:	128
Profile Description: (Describe to the dep	th needed to document the indicator or o	confirm the	absence of in	dicators.)	
Depth Matrix	Redox Features				
(inches) Color (moist) %	Color (moist) % Type	e ¹ Loc ²	Texture	Remarks	
0-3 10yr 2/1 100			Silt loam	High organics	
3-14 10yr 3/1 100			Sand loam	High organics	
14-16 10yr 4/1 100			Loamy sand	High organics	
	<u> </u>				
	=Reduced Matrix, CS=Covered or Coated	Sand Grains		ocation: PL=Pore Linir	
Hydric Soil Indicators: (Applicable to all	_RRs, unless otherwise noted.)		Indicators for	r Problematic Hydric	Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muc	k (A10)	
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parer	nt Material (TF2)	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except ML	RA 1)	Very Shal	low Dark Surface (TF1	2)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Ex	plain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)				
Thick Dark Surface (A12)	Redox Dark Surface (F6)		³ Indicators of I	hydrophytic vegetatior	n and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland h	ydrology must be pres	ent,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless dis	turbed or problematic.	
Restrictive Layer (if present):					
Type: Depth (inches):	— ₁	lydric Soil	Prosont?	res X No	
	<u> </u>				
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one require	d: check all that apply)		Secondar	y Indicators (2 or more	e required)
Surface Water (A1)	Water-Stained Leaves (B9) (except	MLRA		Stained Leaves (B9) (<u>/</u> /
X High Water Table (A2)	1, 2, 4A, and 4B)			and 4B)	,_,
X Saturation (A3)	Salt Crust (B11)			ge Patterns (B10)	
Water Marks (B1)	Aquatic Invertebrates (B13)		Dry-Se	ason Water Table (C2	2)
Sediment Deposits (B2)	X Hydrogen Sulfide Odor (C1)		Satura	tion Visible on Aerial I	magery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living	Roots (C3)	Geomo	orphic Position (D2)	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)			w Aquitard (D3)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	. ,		eutral Test (D5)	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LR	RR A)		Ant Mounds (D6) (LR	,
Inundation Visible on Aerial Imagery(B	· · · ·		Frost-F	leave Hummocks (D7)
Sparsely Vegetated Concave Surface	58)				
Field Observations:					
Surface Water Present? Yes	No X Depth (Inches): NA				
Water Table Present? Yes X	No Depth (Inches): 11				
Saturation Present? Yes X	No Depth (Inches): Surface	Wetlar	nd Hydrology I	Present? Yes X	(
(includes capillary fringe) Describe Recorded Data (stream gauge, m	onitoring well serial photos, provious isons	actions) if a	vailable		
Describe Recorded Data (stream gauge, ff	ormoring weil, aenai priotos, previous inspe	cuons), ii av	vallaule		
Remarks:					

Project/Site: Newport Municipal Airport			City/County:	City/County: Newport				te: 25-Se	ep-2019		
Applicant/Owner: 0	City of New	port				State:	OR	Sampling Poi	nt: 1	29	
Investigator(s): L. Johnson, A. Brophy				Section, To	Section, Township, Range: Section 29, T				ownship 11 S, Range 11 S		
Landform (hillslope, t	terrace, etc	.): hillslope		Local relief (c	oncave, conve	, none):	convex	5	Slope (%):	20	
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.5	65239	L	.ong: <u>-12</u> 4	1.05936	9 [Datum: NAD	33	
Soil Map Unit Name:	Nelscott	loam, 12 to 50 perc	ent slopes			NW	l classif	ication: none			
Are climatic / hydrolo	gic condition	ons on the site typic	al for this time	of year? Yes	No X	(lf no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Normal	Circumst	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally pro	oblematic?	(If needed, e	xplain an	y answ	ers in Remarks	.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe woo	bolowno	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 10m R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	95	X	FACU	That Are OBL, FACW, or FAC:	1 (A)
2.	- <u> </u>				()
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	95	= Total Cover			
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species	
1. Gaultheria shallon	10	Х	FACU	That Are OBL, FACW, or FAC:	25.00 (A/B)
2					
3				Prevalence Index worksheet:	
4					ultiply by:
5				· · · · · · · · · · · · · · · · · · ·	
	10	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 3m R)				FAC species 2 x 3=	6
1. Menziesia ferruginea	3	X	FACU	FACU species 108 x 4=	432
2. Blechnum spicant	2	Х	FAC	UPL species x 5=	
3	.			Column Totals: <u>110</u> (A)	438 (B)
4					
5				Prevalence Index = B/A =	<u>3.98</u>
6				Hydrophytic Vegetation Indicator	s:
7				1- Rapid Test For Hydrophytic V	egetation
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10	.			4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a sepa	,
	5	= Total Cover		5- Wetland Non-Vascular Plants	
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Veg	
1				¹ Indicators of hydric soil and wetlan	nd hydrology must
2				be present, unless disturbed or pro	blematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 85				Vegetation Yes	No X
				Present?	
Remarks:				-	

US Army Corps of Engineers

Sampling Point: 129

		-	needed to document		or or cor	nfirm the	e absence of ir	dicators.)
Depth	Matr	ix	Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	Duff						Duff	Manualata
3-6	7.5yr 2.5/2	100					Silt loam	Many roots
6-16	7.5yr 2.5/2	100					Sandy loam	Many decaying sandstone bedu
¹ Type: C=	Concentration, D=	Depletion, RM=F	Reduced Matrix, CS=Co	overed or C	bated Sa	nd Grain	s. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soil	Indicators: (App	licable to all LR	Rs, unless otherwise	noted.)			Indicators fo	r Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muc	k (A10)
	Epipedon (A2)		Stripped Matrix (S6)					nt Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) (exce	pt MLRA	(1)	Very Shal	low Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix		•		Other (Ex	plain in Remarks)
	ed Below Dark Su	rface (A11)	Depleted Matrix (F3)	. /				· ,
Thick I	Dark Surface (A12)	- Redox Dark Surface	(F6)			³ Indicators of	hydrophytic vegetation and
Sandy	Mucky Mineral (S	1) <u> </u>	Depleted Dark Surfac	ce (F7)			wetland h	ydrology must be present,
Sandy	Gleyed Matrix (S4	•)	Redox Depressions (F8)			unless dis	sturbed or problematic.
Restrictive	Layer (if present):						
Type:	(_				D	Var Na V
Depth	(inches):		-		пус	IFIC SOII	Present?	Yes <u>No X</u>
Remarks:								
HYDROL	OGY							
Wetland Hy	/drology Indicato	rs:						
			check all that apply)				Secondar	y Indicators (2 or more required)
Surfac	e Water (A1)		Water-Stained Le	aves (B9) (except M	 LRA		Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4E					and 4B)
	tion (A3)		Salt Crust (B11)	,				ge Patterns (B10)
Water	Marks (B1)		Aquatic Invertebra	ates (B13)			Dry-Se	ason Water Table (C2)
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Satura	tion Visible on Aerial Imagery (C9)
Drift D	eposits (B3)		Oxidized Rhizospl	heres along	Living Ro	oots (C3) Geomo	orphic Position (D2)
Algal M	/lat or Crust (B4)		Presence of Redu	iced Iron (C	4)		Shallo	w Aquitard (D3)
	eposits (B5)		Recent Iron Redu		,	'		leutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		1) (LRR	A)		Ant Mounds (D6) (LRR A)
	tion Visible on Ae	0,00,00	Other (Explain in I	Remarks)			Frost-H	Heave Hummocks (D7)
Sparse	ely Vegetated Con	cave Surface (B8	3)					
	ervations:							
		Yes No		· · · · · · · · · · · · · · · · · · ·				
		Yes No		· ·				
Saturation		res No	o <u>X</u> Depth (Inc	hes): N/	•	Wetla	nd Hydrology	Present? Yes <u>No X</u>
•	capillary fringe)		itoring wall parial shat	on province	increati	one) if a	wailable	
Describe F	vecorded Data (Str	eam gauge, mon	itoring well, aerial phot	os, previous	mspecti	ons), II a		
Remarks:								

Project/Site: Newport Municipal Airport			City/County: City of Newport				Sampling Date:		25-Sep	-2019		
Applicant/Owner:	City of Ne	wport				S	State:	OR	Sampling F	Point:	13	0
Investigator(s): Luke	Johnson	and Amanda Brophy		Section, Tor	wnship, Ran	ige:	Sectio	n 29, To	ownship 11 S	S, Rang	ge 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (c	oncave, con	ivex, r	none): o	concave	9	Slope	e (%):	3
Subregion (LRR):	A2 - Willa	mette Vallet	Lat: 44.571	12		Lon	g: -124	.05707	9	Datu	m: NAD83	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes			-	NWI	classif	ication: Rive	erine		
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time of	year? Yes	No	Х	(lf no	, explai	n in Remarks	s.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Norr	nal Ci	rcumst	ances"	present' Yes	s X	No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needeo	d, exp	lain an	y answe	ers in Remar	ks.)		

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

Hydrophytic Vegetation Present?	Yes >	X No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarks: Recorded precipitation in	nroviouo m	onthe wor	holow porm	lrango			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Alnus rubra	60	1	FAC	That Are OBL, FACW, or FAC: 4 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Alnus rubra	10	1	FAC	That Are OBL, FACW, or FAC: 80.00 (A/B)
2. Gaultheria shallon	25	1	FACU	
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	35	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Athyrium cyclosorum	5	1	FAC	FACU species x 4=
2. Carex obnupta	1		OBL	UPL species x 5=
3				Column Totals:(A)(B)
4				
5				Prevalence Index = $B/A = 0$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	6	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	40	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	40	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes <u>X</u> No Present?
Remarks:				

US Army Corps of Engineers

Sampling Point: 130

Profile Description: (Describe to the depth Depth Matrix	needed to document the indicator or confirm the Redox Features	e absence of indicators.)
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 7.5 yr 3/2		Silt loam
¹ Type: C=Concentration D=Depletion RM=F	Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all LR	•	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	_Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	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)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	
Field Observations:		
Surface Water Present? Yes No	Depth (Inches): NA	
Water Table Present? Yes No		
	Depth (Inches): >16 Wetla	nd Hydrology Present? Yes <u>No X</u>
(includes capillary fringe)		
Departies Reported Data (atream gauge man	itaring wall parial photon providua inapactiona) if a	available
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspections), if a	

Project/Site: Newport Municipal Airport			City/Co	City/County: City of Newport				Sampling	Date:	25-Sep-2019		
Applicant/Owner:	City of Newp	ort						State:	OR	Sampling	Point:	131
Investigator(s): Luke	e Johnson an	d Amanda Brophy		Section	n, Towr	nship, Ran	ge:	Sectio	n 29, To	ownship 11	S, Ran	ge 11 S
Landform (hillslope,	terrace, etc.	: floodplain		Local rel	ief (cor	ncave, con	vex,	none):	concave	Э	Slop	e (%):
Subregion (LRR):	A2 - Willame	ette Vallet	Lat: 4	4.571228			Lo	ng: -124	1.05706	3	Datu	im: NAD83
Soil Map Unit Name	: 42E - Nel	scott loam, 12 to 5	0 percent slo	opes				NW	l classif	ication: Riv	/erine	
Are climatic / hydrol	ogic conditio	ns on the site typic	al for this tin	ne of year?	Yes	No	Х	(If no	, explai	n in Remarl	ks.)	
Are Vegetation	Soil	or Hydrology	significan	tly disturbed?		Are "Norr	nal C	ircumst	ances"	present' Ye	es X	No
Are Vegetation	Soil	or Hydrology	naturally	problematic?		(If neede	d, ex	plain an	y answ	ers in Rema	arks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X X	No No No	Is the Sampled Area within a Wetland?	Yes	x	No
Remarks: Recorded precipitation in pre	vious	nonth	ns was below norma	al range			

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3	(A)
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata: 3	(B)
		= Total Cover			•
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1.				That Are OBL, FACW, or FAC: 100.00	(A/B)
2.					
3.				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	•
		= Total Cover		FACW species x 2=	•
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Athyrium cyclosorum	5		FAC	FACU species x 4=	•
2. Carex obnupta	40	1	OBL	UPL species x 5=	•
3. Lemna minor	20	1	OBL		(B)
4. Maianthemum racemosum	20	1	FAC		(2)
5. Oenanthe sarmentosa	5	<u> </u>	OBL	Prevalence Index = B/A = 0	
6.				Hydrophytic Vegetation Indicators:	
7.				1- Rapid Test For Hydrophytic Vegetation	
8.				X 2- Dominance Test is >50%	
0				3- Prevalence Index is ≤3.0 ¹	
9 10.				4- Morphological Adaptations ¹ (Provide sup	porting
11.	·			data in Remarks or on a separate sheet)	
	90	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Exp	olain)
<u> </u>				¹ Indicators of hydric soil and wetland hydrology	
2.				be present, unless disturbed or problematic.	ymuot
۲					
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 40				Vegetation Yes X No	
				Present?	
Remarks:					

US Army Corps of Engineers

Sampling Point: 131

Profile Description: (Describe to the dept	n needed to document t	the indicate	or or con	firm the	e absence of indic	ators.)
Depth Matrix	Redox	x Features				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2 10 yr 2/1 95	7.5 yr 5/7	5	<u>C</u>	PI	Muck	
2-6 10 yr 3/1 100					Silt loam	
6-16 10 yr 4/1 100		<u> </u>	<u> </u>		Sand loam	
0-10 10 yi 4/1 100					Gand Ioann	
			·		<u> </u>	
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Co	vered or Co	ated Sar	nd Grain	s. ² Loca	tion: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise	noted.)			Indicators for P	roblematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muck (A	
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Parent M	, , ,
Black Histic (A3)	Loamy Mucky Mineral	(F1) (exce	pt MLRA	. 1)	Very Shallow	Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)			Other (Explai	n in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A12)	Redox Dark Surface (F6)			3Indicators of hvd	rophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface	,				plogy must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F				-	bed or problematic.
		-0)			uniess distan	bed of problematic.
Restrictive Layer (if present):						
Type: Depth (inches):	_		Hvd	ric Soil	Present? Yes	X No
			iiyu		Tresent: Tes	
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required	· check all that apply)				Secondary In	dicators (2 or more required)
ii				_		· · · · · · · · ·
Surface Water (A1)	Water-Stained Lea		хсерт імі	LRA		ined Leaves (B9) (MLRA 1, 2,
X High Water Table (A2)	1, 2, 4A, and 4B)			4A, an	,
X Saturation (A3)	Salt Crust (B11)					Patterns (B10)
Water Marks (B1)	Aquatic Invertebra					on Water Table (C2)
Sediment Deposits (B2)	X Hydrogen Sulfide C					Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizosph	-	-	oots (C3)) Geomorph	nic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduc		,		Shallow A	quitard (D3)
Iron Deposits (B5)	Recent Iron Reduc	tion in Tille	d Soils (C	6)	FAC-Neut	ral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stresse	ed Plants (D	1) (LRR /	A)	Raised An	nt Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in R	Remarks)			Frost-Hea	ve Hummocks (D7)
Sparsely Vegetated Concave Surface (B	8)					
Field Observations:			T			
	lo X Donth (Incl	nes): NA				
	No <u>X</u> Depth (Inch	· · · · · · · · · · · · · · · · · · ·	<u> </u>			
	No Depth (Inch	· · · · · · · · · · · · · · · · · · ·		14/	nd Uudrala D	
	No Depth (Inch	nes): zer	0	vvetia	nd Hydrology Pre	sent? Yes <u>X</u> No
(includes capillary fringe)				、 ·-		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photo	os, previous	inspectio	ons), if a	ivailable	
Remarks:						

Project/Site: Newpo	Project/Site: Newport Municipal Airport				City of Newpo	ort		Sampling Dat	te: 25-Se	p-2019
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poi	nt: 1	32
Investigator(s): Luke	Johnson	and Amanda Brophy		Section, To	wnship, Range	: Sectio	n 29, To	ownship 11 S, I	Range 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (co	oncave, conve	x, none):	concave	e (Slope (%):	2
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.57	70731	I	_ong: -124	4.05785	5 I	Datum: NAD8	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slope:	S		NW	l classif	ication: Riverir	ne	
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time o	of year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norma	l Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?	(If needed, e	explain ar	iy answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Remarka: Recorded precipitation in	nroviouo	mont		normal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 30' R) % Cover Species? Status Number of Dominant Species 1. Alnus rubra 20 1 FAC That Are OBL, FACW, or FAC: 2. tal Number of Dominant

3.				Total Number of Dominant	
4. Willow sp	10	1	FAC	Species Across All Strata:	3 (B)
	30	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1				That Are OBL, FACW, or FAC	: <u>100.00</u> (A/B)
2.					
3				Prevalence Index workshee	et:
4				Total % Cover of:	Multiply by:
5				OBL species	x 1=
		= Total Cover		FACW species	x 2=
Herb Stratum (Plot size: 5' R)				FAC species	x 3=
1. Athyrium cyclosorum	5		FAC	FACU species	x 4=
2. Carex obnupta	80	1	OBL	UPL species	x 5=
3.				Column Totals: (A)	(B)
4.					
5.				Prevalence Index = B/A =	= <u>0</u>
6.				Hydrophytic Vegetation Inc	licators:
7				1- Rapid Test For Hydrop	hytic Vegetation
8				X 2- Dominance Test is >50)%
9				3- Prevalence Index is ≤3	.0 ¹
10.				4- Morphological Adaptat	ions ¹ (Provide supporting
11.	5			data in Remarks or on	a separate sheet)
	90	= Total Cover		5- Wetland Non-Vascular	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophyt	ic Vegetation ¹ (Explain)
1.				¹ Indicators of hydric soil and	wetland hydrology must
2.				be present, unless disturbed	
	_	= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes	X No
				Present?	<u> </u>
Remarks:				-	

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Western Mountains, Valleys, and Coast - Version 2.0

3

(A)

Drafila Deserint	ion: (Deceribe to	44.0	needed te deeuweuw	the indicate				adiantara)	
		the depth	needed to document		or or con	mrm the	e absence of it	naicators.)	
Depth	Matrix			ox Features	_ 1	. 2			
(inches) 0-8	Color (moist) 10 yr 2/2	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture Silt loam	Mucky	Remarks
8-16	10 yr 4/1	<u>100</u> 90	5 yr 5/8	10	С	PI	Silt loam	IVIUCKY	
		- 30	0 91 0/0		0	<u> </u>	Ontrodin		
									_
·									<u> </u>
			educed Matrix, CS=C		ated Sar	nd Grain	s. ² L	ocation: PL	=Pore Lining, M=Matr
Hydric Soil Indic	ators: (Applicabl	e to all LR	Rs, unless otherwise	e noted.)			Indicators for	or Problem	atic Hydric Soils ³ :
Histosol (A1)		Sandy Redox (S5)				2 cm Mu	ck (A10)	
Histic Epipe	don (A2)		Stripped Matrix (S6)				Red Pare	nt Material	(TF2)
Black Histic	(A3)		Loamy Mucky Minera	al (F1) (exce	ot MLRA	1)	Very Sha	llow Dark S	urface (TF12)
X Hydrogen Su	ulfide (A4)		Loamy Gleyed Matrix	. ,			Other (E>	plain in Re	marks)
	low Dark Surface (A11) X	Depleted Matrix (F3)						
	Surface (A12)		Redox Dark Surface						c vegetation and
	y Mineral (S1)		Depleted Dark Surfa						ust be present,
Sandy Gleye	ed Matrix (S4)		Redox Depressions	(F8)			unless di	sturbed or p	problematic.
Restrictive Laye	r (if present):								
Туре:	,								
Depth (inche	es):		-		Hyd	ric Soil	Present?	Yes X	No
Remarks:			-						
riomanio.									
HYDROLOGY									
Wetland Hydrold							0		(0
	•	e requirea;	check all that apply)			_			s (2 or more required)
Surface Wat	. ,		Water-Stained Le	. , .	серт мі	LRA			eaves (B9) (MLRA 1, 2,
X High Water			1, 2, 4A, and 4 Salt Crust (B11)	в)				, and 4B) age Pattern	s (B10)
Water Marks			Aquatic Invertebr	ates (B13)				0	er Table (C2)
Sediment De	, ,		X Hydrogen Sulfide	()					on Aerial Imagery (C9)
Drift Deposit			Oxidized Rhizosp		iving Ro	oots (C3)		orphic Posi	
Algal Mat or	Crust (B4)		Presence of Red		,		Shallo	w Aquitard	(D3)
Iron Deposit	()		Recent Iron Redu		`	,		leutral Tes	· ,
Surface Soil	()		Stunted or Stress) (LRR)	A)			ds (D6) (LRR A)
	isible on Aerial Ima		Other (Explain in	Remarks)			Frost-	Heave Hun	nmocks (D7)
	getated Concave S	unace (Do)						
Field Observati									
Surface Water F Water Table Pre		No X No	· · ·		_				
Saturation Prese		X No		ches): 10 ches): surfa	ce	Wetla	nd Hydrology	Present?	Yes X No
(includes capilla						Wetta	na nyalology	resent.	
	• • •	auge, mon	itoring well, aerial pho	tos, previous	inspectio	ons), if a	vailable		
-									
Remarks:									

Project/Site: Newport Municipal Airport				City/County:	City of New	oort		Sampling Dat	te: 25-Se	o-2019
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poi	nt: 1	33
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tov	wnship, Rang	e: Sectio	on 29, To	ownship 11 S, I	Range 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (co	oncave, conv	ex, none):	concave	e s	Slope (%):	2
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.57	0707		Long: -12	4.05792	2 <u></u> [Datum: NAD8	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes			NW	I classif	ication: Riverir	ne	
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No	X (lf no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed	, explain ar	ny answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х	
amarke: Pasardad procinitation in provinus months was below parmal range								

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	60	1	FACU	•	A)
2. Frangula purshiana	20	1	FAC		'
3.		. <u> </u>		Total Number of Dominant	
4.				Species Across All Strata: 3 (E	B)
	80	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Alnus rubra	5		FAC	That Are OBL, FACW, or FAC: 33.33 (A/	/B)
2. Gaultheria shallon	40	1	FACU		
3. Rubus spectabilis	10		FAC	Prevalence Index worksheet:	
4. Vaccinium parvifolium	5		FACU	Total % Cover of: Multiply by:	
5. Frangula purshiana	10			OBL species x 1=	
	70	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1				FACU species x 4=	
2				UPL species x 5=	
3				Column Totals: (A) (B))
4					
5				Prevalence Index = $B/A = 0$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide suppor	ting
11				data in Remarks or on a separate sheet)	
		= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain	
1				¹ Indicators of hydric soil and wetland hydrology m	ust
2				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes No X	
				Present?	_
Remarks:					

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Sampling Point: 133

								eanping: entit 100
Profile Des	scription: (Describe to	the depth	needed to document	the indicate	or or cor	nfirm the	absence of ind	icators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	Duff	70		/0	1990	200	Duff	Romano
5-16	10 yr 3/4	100				·	Silt loam	
¹ Type: C=	Concentration, D=Deple	tion, RM=R	educed Matrix, CS=Co	overed or Co	bated Sa	nd Grain	s. ² Loc	ation: PL=Pore Lining, M=Matr
	Indicators: (Applicab							Problematic Hydric Soils ³ :
							2 am Music	(440)
Histos	, ,		Sandy Redox (S5)				2 cm Muck	
	Epipedon (A2)		Stripped Matrix (S6)					Material (TF2)
	Histic (A3)		Loamy Mucky Minera		Pt MLRA	(1)		w Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Other (Expl	ain in Remarks)
	ed Below Dark Surface	(A11)	Depleted Matrix (F3)					
	Dark Surface (A12)		Redox Dark Surface (drophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfac	()			-	Irology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions (F	-8)			unless distu	irbed or problematic.
Restrictive	Layer (if present):							
Type:	, , ,							
	(inches):		-		Hyd	Iric Soil	Present? Ye	es No X
			-					
Remarks:								
HYDROL	OGY							
Wetland Hy	/drology Indicators:							
-	dicators (minimum of or	e required:	check all that apply)				Secondary	Indicators (2 or more required)
· · · · ·	e Water (A1)	1	Water-Stained Lea	aves (R9) (e	xcent M			tained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4B		xeept in			ind 4B)
	tion (A3)		Salt Crust (B11)	<i>'</i>)				e Patterns (B10)
	Marks (B1)		Aquatic Invertebra	tes (B13)				son Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide					on Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosph		Living Ro	oots (C3)		phic Position (D2)
	Aat or Crust (B4)		Presence of Redu	-	-	. ,		Aquitard (D3)
Iron De	eposits (B5)		Recent Iron Reduc	ction in Tille	d Soils (0	C6)	FAC-Net	utral Test (D5)
Surfac	e Soil Cracks (B6)		Stunted or Stresse	ed Plants (D	1) (LRR	A)	Raised A	Ant Mounds (D6) (LRR A)
Inunda	tion Visible on Aerial Im	agery(B7)	Other (Explain in F	Remarks)			Frost-He	ave Hummocks (D7)
Sparse	ely Vegetated Concave	Surface (B8)					
Field Obs	ervations:							
Surface W	ater Present? Yes	No	X Depth (Inc	hes): NA	\			
Water Tab	le Present? Yes	No	· · ·	hes): >1	6			
Saturation	Present? Yes	No	Depth (Inc	hes): >1	6	Wetla	nd Hydrology Pr	resent? Yes <u>No X</u>
(includes d	capillary fringe)							
Describe F	Recorded Data (stream g	gauge, mon	itoring well, aerial photo	os, previous	inspecti	ons), if a	vailable	
Domortico								
Remarks:								

Project/Site: Newport Municipal Airport				City/County:	City of Newpo	ort		Sampling Dat	te: 25-Se	p-2019
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poi	nt: 1	34
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tov	vnship, Range	: Sectio	on 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	etc.): floodplain		Local relief (co	oncave, conve	x, none):	convex	5	Slope (%):	0
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.57	'0696		Long: -124	4.06037	2 [Datum: NAD8	3
Soil Map Unit Name	: 42E - N	Nelscott loam, 12 to 5	0 percent slopes	\$		NW	I classif	ication: none		
Are climatic / hydrol	ogic cond	itions on the site typic	al for this time o	of year? Yes	No X	(If no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly c	disturbed?	Are "Norma	I Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	olematic?	(If needed,	explain ar	ny answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Remarka: Reported presinitation is							

Recorded precipitation in previous months was below normal range Remarks:

VEGETATION – Use scientific names of plants. Г D ~:-

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Alnus rubra	40	1	FAC	That Are OBL, FACW, or FAC: 2 (A)
2.		<u> </u>		
3.				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
	40	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1.				That Are OBL, FACW, or FAC: 100.00 (A/B)
2.				
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
		= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Lysichiton americanus	5		OBL	FACU species x 4=
2. Carex obnupta	60	1	OBL	UPL species x 5=
3				Column Totals: (A) (B)
4				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11	5			data in Remarks or on a separate sheet)
	70	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 30				Vegetation Yes X No
				Present?
Remarks:				

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Western Mountains, Valleys, and Coast - Version 2.0

1

Sampling Point: 134

Profile Description: (Describe to the dep	th needed to document	the indicate	or or con	firm the	absence of i	ndicators.)
Depth Matrix		x Features				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4 10 yr 2/2 95	7.5 yr 4/6	5	<u>C</u>	Pl/m	Silt loam	
4-16 10 yr 3/2 85	5 yr 4/6	15	С	PI	Silt loam	Lots of organic material
	·					
	· · · · · · · · · · · · · · · · · · ·					
¹ Type: C=Concentration, D=Depletion, RM	I=Reduced Matrix, CS=Co	overed or Co	ated Sar	nd Grain	s. ² L	ocation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise	noted.)			Indicators for	or Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Mu	ck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Pare	ent Material (TF2)
Black Histic (A3)	Loamy Mucky Minera	l (F1) (exce	pt MLRA	. 1)	Very Sha	llow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)			Other (Ex	xplain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A12)	X Redox Dark Surface (,			3Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surfac	e (F7)			wetland h	hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)			unless di	sturbed or problematic.
Restrictive Layer (if present):						
Туре:						
Depth (inches):			Hyd	ric Soil	Present?	Yes X No
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	ed; check all that apply)				Seconda	ry Indicators (2 or more required)
Surface Water (A1)	Water-Stained Lea	aves (B9) (e	xcept M	– LRA		-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4E					a, and 4B)
X Saturation (A3)	Salt Crust (B11)	-				
Water Marks (B1)	Aquatic Invertebra	(5.4.0)			Draina	age Patterns (B10)
Carlins ant Danasita (D2)						age Patterns (B10) eason Water Table (C2)
Sediment Deposits (B2)	X Hydrogen Sulfide	Odor (C1)			Dry-S Satura	
Drift Deposits (B3)	X Hydrogen Sulfide Oxidized Rhizosph	Odor (C1) neres along	•	oots (C3)	Dry-S Satura) Geom	eason Water Table (C2) ation Visible on Aerial Imagery (C9) orphic Position (D2)
Drift Deposits (B3) Algal Mat or Crust (B4)	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu	Odor (C1) neres along ced Iron (C4	4)		Dry-S Satura) Geom Shallo	eason Water Table (C2) ation Visible on Aerial Imagery (C9) orphic Position (D2) ow Aquitard (D3)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu	Odor (C1) neres along ced Iron (C4 ction in Tille	l) d Soils (C	26)	Dry-S Satura) Geom Shallo FAC-I	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) w Aquitard (D3) Neutral Test (D5)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D	l) d Soils (C	26)	Dry-S Satura)Geom Shallo FAC-t Raise	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse 7) Other (Explain in F	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D	l) d Soils (C	26)	Dry-S Satura)Geom Shallo FAC-t Raise	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) w Aquitard (D3) Neutral Test (D5)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse 7) Other (Explain in F	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D	l) d Soils (C	26)	Dry-S Satura)Geom Shallo FAC-t Raise	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface (Field Observations:	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse 7) Other (Explain in F B8)	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D Remarks)	4) d Soils (C 1) (LRR /	26)	Dry-S Satura)Geom Shallo FAC-t Raise	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F B8)	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D Remarks) hes): <u>N</u> 4	4) d Soils (C 1) (LRR /	26)	Dry-S Satura)Geom Shallo FAC-t Raise	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F B8) No X Depth (Inc No X Depth (Inc	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D Remarks) hes): <u>N4</u> hes):	4) d Soils (C 1) (LRR /	C6) A)	Dry-S Satura Geom FAC-1 Raise Frost-	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B' Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes X	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F B8)	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D Remarks) hes): <u>N4</u> hes):	4) d Soils (C 1) (LRR /	C6) A)	Dry-S Satura)Geom Shallo FAC-t Raise	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse 7) Other (Explain in F B8) No X Depth (Inc No X Depth (Inc No Depth (Inc	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D Remarks) hes): <u>N4</u> hes): <u>5</u>	4) d Soils (C 1) (LRR /	C6) A) Wetla	Dry-S Satura Geom FAC-1 Raise Frost-	eason Water Table (C2) ation Visible on Aerial Imagery (C9) norphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B' Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes X (includes capillary fringe)	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse 7) Other (Explain in F B8) No X Depth (Inc No X Depth (Inc No Depth (Inc	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D Remarks) hes): <u>N4</u> hes): <u>5</u>	4) d Soils (C 1) (LRR /	C6) A) Wetla	Dry-S Satura Geom FAC-1 Raise Frost-	eason Water Table (C2) ation Visible on Aerial Imagery (C9) iorphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B' Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes X (includes capillary fringe)	X Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse 7) Other (Explain in F B8) No X Depth (Inc No X Depth (Inc No Depth (Inc	Odor (C1) neres along ced Iron (C4 ction in Tille ed Plants (D Remarks) hes): <u>N4</u> hes): <u>5</u>	4) d Soils (C 1) (LRR /	C6) A) Wetla	Dry-S Satura Geom FAC-1 Raise Frost-	eason Water Table (C2) ation Visible on Aerial Imagery (C9) iorphic Position (D2) ww Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/County:	City of New	port		Sampling Dat	e: 25-Sep	-2019
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poi	nt: 13	35
Investigator(s): Luke	Johnson	and Amanda Brophy		Section, Tov	vnship, Rang	ge: Secti	on 29, T	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (co	oncave, conv	vex, none):	none	5	Slope (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.57	0682		Long: -12	4.06040	8 [Datum: NAD8	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes			NW	/I classif	ication: none		
Are climatic / hydrol	ogic condit	tions on the site typic	al for this time of	f year? Yes	No	X (lf n	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation Soil or Hydrology naturally prob			lematic?	(If needed	, explain a	ny answ	ers in Remarks	.)		

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

Hydrophytic Vegetation Present?	Yes	X No						
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х	
Remarks: Recorded precipitation in		onthe wa	s below por	nal range				

Recorded precipitation in previous months was below normal range emarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Frangula purshiana	50	1	FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Alnus rubra	40	1	FAC	
3.		<u> </u>		Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	90	= Total Cover		· · ·
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Polystichum munitum	75	1	FACU	That Are OBL, FACW, or FAC: 60.00 (A/B)
2. Gaultheria shallon	20	1	FACU	
3. Rubus spectabilis	20	1	FAC	Prevalence Index worksheet:
4. Lonicera involucrata	5		FAC	Total % Cover of: Multiply by:
5				OBL species x 1=
	120	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1				FACU species x 4=
2.				UPL species x 5=
3				Column Totals: (A) (B)
4				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
		= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				•

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Sampling Point: 135

Profile Description: (Describe to the dept	h needed to document the indicator or o	confirm the a	absence of indic	ators.)
Depth Matrix	Redox Features			
(inches) Color (moist) %	Color (moist) % Type	e ¹ Loc ²	Texture	Remarks
0-16 10YR 2/2 100			Sand loam	
<u> </u>				
<u> </u>				
<u> </u>				
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated S	Sand Grains.	² Loca	tion: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	I	Indicators for Pi	roblematic Hydric Soils ³ :
Listand (Ad)	Sandy Baday (SE)		2 am Musle //	140)
Histosol (A1)	Sandy Redox (S5)	-	2 cm Muck (#	
Histic Epipedon (A2)	Stripped Matrix (S6)	-	Red Parent M	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except ML	RA 1)	Very Shallow	Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	_	Other (Explai	n in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	-		
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3	Indicators of hyd	rophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		-	plogy must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		-	bed or problematic.
			unicas distan	bed of problematic.
Restrictive Layer (if present):				
Type: Depth (inches):		lydric Soil P	resent? Yes	No X
	— ["			
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required	d: check all that apply)		Secondary In	dicators (2 or more required)
· · · · ·		<u> </u>		
Surface Water (A1)	Water-Stained Leaves (B9) (except	MLRA		iined Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)		4A, an	•
Saturation (A3)	Salt Crust (B11)			Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)			on Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)			Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living	Roots (C3)		nic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)		Shallow A	quitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	s (C6)	FAC-Neut	ral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LR	RR A)	Raised Ar	nt Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)		Frost-Hea	ve Hummocks (D7)
Sparsely Vegetated Concave Surface (E	38)			
Field Observations:				
Field Observations:				
	No X Depth (Inches): NA No X Depth (Inches): >16	1		
		14/-11-		
	No X Depth (Inches): >16	wetiand	d Hydrology Pre	sent? Yes <u>No X</u>
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ctions), if ava	ailable	
Remarks:				

Project/Site: Newpo	rt Municipa	l Airport		City/County:	City of Newpo	rt		Sampling Dat	te: 25-Se	p-2019
Applicant/Owner:	City of New	wport				State:	OR	Sampling Poi	nt: 1	36
Applicant/Owner: City of Newport hvestigator(s): Luke Johnson and Amanda Brophy andform (hillslope, terrace, etc.): floodplain		Section, Tov	vnship, Range:	Sectio	n 29, To	ownship 11 S, F	Range 11 S			
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (co	oncave, conve	k, none):		5	Slope (%):	3
Subregion (LRR):	floodplain		Lat: 44.589	9045	L	ong: -124	.05921	3 [Datum: NAD8	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes			NW	l classif	ication: PFO		
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Are Vegetation Soil or Hydrology naturally pro			lematic?	(If needed, e	explain an	y answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Demontro: Depended presinitation in			ha waa ha				

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Alnus rubra	5 5	1	FAC	Number of Dominant Species	()
	5		FAC	That Are OBL, FACW, or FAC:4	(A)
2				Total Number of Dominant	
4.				Species Across All Strata: 4	(B)
+	5				(B)
Sapling/Shrub Stratum (Plot size: 30' R)	5	= Total Cover		Percent of Dominant Species	
1 Malus fusca	5		FACW	That Are OBL, FACW, or FAC: 100.00	(A/B)
2. Gaultheria shallon	5		FACU		(,,,,,,)
3. Spiraea douglasii	20	1	FACW	Prevalence Index worksheet:	
4. Lonicera involucrata	20	1	FAC	Total % Cover of: Multiply b	v:
5				OBL species x 1=	
··· <u> </u>	50	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Blechnum spicant	10		FAC	FACU species x 4=	
2. Athyrium cyclosorum	10		FAC	UPL species x 5=	
3 Carex obnupta	50	1	OBL	Column Totals: (A)	(B)
4					(B)
5				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7.				1- Rapid Test For Hydrophytic Vegetation	on
8.				X 2- Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide	supporting
11				data in Remarks or on a separate sh	
	70	= Total Cover		5- Wetland Non-Vascular Plants ¹	,
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹	(Explain)
1				¹ Indicators of hydric soil and wetland hydro	oloav must
2.				be present, unless disturbed or problemati	•••
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X No	
				Present?	
Remarks:				1	

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						<i>c a</i>		
Profile De:	scription: (Describe to	the depth	needed to document	the indicat	or or cor	mirm the	e absence of in	aicators.)
Depth	Matrix		Redo	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 2/2	100					silt loam	
5-16	10YR 4/1	80	7.5YR 4/6	20	С	PL	silt loam	
<u> </u>								
¹ Type: C=	Concentration, D=Deple	tion, RM=R	educed Matrix, CS=C	overed or C	oated Sar	nd Grain	is. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soil	Indicators: (Applicab	le to all LR	Rs, unless otherwise	e noted.)			Indicators for	r Problematic Hydric Soils ³ :
Histop	ol (A1)		Sandy Daday (SE)				2 om Muo	k (A10)
	ol (A1)		Sandy Redox (S5)				2 cm Muc	
	Epipedon (A2)		Stripped Matrix (S6)					nt Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) (exce	pt MLRA	. 1)	Very Shal	low Dark Surface (TF12)
X Hydrog	gen Sulfide (A4)	_	Loamy Gleyed Matrix	(F2)			Other (Exp	plain in Remarks)
Deplet	ed Below Dark Surface	(A11) X	Depleted Matrix (F3)					
 Thick I	Dark Surface (A12)	· · <u> </u>	Redox Dark Surface	(F6)			3Indicators of I	hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surface	. ,				/drology must be present,
	Gleyed Matrix (S4)		Redox Depressions (turbed or problematic.
Sanuy	Gleyeu Matrix (34)			(го)			uniess uis	turbed of problematic.
Postrictivo	Layer (if present):							
	Layer (il present).							
Type:	(inchoo);		-		Llud	ria Sail	Drecent?	
Depth	(inches):		-		пуа	10 301	Present?	res <u>X</u> No
Remarks:								
HYDROL	DGY							
Wotland Hy	/drology Indicators:							
-								
Primary In	dicators (minimum of on	e required;	check all that apply)			_	Secondar	y Indicators (2 or more required)
Surfac	e Water (A1)		Water-Stained Le	aves (B9) (e	except M	LRA	Water-	Stained Leaves (B9) (MLRA 1, 2,
High V	Vater Table (A2)		1, 2, 4A, and 4	В)			4A,	and 4B)
X Satura	tion (A3)		Salt Crust (B11)				Draina	ge Patterns (B10)
Water	Marks (B1)		Aquatic Invertebra	ates (B13)			Dry-Se	ason Water Table (C2)
Sedim	ent Deposits (B2)		X Hydrogen Sulfide	Odor (C1)			Satura	tion Visible on Aerial Imagery (C9)
Drift D	eposits (B3)		Oxidized Rhizosp	heres along	Living Ro	oots (C3) Geomo	orphic Position (D2)
Algal N	lat or Crust (B4)		Presence of Redu	uced Iron (C	4)		Shallov	w Aquitard (D3)
	eposits (B5)		Recent Iron Redu		,	(6)		eutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress			,		Ant Mounds (D6) (LRR A)
	tion Visible on Aerial Im	agerv(B7)	Other (Explain in		., (-)		leave Hummocks (D7)
	ely Vegetated Concave S	0,0,0		, , ,				
	, - <u>g</u>							
Field Obs	ervations:							
Surface W	ater Present? Yes	No	· ·	ches): N/	4			
Water Tab	le Present? Yes	No	X Depth (Inc	ches): >1	6			
Saturation	Present? Yes	X No	Depth (Inc	ches): 5	_	Wetla	nd Hydrology I	Present? Yes X No
(includes d	apillary fringe)							
Describe F	Recorded Data (stream g	jauge, mon	toring well, aerial phot	tos, previous	s inspectio	ons), if a	available	
Remarks:								

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/County:	City of New	port		S	ampling Date:	25-Sep	-2019
Applicant/Owner:	City of Ne	wport		-		State	: OR	κ s	ampling Point:	13	7
Investigator(s): Luke	Johnson	and Amanda Brophy		Section, Tor	wnship, Rang	ge: Seo	tion 29,	Town	nship 11 S, Ran	ge 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (co	oncave, conv	/ex, none	e): none		Slop	be (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.58	9009		Long: -	24.0592	289	Datu	um: NAD83	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes	\$		Ν	WI clas	sifica	tion: PFO		
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time o	of year? Yes	No	X (If	no, exp	lain ir	n Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly c	listurbed?	Are "Norm	nal Circur	nstance	s" pre	esent' Yes X	(No	
Are Vegetation Soil or Hydrology naturally prob			plematic?	(If needed	l, explain	any ans	swers	in Remarks.)			

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

Hydrophytic Vegetation Present?	Yes	X No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pemarks: Pecorded precipitation in		onthe wor	bolow porm	al range			

Recorded precipitation in previous months was below normal range emarks:

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3 (A	4)
2					
3				Total Number of Dominant	
4				Species Across All Strata: 4 (E	3)
	:	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus parviflorus	10		FACU	That Are OBL, FACW, or FAC: 75.00 (A/	/B)
2. Gaultheria shallon	30	1	FACU		
3. Spiraea douglasii	20	1	FACW	Prevalence Index worksheet:	
4. Lonicera involucrata	10		FAC	Total % Cover of: Multiply by:	
5				OBL species x 1=	
	70	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Equisetum arvense	10	1	FAC	FACU species x 4=	
2. Athyrium cyclosorum	5	1	FAC	UPL species x 5=	
3				Column Totals: (A) (B))
4.				、,	
5.				Prevalence Index = $B/A = 0$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				X 2 Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide support	tina
11				data in Remarks or on a separate sheet)	
11	15	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain	n)
				¹ Indicators of hydric soil and wetland hydrology m	
2				be present, unless disturbed or problematic.	aor
2					
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X No	_
				Present?	
Remarks:					

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Sampling Point: 137

Profile Des	scription: (Describ	e to the depth	needed to document	the indicato	r or cor	firm the	e absence of ind	icators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	С
0-16	10YR 2/1	100			21		fill/gravel	
					<u> </u>			
¹ Type: C=	Concentration. D=D	epletion. RM=R	educed Matrix, CS=Co	overed or Co	ated Sar	nd Grain	s. ² Loc	ation: PL=Pore Lining, M=Matr
			Rs, unless otherwise					Problematic Hydric Soils ³ :
				,				-
Histos			Sandy Redox (S5)				2 cm Muck	
	Epipedon (A2)		Stripped Matrix (S6)					Material (TF2)
	Histic (A3)		Loamy Mucky Minera		t MLRA	. 1)		w Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix	: (F2)			Other (Expla	ain in Remarks)
·	ed Below Dark Surfa	ice (A11)	Depleted Matrix (F3)					
	Dark Surface (A12)		Redox Dark Surface	()			-	drophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfac	ce (F7)			wetland hyd	rology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions (F8)			unless distu	rbed or problematic.
Restrictive	Layer (if present):							
Type:	fill							
	(inches): 6		-		Hyd	ric Soil	Present? Ye	s No X
Remarks:								
HYDROLO	DGY							
Wetland Hy	/drology Indicators	:						
Primary In	dicators (minimum o	f one required;	check all that apply)				Secondary I	ndicators (2 or more required)
Surfac	e Water (A1)	•	Water-Stained Le	aves (B9) (e)	cent M			tained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4E	. , .				nd 4B)
	tion (A3)		Salt Crust (B11)	-,				Patterns (B10)
	Marks (B1)		Aquatic Invertebra	ates (B13)				son Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturatio	on Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizospl		iving Ro	oots (C3)		ohic Position (D2)
Algal N	Aat or Crust (B4)		Presence of Redu	iced Iron (C4)		Shallow	Aquitard (D3)
Iron De	eposits (B5)		Recent Iron Redu	ction in Tillec	Soils (C	26)	FAC-Neu	utral Test (D5)
Surfac	e Soil Cracks (B6)		Stunted or Stress	ed Plants (D1) (LRR .	A)	Raised A	ant Mounds (D6) (LRR A)
Inunda	tion Visible on Aeria	I Imagery(B7)	Other (Explain in I	Remarks)			Frost-He	ave Hummocks (D7)
Sparse	ely Vegetated Conca	ve Surface (B8)					
Field Obs	ervations:							
Surface W	ater Present? Ye	s No	X Depth (Inc	hes): NA				
Water Tab	le Present? Ye	s No	X Depth (Inc	hes): >16				
Saturation	Present? Ye	s No	X Depth (Inc	hes): >16		Wetla	nd Hydrology Pr	esent? Yes <u>No X</u>
(includes d	capillary fringe)							
Describe F	Recorded Data (strea	am gauge, moni	toring well, aerial phot	os, previous	inspectio	ons), if a	vailable	
Pomorko								
Remarks:								

Project/Site: Newport Municipal Airport			City/County:	City/County: City of Newport			Sampling Date	e: 24-Sep	-2019	
Applicant/Owner:	City of Nev	vport				State:	OR	Sampling Poin	nt: 13	8
Investigator(s): Luke	e Johnson a	and Amanda Brophy		Section, Tov	wnship, Range:	Sectio	n 29, To	wnship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (co	oncave, conve	(, none):	none	S	lope (%):	3
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.58	85897	L	.ong: <u>-12</u> 4	1.04884	5 D	atum: NAD83	3
Soil Map Unit Name	: 42E - Ne	elscott loam, 12 to 5	0 percent slope	S		NW	l classifi	cation: none		
Are climatic / hydrol	ogic conditi	ons on the site typic	al for this time o	of year? Yes	No X	(If no	, explaii	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?	(If needed, e	xplain an	iy answe	ers in Remarks.))	

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

Hydrophytic Vegetation Present?	Yes	Х	No					
Hydric Soil Present?	Yes	Х	No	ls	the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	wi	thin a Wetland?	Yes	х	No
Pomarka: Recorded precipitation in		mont	ha waa halaw	ormal ran	a 0			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				
3				Total Number of Dominant
4				Species Across All Strata: 3 (B)
	:	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Alnus rubra	40	1	FAC	That Are OBL, FACW, or FAC: 100.00 (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	40	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Holcus lanatus	5		FAC	FACU species x 4=
2. Equisetum arvense	10	1	FAC	UPL species x 5=
3. Juncus effusus	20	1	FACW	Column Totals: (A) (B)
4. Blechnum spicant	5		FAC	
5.				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8.				X 2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	40	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1.				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 50				Vegetation Yes X No
				Present?
Remarks: slough sedge concentration in center of	wetland			
Remaine. Slough seage concentration in center of	woulding			

US Army Corps of Engineers

Sampling Point: 138

Profile De								
	scription: (Describe to	the depth	needed to document	the indicat	or or cor	nfirm the	e absence of ir	ndicators.)
Depth	Matrix		Red	ox Features				
					_ 1	. 2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/1	100					sand loam	greasy texture
6-11	10YR 2/1	100					Sand loam	
11-16	2.5Y 5/6	96	2.5Y 4/8	4	С	М	sand	
1							2.	
<i>,</i> 1	=Concentration, D=Deple				bated Sai	nd Grain	is. ² L	ocation: PL=Pore Lining, M=Matr
Hydric Soi	I Indicators: (Applicab	le to all LR	Rs, unless otherwise	noted.)			Indicators fo	r Problematic Hydric Soils ³ :
Histos	sol (A1)		Sandy Redox (S5)				2 cm Muc	ck (A10)
Histic	Epipedon (A2)		Stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) (exce	nt MI RA	(1)	Verv Sha	llow Dark Surface (TF12)
	()					• • •		
<u> </u>	gen Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Other (Ex	plain in Remarks)
Deplet	ted Below Dark Surface	(A11)	Depleted Matrix (F3)					
Thick	Dark Surface (A12)		Redox Dark Surface	(F6)			3Indicators of	hydrophytic vegetation and
	/ Mucky Mineral (S1)		Depleted Dark Surface	. ,				ydrology must be present,
				. ,				
Sandy	/ Gleyed Matrix (S4)		Redox Depressions (F8)			unless dis	sturbed or problematic.
Restrictive	e Layer (if present):							
Type:								
	(inches):				Hvd	iric Soil	Present?	Yes X No
•	· · ·		•		_			
Remarks:								
HYDROL	OGY							
HYDROL	OGY							
	OGY ydrology Indicators:							
Wetland H	ydrology Indicators:	e required:	check all that apply)				Secondar	v Indicators (2 or more required)
Wetland H	ydrology Indicators: ndicators (minimum of or	ne required;						y Indicators (2 or more required)
Wetland H Primary In X Surfac	ydrology Indicators: ndicators (minimum of or ce Water (A1)	ne required;	Water-Stained Le		except M	 LRA		y Indicators (2 or more required) -Stained Leaves (B9) (MLRA 1, 2,
Wetland H Primary In X Surfac	ydrology Indicators: ndicators (minimum of or	he required;			except M	 LRA	Water	· · · · · · · · · · · · · · · · · · ·
Wetland H Primary In X Surfac	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2)	e required;	Water-Stained Le		except M	 LRA	Water 4A	-Stained Leaves (B9) (MLRA 1, 2,
Wetland H Primary In X Surfac X High V X Satura	ydrology Indicators: ndicators (minimum of or ce Water (A1) Nater Table (A2) ation (A3)	ne required; (Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	3)	except M	 LRA	Water 4A Draina	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10)
Wetland H Primary In X Surfac X High V X Satura Water	ydrology Indicators: ndicators (minimum of or ce Water (A1) Nater Table (A2) ation (A3) Marks (B1)	e required; (Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra	3) ates (B13)	except M	 LRA	Water 4A Draina Dry-Se	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2)
Wetland H Primary In X Surfac X High V X Satura Water Sedim	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) • Marks (B1) nent Deposits (B2)	e required;	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1)			Water 4A Draina Dry-Se Satura	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) Ition Visible on Aerial Imagery (C9)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3)	e required;	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	3) ates (B13) Odor (C1) heres along	Living Ro		Water 4A Draina Dry-Se Satura	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) Ition Visible on Aerial Imagery (C9) orphic Position (D2)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) • Marks (B1) nent Deposits (B2)	e required;	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1) heres along	Living Ro		Water 4A Draina Dry-Se Satura	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) Ition Visible on Aerial Imagery (C9)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3)	e required;	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	3) ates (B13) Odor (C1) heres along uced Iron (C-	Living Ro	oots (C3	Water- 4A Draina Dry-Se Satura) Geom	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) Ition Visible on Aerial Imagery (C9) orphic Position (D2)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) Marks (B1) Deposits (B2) Deposits (B3) Mat or Crust (B4) Peposits (B5)	e required;	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	3) odor (C1) heres along uced Iron (C- ction in Tille	Living Ro 4) d Soils (C	pots (C3 C6)	Water 4A Draina Dry-Se Satura) Geom Shallo FAC-N	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) lige Patterns (B10) eason Water Table (C2) ation Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) • Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Peposits (B5) ce Soil Cracks (B6)		Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (C	Living Ro 4) d Soils (C	pots (C3 C6)	Water- 4A Draina Dry-Se Satura) Geom Shallo FAC-N Raiseo	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Inunda	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) • Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im	agery(B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (C	Living Ro 4) d Soils (C	pots (C3 C6)	Water- 4A Draina Dry-Se Satura) Geom Shallo FAC-N Raiseo	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) Ition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Inunda	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) • Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Peposits (B5) ce Soil Cracks (B6)	agery(B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (C	Living Ro 4) d Soils (C	pots (C3 C6)	Water- 4A Draina Dry-Se Satura) Geom Shallo FAC-N Raiseo	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Sparse	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) • Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im	agery(B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (C	Living Ro 4) d Soils (C	pots (C3 C6)	Water- 4A Draina Dry-Se Satura) Geom Shallo FAC-N Raiseo	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Sparse	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) veposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im ely Vegetated Concave at servations:	agery(B7) Surface (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	3) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (D Remarks)	Living Ro 4) d Soils (0 1) (LRR	pots (C3 C6)	Water- 4A Draina Dry-Se Satura) Geom Shallo FAC-N Raiseo	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surface Field Obs Surface V	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) veposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im ely Vegetated Concave a servations: Vater Present? Yes	agery(B7) Surface (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (C Remarks) ches): <u>N</u>	Living Ro 4) d Soils (0 11) (LRR	pots (C3 C6)	Water- 4A Draina Dry-Se Satura) Geom Shallo FAC-N Raiseo	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surface Field Obs Surface W Water Tab	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) leposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im ely Vegetated Concave si servations: Vater Present? Yes ble Present? Yes	agery(B7) Surface (B8) X No X No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (D Remarks) ches): <u>N/</u> ches): <u>3</u>	Living Ro 4) d Soils (0 11) (LRR	oots (C3 C6) A)	Water 4A Draina Dry-Se Satura 9 Shallo FAC-N Raiseo Frost-I	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) attion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surface Field Obs Surface W Water Tab	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) reposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im ely Vegetated Concave si servations: Water Present? Yes ble Present? Yes	agery(B7) Surface (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (D Remarks) ches): <u>N/</u> ches): <u>3</u>	Living Ro 4) d Soils (0 11) (LRR	oots (C3 C6) A)	Water- 4A Draina Dry-Se Satura) Geom Shallo FAC-N Raiseo	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) attion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Surface W Water Tab Saturation	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) leposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im ely Vegetated Concave si servations: Vater Present? Yes ble Present? Yes	agery(B7) Surface (B8) X No X No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- ction in Tille ed Plants (D Remarks) ches): <u>N/</u> ches): <u>3</u>	Living Ro 4) d Soils (0 11) (LRR	oots (C3 C6) A)	Water 4A Draina Dry-Se Satura 9 Shallo FAC-N Raiseo Frost-I	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) attion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Surface W Water Tak Saturation (includes of	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave si servations: Vater Present? Yes the Present? Yes capillary fringe)	agery(B7) Surface (B8) X No X No X No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- iction in Tille ed Plants (D Remarks) ches): <u>N/</u> ches): <u>3</u> ches):3	Living Ro 4) d Soils (C 11) (LRR	Doots (C3 C6) A) Wetla	Water- 4A Draina Dry-Se Satura Shallo FAC-N Raisec Frost-I	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) attion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Surface W Water Tak Saturation (includes of	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) reposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im ely Vegetated Concave si servations: Water Present? Yes in Present? Yes	agery(B7) Surface (B8) X No X No X No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- iction in Tille ed Plants (D Remarks) ches): <u>N/</u> ches): <u>3</u> ches):3	Living Ro 4) d Soils (C 11) (LRR	Doots (C3 C6) A) Wetla	Water- 4A Draina Dry-Se Satura Shallo FAC-N Raisec Frost-I	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) attion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Sparse Field Obs Surface W Water Tab Saturation (includes of Describe I	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave si servations: Vater Present? Yes the Present? Yes capillary fringe)	agery(B7) Surface (B8) X No X No X No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- iction in Tille ed Plants (D Remarks) ches): <u>N/</u> ches): <u>3</u> ches):3	Living Ro 4) d Soils (C 11) (LRR	Doots (C3 C6) A) Wetla	Water- 4A Draina Dry-Se Satura Shallo FAC-N Raisec Frost-I	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) attion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Surface W Water Tak Saturation (includes of	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave si servations: Vater Present? Yes the Present? Yes capillary fringe)	agery(B7) Surface (B8) X No X No X No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- iction in Tille ed Plants (D Remarks) ches): <u>N/</u> ches): <u>3</u> ches):3	Living Ro 4) d Soils (C 11) (LRR	Doots (C3 C6) A) Wetla	Water- 4A Draina Dry-Se Satura Shallo FAC-N Raisec Frost-I	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) attion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland H Primary In X Surfac X High V X Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Sparse Field Obs Surface W Water Tab Saturation (includes of Describe I	ydrology Indicators: ndicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave si servations: Vater Present? Yes the Present? Yes capillary fringe)	agery(B7) Surface (B8) X No X No X No	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in Depth (Inc Depth (Inc	ates (B13) Odor (C1) heres along uced Iron (C- iction in Tille ed Plants (D Remarks) ches): <u>N/</u> ches): <u>3</u> ches):3	Living Ro 4) d Soils (C 11) (LRR	Doots (C3 C6) A) Wetla	Water- 4A Draina Dry-Se Satura Shallo FAC-N Raisec Frost-I	-Stained Leaves (B9) (MLRA 1, 2, , and 4B) Ige Patterns (B10) eason Water Table (C2) attion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Project/Site: Newport Municipal Airport			City/County:	City/County: City of Newport			Sampling Dat	e: 24-Se	p-2019	
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poi	nt: 1	39
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, To	wnship, Rang	e: Sectio	on 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): floodplain		Local relief (c	oncave, conv	ex, none):	none	5	Slope (%):	3
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.58	35839		Long: -124	4.04883	5 C	Datum: NAD8	3
Soil Map Unit Name	: 42E - N	Nelscott loam, 12 to 5	0 percent slopes	\$		NW	I classif	ication: none		
Are climatic / hydrol	ogic condi	itions on the site typic	al for this time o	of year? Yes	No 2	K (lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly of	disturbed?	Are "Norma	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prot	blematic?	(If needed,	explain ar	ny answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe woo	bolowno	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	20	1	FACU	That Are OBL, FACW, or FAC: 1 (A)
2.		<u> </u>		
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
	20	= Total Cover		
Sapling/Shrub Stratum (Plot size: _30' R)				Percent of Dominant Species
1. Gaultheria shallon	60	1	FACU	That Are OBL, FACW, or FAC: 33.33 (A/B)
2. Cytisus scoparius	10		NL	
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5.				OBL species x 1=
	70	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1				FACU species x 4=
2.				UPL species x 5=
3.				Column Totals: (A) (B)
4.				、
5.				Prevalence Index = $B/A = 0$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8.				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
		= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	20	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	20	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 10				Vegetation Yes No X
				Present?
Remarks:				1

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Sampling Point: 139

					1 0
Profile Description: (Describe to the de	epth needed to document the in	ndicator or con	nfirm the	absence of ind	licators.)
Depth Matrix	Redox Fea	atures			
			1 2	- /	D
(inches) Color (moist) %		% Type ¹	Loc ²	Texture	Remarks
0-16 10YR 5/6 10	0			sand	
¹ Type: C=Concentration, D=Depletion, R	M-Reduced Matrix, CS-Covere	d or Coated Sa	nd Grain	s ² l oc	cation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to a					Problematic Hydric Soils ³ :
Hydric Son Indicators. (Applicable to a	I LKKS, unless otherwise note	u.)		inuicators for	Froblematic Hydric Solls .
Histosol (A1)	Sandy Redox (S5)			2 cm Muck	(A10)
Histic Epipedon (A2)	Stripped Matrix (S6)			Red Parent	Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1)	(excent MI RA	1)	Verv Shallo	w Dark Surface (TF12)
Hydrogen Sulfide (A4)		(except ments	• •,		ain in Remarks)
, , ,	Loamy Gleyed Matrix (F2)				
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)				
Thick Dark Surface (A12)	Redox Dark Surface (F6)				drophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland hyd	drology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)			unless distu	urbed or problematic.
Restrictive Layer (if present):					
Type:					
Depth (inches):		Hyd	dric Soil	Present? Ye	es No X
Remarks:					
HYDROLOGY					
IIIDROEOGI					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one requ	red: check all that apply)			Secondarv	Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves	(BQ) (except M			tained Leaves (B9) (MLRA 1, 2,
	1, 2, 4A, and 4B)				and 4B)
High Water Table (A2)					•
Saturation (A3)	Salt Crust (B11)				e Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (I	,			son Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor				on Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres		oots (C3)		phic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced I	. ,			Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction		,		utral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Pla	ants (D1) (LRR	A)		Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery	B7) Other (Explain in Rema	rks)		Frost-He	eave Hummocks (D7)
Sparsely Vegetated Concave Surface	e (B8)				
Field Observations:					
	No. Y Dopth (Inches):	ΝΑ			
Surface Water Present? Yes	No X Depth (Inches): No X Depth (Inches):				
Water Table Present? Yes			\A/ - 41	a d I braha - I P	
Saturation Present? Yes	No X Depth (Inches):	>16	wetla	nd Hydrology Pr	resent? Yes <u>No X</u>
(includes capillary fringe)					
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pr	evious inspecti	ons), if a	vailable	
Remarks:					
Remarks:					

Project/Site: Newport Municipal Airport				City/County:	City/County: City of Newport				e: 24-Se	p-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poi	nt: 1	40
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tov	vnship, Range	e: Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	etc.): hillslope		Local relief (co	oncave, conve	ex, none):	conave	5	Slope (%):	3
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.588	3563		Long: -124	1.04886	3 [Datum: NAD8	3
Soil Map Unit Name	: 42C - I	Nelscott loam, 3 to 12	percent slopes			NW	l classif	ication: none		
Are climatic / hydrol	ogic cond	itions on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Norma	I Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain ar	iy answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	X No					
Hydric Soil Present?	Yes	No	X	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarks: Recorded precipitation in	nrevious m	onthe was	s helow norm	al range			

Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
23				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
+				
Sapling/Shrub Stratum (Plot size: 30' R)		= Total Cover		Percent of Dominant Species
1.				That Are OBL, FACW, or FAC: 100.00 (A/B)
2.				
3.				Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species x 1=
		= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Carex obnupta	100	1	OBL	FACU species x 4=
2. Phalaris arundinacea	10		FACW	UPL species x 5=
3.				Column Totals: (A) (B)
4.				()
5.				Prevalence Index = $B/A = 0$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8.				X 2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	110	= Total Cover		5-Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

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Profile Description: (Describe to the dep	th needed to document	the indicato	or or con	firm the	e absence of indi	cators.)
Depth Matrix	Redo	x Features				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8 10YR 2/1 100				<u></u>	silt loam	
8-14 10YR 6/3 90	10YR 5/6	10	C	M	silt loam	
¹ Type: C=Concentration, D=Depletion, RM			ated Sar	nd Grain	s. ² Loca	ation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all I	RRs, unless otherwise	noted.)			Indicators for F	Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muck ((A10)
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Parent	Material (TF2)
Black Histic (A3)	Loamy Mucky Minera	l (F1) (exce j	ot MLRA	. 1)	Very Shallow	v Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)			Other (Expla	in in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A12)	Redox Dark Surface (,			-	drophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surfac	. ,				rology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (I	-8)			unless distu	rbed or problematic.
Restrictive Layer (if present):						
Туре:						
Depth (inches):			Hyd	ric Soil	Present? Yes	s <u>No X</u>
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	d: check all that apply)				Secondary I	ndicators (2 or more required)
Surface Water (A1)	Water-Stained Lea	aves (B9) (e :	xcept M	_ LRA		ained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B					nd 4B)
Saturation (A3)	Salt Crust (B11)				Drainage	Patterns (B10)
Water Marks (B1)	Aquatic Invertebra	ites (B13)			Dry-Seas	on Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide					n Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizosph	-	-	oots (C3)		ohic Position (D2)
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Redu Recent Iron Redu		·	6)		Aquitard (D3) Itral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stresse		`	,		nt Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7			., ()		ave Hummocks (D7)
Sparsely Vegetated Concave Surface (38)					
Field Observations:						
Field Observations:						
Surface Water Present? Yes	No X Depth (Inc	hes): NA				
	No X Depth (Inc	·				
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes		hes): >16	6	Wetla	nd Hydrology Pro	esent? Yes <u>No X</u>
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inc No X Depth (Inc	hes): >16 hes): >16	<u>}</u>			esent? Yes <u>No X</u>
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	No X Depth (Inc No X Depth (Inc	hes): >16 hes): >16	<u>}</u>			esent? Yes <u>No X</u>
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (Inc No X Depth (Inc	hes): >16 hes): >16	<u>}</u>			esent? Yes <u>No X</u>

Project/Site: Newpo	rt Municip	al Airport		City/County:	City of Newpo	ort		Sampling Date	e: 24-Se	o-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 14	12
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	vnship, Range	: Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (co	oncave, conve	x, none):	concave	e 5	Slope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.58	8959	I	_ong: -124	4.05092	1 <u></u> C	Datum: NAD8	3
Soil Map Unit Name	: 42C - N	Nelscott loam, 3 to 12	percent slopes			NW	l classif	ication: none		
Are climatic / hydrol	ogic condi	itions on the site typic	al for this time of	f year? Yes	No X	(lf nc	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Normal	Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	explain ar	iy answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Remarka: Recorded precipitation in	nroviouo	mont		armal range			

Recorded precipitation in previous months was below normal range kemarks:

VEGETATION – Use scientific names of plants.

Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 30' R) % Cover Species? Status Number of Dominant Species 1. Alnus rubra 30 1 FAC That Are OBL, FACW, or FAC: 2. 3. Total Number of Dominant 4. Species Across All Strata:

4.				Species Across All Strata:	4	(B)
	30	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30' R)		—		Percent of Dominant Spec	ies	
1. Rubus spectabilis	10	1	FAC	That Are OBL, FACW, or F	AC: 100.0	0 (A/B)
2.						
3				Prevalence Index works	sheet:	
4				Total % Cover of:	Multiply	by:
5				OBL species	x 1=	
	10	= Total Cover		FACW species	x 2=	
Herb Stratum (Plot size: 5' R)		_		FAC species	x 3=	
1. Lysichiton americanus	5	1	OBL	FACU species	x 4=	
2. Carex obnupta	5	1	OBL	UPL species	x 5=	
3.				Column Totals:	(A)	(B)
4.					• • • • •	
5.				Prevalence Index = B	/A = <u>0</u>	
6				Hydrophytic Vegetation	Indicators:	
7				1- Rapid Test For Hyd	Irophytic Vegetat	ion
8.				X 2- Dominance Test is	>50%	
9.				3- Prevalence Index is	s ≤3.0 ¹	
10.				4- Morphological Adap	otations ¹ (Provide	e supporting
11.				data in Remarks or	on a separate s	heet)
	10	= Total Cover		5- Wetland Non-Vasc	ular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)		_		6- Problematic Hydrop	hytic Vegetation	¹ (Explain)
1				¹ Indicators of hydric soil	and wetland hyd	rology must
2.				be present, unless distur		
		= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum		_		Vegetation Yes	X N	D
				Present?		
				riesent?		
Remarks:				Fresent?		

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Western Mountains, Valleys, and Coast - Version 2.0

4

(A)

Sampling Point: 142

	h needed to document the indicator or confi	rm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
0-16 10 YR 2/1 100		silt loam mucky/greasy texture
17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2
Hydric Soil Indicators: (Applicable to all L	Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matr Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1	
	Loamy Gleyed Matrix (F2)	, <u> </u>
X Hydrogen Sulfide (A4)	Depleted Matrix (F3)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)		ala dia stana af buaha aka dia wa satati an an d
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):		c Soil Present? Yes X No
Remarks: NEED REDOX?	· · · · · ·	
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
	d; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1)	Water-Stained Leaves (B9) (except MLF	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2,
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)) FAC-Neutral Test (D5)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roor Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88)	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): 1	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes X Yes X	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): 1 No Depth (Inches): 1	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes X Yes X Water Table Present? Yes X	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): 1 No Depth (Inches): 1	RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Water Table Present? Yes X Mater Table Present? Yes Saturation Present? Yes X (includes capillary fringe) Imagery (Includes capillary fringe)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): No Depth (Inches): No Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Water Table Present? Yes X Mater Table Present? Yes Saturation Present? Yes X (includes capillary fringe) Imagery (Includes capillary fringe)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): 1 No Depth (Inches): 1	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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Project/Site: Newpo	rt Municipa	I Airport		City/County:	City of Newpo	rt		Sampling Date	e: 24-Sep	-2019
Applicant/Owner:	City of Nev	vport				State:	OR	Sampling Poin	it: 14	3
Investigator(s): Luke	e Johnson a	and Amanda Brophy		Section, Tow	nship, Range:	Sectio	n 29, To	wnship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (co	ncave, convex	, none):	none	S	lope (%):	4
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.588	8924	L	ong: -124	1.05089	3 D	atum: NAD83	3
Soil Map Unit Name	: 42C - N	elscott loam, 3 to 12	percent slopes			NW	l classif	cation: none		
Are climatic / hydrol	ogic conditi	ons on the site typic	al for this time of	year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.))	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	nthe wor	bolow po	rmal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1. Tsuga heterophylla	60	1	FACU	That Are OBL, FACW, or FAC: 1 (A)
2. Frangula purshiana	10		FAC	
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	70	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	10	1	FACU	That Are OBL, FACW, or FAC: 20.00 (A/B)
2. Tsuga heterophylla	30	1	FACU	
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	40	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Polystichum munitum	20	1	FACU	FACU species x 4=
2. Blechnum spicant	10	1	FAC	UPL species x 5=
3				Column Totals: (A) (B)
4.				
5.				Prevalence Index = $B/A = 0$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	30	= Total Cover		5-Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				
Nemarka.				

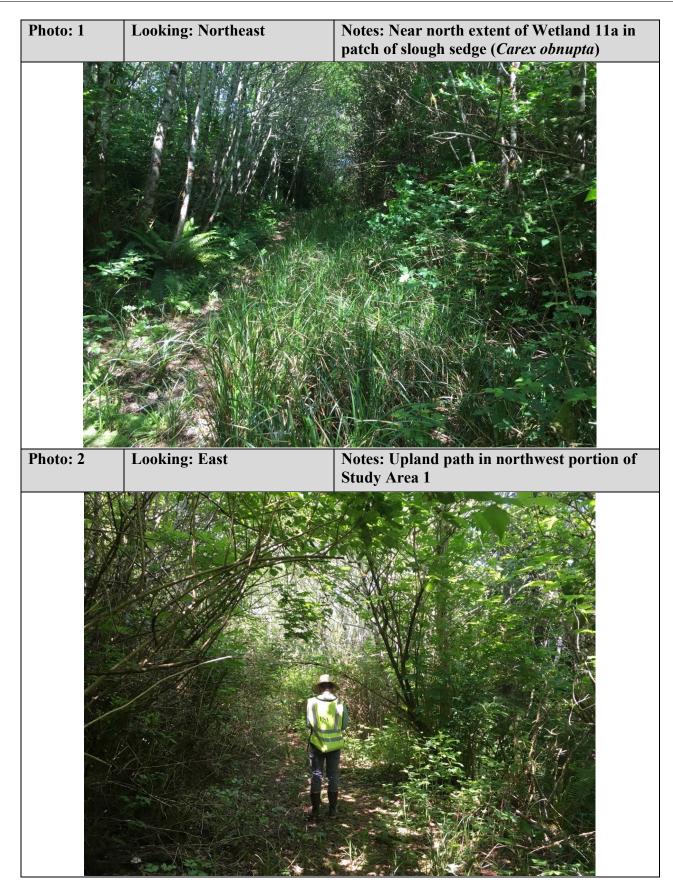
US Army Corps of Engineers

Sampling Point: 143

Profile Description: (Describe to the dep Depth Matrix		
Depth Matrix	th needed to document the indicator or confirm th	e absence of indicators.)
- optimited in the second seco	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10YR 4/3 90		silt loam
0-16 10YR 6/6 10		sandstone large fragments of bedrock
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all		Indicators for Problematic Hydric Soils ³ :
		0 om Musik (A40)
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Soil	Present? Yes No X
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require		
	d: check all that apply)	Secondary Indicators (2 or more required)
ii		Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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APPENDIX C

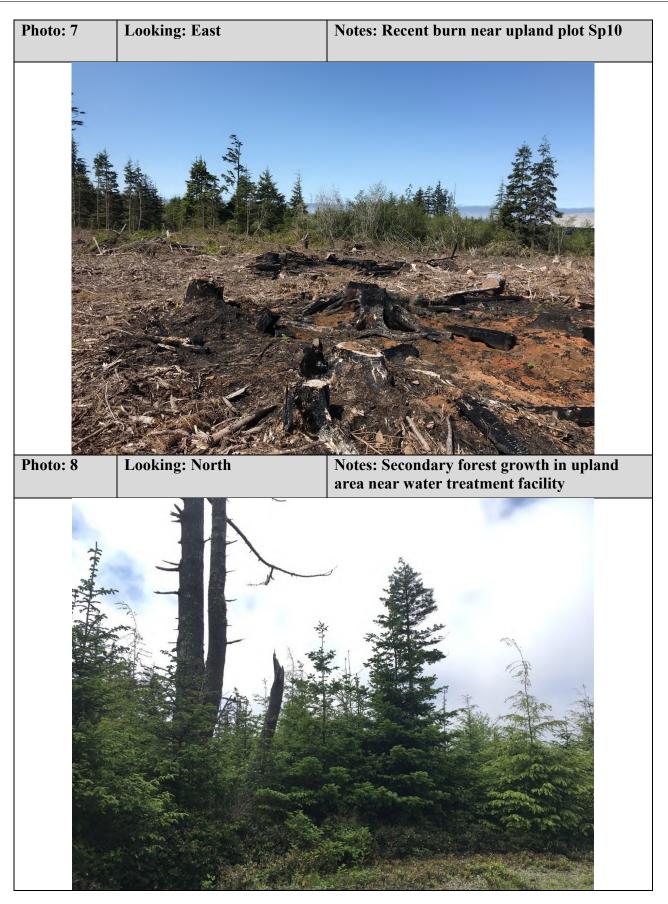
Photos



Newport Municipal Airport Obstruction Removal



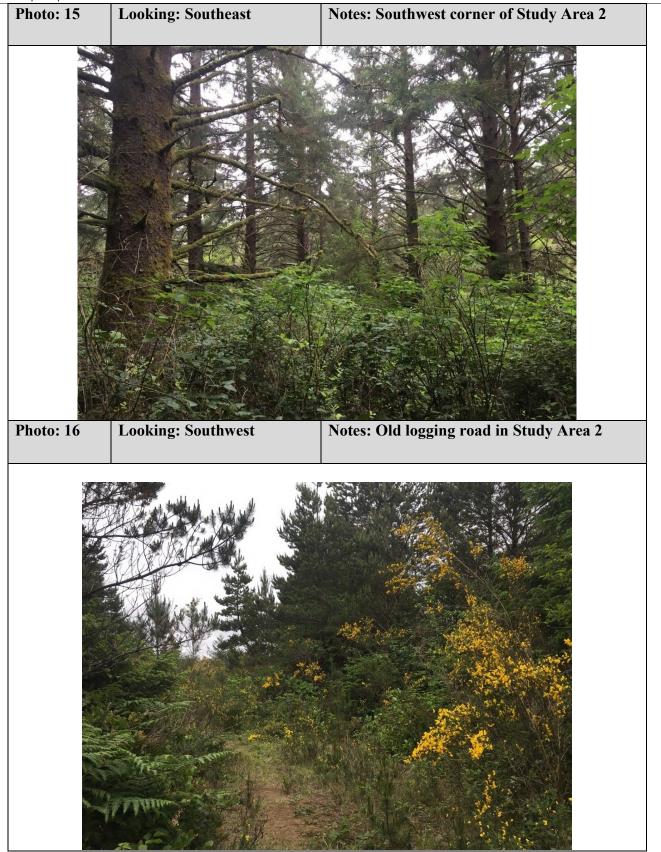


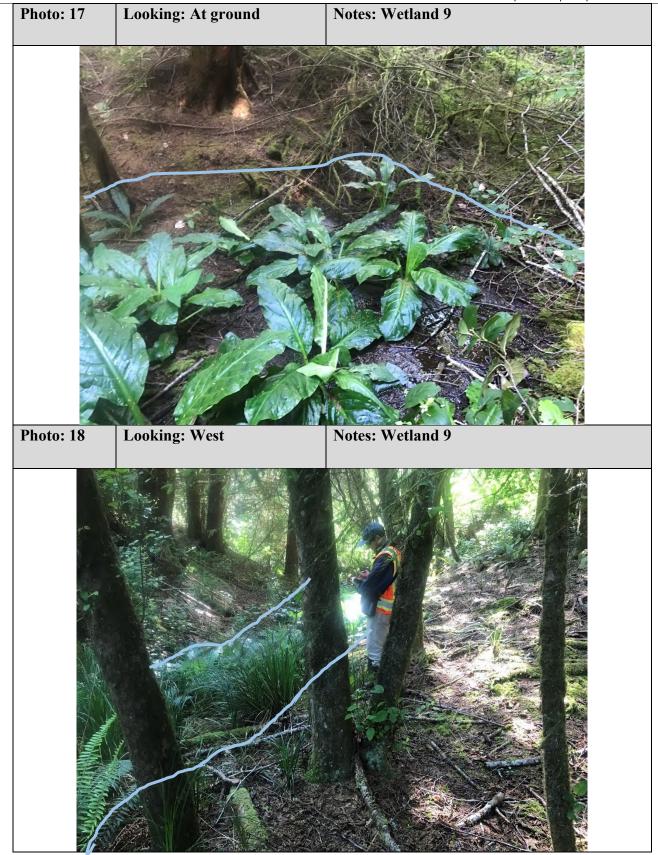


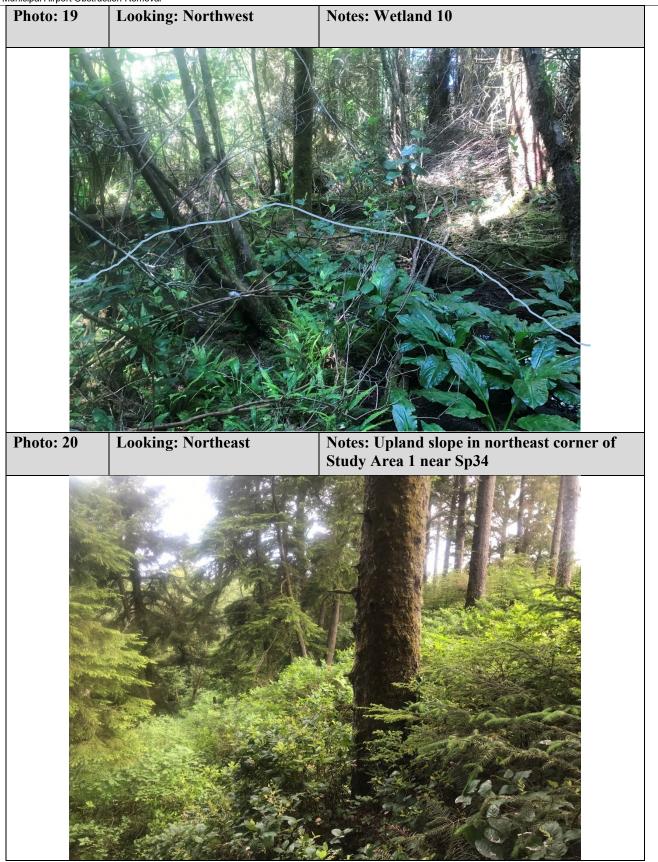




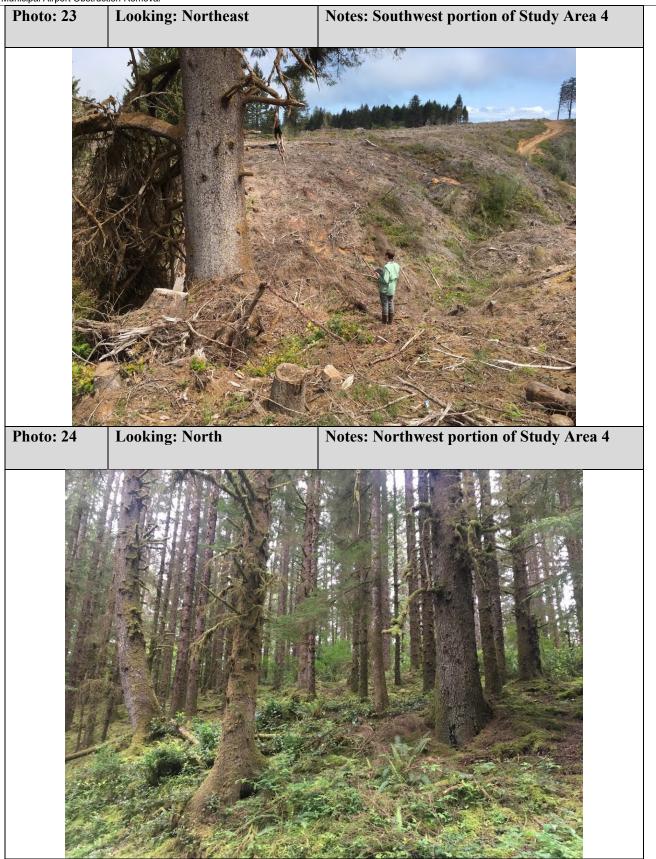


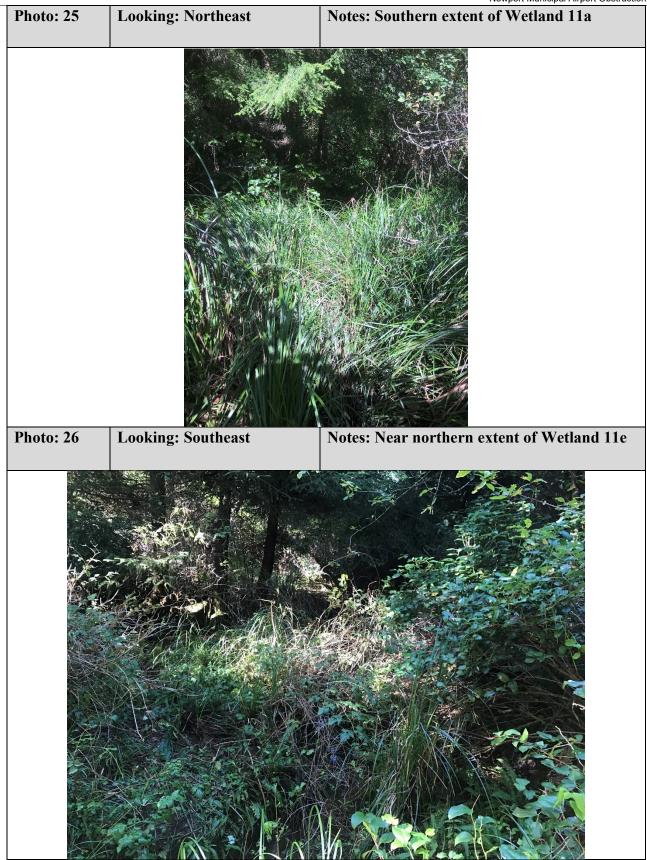




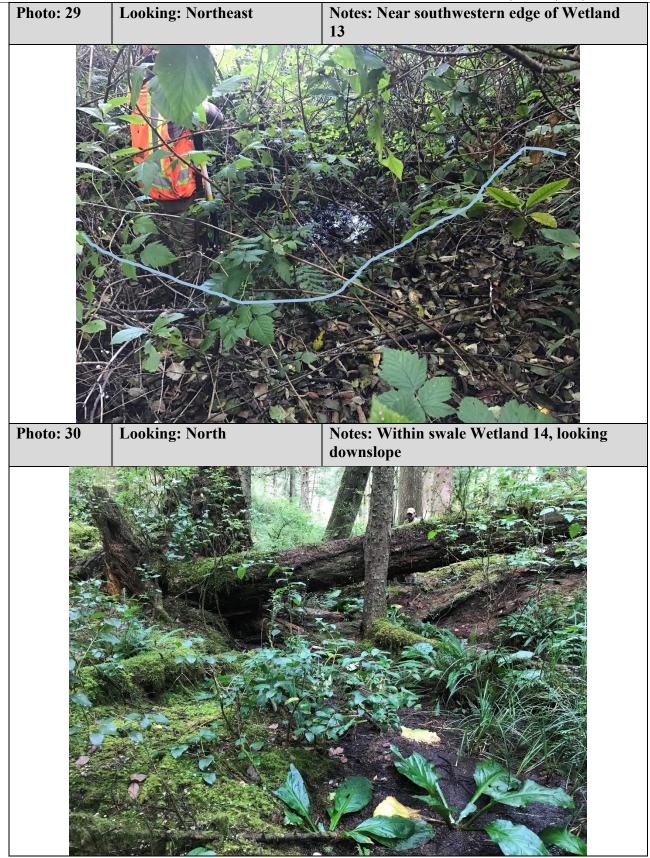








Municipal Airport Obstru Photo: 27	Looking: Southeast	Notes: Near northern edge of Wetland 11b
	Looking: Southeast	Notes: Near northern edge of wetland 11b
Photo: 28	Looking: East	Notes: Near lateral midpoint of Wetland 12, forest-access road (left)



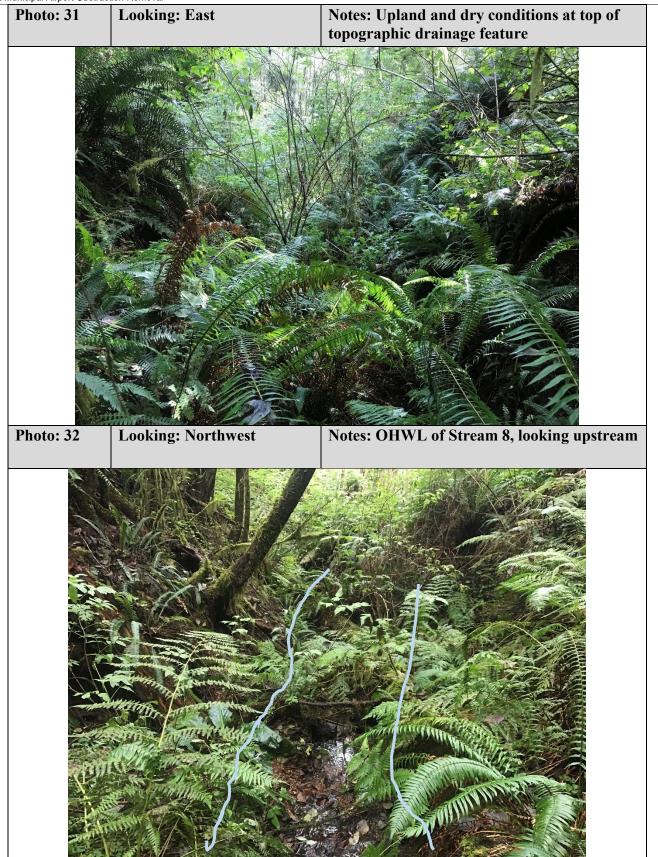
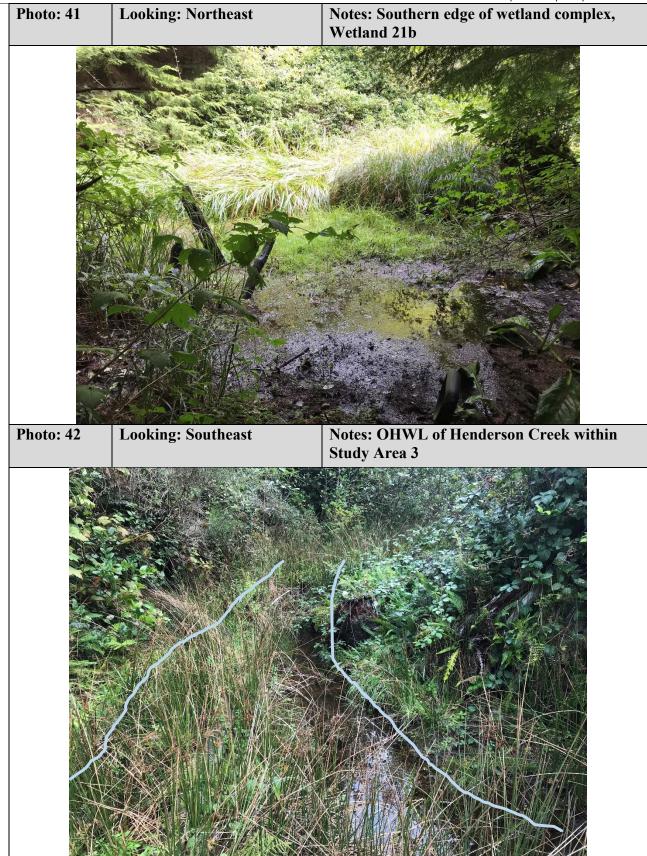


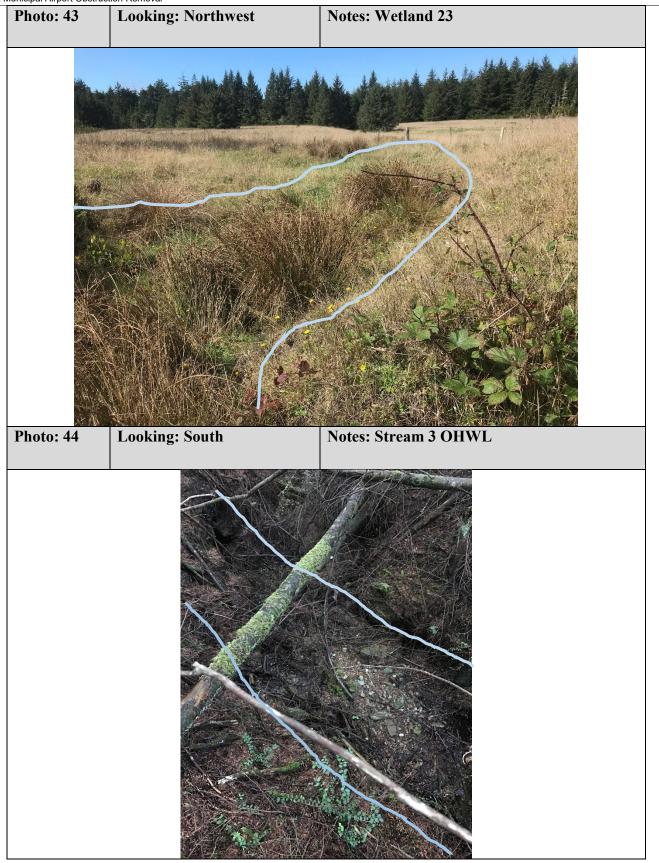


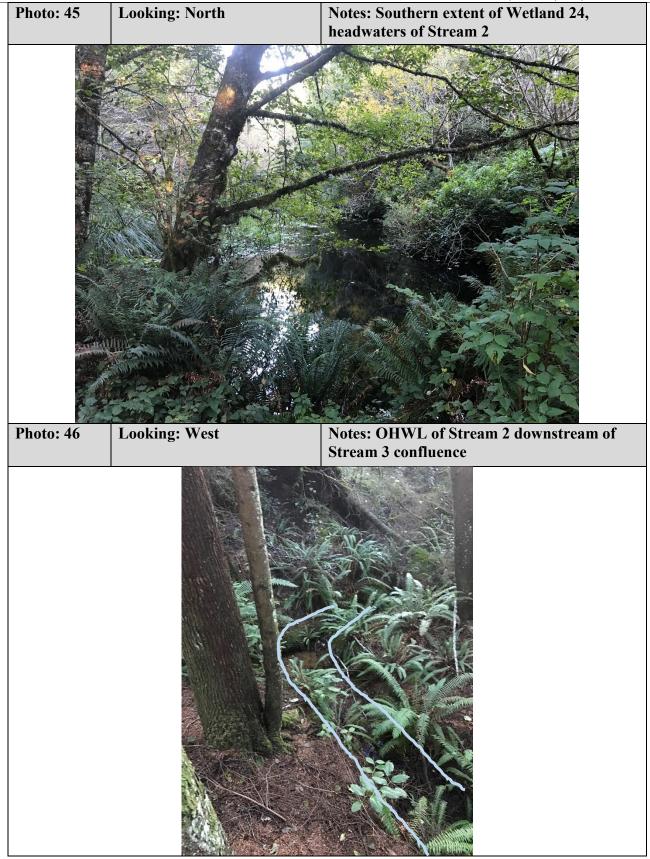
Photo: 35	Looking: Southeast	Notes: Upland alder forest within topographic drainage feature
Photo: 36	Looking: Southwest	Notes: Standing on upland plateau, looking into Wetland 18
	<image/>	

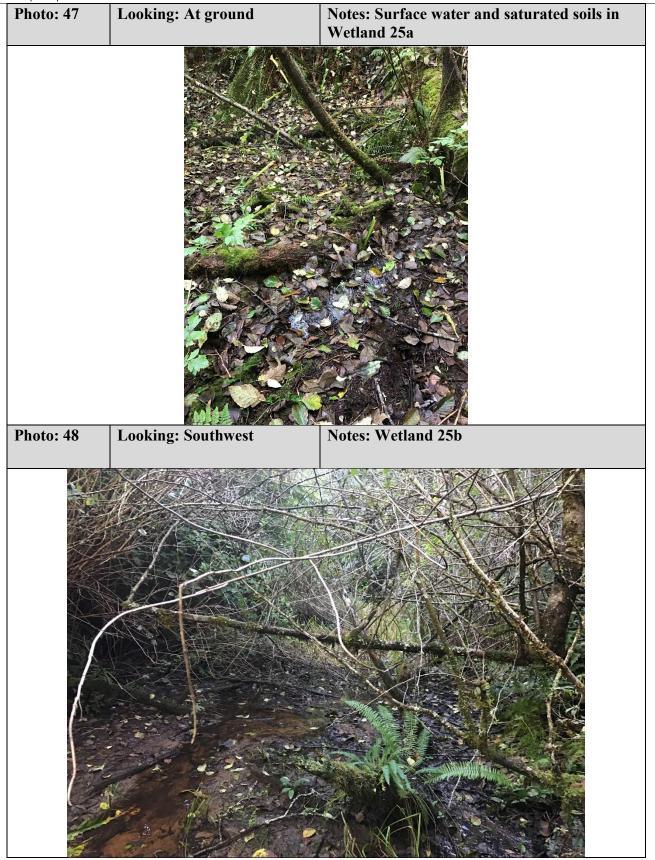










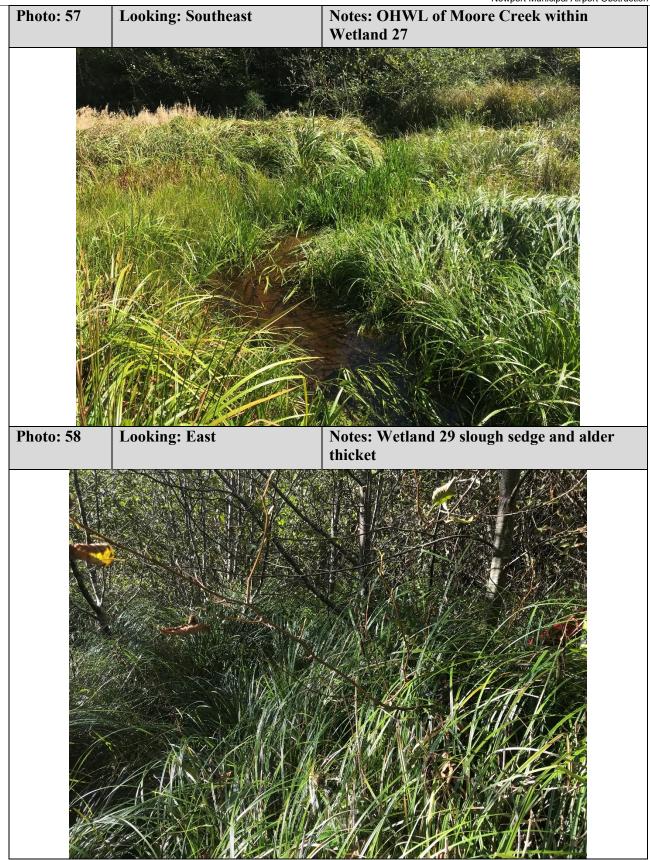




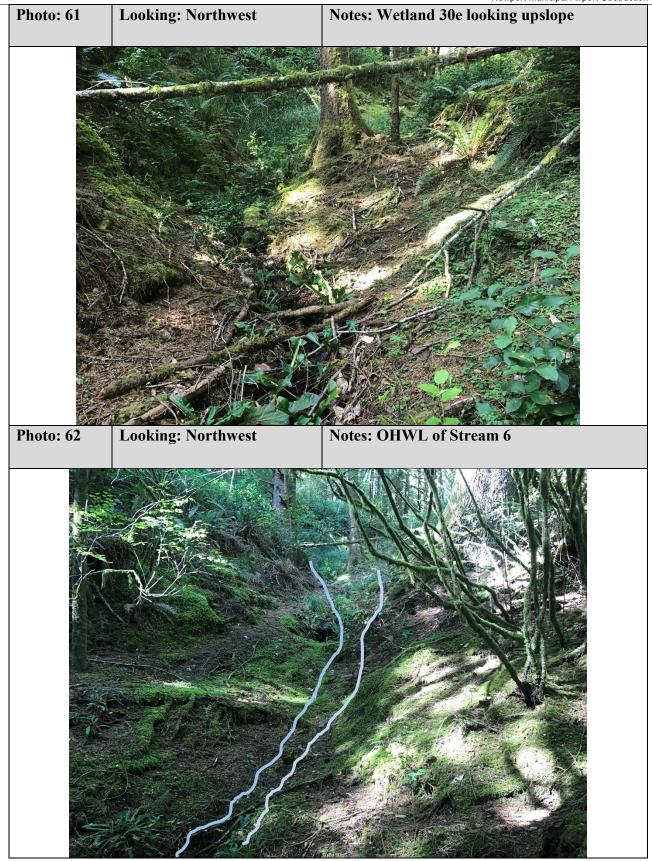












APPENDIX D

Literature Cited

Appendix D: Literature Cited

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