Port of Port Townsend

Sims Way Stormwater Facility

Jefferson County, Washington

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1. Executive Summary

The Port of Port Townsend proposes maintenance activities to repair the damaged, substandard, and Sims Way stormwater drainage and outfall by reconstructing the facility. These improvements will restore drainage patterns and provide basic treatment for stormwater generated by Sims Way and over 100 acres of City development. To inform their planning, wetland investigations and delineations were conducted on August 24, 2022, and February 14, 2025. To identify the extent of "Waters of the U.S." within the proposed development area and explore potential mitigation sites for any unavoidable impacts to wetlands resulting from the proposed maintenance activities. The study area is within Section 10 of Township 30N and Range 1W. The proposed project is located within the vicinity of Port Townsend Bay.

Two wetlands have been identified within the study area: Wetland A and Wetland C. Wetland A is a 3.63-acre emergent depressional wetland that meets the requirements for a Category II Coastal Lagoon rating based on functions and special characteristics. Wetland A was previously delineated in support of the Port's Boat Haven Stormwater Improvement project; the results of the delineation are summarized in this report. Wetland C includes Wetland C1, 0.70 acres, and Wetland C2, 0.30 acres, comprising 0.10 acres of Category III emergent depressional wetlands. Wetland C was previously investigated by the Port; this report summarizes the previous investigation and contains the results of the most recent delineation conducted in February 2025. Wetland C is not presumed to fall under USACE jurisdiction due to its isolation from Waters of the U.S. or navigable body of water.

A potential mitigation site was identified adjacent to the high-value coastal lagoon. The current physical characteristics, the historical presence of wetlands at the site, and proximity to a high-value Category II wetland will lend themselves to the re-establishment of wetlands should the proposed development be anticipated to result in unavoidable wetland impacts.

This report documents the investigation, best professional judgement, and conclusions of the investigator. It should be considered a preliminary jurisdictional and boundary determination until it has been reviewed and approved in writing by the U.S. Army Corps of Engineers (USACE) per Section 404 of the Clean Water Act.

Abbreviations and Acronyms

Environmental Protection Agency EPA FAC Facultative Facultative upland FACU Facultative wetland FACW North American Vertical Datum NAVD Natural Resources Conservation Service NRCS NWPL National Wetland Plant List Obligate OBL UPL Upland United States Army Corps of Engineers USACE Western Mountains, Valleys, and Coast WMVC **WOTUS** Waters of the U.S.

Table of Contents

1.	Exe	cutive Summary2
2.	Intr	oduction6
2	.1	Authorizing Agency and Reason for Investigation
2	.2	Site Location
2	.3	Project Description6
2	.4	Proposed Work
3.	Met	hods8
3	.1	Wetland Delineation, Identification, and Classification
4.	Site	Characteristics9
4	.1	Project Area Setting9
4	.2	Vegetation10
4	.3	Hydrology and Water Features10
4	.4	Soils Mapped and Found13
5.	Resu	alts15
5.	.1	Wetland C 15
5.	.2	Wetland A20
5.	.3	Wetland B21
5.	.4	Potential Mitigation Site
6.	Con	clusion24
7.	Refe	erences

Figures

.

Figure 1. Vicinity Area	7
Figure 2. Topography Map	12
Figure 3. Western Boat Yard Expansion NRCS Web Soil Map	14
Figure 4. Wetland C Size Reduction Map	17
Figure 5. Wetland C Delineation Map	19
Figure 6. Potential Mitigation Area	23

Appendix

Appendix A. Wetland Delineation Form – Wetland C	28
Appendix B. Wetland Delineation Form – Wetland A	41
Appendix C. Wetland Delineation Form – Wetland B	49
Appendix D. Wetland Rating Summary Form – Wetland C	53
Appendix E. Wetland Rating Summary Form – Wetland A	63
Appendix F: Site Photo Log	76

2. Introduction

2.1 Authorizing Agency and Reason for Investigation

A Wetland Investigation and Delineation was conducted for the Port of Port Townsend to delineate the location and extent of "Waters of the U.S." (WOTUS), which includes wetlands within the proposed development area. The primary objective of the delineation was to identify and delineate the waters and/or wetlands within the development area. The investigation and delineation were performed consistent with the *1987 Corps Wetland Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast.* (Version 2.0) (USACE, 2010).

2.2 Site Location

The development area is situated in the City of Port Townsend, Jefferson County, Washington. It is within Section 10, Township 30N, Range 1W, parcel number 948301003. The site is located offshore from Port Townsend Bay. Surrounding the project area to the northeast, east, and south are areas consisting of maintained grass, gravel parking lot, and a roadway. The northwestern and western boundaries of the project area are adjacent to Washington State Route 20. The potential mitigation area is located south of proposed project area, near the coastline of Port Townsend Bay. A vicinity map (**Figure 1**) is provided with reference to the project area's location.

2.3 Project Description

The Port of Port Townsend proposes maintenance activities to repair the damaged, substandard, and Sims Way stormwater drainage and outfall by reconstructing the facility. These improvements will restore drainage patterns and provide basic treatment for stormwater generated by Sims Way and over 100 acres of City development.

Figure 1. Vicinity Area



Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

2.4 Proposed Work

The main project elements include the replacement of the existing damaged, substandard 15inch pipe outfall with a new 24-inch pipe outfall, repositioning of existing riprap to provide energy dissipation for the new outfall, new manholes and 24-inch storm drains to connect the existing 18-inch culvert by Sims Way with the replaced outfall, a 230-foot wet biofiltration swale to provide basic treatment meeting Ecology standards for Sims Way and City stormwater, and a 15-foot wide access road for stormwater facility maintenance. The project area is approximately 14 acres. Construction is anticipated to begin in June 2025 and conclude in October 2025, lasting approximately 5 months.

3. Methods

3.1 Wetland Delineation, Identification, and Classification

Waters of the U.S., including wetlands, were delineated within the study area in accordance with the technical approaches outlined in the USACE Wetland Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the USACE Wetland Delineation Manual: Western Mountains, Valleys, and Coast. (Version 2.0) (USACE, 2010).

The delineation involved three main tasks: (1) assessing vegetation, soil, and hydrology to decide wetland areas; (2) evaluating constructed drainage features for wetland regulation; and (3) marking and surveying wetland boundaries.

Sampling points were chosen to best stand for identifying wetland area and boundary. Dominant plant species in each of the three vegetation strata (tree, shrub/sapling, and herbaceous) were named and quantified through visual assessment. The National Wetland Plant List (NWPL) was used to aid in determining the wetland indicator status (OBL, FACW, FAC, FACU, and UPL) of the vegetation observed and recorded. The dominance test along with the prevalence index test were performed to confirm if hydric vegetation is present within each of the sampling points.

Hydrological data was gathered from indirect and direct indicators during the field investigation. Prior information was reviewed and assessed to help aid in the identification of wetland hydrology such as historical climate records of the study area. This information aided in deciding whether the climate during the time of the field investigation was drier or wetter than normal circumstances.

Hydric soils were assessed following the Regional Supplement for Western Mountains, Valleys, and Coast (WMVC) (USACE, 2010). The Soil Survey of Jefferson County and NRCS Web Soil Survey provided details on soil characteristics, parent material, and taxonomy. Soils were examined to a depth of approximately 12-inches or until positive indicators were confirmed or absent. Soil textures were described per NRCS guidelines, and the Munsell Soil Color System was used for color classification (determining soil chroma, hue, and value), aiding in the determination of hydric soil indicators.

4. Site Characteristics

4.1 Project Area Setting

The development site is within the M-II(A) Boat Haven Marine Related Uses district and has been developed with roads and a maintenance shop to support the Boatyard since at least 2000. The Boat Haven has been developed in an urban context for decades and is situated adjacent to a state highway, Sims Way/State Route 20. The project site currently contains an existing stormwater facility and maintenance shop. The proposed development is consistent with the established use of the site; no land use changes will result from the project.

4.2 Vegetation

The project site falls within the *Tsuga heterophylla* (western hemlock) major vegetation area (Franklin and Dyrness, 1973) and the Jefferson Soil Survey describes the dominant native vegetation as consisting of bunchgrasses, small shrubs, and a scattering of Douglas-fir (*Pseudotsuga menziesii*), white oak (*Quercus alba*), and Pacific madrone (*Arbutus menziesii*). The project area is also located within the Puget Lowland subregion (Wiken et al., 2011). This subregion is similarly characterized by Douglas-fir (*Pseudotsuga menziesii*) and white oak (*Quercus alba*), with the addition of western hemlock (*Tsuga heterophylla*), grand fir (*Abies grandis*), western red ceder (*Thuja plicata*), red alder (*Alnus rubra*), bigleaf maple (*Acer macrophyllum*), and an understory of salal (*Gaultheria shallon*), Oregon grape (*Mahonia aquifolium*), and moss. Dogwood (*Cornus*) and Oregon white oak (*Quercus garryana*) are likely to be found in the drier areas of the coast.

4.3 Hydrology and Water Features

The project area is located near two waterbodies: Port Townsend Bay and Kah Tai Lagoon. The lagoon is approximately 0.3-miles north/northeast of the site. The current Port Boat Yard was once part of the lagoon but was separated by the construction of Sims Way in the 1930s, which cut off tidal influence. The lagoon's area was further reduced in the 1960s due to dredged material disposal. There is no hydrologic connection between the lagoon and project area. The project's hydrology is not influenced by tides, as it is separated from Port Townsend Bay and Kah Tai Lagon due to infrastructure such as roadways and trails isolating the project area.

The wetter seasons for Port Townsend last 6.4 months, from October 11th to April 24th. The most wet days are in November, with an average of 16.4 days with at least 0.04-inches of precipitation. The growing season in Port Townsend averages 237-days, from March 18th to November 10th. The average rainfall for Port Townsend is 19.33-inches per year, with an average of 8.66-inches during the growing season. The USACE Delineation Manual requires that the area must be inundated or saturated for two consecutive weeks of the growing season in order to have wetland hydrology.

The site was revisited on February 14th, 2025, during the wet season to observe the wetland's peak hydrological conditions. The topographic map (**Figure 2**) illustrates the elevation and slope of the land through contour lines, highlighting low-lying areas where water is prone to accumulate. The map indicates that Wetland C (C1 and C2) represents the lowest point within the project area, where the wetland's peak hydrological conditions were observed. The area's hydrology is mainly driven by precipitation and groundwater, with water quality issues arising from stormwater runoff from SR 20/Sims Way due to damaged drainage outfalls (Widener, 2024).

In June 2024, stormwater discharging from Sims Way was properly rerouted to the existing stormwater facility, resulting in a drastic reduction in surface water and soil saturation. Based on the ongoing wetland investigation and delineation, as well as the results from the associated geotechnical investigations, hydrology for Wetland C has been identified as anthropogenically caused. The wetland developed due to stormwater runoff from Sims Way, which has accumulated over an impervious silt layer, leading to the creation of an artificially perched water table.

Figure 2. Topography Map



Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

4.4 Soils Mapped and Found

The NRCS Web Soil Survey (WSS) identifies three soil types within the study area: Clallam gravelly sandy loam (CmC), Cut and fill land (Cu), and Rough Broken land (Ro).

Clallam gravelly sandy loam (CmC) covers 7.6% of the area, primarily along the northwestern boundary. This soil, derived from basal till, is classified as hydrological soil group D, indicating very slow infiltration rates when saturated. It consists of three horizons: 0-3 inches (gravelly/ sandy/loam), 3-23 inches (very gravelly sandy loam), and 23-60 inches (gravelly/sandy/loam).

Cut and fill land (Cu) makes up 92.0% of the study area, located primarily within the center of the site extending to the northeastern border of the boat yard itself.

Rough broken land (Ro) covers 0.4% of the study area, congregated mainly at the southwestern corner of the project site. Classified as hydrological soil group A, indicating high infiltration rates even when thoroughly wet. This soil consists of two horizons: 0-7 inches (gravelly/ sandy/loam) and 7-60 inches (stratified extremely gravelly/sandy/loam). For reference to the soils mapped and identified by the NRCS, see **Figure 3**.

The Townsend soil series is characterized by well-drained gravelly loam from sandy gravelly loam, consistent with the Soil Survey of Jefferson County. The soil composition on the Quimper Peninsula is as follows:

- 32% Callam soils (gravelly sandy loam)
- 31% Hoypus soils (gravelly loamy sand or sandy loams)
- 20% Dick soils (loamy sand)
- 5% Cassolary soils
- 4% San Juan soils
- 8% Agnew, Belfast, Tisch, Townsend, and organic soils

During the field investigation of the project area, agranular native shell layer was present within the soil make up. This is a layer of earth which contains a significant amount of small, fragmented shells.



Figure 3. Western Boat Yard Expansion NRCS Web Soil Map

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres In AQI	Percent of AOI
CmC	Clattern gravely sandy loam, 0 to 15 percent slopes	0.3	7.6%
Cu	Cut and fill land	3.5	82.0%
Ro	Rough broken land	0.0	0.4%
Totals for Area of Interest		3.8	100.0%

5. Results

5.1 Wetland C

The northeastern portion of the development area is bordered by a layer of sandy fill material, which is covered with asphalt debris and has been overtaken by invasive plant species, mainly Himalayan blackberry (*Rubus armeniacus*) and Nootka Rose (*Rosa nutkana*). This area currently separates the wetland from the upland area, nearing the Boat Haven boatyard. Mowed vegetation, specifically Himalayan blackberry, was observed on the southeastern side of the study area. Field of reed canary grass is located on the eastern edge. below. Mowed vegetation,



Photo: Asphalted berm area located northeastern portion of the wetland/project area.

specifically Himalayan blackberry, was observed on the southeastern side of the study area. A field of reed canary grass is located on the eastern edge.

The February field investigation found ponding mainly in the project's center, dominated by hydrophytic vegetation, including large patches of reed canary grass (*Phalaris arundinacea*) and broadleaf cattail (*Typha latifolia*).

Based on ongoing wetland investigations and delineations, as well as the results from associated geotechnical investigations, the hydrology of Wetland C has been identified as being anthropogenically caused. This wetland has developed due to stormwater runoff from Sims Way, which has accumulated over an impervious silt layer, leading to the creation of an artificially perched water table. On August 24th, 2022, Wetland C encompassed 0.43-acres (18,730.80 square feet). After the stormwater was rerouted from Sims Way in June 2024, Wetland C shrank significantly.

The natural groundwater table, determined by the wetland and geotechnical investigations, is located at an elevation of 6 feet NAVD 88 (North American Vertical Datum 1988) within a granular native shell layer. Applying the 12-inch soil saturation threshold per the U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual (Environmental Laboratory, 1987), only areas below an elevation of 7 feet NAVD 88 are classified as wetlands.

By February 14th, 2025, Wetland C was divided into Wetland C1 (0.068-acres/2,974.24 square feet) and Wetland C2 (0.028-acres/1,257.19 square feet), totaling 0.097-acres (4,231.46 square feet). This marks a shrinkage of 0.33-acres (14,499.34 square feet), a reduction of approximately 76.7%. Wetland C is expected to further reduce in size as the dry season approaches. For a visual depiction of the size reduction of Wetland C, see **Figure 4**.



Figure 4. Wetland C Size Reduction Map

Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington Vegetation found within the shrub/sapling stratum includes Himalayan blackberry (*Rubus armeniacus*), red osier dogwood (*Cornus sericea*), salmonberry (*Rubus spectabilis*), creeping thistle (*Cirsium arvense*). Narrowleaf cattail (*Typha angustifolia*), broadleaf cattail (*Typha latifolia*), and reed canary grass (*Phalaris arundinacea*) were found primarily within the center of the wetland which was inundated. Other vegetation observed include fringed willowherb (*Epilobium ciliatum*), common groundsel (*Senecio vulgaris*), poison hemlock (*Conium maculatum*) Kentucky bluegrass (Poa pratensis), and hairy bittercress (*cardamine hirsuta*). American elm (*Ulmus americana*), black cottonwood (*Populus balsamifera spp. Trichocarpa*), silver birch (*Betula pendula*), and Pussy willow (*Salix discolor Muhl.*) were tree species found within the area of Wetland C.

Soil samples within the sampling point were sandy soils on the outskirts of the wetland, and sandy mucky mineral soils within the wetland itself. An asphalt berm was found and identified within the northeastern section of Wetland C. This area appears to have once been filled with gravel, sand, and covered with asphalt that is observed to be degrading. This berm separates the wetland from the upland area in the north-northeastern side.

Wetland C met hydrology indicators (A1) surface water (A2) high water table, and (A3) having saturation present within the soil, at a depth of 12-inches.

Wetland C met the requirements for a Category III wetland rating, as outlined in the Wetland Rating Summary Form guidelines (Washington State Department of Ecology, 2025; Appendix D).

See Figure 5 and Appendix A for the results of the Wetland C delineation.

Figure 5. Wetland C Delineation Map



Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

5.2 Wetland A

Wetland A was previously delineated (Widener & Associates, 2024a; Appendices B and E) to support the Port's Boat Haven Stormwater Improvement project; the results of the delineation are summarized below.

Wetland A is located in a depression between 8th Street, an access road, and the embankment of the Larry Scott Memorial Trail. Water drains into the northwestern part of the wetland from stormwater discharge and surface runoff, pooling at the lowest point along the trail embankment. The wetland, which covers approximately 3.63-acres, has an elongated-ovate shape, tapering at both ends due to surrounding constraints. It supports forested, scrub-shrub, and emergent vegetation. There are no surface water outlets.

Vegetative species observed in Wetland A included red alder (*Alnus rubra*), hybrid bindweed (*Calystegia lucana*), creeping thistle (*Cirsium arvense*), horsetail (*Equisetum x ferrissii*), common ivy (*Hedera helix*), Yorkshire fog (*Holcus lanatus*), common holly (*Ilex aquifolium*), common Baltic rush (*Juncus balticus*), crabapple (*Malus Spp.*), shore pine (*Pinus contorta var. contorta*), Kentucky bluegrass (*Poa pratensis*), western sword fern (*Polystichum munitum*), silverweed (*Potentilla anserina*), bracken (*Pteridium aquilinum*), common pear (*Pyrus communis*), dwarf rose (*Rosa gymnocarpa*), Nootka rose (*R. nutkana*), Himalayan blackberry (*Rubus armeniacus*), Scouler's willow (*Salix scouleriana*), Stika mountain-ash (*S.sitchensis*), hardstem bulrush (*Schoenoplectus acutus*), common snowberry (*Symphoricarpos albus*), and common vetch (*Vicia sativa*). The wetland met the dominance test indicator for hydrophytic vegetation at sampling points that were representative of the wetland area.

Much of the wetland was inundated during the site visit, along the Larry Scott Memorial Trail embankment, and throughout the center. Indicators of wetland hydrology observed within Wetland A included (A1) surface water presence, (A2) high water table, and (A3) saturation.

The top-soil layer was black and contained fibric mucky modified mineral soil. The second horizon observed was lighter and greyer sand. Soils observed at sampling points within Wetland Amet hydric soil indicator (A2) histic epipedon. For reference to the location of Wetland A, see **Figure 6**.

Wetland A met the requirements for a Category II Coastal Lagoon rating based on its functions and special characteristics (Washington State Department of Ecology, 2024).

5.3 Wetland B

The Jefferson County and USFWS National Wetlands Inventory (NWI) maps identify a wetland (referred to as Wetland B) in the nearshore area of Port Townsend Bay. The Port previously conducted a wetland investigation and delineation of Wetland B (Widener & Associates, 2024b, Appendix C) in support of the Boat Haven Stormwater Improvement project, the results of the delineation are summarized below.

Two sampling points, respectively labeled sampling point 1 (SP-1) and sampling point 2 (SP-2), were investigated and documented, one within the NWI-mapped wetland area and one in the backshore area of Port Townsend Beach.

Sampling point 1 (SP-1) was examined and flagged at point 48.1055094, -122.7807060. Observed vegetation included Himalayan blackberry (*Rubus armeniacus*), American dune grass (*Leymus mollis*), common yarrow (*Achillea millefolium*), Queen Anne's lace (*Daucus carota*), seaside golden rod (*Solidago sempervirens*), beach pea (*Lathyrus japonicus*), red fescue (*Festuca rubra*), and rough hawkbit (*Leontodon saxatilis*). This sampling point achieved a score of 66.7% on the dominance test, indicating the presence of hydrophytic vegetation. The color of the soil matrix within SP-1 was observed to be 7.5YR (2.5/1) and labeled as black color. The composition of the soil is crumbly, loose, and slightly moist. Woody debris is also present within the soil mixture as well as sand particles, resulting in a sandier texture. No wetland hydrology and soil indicators were observed within SP-1.

Sampling point 2 (SP-2) was conducted and flagged at point 48.1053556, -122.7809283. Observed vegetation included Himalayan blackberry (*Rubus armeniacus*), American dune grass (*Leymus mollis*), common yarrow (*Achillea millefolium*), Queen Anne's lace (*Daucus carota*), burr chervil (*Anthriscus caucalis*), and purple dead-nettle (*Lamium purpureum*). This sampling point achieved a score of 33.3% on the dominance test, indicating that there is no hydrophytic vegetation present. The color of the soil matrix within SP-2 was observed to be 7.5YR (2.5/1) and labeled as black in color. This sampling point had larger woody debris within the soil makeup. The composition of the soil is very crumbly, loose, and slightly moist. Sand particles were visible within the soil, resulting in a sandier texture. No wetland hydrology and soil indicators were observed within SP-2.

The results of the investigation determined that Wetland B is not present. As the presence of this wetland was photo-interpreted using color infrared imagery from 1980, it was determined to be erroneously mapped by the NWI and subsequently adopted by the Jefferson County and City of Port Townsend databases.

5.4 Potential Mitigation Site

Unavoidable wetland impacts may result from the project. A potential mitigation site was identified on the Port property to offset any adverse wetland impacts resulting from the proposed maintenance activities. The site is level at an approximate elevation of 9.8 feet NAVD 88. The water table is typically approximately 3.5 feet below the ground surface in the location of the site during the growing season; minor grade change activities can easily achieve a depressional landform with a final design elevation in continuity with the groundwater table. Vegetation in the compensation site area is currently comprised of grass lawn maintained through mechanical mowing by the Port. Its location adjacent to the high-value coastal lagoon will facilitate the recruitment of wetland-adapted plants. The soils on-site include both hydric soils and a high organic matter content, making them highly suitable for wetland plants. The required amount of mitigation depends on the category rating of the impacted wetland (Table 1).

Table 1. Compensation ratios for permanent wetland impacts

Category	Re-establishment or Creation	Rehabilitation	Preservation	Enhancement
II	3:1	6:1	12:1	12:1
III	2:1	4:1	8:1	8:1

For the location of the potential mitigation site, refer to Figure 6.



Figure 6. Potential Mitigation Area

Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

6. Conclusion

Two wetlands have been identified within the study area: Wetland A and Wetland C. Wetland A is a 3.63-acre emergent depressional wetland that meets the requirements for a Category II Coastal Lagoon based on functions and special characteristics. Wetland C includes Wetland C1, 0.70 acres, and Wetland C2, 0.30 acres, comprising 0.10 acres of Category III emergent depressional wetlands.

Wetland C is not presumed to fall under USACE jurisdiction due to its isolation from Waters of the U.S. or navigable body of water.

This report documents the investigation, best professional judgment, and conclusions of the investigator. It should be considered a preliminary jurisdictional determination until it has been reviewed and approved in writing by the USACE in accordance with Section 404 of the Clean Water Act.

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Appendix A. Wetland Delineation Form – Wetland C

roject/Site: Western Boat Yard Expasion		City/Count	y. Jefferso	0	Sampling Date:8/24/22
pplicant/Owner: Port of Port Townsend				State: WA	Sampling Point: W-A
nvestigator(s): Jordan Widener			Section, T	Township, Range:	
andform (hillslope, terrace, etc.): Ponded Area		Local relie	ef (concave	e, convex, none): Concave	Slope (%): 1
Subregion (LRR):	Lat: 48.1	08007		Long: -122,783592	Datum
ioil Map Unit Name:				NWI classifica	tion: wetland
re climatic / hydrologic conditions on the site typical fo	or this time of yea	ar?Yes 🗌	No 🖂 I	(If no, explain in Remarks.)	
we Vegetation n. Soil n. or Hydrology n significantly di	isturbed?	Are "Norm	al Circumst	tances" present? Yes 🖂	No 🗍
ve Vegetation n. Soil n. or Hydrology n naturally proble	ematic? (If needed,	explain am	v answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site m	an showing	eamolio	a point	locations, transacto	immortant factures _t-
FormitART OF TRADINGS - Allach site in	ah anowing	Sampan	g point	iocations, transects,	important reatures, etc.
Hydrophytic Vegetation Present? Yes 🖾 No		ls th	e Samole	d Area	
Hydric Soil Present? Yes 🛛 No		with	in a Wetla	und? Yes⊠ N	
Wetland Hydrology Present? Yes 🛛 No					
Nonaixs.					
FGETATION - Use scientific names of n	lante				
EXERCISE OSCIGLENTINE Humes of p	Abroluto	Deminant	Indianter	Deminute Testure to	
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominant So	neet:
1. American Elm	40	Yes	FAC	That Are OBL, FACW, o	r FAC: 0 (A)
2				Total Number of Domina	ent .
3		-		Species Across All Strat	a: <u>6</u> (B)
4				Percent of Dominant Sp	cies
Sapling/Shrub Stratum (Plot size: 15' rad)	40	= Tolal C	over	That Are OBL, FACW, o	r FAC: 100 (A/B)
1. red-osier dogwood (Comus stolonifera)	30	Yes	FACW	Prevalence Index work	sheet:
2. Blackberry	50	Yes	FAC	Total % Cover of:	Multiply by:
3. Salmonberry	10	No	FAC	OBL species	x1=
4				FACW species	x 2 =
5				FAC species	x 3 =
Herb Stratum (Plot size: 5 foot rad)	90	≃ Total C	over	FACU species	x4=
1. Reed Canary Grass	10	Yes	FAC	Column Totals	XD=
2. Narrowleaf cattail	5	Yes	OBL	Column rotals;	(A) (B)
3				Prevalence Index :	= B/A =
4				Hydrophytic Vegetation	Indicators:
5				Rapid Test for Hydro	phytic Vegetation
7				Dominance Test is >	50%
8				Mombological Adapt	ations I (Provide supportion
9				data in Remarks	or on a separate sheet)
10				Welland Non-Vascula	ar Plants ¹
11				Problematic Hydroph	ytic Vegetation ¹ (Explain)
	15	= Total Co	over	Indicators of hydric soil a	and wetland hydrology must
				se present, unress distun	oed of provientado.
Woody Vine Stratum (Plot size: 30 foot rad)			·	Hydrophytic	
Woody Vine Stratum (Plot size: <u>30 foot rad</u>) 1 2			· · · · · · · · · · · · · · · · · · ·	Vegetation	57 m C
Woody Vine Stratum (Plot size: <u>30 foot rad</u>) 1 2		- Total C			D. Mail
Woody Vine Stratum (Plot size: <u>30 foot rad</u>) 1.		= Total Co	wer	Present? Yes	

Profile Descri	ption: (Descri	be to the d	epth needed to docume	nt the indicator	or confirm	the ab	sence of indica	ators.)	
Depth _	Matrix		Redox F	eatures	1.00			Presader	
(inches) C	Color (moist)	%	Color (moist)	% (ype)	Loc	Textur	<u>e</u>	remarks	
0-12 1	Dyr 4/1	95				Sa-Ci-L			
h Der ferformensender der Zentende		_					1783-174834 ⁶ A		
Type: C=Con	centration D=D	epletion, F	M=Reduced Matrix, CS=0	Covered or Coate	ed Sand Gr	ains.	*Location: Pl	L=Pore Lining, M=Matri	¢2
Hydric Soil In	dicators: (App	licable to	all LRRs, unless otherwi	ise noted.)	14	In	dicators for Pr	oblematic Hydric Soils	2:
Histosol (A	.1)		Sandy Redox (S5)	I			2 cm Muck (A	(10)	
Histic Epip	edon (A2)		Stripped Matrix (SI	8)		<u> </u>	Red Parent M	laterial (TF2)	
Black Histic	c (A3)		Loamy Mucky Mine	eral (F1) (except	MLRA 1)	<u> </u>	Very Shallow	Dark Surface (TF12)	
🗌 Hydrogen 🤅	Sulfide (A4)		Loamy Gleyed Ma	trix (F2)		E	Other (Explain	n in Remarks)	
Depleted B	elow Dark Surf	ace (A11)	Depleted Matrix (F	3)			and the second second	mahuli a usantati an and	
Thick Dark	Surface (A12)		Redox Dark Surface Deploted Dark Surface	5e (F0) face (E7)		-11	wetland hydrol	logy must be present	
Sandy Muc	word Materia (S4)		Depieted Dark Still Redoy Depression	inster(F7) is (F8)			unless disturbe	ed or problematic.	
Restrictive La	ver (if present		LI NEGOX Depression						
Type:	Art to breach					1			
Denth (inch						1			
Remarks:	es):					Hydri	ic Soil Present	? Yes 🛛 No 🗋	
Remarks:	¥					Hydri	ic Soil Present	? Yes 🛛 No 🗋	
Remarks: IYDROLOG Wetland Hydr	Y ology Indicato	rs: If one requ	red: check all that apply)			Hydri	ic Soil Present	? Yes 🛛 No 🗋	ed)
Remarks: HYDROLOG Wetland Hydr Primary Indicat	Y ology Indicato	rs: If one requ	red; check all that apply)	d Leaves (89) (e	xcept MLF	Hydri	Secondary Ind	? Yes ⊠ No □ icators (2 or more requir ned Leaves (B9) (MLR4	<u>ed)</u>
Remarks: HYDROLOG Wetland Hydr Primary Indicat Surface Water High Water	Y ology Indicato tors (minimum o ater (A1) r Table (A2)	rs: If one requ	red; check all that apply)	d Leaves (89) (e and 48)	xcept MLR	Hydri	Secondary Ind Water-Stain 4A, and	? Yes ⊠ No □ ieators (2 or more requir ned Leaves (B9) (MLR/ d 4B)	<u>ed)</u>
HYDROLOG Wetland Hydr Primary Indicat O Surface Water High Water Saturation	Y ology Indicato tors (minimum c ater (A1) r Table (A2) (A3)	rs: If one requ	red; check all that apply) Utater-Staine 1, 2, 4A, a	d Leaves (B9) (e and 4B) 11)	xcept MLR	Hydri	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P	? Yes ⊠ No ⊡ icators (2 or more requir ned Leaves (B9) (MLRA d 4B) Patterns (B10)	<u>ed)</u> 1, 2,
Remarks: HYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Mari	Y ology Indicato tors (minimum o ater (A1) r Table (A2) (A3) (A3)	rs: If one requ	red; check all that apply) Utater-Staine 1, 2, 4A, a Saft Crust (8) Aquatic Inver	d Leaves (89) (e and 48) 11) tebrates (813)	xcept MLF	Hydri ZA	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P Dry-Season	? Yes ⊠ No ⊡ leators (2 or more requir ned Leaves (B9) (MLRF d 4B) Patterns (B10) n Water Table (C2)	ed) 1 1, 2,
Remarks: HYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Mart Sediment I	Y ology Indicato tors (minimum o ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	rs: A one requ	red; check all that apply) Utater-Staine 1, 2, 4A, a Sat Crust (8' Aquatic Inver	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1)	xcept MLR	Hydri	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P Dry-Season Saturation	? Yes ⊠ No □ leators (2 or more requir ned Leaves (B9) (MLRF d 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Imager	ed) \ 1, 2, y (C9
Remarks: HYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Mart Sediment I Drift Depos	Y ology Indicato tors (minimum o ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3)	rs: A one requ	red; check all that apply) Utater-Staine 1, 2, 4A, a Sat Crust (8' Aquatic Inver Hydrogen Su Oxidized Rhia	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1) zospheres along	xcept MLR	Hydri ZA ts (C3)	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P Dry-Season Saturation Geomorphi	? Yes ⊠ No □ leators (2 or more requir ned Leaves (89) (MLRA d 48) Patterns (810) n Water Table (C2) Visible on Aerial Imager ic Position (D2)	ed) 1 1, 2, y (C9
Remarks: HYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Mart Sediment I Drift Depos Algal Mat of	Y ology Indicato tors (minimum o ater (A1) r Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	rs: £ one requ	red; check all that apply) Utater-Staine 1, 2, 4A, a Sat Crust (8) Aquatic Inver Hydrogen Su Oxidized Rhia Presence of f	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1) zospheres along Reduced Iron (C4	xcept MLR Living Roo	Hydri ZA Łs (C3)	Secondary Ind Secondary Ind A, and Drainage F Dry-Seaso Saturation Geomorphi Shallow Ag	? Yes ⊠ No □ icators (2 or more requir ned Leaves (B9) (MLRA d 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Imager ic Position (D2) uitard (D3)	<u>ed)</u> 1, 1, 2, y (C9
Remarks: HYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat c Iron Depos	Y ology Indicato tors (minimum o ater (A1) r Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	rs: £ one requ	red; check all that apply) Water-Staine 1, 2, 4A, a Sait Crust (8 ¹ Aquatic Inver Hydrogen Su Oxidized Rhia Presence of F Recent Iron F	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller	xcept MLR Living Roo I) d Soils (C6	Hydri ZA ts (C3)	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage F Dry-Season Saturation Geomorphi Shallow Ag Shallow Ag FAC-Neutr	? Yes ⊠ No □ icators (2 or more requir ned Leaves (B9) (MLRA d 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Imager ic Position (D2) juitard (D3) al Test (D5)	ed) 1 1, 2, y (C9
Remarks: HYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat c Iron Depos Surface So	Y ology Indicato tors (minimum o ater (A1) r Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	rs: A one requ	red; check all that apply) Water-Staine 1, 2, 4A, a Sait Crust (8) Aquatic Inver Hydrogen Su Oxidized Rhia Presence of F Recent Iron R Stunted or St	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller ressed Plants (D	xcept MLR Living Roo I) d Soils (C6 1) (LRR A)	Hydri 24 (C3)	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage F Dry-Seasor Saturation Geomorphi Shallow Ag Kaised Ant Raised Ant	? Yes ⊠ No ⊡ icators (2 or more requir ned Leaves (89) (MLRA d 48) ratterns (810) n Water Table (C2) Visible on Aerial Imager ic Position (D2) juitard (D3) al Test (D5) : Mounds (D6) (LRR A)	<u>ed)</u> 1, 2, y (CB
Remarks: HYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat c Iron Depos Surface So Inundation	Y ology Indicato tors (minimum o ater (A1) r Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	rs: If one requ	red; check all that apply) U Water-Staine 1, 2, 4A, a Aquatic Inver Hydrogen Su Oxidized Rhia Presence of F Recent Iron F Stunted or St B7) Other (Explai	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller ressed Plants (D n in Remarks)	xcept MLF Living Roo I) d Soils (C6 1) (LRR A)	Hydri 24 (C3)	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ao FAC-Neutr Raised Ant Frost-Heav	? Yes ⊠ No □ icators (2 or more requirement Leaves (B9) (MLRA at 4B) ratterns (B10) n Water Table (C2) Visible on Aerial Imageric Position (D2) ruitard (D3) rest (D5) : Mounds (D6) (LRR A) re Hummocks (D7)	ed) \ 1, 2, y (C9
Remarks: AYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat o Iron Depos Surface So Inundation Sparsely V	Y ology Indicato tors (minimum o ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) pil Cracks (B6) Visible on Aeria /egetated Conci	rs: f one requ al Imagery ave Surfact	red; check all that apply) U Water-Staine 1, 2, 4A, a Salt Crust (B) Oxidized Rhia Presence of F Recent Iron F Stunted or St B7) Other (Explained) (B8)	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller ressed Plants (D n in Remarks)	xcept MLF Living Roo I) d Soils (C6 1) (LRR A)	Hydri 2A (C3)	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav	? Yes ⊠ No □ icators (2 or more requirements (89) (MLRA at 48) i atterns (810) n Water Table (C2) Visible on Aerial Imageric Position (D2) quitard (D3) al Test (D5) : Mounds (D6) (LRR A) re Hummocks (D7)	ed) \ 1, 2, y (C9
IVDROLOG Wetland Hydr Primary Indicat Surface Water High Water Saturation Water Mart Drift Depose Algal Mat ce Iron Depose Surface So Inundation Sparsely V	Y ology Indicato tors (minimum c ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) pr Crust (B4) sits (B5) pil Cracks (B6) Visible on Aeria /egetated Conca titions:	rs: <u>of one requ</u> al Imagery ave Surface	red; check all that apply) Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhia Presence of F Recent Iron F Stunted or St (B6)	d Leaves (B9) (e and 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tilley ressed Plants (D n in Remarks)	xcept MLF Living Roo I) d Soils (C6 1) (LRR A)	Hydri 24 (C3)	Secondary Ind Water-Stain 4A, and Drainage P Dry-Seasor Saturation Staturation Shallow Ac Kaised Ant Frost-Heav	? Yes ⊠ No □ icators (2 or more requirements (2 or more requirements (89) (MLRA di 4B) *atterns (B10) n Water Table (C2) Visible on Aerial Imageric (D3) autard (D3) al Test (D5) : Mounds (D6) (LRR A) re Hummocks (D7)	ed) \ 1, 2, y (CB
IVDROLOG Wetland Hydr Primary Indicat Surface Water High Water Saturation Water Mart Drift Depose Algal Mat ce Iron Depose Surface So Inundation Sparsely V Field Observa Surface Water	Y ology Indicato tors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aeria /egetated Conco titions: Present?	rs: of one requinations of the second secon	red; check all that apply) Water-Staine 1, 2, 4A, a Salt Crust (B Oxidized Rhia Presence of F Recent Iron F Stunted or St (B7) Other (Explained (B8) No Depth (inches):	d Leaves (B9) (e and 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller ressed Plants (D n in Remarks)	xcept MLF Living Roo I) d Soils (C6 1) (LRR A)	Hydri 24 (C3)	Secondary Ind Water-Stain 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac Kaised Ant Frost-Heav	? Yes ⊠ No □ icators (2 or more requirements (2 or more requirements (89) (MLRA di 4B) *atterns (810) n Water Table (C2) Visible on Aerial Imageric (D3) autard (D3) al Test (D5) : Mounds (D6) (LRR A) re Hummocks (D7)	ed) 1, 1, 2, y (C9
Remarks: APDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V Field Observa Surface Water Water Table P	Y ology Indicato tors (minimum c ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aeria /egetated Conco titions: Present? resent?	rs: f one requinations of the second	red; check all that apply) Water-Staine 1, 2, 4A, a Salt Crust (B) Quidized Rhia Presence of F Recent Iron F Stunted or St (B7) Other (Explained (B6) No Depth (inches):	d Leaves (B9) (e and 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller ressed Plants (D n in Remarks)	xcept MLF Living Roo I) d Soils (C6 1) (LRR A)	Hydri 24 (C3)	Secondary Ind Water-Stain 4A, and Drainage P Dry-Seasor Saturation Staturation Shallow Ac Kaised Ant Frost-Heav	? Yes ⊠ No ⊡ icators (2 or more requir ned Leaves (B9) (MLRA id 4B) *atterns (B10) n Water Table (C2) Visible on Aerial Imager ic Position (D2) quitard (D3) al Test (D5) : Mounds (D6) (LRR A) re Hummocks (D7)	ed) \ 1, 2, y (C9
Remarks: IYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V Field Observa Surface Water Water Table Pre- Saturation Pre-	Y ology Indicato tors (minimum c ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aeria /egetated Conca /egetated Conca /itions: Present? resent?	rs: f one requinations of the second	red; check all that apply) Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhia Presence of F Recent Iron F Stunted or St (B6) No Depth (inches): No Depth (inches): No Depth (inches):	d Leaves (B9) (e and 4B) 11) trebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tilley ressed Plants (D n in Remarks)	xcept MLF Living Roo I) d Soils (C6 1) (LRR A) Wet	ts (C3)	Secondary Ind Water-Stain 4A, and Drainage P Dry-Seaso Saturation Staturation Shallow Ac Kac-Neutr Raised Ant Frost-Heav	? Yes ⊠ No □ icators (2 or more requirement leaves (B9) (MLRA di 4B) *atterns (B10) n Water Table (C2) Visible on Aerial Imageric Position (D2) quitard (D3) al Test (D5) Mounds (D6) (LRR A) re Hummocks (D7) at? Yes ⊠ No □	ed) \ 1, 2, y (C9
Remarks: Remarks: IYDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V Field Observa Surface Water Water Table P Saturation Pre- (includes capill Describe Reco	Y ology Indicato tors (minimum c ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aeria /egetated Conca titions: Present? resent? resent? lany fringe) mided Data (stree	rs: fone required al imagery ave Surfact Yes Yes Yes am gauge.	red; check all that apply) Water-Staine 1, 2, 4A, a Salt Crust (B) Aquatic Inver Hydrogen Su Oxidized Rhia Presence of F Recent Iron F Stunted or St (B7) Other (Explained (B6) No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller ressed Plants (D n in Remarks) 02 otos, previous in	xcept MLF Living Roo I) d Soils (C6 1) (LRR A) WetL spections).	Les (C3)	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ag FAC-Neutr Raised Ant Frost-Heav drology Present ble:	? Yes ⊠ No □ icators (2 or more requirements (80) (MLRA di 4B) id 4B) 'atterns (B10) n Water Table (C2) Visible on Aerial Imageric (D3) al Test (D5) : Mounds (D6) (LRR A) re Hummocks (D7) att? Yes ⊠ No □	ed) \ 1, 2, y (CB
Remarks: APDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V Field Observa Surface Water Water Table Pr Saturation Pre- (includes capill Describe Reco	Y ology Indicato tors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aeria /egetated Conco titions: Present? resent? resent? sent? lary fringe) mided Data (stree	rs: f one requ al Imagery ave Surfact Yes □ Yes □ Yes ⊠ am gauge.	red; check all that apply) Water-Staine 1, 2, 4A, a Salt Crust (B) Quidized Rhia Presence of F Recent Iron F Stunted or St (B7) Other (Explained (B8) No Depth (inches): No Depth (inches): No Depth (inches): Mo Depth (inches): No Depth (inches): Monitoring well, aerial physical Content of the second s	d Leaves (B9) (e and 4B) 11) tebrates (B13) tiide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller ressed Plants (D n in Remarks) 02 otos, previous inst	xcept MLF Living Roo I) d Soils (C6 1) (LRR A) Wetl spections),	Les (C3)	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav drology Present ble:	? Yes ⊠ No □ icators (2 or more requirements (80) (MLRA di 4B) iaterns (B10) n Water Table (C2) Visible on Aerial Imageric (D3) ail Test (D5) Mounds (D6) (LRR A) re Hummocks (D7) att? Yes ⊠ No □	ed) \ 1, 2, y (CB
Remarks: AVDROLOG Wetland Hydr Primary Indicat Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V Field Observa Surface Water Water Table P Saturation Pre- (includes capill Describe Reco Remarks: has	Y ology Indicato tors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aeria /egetated Conco titions: Present? resent? resent? resent? inded Data (stree	al Imagery ave Surface Yes Yes Yes am gauge.	red; check all that apply) Use of the second	d Leaves (B9) (e and 4B) 11) tebrates (B13) tfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller ressed Plants (D n in Remarks) 02 otos, previous inst	xcept MLF Living Roo I) d Soils (C6 1) (LRR A) Vetl spections),	Es (C3)	Secondary Ind Secondary Ind Water-Stain 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav drology Present ble:	? Yes ⊠ No □ icators (2 or more requirements (2 or more requirements (80) (MLRA di 4B) id 4B) iatterns (B10) n Water Table (C2) Visible on Aerial Imageric (D3) aid Test (D5) : Mounds (D6) (LRR A) ire Hummocks (D7) it? Yes ⊠ No □	ed) \ 1, 2, y (CB
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

(mesticatoris): Lee Dalam				P	Sampling Point: SP-1
andform (hillsloop, toggae, etc.)			Land R	Section, 1	ownship, Range: Section 10, Township 30N, Range 1
Candidom (nuisiope, terrade, etc.):			Local reli	et (concave	e, convex, none): <u>None</u> Slope (%): 0
Subregion (LRR): A2		Lat 48.1	052571		Long: -122.7836229 Datum:
Soil Map Unit Name: Cu (Cut and Fill Land)				NWI classification:
Are climatic / hydrologic conditions on the s	ite typical for this	time of yea	ar? Yes 🛛	No 🗌	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydro	logy sign	ificantly dis	turbed?	Are "N	iormal Circumstances" present? Yes 🖾 No 🗌
Are Vegetation Soil, or Hydro	logy natur	ally proble	matic?	(if need	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Atta	ch site map s	howing	samplir	ig point l	locations, transects, important features,
Hydrophytic Vegetation Present?	Yes∟ No⊠ VesΩ No ⊠		ls ti	ne Sample	d Area
Wetland Hydrology Present?	Yes No X		witi	vin a Wetla	ind? Yes 🗌 No 🕅
Remarks:					
EGETATION – Use scientific na	mes of plant	S .			
		Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: =30ft)		% Cover	Species	Status	Number of Dominant Species
1. None					That Are OBL, FACW, or FAC: 2 (A
2	-				Total Number of Dominant
a					Species Across All Strata: 3 (B)
			= Total C		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: r=15ft.)			- TOLAT C	Aver	That Are OBL, FACW, or FAC: <u>66.7%</u> (A)
1. Rubus ameniacus		75	Yes	FAC	Prevalence Index worksheet:
2					Total % Cover of: Multiply by:
3					OBL species x 1 =
4					FACW species 5 x 2 = 10
5					FAC species <u>75</u> x 3 = <u>225</u>
Herb Stratum (Plot size: r=5ft)		/5	= Total C	over	FACU species 20 x 4 = 80
1. Cardamine hirsuta		20	Yes	FACU	UPL species x b =
2. Epilobium ciliatum		5	Yes	FACW	Column fotals; 100 (A) 315 (I
3					Prevalence Index = B/A = 3.15
4.		_			Hydrophytic Vegetation Indicators:
5					Rapid Test for Hydrophytic Vegetation
0					Dominance Test is >50%
0					Prevalence Index is \$3.01
0					data in Remarks or on a separate sheet)
10					Wetland Non-Vascular Plants ¹
Leventeendestatestatestatestatestatestatestatesta	NACE AND A REPORT OF A REPORT				Problematic Hydrophytic Vegetation ¹ (Explain)
		25	= Total C	OVER	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: r=30ft)			100010		be present, unless disturbed or problematic.
1. None					Hudronhudia
2					Vegetation
		THE GAMMENT P-4400	= Total C	over	Present? Yes 🗍 No 🕅
% Bare Ground in Herb Stratum 20					

Remarks: The vegetation within this sampling point passed the dominance test, however failed the prevalence index test. This means while the majority of the dominant plant species are considered hydrophytic, the overall distribution of the species across the area is not significant enough to classify the site as a wetland.

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Version 2.0

Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

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	ption: (Describe	to the depth	needed to document the indicator or conf	irm the absen	ce of indicators.)
Depth	Matrix		Redox Features		
(inches)	Jolor (moist)	<u>_%</u> <u>Co</u>	olor (moist) % Type1 Loc2	Texture	Remarks
0-10 2	2.5Y (2.5/1)	95		Sandy	
1.1-12	iy (4/2)	. 5		Sandy	
					-
					-
Type: C=Con	centration, D=De	pletion, RM=Re	educed Matrix, CS=Covered or Costed Sand	Grains 3	Location: PL=Porn Linion M=t(atria
Hydric Soil Ind	licators: (Appli	cable to all LR	Rs, unless otherwise noted.)	Indic	ators for Problematic Hydric Soils ³
📋 Histosol (A	1)		Sandy Redox (S5)	2	cm Muck (A10)
Histic Epipe	edon (A2)		Stripped Matrix (S8)		ed Parent Material (TF2)
🗍 Black Histic	c (A3)		Loamy Mucky Mineral (F1) (except MLRA	1) 🗋 V	ery Shallow Dark Surface (TF12)
Hydrogen S	Sulfide (A4)		Loamy Gleyed Matrix (F2)	0 🖸	ther (Explain in Remarks)
Depleted B	elow Dark Surfac	e(A11)	Depleted Matrix (F3)	12.1.14	
C Sacture	Surface (A12)		Redox Dark Surface (F8)	alndic	ators of hydrophytic vegetation and
Sandy Muc	werd Matrix (S4)		Reday Depressions (EP)	We	dand hydrology must be present,
Restrictive I a	ver (if present)	L	redux Depressions (F8)	un	iess disturbed or problematic.
Type:	to be eacid.				
Depth (inch	25):		_		3 D
D 1 0 1				- inganie e	
Kemarks: Soil r	s loose and crum	bly, very sand)	y∽ if not all sand,		
HYDROLOG	s loose and crum Y blogy Indicators:	blý, very sandy	y- if not all sand,		
HYDROLOG Wetland Hydro Primary Indicat	s loose and crum Y blogy Indicators: ors (minimum of o	bly, very sandy		Sec	condary Indicators (2 or more required)
HYDROLOG [®] Wetland Hydro Primary Indicate	s loose and crum Y Slogy Indicators: ors (minimum of c ater (A1)	bly, very sand)			condary Indicators (2 or more required) Water-Stained Leaves (88) (MLRA 1 2
HYDROLOG Wetland Hydro Primary Indicat Surface Wa High Water	Y Slogy Indicators: ors (minimum of c tter (A1) Table (A2)	bly, very sand)	heck all that apply) () Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B)	Sec	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B)
HYDROLOG Wetland Hydro Primary Indicat Surface Wa High Water Saturation (Y Slogy Indicators: ors (minimum of c tter (A1) Table (A2) (A3)	bly, very sandy	heck all that apply) (Water-Stained Leaves (B0) (except M 1, 2, 4A, and 4B) (Sait Crust (B11)	See LRA □	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10)
HYDROLOG Wetland Hydro Primary Indicat Surface Wa High Water Saturation (Water Mark	Y Slogy Indicators: ors (minimum of c tter (A1) Table (A2) (A3) (A3)	DIY, very sandy	heck all that apply) C Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Saft Crust (B11) Aquatic Invertebrates (B13)		2000 2000 2000 2000 2000 2000 2000 200
HYDROLOG Wetland Hydro Primary Indicat Surface Wa High Water Saturation (Water Mark Sediment D	Y Slogy Indicators: ors (minimum of c ther (A1) Table (A2) (A3) is (B1) Deposits (B2)	DIY, very sandy	heck all that apply) Heck all that apply) Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		2000 2000 2000 2000 2000 2000 2000 200
HYDROLOG Wetland Hydro Primary Indicat Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi	Y Slogy Indicators: ors (minimum of c ther (A1) Table (A2) (A3) is (B1) Deposits (B2) its (B3)	DIY, very sandy	heck all that apply) Water-Stained Leaves (B0) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro	Sec LRA xxus (C3)	2000 2000 2000 2000 2000 2000 2000 200
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HYDROLOG Wetland Hydro Primary Indicati Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Inundation V Field Observat Surface Water f Water Table Pro Saturation Pres (includes capilla Describe Record Remarks:	Y Slogy Indicators: ors (minimum of of tter (A1) Table (A2) (A3) is (B1) Neposits (B2) its (B3) r Crust (B4) its (B5) I Cracks (B8) Visible on Aerial I sigetated Concave tions: Present? Y ent? Y ent? Y of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the fo	magery (B7) : : : : : : : : : : : : :	heck all that apply) Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Saft Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Stunted or Stressed Plants (D1) (LRR. Other (Explain in Remarks) Depth (inches): Depth (inches): We pring well, aerial photos, previous inspections	LRA cots (C3) C3) A) ctland Hydrolo	2000 2000 2000 2000 2000 2000 2000 200
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

roject/Site: POPT WBYE Wetland C			City/Count	y: Port Tow	nsend, Jefferson County Sampling Date:02/14/2025
pplicant/Owner: Port of Port Townsend					State: WA Sampling Point: SP-2
nvestigator(s): Lee Dolam				Section, To	ownship, Range: Section 10, Township 30N, Range 1W
andform (hillslope, terrace, etc.): Depre	ssion		Local reli	ef (concave,	, convex, none): Concave Slope (%): 5
ubregion (LRR): A2		Lat: 4	8.10566		Long: -122.78366 Datum:
oil Map Unit Name: Cu (Cul and Fill La	nd)				NWI classification:
re climatic / hydrologic conditions on th	e site typical for thi	s time of yea	Ir? Yes 🖄	No [] (I	If no, explain in Remarks.)
re Vegetation Soil or Hy	drology sig	nificanUy dist	turbed?	Are "No	ormal Circumstances" present? Yes 🖾 🛛 No 🗋
re Vegetation Soil or Hy	drology nat	arally probler	matic?	(If need	ed, explain any answers in Remarks.)
UMMARY OF FINDINGS - At	tach site map	showing	samplin	a point l	ocations, transects, important features, et
			1		
Hydrophytic Vegetation Present?	Yes No		ls ti	ne Sampled	I Area
Hydric Soil Present?			with	nin a Wetlar	nd? Yes 🖾 No 🗌
Remarks:					
rumarka.					
EGETATION – Use scientific	names of plan	its.			
		Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: r=30ft)		% Cover	Species	Status	Number of Dominant Species That Are OBL_EACW_or EAC: 2 (A)
1. <u>None</u>					
3					Total Number of Dominant Species Across All Strata: 2 (B)
4					
			= Total C	Cover	That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: r=1	<u>5ft_</u>)			12/17/2012/201	Drevelance Index worksheet
1 Phalaris arundinacea		5	Yes	FACW	Total & Cover of Multiply by
2. <u>Typha Lalifolia</u>		100	Yes	FACW	
3					FACW species 105 $x = 210$
4					FAC species x 3 =
5.		105	= Total C	over	FACU species x 4 =
Herb Stratum (Plot size: r=5ft.)					UPL species x 5 =
1. None					Column Totals: (A) (B
2,					Provolence index $= B/A = 2$
3,					Hydrophytic Vegetation Indicators:
4					Rapid Test for Hydrophytic Vegetation
5					Dominance Test is >50%
7					Prevalence Index is ≤3.01
B.					Morphological Adaptations ¹ (Provide supporting
9					data in Remarks or on a separate sheet)
10					Repland Non-vascual Plans Problematic Hydrophytic Vegetation ¹ (Explain)
11,			<u> </u>		Indicators of hydric soil and welland hydrology must
Marchi Mine Okolum (Dial aire)	•		= Total (Cover	be present, unless disturbed or problematic.
woody vine stratum (Plot size: 1=301	U III				
2					Hydrophytic
۷			= Total (Cover	Present? Yes 🛛 No 🗌
% Bare Ground in Herb Stratum 0					
Demarket					
Remarks.					
Remarks.					

	on: (Describe	to the	depth r	needed to document the indic	ator or confirm	n the sheen	ce of indicatore 3
Depth	Matrix			Redox Features	ator of contin	ii ule absen	ce of indicators.)
(inches) Col	or (moist)	%	Col	or (moist) % Typ	pe1 Loc2	Texture	Remarks
0-12 2.5	Y (2.5/1)	100				Mucky/San	adv
						machyrotai	
					_	ž	
		_					
				· · · · · · · · · · · · · · · · · · ·			
		_					* *
'Type: C=Concer Mudric Sail India	ntration, D=Dep	letion,	RM=Re	duced Matrix, CS=Covered or C	Coated Sand G	rains ² L	ocation: PL=Pore Lining, M=Matrix.
Historel (A 1)	ators: (Applic	abie to	an LRF	s, unless otherwise noted.)		Indica	ators for Problematic Hydric Soils ³ ;
Histic Enined	on (A2)			Stripped Matrix (S5)			cm Muck (A10)
Black Histic (A	A3)			Loamy Mucky Mineral (F1) (av	Cent MI PA 41		eu marent Matenal (TF2)
Hydrogen Sul	fide (A4) w Dark Surface	e (A11)		Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	oopt mener 1)		ther (Explain in Remarks)
Thick Dark Su	rface (A12)			Redox Dark Surface (F6)		³ Indica	ators of hydrophytic vegetation and
Sandy Mucky	Mineral (S1)			Depleted Dark Surface (F7)		we	tland hydrology must be present,
Sandy Gleyed	Matrix (S4)		Ű	Redox Depressions (F8)		uni	ess disturbed or problematic.
Type	(IT present):						
A						-	
Depth (inches)	•			-			
Depth (inches) Remarks: Soil is c	: completely satur	rated a	nd wet. S	- - Sandy mucky texture, Sampling) point within a	Hydric So	oil Present? Yes 🛛 No 🗌 area.
Depth (inches) Remarks: Soil is o 1YDROLOGY	completely satur	rated a	nd wet. (- Sandy mucky texture, Sampling) point within a	Hydric So	oil Present? Yes 🛛 No 🗌 area.
Depth (inches) Remarks: Soil is o HYDROLOGY Wetland Hydrolo Primary Indicators	completely satur gy Indicators:	rated a	nd wet. t	- - Sandy mucky texture. Sampling) point within a	Hydric So	oil Present? Yes 🛛 No 🗌 area.
Depth (inches) Remarks: Soil is o HYDROLOGY Wetland Hydrolo Primary Indicators Su Surface Water	gy Indicators:	ne requ	nd wet. S	- Sandy mucky texture. Sampling eck all that apply)	, point within a	Hydric So n inundated a Sec	oil Present? Yes 🛛 No 🗌 area.
Depth (inches) Remarks: Soil is o IYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta	gy Indicators: (Minimum of o (A1)	ne requ	nd wet. (uired <u>;</u> ch	- - Sandy mucky texture. Sampling eck all that apply) Water-Stained Leaves (B9 1.2.4A and 49)) (except MLF	Hydric So n inundated a	oil Present? Yes ⊠ No □ area. condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
Depth (inches) Remarks: Soil is o IYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3	gy Indicators: (minimum of o (A1) (ble (A2)))	ne requ	nd wet. (- - Sandy mucky texture. Sampling eck all that apply) Water-Stained Leaves (B9 1, 2, 4A, and 4B) Salt Crust (B11)) (except MLF	Hydric So n inundated a	bil Present? Yes ⊠ No □ area. condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Divinage (B10)
Depth (inches) Remarks: Soil is o IYDROLOGY Wetland Hydrolo Primary Indicators Surface Water Saturation (A3 Saturation (A3 Water Marks (gy Indicators: (minimum of o (A1) (b)(A2) (B1)	ne requ	nd wet. (Carbon Sale Crust (B11) Carbon Sale Crust (B11) Carbon Sale Crust (B11) Carbon Sale Crust (B11) Carbon Sale Crust (B12) Carbo) point within an) (except MLF 3)	Hydric So n inundated a <u>Sec</u> RA D	bil Present? Yes ⊠ No □ area. condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches) Remarks: Soil is of HYDROLOGY Wetland Hydrolo Primary Indicators Surface Water Saface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	gy Indicators: (minimum of o (A1) (b)(A2) (b) (B1) (osits (B2)	ne requ	nd wet. (Caracteristic State Sta) point within an) (except MLF 3) 1)	Hydric So n inundated a <u>Sec</u> RA D	bil Present? Yes ⊠ No □ area. condary 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 Aeriat Imagery (CC
Depth (inches) Remarks: Soil is of HYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	gy Indicators: (minimum of o (A1) (ble (A2))) B1) osits (B2) (B3)	ne req	nd wet. 9	Sandy mucky texture. Sampling eck all that apply) Water-Stained Leaves (B9 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres alc) point within an) (except MLF 3) 1) ong Living Roo	Hydric So n inundated a RA D Is (C3) D	Dil Present? Yes No area. Condary 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 (CS Geomorphic Position (D2)
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Depth (inches) Remarks: Soil is of IYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (gy Indicators: (minimum of o r (A1) able (A2) 1) B1) osits (B2) (B3) rust (B4) (B5)	ne reg	nd wet. s	Sandy mucky texture. Sampling eck all that apply) Water-Stained Leaves (B9 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13 Hydrogen Sulfde Odor (C Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T) point within an) (except MLF 3) 1) ong Living Roo (C4) Filled Soils (C6	Hydric So n inundated a RA is (C3) is (C3) i	bil Present? Yes No area. condary 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 (CS Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Depth (inches) Remarks: Soil is of HYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Drift Deposits Algal Mat or C Iron Deposits (Surface Soil C Inundation Vis Sparsely Vege Field Observation Surface Water Press Saturation 2	gy Indicators: (minimum of o (A1) (A1) (B1) (B2) (B2) (B3) (B5) (B5) (B5) (B6) (B5) (B6) (B6) (B6) (B6) (B6) (B6) (B6) (B6	nagery Surfac	(B7) e (88) No	Sandy mucky texture. Sampling eck all that apply) Water-Stained Leaves (B9 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants Other (Explain in Remarks Depth (inches): 2 Depth (inches): 12 De) point within an) (except MLF)) (except MLF)) (C4) (C4) (C4) (C4) (Illed Soils (C6 s (D1) (LRR A)))	Hydric So n inundated a Sec RA	bil Present? Yes No area. condary 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 (C3 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Depth (inches) Remarks: Soil is of HYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Drift Deposits Algal Mat or C Innundation Vis Sparsely Vege Field Observation Surface Water Present (includes capillary	gy Indicators: (minimum of o (A1) bible (A2) B1) osits (B2) (B3) rust (B4) (B5) racks (B6) ible on Aerial In itated Concave rs: esent? Ye esent? Ye fince	nagery nagery Surfac es X es X	(B7) (B7) e (86) No [] No []) point within an) (except MLF)) (except MLF)))) (cx) (C4))) (C4)	Hydric So inundated a Sec RA Is (C3) Is (C3) and Hydrolo	bil Present? Yes No area. condary 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 (C3 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) gy Present? Yes No
Depth (inches) Remarks: Soil is c HYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (Surface Soil C Inundation Vis Sparsely Vege Field Observation Surface Water Present (includes capillary Describe Recorder	gy Indicators: (minimum of o r (A1) bble (A2) B1) B1) osits (B2) (B3) rust (B4) (B5) racks (B6) ible on Aerial In etated Concave ns: esent? Ye fringe) d Data (stream	nagery Surfaces S ss S gauge	(B7) e (B8) No No monitor	Sandy mucky texture. Sampling eck all that apply) Water-Stained Leaves (B9 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants Other (Explain in Remarks Depth (inches): 2 Depth (inches): 12 ting well, aerial photos, previous) point within an) (except MLF)) (except MLF)) (except MLF))) (C4) (C5) (C4) (C5)	Hydric So inundated a Sec RA	bil Present? Yes ⊠ No □ area. condary 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 (C3 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) gy Present? Yes ⊠ No □
Depth (inches) Remarks: Soil is c IYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (Surface Soil C Inundation Vis Sparsely Vege Field Observation Surface Water Present (includes capillary Describe Recorder Remarks: Hole wa thick.	gy Indicators: (minimum of o r (A1) bble (A2) B1) B1) osits (B2) (B3) rust (B4) (B5) racks (B6) ible on Aerial In stated Concave hs: esent? Ye fringe) d Data (stream s dug at a depti	nagery Surfac es X gauge h of 12	(B7) e (B8) No No No inche, v	Sandy mucky texture. Sampling eck all that apply) Water-Stained Leaves (B9 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants Other (Explain in Remarks Depth (inches): 2 Depth (inches): 12 ing well, aerial photos, previous vater filled the hole completely c) point within an) (except MLF)) (except MLF)) (except MLF)))) (C4) (C	Hydric So inundated a Sec RA	bil Present? Yes ⊠ No □ area. condary 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 (C3 Geomorphic Position (D2) Shallow Aquitart (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) gy Present? Yes ⊠ No □ Thin layer of ice present on top ~1/4 incl

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

roject/Sile: POPT WBYE Wetland C				City/Co	unty: Po	ort Town	nsend, Jefferson County	Sampling Date:02/14/2025
pplicant/Owner. Port of Port Townsend							State: WA	Sampling Point: SP-3
nvestigator(s): Lee Dolam					Sec	ction, To	wnship, Range: Section 10	Township 30N, Range 1W
andform (hillslope, terrace, etc.): Depres	sion			Local	relief (c	oncave,	convex, none): Concave	Slope (%): 5
Subregion (LRR): A2			Lat: 48.1	054743			Long: -122.7837691	Datum:
oil Man Unit Name: Cu (Cut and Fill Lan	d)						NWI classificat	ion:
re climatic / hydrologic conditions on the	sile typic	al for this	time of vea	ar? Yes	s 🖾 N	to [] (I	f no, explain in Remarks.)	
vice Vegetation Soil or Hyd	trology	siar	ificantly dis	lurbed?	,	Are "No	ormal Circumstances" pres	ent? Yes 🖾 No 🗀
The Vegetation, Soli, or Hys	irology	orgi	rally proble	matic?		(if need	ed explain any answers in	Remarks.)
re vegetation, Soli, or hyd	11010gy	Hatt	nany prosici	Ingatio :		(11 11000		
SUMMARY OF FINDINGS - Att	ach site	e map :	showing	samp	oling p	oint le	ocations, transects,	important features, e
Hydrophytic Vegetation Present?	Yes 🖂	No 🗔			- the C	omplad	A.r.o.	
Hydric Soil Present?	Yes 🛛	No 🗆			s ule Si vithin a	ampied Wottee	1.700 1.702 Vαε ⊠ Ν/	
Wetland Hydrology Present?	Yes 🛛	No 🗌		_		Weud		· L.
Remarks:								
EGETATION – Use scientific r	names (of plan	ts.					
			Absolute	Domin	hant Inc	dicator	Dominance Test works	heet:
Tree Stratum (Plot size: r=30ft)			% Cover	Speci	IES? S	status	Number of Dominant Sp	Cies
1. Salix Discolor Muhl.			45	Yes	<u>FA</u>	CIU	That Are OBL, FACW, O	FAC. <u>3</u> (A)
2. Betula pendula			30	res	<u>FA</u>		Total Number of Domina	nt (B)
3							Species Across All Strate	i. <u>4</u> (b)
4			75	= Tota	al Cove	er.	Percent of Dominant Spe	CIES
Sapling/Shrub Stratum (Plot size: r=15	ft.)		10				That Ale OBL, FACW, O	TAG. <u>19</u> (48
1,						;	Prevalence Index work	sheet:
2					<u> </u>		Total % Cover of.	Multiply by:
3,						;	OBL species	x1=
4							FACW species 155	X2 = <u>310</u>
5							FAC species	X3 ~
Herb Stratum (Plot size: r=5ft.)			<u> </u>	= 100	al Cove	*1	LIPL species	x 5 =
1 Typha latifolia			70	Yes	EA	CW_	Column Totals: 185	(A) 430 (E
2. Phalaris arundinacea			40	Yes	EA	CW_		
3							Prevalence Index	= B/A = <u>2.32</u>
4							Hydrophytic Vegetation	Indicators:
5							Rapid Test for Hydro	phytic Vegetation
6							Dominance Test is >	50% <2.01
7				_	_	S	Mombological Adapt	so.v
8							data in Remarks	or on a separate sheel)
9							Wetland Non-Vascul	ar Plants ¹
10							Problematic Hydroph	ytic Vegetation ¹ (Explain)
11			110	= Tot	al Cove	ar .	¹ Indicators of hydric soil	and wetland hydrology must
Woody Vine Stratum (Plot size: r=30ft))		110	- 100			pe present, unless distui	bed or problematic.
1. None	-						Hudrophytic	
2							Vegetation	
				= Tot	al Cove	ЭГ	Present? Yes	🛛 No 🗋
% Bare Ground in Herb Stratum 15							l	
Remarks:								

Profile Description: (De	scribe to the	e depth i	needed to document the indicator	or confirm the	e absence of indicators.)
Depth I	Aatrix		Redox Features		
(inches) Color (mois	t) %	Co	for (moist) % Type ¹	Loc ² Te	exture Remarks
0-12 2.5Y (3/1)	100			Mu	cky/Sandy/Lo
		22			
Type: C=Concentration.	D=Depletion	RM=Re	duced Matrix, CS=Covered or Coater	d Sand Grains	2Location: PL=Pore Lining M-Matrix
Hydric Soil Indicators:	Applicable t	o all LR	Rs, unless otherwise noted.)	Contraction of the local diagonal diago	Indicators for Problematic Hydric Soits ³ :
Histosol (A1)			Sandy Redox (S5)		2 cm Muck (A10)
Histic Epipedon (A2)			Stripped Matrix (S6)		Red Parent Material (TF2)
L.I Black Histic (A3)			Loamy Mucky Mineral (F1) (except I	MLRA 1)	Very Shallow Dark Surface (TF12)
Depleted Relow Dark) Surface (A44		Loamy Gleyed Matrix (F2)		🔲 Other (Explain in Remarks)
Thick Dark Surface (A	12)	' U 	Redox Dark Surface (F6)		Indicators of hydronix tio venetation of
Sandy Mucky Mineral	(S1)		Depleted Dark Surface (F7)		wetland hydrology must be present
C Sandy Gleyed Matrix	(S4)		Redox Depressions (F8)		unless disturbed or problematic
Restrictive Layer (if pres	sent):				· • • • • • • • • • • • • • • • • • • •
Type:			_		
Depth (inches):		_		H	vdric Soil Present? Ves 🕅 No 🗔
Remarks: Soil is complete	ly saturated a	and wet.	Sandy mucky texture. Sampling point	t within an inur	ndated area.
Remarks: Soil is complete	ly saturated a	and wet	Sandy mucky texture. Sampling point	t within an inur	ndated area.
Remarks: Soil is complete HYDROLOGY Wetland Hydrology India	ly saturated a	and wet	Sandy mucky texture. Sampling point	t within an inur	ndated area.
Remarks: Soil is complete	ly saturated a sators: um of one req	and wet. uired; ch	Sandy mucky texture. Sampling point	t within an inur	Secondary Indicators (2 or more required)
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2)	ly saturated ; ;ators: um of one req	and wet. Juired; ch	Sandy mucky texture. Sampling point eck all that apply) [] Water-Stained Leaves (B9) (exu 1.2.40, and 4B)	t within an inur	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3)	ly saturated a sators: um of one reg	and wet. uuired: ch	Sandy mucky texture. Sampling point eck all that apply) [] Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) [] Salt Crust (B11)	t within an inur	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Containing Reations (B 10)
Remarks: Soil is complete HYDROLOGY Wetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ly saturated ; ators: um of one reg	and wet. uuired; ch	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	t within an inur	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Remarks: Soil is complete HYDROLOGY Wetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B)	ly saturated ; ators: um of one reg	and wet. uuired: ch	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	t within an inur	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 (C)
Remarks: Soil is complete HYDROLOGY Wetland Hydrology Indic Primary Indicators (minimi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	ly saturated ; ators: um of one red	and wet. Juired: ch	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li	t within an inur cept MLRA iving Roots (C:	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 (C3)
Remarks: Soil is complete HYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4)	ly saturated ; ators: um of one red) 2)	and wet	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4)	t within an inur cept MLRA iving Roots (C	
Remarks: Soil is complete HYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Info Deposits (B5)	ly saturated ; ators: um of one red) 2)	and wet	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	t within an inur cept MLRA iving Roots (C: Soils (C6)	
Remarks: Soil is complete HYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (E5)	ly saturated ; ators: um of one red) 2))	and wet	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1)	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A)	
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimus 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 (E Inundation Visible on /	ly saturated ; ators: <u>um of one reg</u>) 2)) kerial Imagery	uired; ch	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks)	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A)	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimi 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 (E Inundation Visible on / Sparsely Vegetated C	ly saturated ; ators: <u>um of one reg</u>) 2)) kerial Imagen pricave Sunfar	uired: ch (B7) ce (B8)	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks)	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A)	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 (C3) Geomorphic Position (D2) Shallow Aquilard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on / Sparsely Vegetated Co Field Observations:	ly saturated ; ators: <u>um of one reg</u>) (2)) (6)) verial Imager) pricave Surfac	(B7) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Sandy mucky texture. Sampling point eck all that apply) U Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks)	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A)	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on / Sparsely Vegetated Co Field Observations: Surface Water Present?	ly saturated ; ators: um of one reg) (2) (4) (6) (4) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	(B7) (Ce (B8) No []	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): 3	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A)	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on / Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present?	ly saturated ; ators: um of one reg) (arial Imagen) (arial Imagen	(B7) (Ce (B8) No No	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): <u>3</u> Depth (inches): <u>12</u>	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A)	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimi 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 (E Inundation Visible on / Sparsely Vegetated C4 Field Observations: Surface Water Present? Water Table Present? Mater Capillary frince)	ly saturated ; ators: um of one reg))))) verial Imagen yncave Surfar Yes ⊠ Yes ⊠ Yes ⊠	(B7) (B7) (ce (B8) No No No No No	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): 3 Depth (inches): 12 Depth (inches): 12	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A)	Added area
Remarks: Soil is complete 1YDROLOGY Wetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Surface Soil Cracks (E Inundation Visible on / Sparsely Vegetated C4 Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (ly saturated ; ators: um of one req) (2) (46) (46) (46) (46) (46) (46) (46) (46	(B7) (ce (B8) No [] No [] No [] No []	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exi 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): 3 Depth (inches): 12 Depth (inches): 12	t within an inur cept MLRA iving Roots (C: Soits (C6)) (LRR A) Wetland H ections), if ava	A dated area.
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (E5) Surface Soil Cracks (E5) Inundation Visible on / Sparsely Vegetated C4 Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (in Remarks: Hole was duo at	ly saturated ; ators: um of one red) (2)) (6) (erial Imagen) (concave Surfac Yes (Concave Surfac) Yes (Concave Surfac)	(B7) (B7) (ce (B8) No () No () No () No () No () No () No () No () No ()	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): <u>3</u> Depth (inches): <u>12</u> Depth (inches): 12_ ing well, aerial photos, previous insp	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A) Wetland H ections), if ava	
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minim 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 (E5) Inundation Visible on / Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Mater Table Present? Saturation Present? Mater Table Present? Saturation Present? Mater Table Present? Mater Table Present? Saturation Present? Mater Table Present? Mater Table Present? Saturation Present? Mater Table Present? Saturation Present? Mater Table Present? Saturation Present? Mater Table Present? Saturation Present? Mater Table Present? Mater Tabl	ly saturated ; ators: um of one reg) (2)) (6)) (6)) (6)) (7) (7) (7) (7) (7) (7) (7) (7) (7)	(B7) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): <u>3</u> Depth (inches): <u>12</u> Depth (inches): <u>12</u> Ting well, aerial photos, previous insp water filled the hole completely and I	t within an inur cept MLRA iving Roots (C: Soils (C6)) (LRR A) Wetland H ections), if ava	
Remarks: Soil is complete IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (E5) Inundation Visible on / Sparsely Vegetated Cc Field Observations: Surface Water Present? Water Table Present? Water Table Present? Mater Yable Present? Mater Yable Present? Mater Capillary fringe) Describe Recorded Data (Remarks: Hole was dug at thick.	ly saturated ; ators: um of one reg)))))))))))))))))))	(B7) (B7) (ce (B8) No No No 2 inches,	Sandy mucky texture. Sampling point eck all that apply) Water-Stained Leaves (B9) (exc 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): 3 Depth (inches): 12 Depth (inches): 12 ing well, aerial photos, previous inspire water filled the hole completely and 1	t within an inur cept MLRA iving Roots (C: Soits (C6)) (LRR A) Wetland H ections), if ava	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Hydrology Present? Yes No itable: the soil. Thin layer of ice present on top ~1/4 in
WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

				City/Cour	ity. Put tow	insend, senerson county	Sampling Date. 02/14/2025
oplicant/Owner: Port of Port Townsen	d					State: WA	Sampling Point: SP-4
vestigator(s): Lee Dolam					_ Section, To	ownship, Range: Section 1	0, Township 30N, Range 1W
indform (hillslope, terrace, etc.); Shou	Ider slope			Local re	lief (concave	, convex, none): Convex	Slope (%): 10
Ibregion (I RR): A2			Lat: 48.1	055407		Long: -122.7838851	Datum:
bit Man Linit Name: Cu /Cut and Fill I	and)					NWI classifica	tion:
a slimatic (hydrologia conditions on t	ha sito tunic	al for this	time of ves	2 Yes	21 No (~) (If no evolain in Remarks)	
e climatic / hydrologic contations on t	udrology		vificantly die	turbod?		ormal Circumstances" pres	ent? Yes 🕅 No 🗂
e vegetauon, soii, oi H	yarology	Sigi			(IE pood	led evolution and ances pres	Domarke)
e Vegetation, Soil, or H	yarology	natu	rally proble	naucz	(II Need	ieu, explain any answers in	Nemarks./
UMMARY OF FINDINGS - A	ttach site	map	showing	sampli	ng point l	ocations, transects,	important features, et
Hydrophytic Vegetation Present?	Yes 🗍	No 🖂			the Femples	Aroa	
Hydric Soil Present?	Yes 🗌	No 🖂		15	thin a Wotla	nd? Vos 🗆 N	
Wetland Hydrology Present?	Yes 🗌	No 🛛					
Remarks:							
EGETATION – Use scientific	names c	f plan	ts.				
Tree Stratum (Plot size: r=30ft)			Absolute % Cover	Dominal	nt Indicator ? Status	Dominance Test works	neet:
Crataeous Monogyna			20	Yes	FAC	That Are OBL, FACW. o	r FAC: <u>2</u> (A)
2. Prunus Emarginata			25	Yes	FACU	Total Alumbas of Da-	unt
a				4-4-	- Andrew Con Permit	Species Across All Strat	a: 2 (B)
1.						Descent of Descinct On	
			45	= Total	Cover	That Are OBL, FACW, o	r FAC: <u>100</u> (A/B
Sapling/Shrub Stratum (Plot size: r=	15ft)						
1. Conium maculatum			10	No	<u>FAC</u>	Prevalence Index work	sheet:
2. Rubus armenicaus			<u>65</u>	Yes	FACU	Total % Cover of:	Multiply by:
3			3			OBL species	X] =
4		-				FACW species	X 2 =
5			75	Tatal		FAC species 00	x 4 = 400
Herb Stratum (Plot size: r=5ft)			/5	= 10(a)	Cover	LIPI species 10	x 5 = 50
1 Conium maculatum			60	Yes	FAC	Column Totals: 170	(A) 630 (B
2. Cardamine hirsula			5	No	FACU	Coldmin Foliais. 174	(
a. Dactylis Glomerata			5	No	FACU	Prevalence Index	= B/A = <u>3.71</u>
4. Common sowthistle			10	No	UPL	Hydrophytic Vegetatio	n Indicators:
5,						Rapid Test for Hydro	phytic Vegetation
6,					N/2	Dominance Test is >	50%
7						Prevalence Index is	≤3.0'
3						data in Remarke	ations ¹ (Provide supporting or on a separate sheet)
9						Wetland Non-Vascu	ar Plants ¹
10,						Problematic Hydron	vtic Vegetation ¹ (Explain)
11,						¹ Indicators of hydric soil	and wetland hydrology must
Moody Vine Stratum (Dist size:20	m)		80	= Total	Cover	be present, unless distu	bed or problematic.
Woody vine arratum (Plot size: [=30	11/						
))						Hydrophytic	
£				= Total	Cover	Present? Yes	No 🛛
% Bare Ground in Herb Stratum 15							
Remarks: Vegetation passed domina	nce test faile	ed preva	lance index	test. Maj	only of the ve	egetation is hydrophytic but	distribution of species is not
significant to classify as wetland.							

Tronic Deser	iption: (Describ	e to the	e depth r	needed to docu	ment the ind	licator o	r confirm	the abs	sence	of indica	tors.)		_
Depth (inches)	Matrix Color (moist)	94	Col	Redo	x Features	Tunol	Log2	Tauture			0	4	
0.12		400		ior (moist)	70 1	ype.	LOC	Texture	<u> </u>		Rema	KS.	
0-12	2.51 (2.5/1)	100						Sandy		Filled wit	h rocks/p	ebbles/woody	del
		_	_										-
										.c			_
													-
*Type: C=Cor Hydric Soil In	centration, D=De	pletion,	RM=Re	duced Matrix, CS	S=Covered or	r Coated	Sand Gra	lins,	² Loc	ation: PL	=Pore Lin	ing, M=Matrix	
Histosol (A	(1)	same t	o an LRI (**)	Sandy Peday /	(wise noted.)	-)		ind m		S TOF Pro	plematic	Hydric Soils	
Histic Epip	edon (A2)			Stripped Matrix	(S6)				∠ cm Red i	NUCK (A1 Parent Ma	v) iterial (TE	2)	
🗍 Black Histi	ic (A3)			Loamy Mucky N	Aineral (F1) (e	except M	ILRA 1)		Very	Shallow D	Dark Surfa	-, ice (TF12)	
Hydrogen	Sulfide (A4)			Loamy Gleyed	Matrix (F2)				Other	(Explain	in Remar	ks)	
Depleted E	Below Dark Surface	ce (A11)	Depleted Matrix	(F3)								
Sandy Mu	cky Mineral (S1)			Depleted Dark Sul	liace (F6) Surface /F7)			JUG	ucator	's of hydro	ophytic ve	getation and	
Sandy Gle	yed Matrix (S4)			Redox Depressi	ions (F8)				unless	a nyarolo a distarber	yy must i d or omble	e present, ematic	
Restrictive La	yer (if present):				/						0. 1000		
Type:													
Depth (inch	ies):			-									
Depth (inch Remarks: Soil	is dry and loose.	Rocks,	pebbles,	and woody deb	ris/roots prese	ent, Mos	itly all san	Hydric d.	: Soil I	Present?	Yes] No 🕅	
Depth (inch Remarks: Soil	ies): is dry and loose. Y	Rocks,	pebbles,	and woody deb	ris/roots prese	ent, Mos	itiy all san	Hydric d.	: Soil I	^p resent?	Yes [] No 🕅	
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr	is dry and loose. Y Ology Indicators	Rocks,	pebbles,	- and woody deb	ris/roots prese	ent, Mos	itiy ali san	Hydric d.	: Soil I	^p resent?	Yes [) No 🛛	
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical	is dry and loose. Y Y ology Indicators (minimum of place (A1)	Rocks,	pebbles, uired, ch	- and woody deb	ris/roots prese v)	ent, Mos	itly all san	Hydric d.	Soil I	Present? dary Indic	Yes] No 🛛	ed)
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indica Surface Wat	Y ology Indicators (ors (minimum of ater (A1)	Rocks,	pebbles, uired, ch	and woody deb	ris/roots prese y) ned Leaves (E	ent, Mos B9) (exc	tly all san	Hydric d.	Soil I	dary Indic	Yes ators (2 o ed Leaves] No 🕅 <u>r more requin</u> ; (B9) (MLRA	<u>ed)</u> 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface W: High Wate Saluration	Y ology Indicators (Minimum of ater (A1) Table (A2) (A3)	Rocks, s: one reg	pebbles, uired; ch	- and woody deb neck all that apph Water-Stain 1, 2, 44 Satt Crust	ris/roots press y) ned Leaves (E A, and 4B) (E11)	ent, Mos B9) (exc	itly all san	Hydric d.	Soil I Secon	Dresent? darv Indic. ter-Staine 4A, and	Yes ators (2 o ed Leaves 4B)] No 🕅 r more require (B9) (MLRA	<u>ed)</u> 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Sulface Wa High Water Saturation Water Mart	Y ology Indicators lors (minimum of ater (A1) r Table (A2) (A3) ks (B1)	Rocks, s: one ren	pebbles, uired; ch	- and woody debi eeck all that apph Water-Staii 1, 2, 44 Sait Crust (Aquatic low	v) ned Leaves (E B11) (Efet)	ent, Mos B9) (exc	itly all san	Hydric d. A [Soil I	dary Indic ter-Staine 4A, and ainage Pa	Yes ators (2 o ed Leaves 4B) tterns (B1	 No X r more require (B9) (MLRA 0) 	<u>ad)</u> 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Sulface W: High Water Saluration Water Mari Sediment (Y ology Indicators lors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	Rocks,	pebbles, uired: ch	- and woody deb eck all that apph Water-Stai 1, 2, 44 Salt Crust (Aquatic Inv Hydrogen S	v) ned Leaves (E A, and 4B) (B11) ertebrates (B Sulfide Odor /	ent, Mos B9) (exc 313) (C1)	itly all san	Hydric d. A [[[Secon	dary Indic dary Indic ter-Staine 4A, and ainage Pa -/Season luration V/	Yes ators (2 o ed Leaves 4B) Water Tal sille on (B1	No No rmore require (B9) (MLRA 0) ble (C2) Arrial Images	ad) 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface Wa High Water Saturation Water Mart Sediment (Dirit Depos	Y ology Indicators lors (minimum of ater (A1) Table (A2) (A3) ks (B1) Deposits (B2) sits (B3)	Rocks,	pebbles, uired; ch	- and woody debi and woody debi () Water-Stai 1, 2, 4A () Salt Crust (() Aquatic Inv () Hydrogen S () Oxidized R	y) ned Leaves (E A, and 4B) (B11) rertebrates (B Suffide Odor (hizospheres a	ent, Mos B9) (exc 313) (C1) along Liv	itly all san	Hydric d. A [[[[[[[[[[[[[[[[[[[Soil I Secon	dary Indic dary Indic ater-Staine 4A, and ainage Pa -Season turation Vi omorphic	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on A Position (A	No No Prove require (B9) (MLRA 0) ble (C2) Aerial Imageny D2)	ed) 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface Wa High Water Saturation Saturation Saturation Saturation Drift Depos Algal Mat c	Y ology Indicators lors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	Rocks,	pebbles, uired: ch	and woody deb and woody deb () () () () () () () () () ()	v) ned Leaves (E , and 4B) (B11) rertebrates (B Sulfide Odor (hizospheres a of Reduced Inc	ent, Mos B9) (exc 313) (C1) along Liv on (C4)	itly all san	Hydric d. A [[[[[[[[[[[[[[[[[[[Secon	Present? dary Indic ter-Staine 4A, and ainage Pa /-Season turation Vi omorphic allow Aqui	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on / Position () itard (D3)	No X rmore requin (B9) (MLRA 0) ble (C2) Aerial Imagery D2)	<u>ed)</u> 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface Wa High Water Saturation Saturation Saturation Drift Depos Algal Mat c Iron Depos	Y ology Indicators lars (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5)	Rocks,	pebbles, uired; ch	and woody deb eck all that apph Water-Stair 1, 2, 44 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iror	v) ned Leaves (E , and 4B) (B11) rertebrates (B Sulfide Odor (hizospheres a of Reduced Irc n Reduced Irc	ent, Mos B9) (exc 313) (C1) along Liv on (C4) n Tilled S	itly all san	Hydric d. A [(C3) [L L	Secon Wa Dra Dra Sal Sal Shi FA	Present? dary Indic ter-Staine 4A, and ainage Pa /-Season turation Vi omorphic allow Aqu C-Neutral	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on / Position (1tard (D3) Test (D5)	No X rmore requin (B9) (MLRA 0) ble (C2) Aerial Imagery D2)	ed) 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface Wa High Water Saturation Saturation Saturation Saturation Saturation Drift Depos Algal Mat c Iron Depos Surface So	Y ology Indicators lars (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) il Cracks (B6)	Rocks,	pebbles, uired: ch	and woody debi	v) ned Leaves (E , and 4B) (B11) rertebrates (B Sulfide Odor (hizospheres a of Reduced Irc Reduced Irc Reduced Irc Reduction in Stressed Plar	ent, Mos B9) (exc 313) (C1) along Liv on (C4) n Tilled S nts (D1)	itly all san	Hydric d. A [(C3) [L (C3) [L	Secon Wa Dra Dra Sal Ge Sha FA Ra	Present? dary Indic ter-Staine 4A, and ainage Pa /-Season turation Vi omorphic allow Aqui C-Neutral ised Ant M	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on / Position (itard (D3) Test (D5) founds (E	No	ed) 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface Wa High Water Saturation Water Mart Saturation Water Mart Sediment (Drift Depos Algal Mat c Iron Depos Surface So Inundation	es):is dry and loose. Y ology Indicators lors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) its (B3) or Crust (B4) its (B5) ill Cracks (B6) Visible on Aerial	Rocks, S: One reg	pebbles, uired; ch	and woody debi	v) ned Leaves (E , and 4B) (B11) rertebrates (B Sulfide Odor (hizospheres a of Reduced Irc h Reduction in Stressed Plar lain in Remark	ent, Mos B9) (exc 313) (C1) along Liv on (C4) n Tilled S nts (D1) rks)	itly all san	Hydric d. A [(C3) [[[[[[[[[[[[[[[[[[[Secon Wa Dra Sal Sal FA Ra Fro	Present? darv Indic ter-Staine 4A, and ainage Pa /-Season turation Vi omorphic allow Aqui C-Neutral ised Ant M st-Heave	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on A Position (itard (D3) Test (D5) Aounds (E Hummoc	No X r more requin r more requin (B9) (MLRA 0) (ble (C2) Aerial Imagery (D2) (D2) (D4) (D5) (LRR A) (Ks (D7))	ed) 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface W: High Water Saturation Saturation Sediment (Drift Depos Algal Mat c Iron Depos Surface Soo Inundation Sparsely V	es): is dry and loose. Y ology Indicators lors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) il Cracks (B6) Visible on Aerial egetated Concav	Rocks, Si One reg Imagen e Surfar	pebbles, uired; ch (B7) ce (B8)	and woody deb and woody deb water-Stain 1, 2, 44 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iror Stunted or Other (Expl	v) ned Leaves (E A, and 4B) (B11) rertebrates (B Sulfide Odor (hizospheres a of Reduced Irc n Reduction in Stressed Plar lain in Remart	ent, Mos B9) (exc 313) (C1) along Liv on (C4) n Tilled S nts (D1) rks)	itly all san rept MLRA ving Roots Soils (C6) (LRR A)	Hydric d. A [(C3) [[[[[[[[[[[[[[[[[[[Secon Wa Dra Sal Sal FA Rai Fro	darv Indic darv Indic ter-Staine 4A, and ainage Pa /-Season turation Vi omorphic allow Aqui C-Neutral ised Ant M sst-Heave	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on A Position (itard (D3) Test (D5) Aounds (E Hummoc	No No No No	ed) 1, 2
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Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface W: Saturation Saturation Sediment (Drift Depos Algal Mat c Iron Depos Surface Soo Inundation Sparsely V. Field Observa Surface Water Water Table Pr Saturation Pres	Y ology Indicators lors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) il Cracks (B6) Visible on Aerial egetated Concav tions: Present? Seent?	Rocks, :: one reg imagery e Surfar Yes [] Yes [] Yes []	pebbles, uired; ch (B7) ce (B8) No [] No [] No []	- and woody debi teck all that apph Water-Stain 1, 2, 48 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iror Stunted or Other (Expl Depth (inches Depth (inches Depth (inches	v) ned Leaves (E A, and 4B) (B11) tertebrates (B Sulfide Odor (hizospheres a f Reduced Irc Reduction in Stressed Plar lain in Remart): 	ent, Mos B9) (exc 313) (C1) along Liv on (C4) n Tilled S n Tilled S n Tilled S	itly all san	Hydric d. A [C (C3) [C C C C C C C C C C C C C C C C C C C	Secon Wa Dra Con Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	An and a second	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on A Position (itard (D3) Test (D5) Aounds (E Hummoc	No ⊠ r more requint (B9) (MLRA 0) (ble (C2) Aerial Imagery (D) (C2) (Aerial Imagery) (b) (RR A) (b) (No ⊠	ed) 1, 2
Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface Wa High Water Saturation Saturation Drift Depos Algal Mat c Drift Depos Algal Mat c Iron Depos Surface So Inundation Sparsely V Field Observa Surface Water Water Table Pr Saturation Press (includes capilit Describe Record	Y ology Indicators lors (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) its (B3) or Crust (B4) its (B5) ill Cracks (B6) Visible on Aerial egetated Concav tions: Present? resent? sest? ary fringe) rded Data (stream	Rocks, S: One read Imagery e Surfar Yes Yes Yes Imagery	(B7) ce (B8) No No No No No No No No No No	and woody debi	v) ned Leaves (E A, and 4B) (B11) rertebrates (B Sulfide Odor (hizospheres a f Reduced fro Reduction in Stressed Plar lain in Remart):): bhotos, previo	ent, Mos B9) (exc 313) (C1) along Liv on (C4) n Tilled S nts (D1) n rks)	itly all san rept MLRA ving Roots Soils (C6) (LRR A) Wetlar ections), ff	Hydric d. (C3) [C C C C C C C C C C C C C C C C C C C	Secon Secon Wa Dra Sal Sal FA Ral Fro ology e:	Present? dary Indic ter-Staine 4A, and ainage Pa /-Season turation Vi omorphic allow Aqu C-Neutral ised Ant N st-Heave Present?	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on A Position (itard (D3) Test (D5 Aounds (E Hummoc Yes Yes Yes Yes	No ⊠ r more requin r more requin (B9) (MLRA 0) ble (C2) Aerial Imagery D6) (LRR A) ks (D7)) No ⊠	ed) 1, 2
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Depth (inch Remarks: Soil HYDROLOG Wetland Hydr Primary Indical Surface Wa Saturation Saturation Saturation Sediment (Drift Depos Algal Mat c Iron Depos Surface Soo Inundation Sparsely V. Field Observa Surface Water Water Table Pr Saturation Press (includes capili Describe Recon Remarks:	Y ology Indicators lars (minimum of ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) its (B3) or Crust (B4) its (B5) ill Cracks (B6) Visible on Aerial egetated Concav tions: Present? Seent? Seent? Seart?	Rocks, S: One reg one reg one reg Nes [] Yes [] n gauge	pebbles, uired; ch (B7) ce (B8) No No No No No No No No No No	and woody deb eck all that apph Water-Stain 1, 2, 44 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iror Stunted or Other (Expl Depth (inchess Depth (inchess) Depth (inchess Depth (inchess) Depth (inches)	v) ned Leaves (E , and 4B) B11) rertebrates (B Sulfide Odor (hizospheres a of Reduced Irc h Reduction in Stressed Plar lain in Remark):): bhotos, previo	ent, Mos B9) (exc 313) (C1) along Liv on (C4) n Tilled S nts (D1) f rks)	itly all san rept MLRA ving Roots Soils (C6) (LRR A) Wetlar sctions), if	Hydric d. A (C3) (C3) (C (C3) (C (C3) (C (C3) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Secon Secon Wa Drr Ca Sal Sal Sal Sal FA Ral Fro ology e:	Present? dary Indic ter-Staine 4A, and ainage Pa /-Season turation V/ omorphic allow Aqui C-Neutral ised Ant M st-Heave Present?	Yes ators (2 o ed Leaves 4B) tterns (B1 Water Tal isible on / Position (itard (D3) Test (D5) founds (E Hummoc Yes Yes Yes	No ⊠ r more requin r more requin (B9) (MLRA 0) (ble (C2) Aerial Imagery (D) (D) (B) (LRR A) (Ks (D7)) No ⊠	ed) 1, 2 r (C

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

Project/Site: POPT WBYE Wetland C			city/count	y. Port Tow	State: WA	Sampling Point: SP-5
opplicant/Owner. Port of Port Townsen	10			Section To	State: Mar	10 Township 30N Range 1W
ivestigator(s): Lee Dolam				Section, 10	wriship, Range. Section	Slane (%): 0
andform (hillslope, terrace, etc.): Terra	ace/Flat land		Local reli	er (concave	, convex, none). None	Slope (70). U
ubregion (LRR): A2		Lat: 48.1	060561		Long: -122,7836333	Datum:
oil Map Unit Name: <u>Cu (Cul and Fill L</u>	and)				NWI classific	ation:
re climatic / hydrologic conditions on t	the site typical for this	s time of yea	r?Yes 🛛	No [] (I	lf no, explain in Remarks.)
re Vegetation, Soil, or H	lydrology sigi	nificantly dis	turbed?	Are "No	ormal Circumstances" pre	esent? Yes 🖾 🛛 🗋
re Vegetation , Soil, or H	lydrology natu	rally probler	natic?	(If need	ed, explain any answers i	in Remarks.)
UMMARY OF FINDINGS - A	ttach site map	showing	samplin	g point l	ocations, transects	, important features, et
Hydrophytic Venetation Present?	Yes No 🕅					
Hydric Soil Present?	Yes 🗌 No 🖾		15 0	in a Wotlay	rArea ad2 Voc∏ M	No M
Wetland Hydrology Present?	Yes 🗌 No 🖂		with	in a weuai		
Remarks:						
EGETATION – Use scientific	c names of plan	ts.				
Tree Stratum (Plot size r=30ft)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	(sheet:
1 Alous rubra		40	Yes	FAC	That Are OBL, FACW,	or FAC: 4
2. Tilia americana		15	Yes	FACU	Total Number of Domin	ant
3.					Species Across All Stra	ata: <u>7</u> (B)
4.					Description of Description of O	
		55	= Total C	Cover	That Are OBL, FACW.	or FAC: 57.1 (A/B
Sapling/Shrub Stratum (Plot size: r=	15ft)					
1. Rubus Armeniacus		20	Yes	FAC	Prevalence Index wor	rksheet:
2. Gaultheria shallon		10	Yes	FACU	Total % Cover of:	Multiply by:
3					OBL species	x1=
4					FACW species	x 2 =
5			-		FAC species <u>70</u>	x 3 = <u>210</u>
		30	= Total C	Cover	FACU species 40	x 4 = <u>160</u>
Herb Stratum (Plot size: r=511)		15	Vac	FACU	UPL species	X5=(
1. Senecio vulgans		<u>15</u>	Voc	EAC	Column Totals: 110	(A) <u>370</u> (B
2 Ranunculus repens		5	Vec	FAC	Prevalence Index	(= B/A = 3.36
3. Cardamine hirsuta		3	163	(AU	Hydrophytic Vegetati	on Indicators:
4					Rapid Test for Hyd	rophytic Vegetation
5,					Dominance Test is	>50%
7				0.	Prevalence Index is	s ≤3.0 ¹
8					Morphological Ada	ptations ¹ (Provide supporting
9					Moffand Non-Vaso	ular Plants ¹
10					Problematic Hydro	phylic Vegetation ¹ (Explain)
11					Indicators of hydric so	il and wetland hydrology must
Woody Vine Stratum (Plot size: r=30	Oft)	<u>25</u>	= Total (Cover	be present, unless dist	urbed or problematic.
1 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					Hudrophytic	
2					Vegetation	
			= Total C	Cover	Present? Ye	es 🗌 No 🖾
% Bare Ground in Herb Stratum <u>30</u>						
and the second se	ance test failed preva	lance index	test. Majo	nty of the ve	egetation is hydrophytic bu	ut distribution of species is not
Remarks: Vegetation passed domina	nice tool toned prove					
Remarks: Vegetation passed domina significant to classify as welland.						

 \approx^{14}

3 -

Profile Description: (Des	cribe to the	e depth r	needed to document the indicator of	or confirm	the abs	sence	of indicators.)	
Depth Ma	atrix or	- Co	Redox Features	2.3	÷			
0-9 2.5X (2.5/1)			ior (moist) % Type	LOC*	Texture	e	Rem	arks
2.51 (2.5/1)	0U				Sandy		Filled with rocks/	pebbles/woody de
<u>10-12</u> <u>2.5Y(5/2)</u>	20	-			<u>Sandy</u>			
						-		
2							3	
0								
'Type: C=Concentration, D	=Depletion	RM=Re	duced Matrix, CS=Covered or Coate	d Sand Gra	lins.	² Loc	ation: PL=Pore L	ining, M=Matrix
Hydric Soil Indicators: (A	pplicable t	o all LR	Rs, unless otherwise noted.)	and the second	inc	dicato	rs for Problemati	c Hydric Soils ³ :
Histosol (A1)			Sandy Redox (S5)			2 cm	Muck (A10)	
Black Histic (A3)			Stripped Matrix (S6)			Red	Parent Material (T.	F2)
Hydrogen Sulfide (A4)		H	Loamy Mucky Mineral (F1) (except Loamy Gleved Matrix (F2)	MLRA 1)		Othe	Shallow Dark Suri	1ace (11-12) arks)
Depleted Below Dark S	urface (A11		Depleted Matrix (F3)		اسما	Guie	- versionen in reditio	2113)
Thick Dark Surface (A1	2)		Redox Dark Surface (F6)		³ In	dicato	rs of hydrophytic v	regetation and
Sandy Gleved Matrix (S	4)		Redox Depressions (E9)			wetlar	nd hydrology must	t be present,
Restrictive Layer (if prese	nt):					anicas	a aratar ped or prot	actitute.
Type:			-					
Depth (inches): Remarks: Soil is dry and loo	ose. Rocks,	pebbles,	- and woody debris/roots present. Mo	istly all sand	Hydric d.	c Soil	Present? Yes [[] No 🛛
Depth (inches): Remarks: Soil is dry and loo HYDROLOGY	ose. Rocks,	pebbles,	- and woody debris/roots present. Mo	istly all sand	Hydric d.	c Soil	Present? Yes (
Depth (inches): Remarks: Soil is dry and loc HYDROLOGY Wetland Hydrology Indica	tors:	pebbles,	- and woody debris/roots present. Mo	istly all sand	Hydric d.	c Soil	Present? Yes [[] No ⊠
Depth (inches): Remarks: Soil is dry and loo HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)	tors:	pebbles, uuired: ch	and woody debris/roots present. Mo	istly all sand	Hydrid d.	Secon	Present? Yes [□ No ⊠
Depth (inches): Remarks: Soil is dry and loo HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2)	ose. Rocks, tors: n of one rec	pebbles, uuired: ch	and woody debris/roots present. Mo eck all that apply) Water-Stained Leaves (89) (ex 1.2.4A. and 4B)	istly all sand	Hydrid d. i	secon	Present? Yes [dary Indicators (2 ater-Stained Leave A and 4B)	□ No ☑ or more required) es (B9) (MLRA 1,
Depth (inches): Remarks: Soil is dry and loo HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3)	tors:	pebbles, uuired: ch	and woody debris/roots present. Mo heck all that apply) Water-Stained Leaves (B9) (ex 1, 2, 4A, and 4B) Sait Crust (B11)	istly all sand	Hydrid d. i	Secon	Present? Yes [dary Indicators (2 ater-Stained Leave 4A, and 4B) ainage Patterns (8	□ No ☑ or more required) es (89) (MLRA 1, 310)
Depth (inches): Remarks: Soil is dry and loo HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	tors:	pebbles, uuired: ch	and woody debris/roots present. Mo neck all that apply) Water-Stained Leaves (B9) (ex 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13)	istly all sand	Hydric d. i Ai	Secon	Present? Yes [dary Indicators (2 ater-Stained Leave 4A, and 4B) ainage Patterns (B y-Season Water T.	 No (or more required) os (B9) (MLRA 1, 310) able (C2)
Depth (inches): Remarks: Soil is dry and loo HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	tors:	pebbles, uired: ch	and woody debris/roots present. Mo	istly all sand	Hydric d. 	Secon	Present? Yes [dary Indicators (2 ater-Stained Leave 4A, and 4B) ainage Patterns (B y-Season Water T ituration Visible on	C) No 🖾 or more required) es (B9) (MLRA 1, 310) able (C2) Aerial Imagery (C
Depth (inches): Remarks: Soil is dry and loo HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	tors:	pebbles, uired: ch	and woody debris/roots present. Mo	cept MLRA	Hydrid d. A [[[(C3) [Secon	Present? Yes [dary Indicators (2 ater-Stained Leave 4A, and 4B) ainage Patterns (B y-Season Water T turation Visible on somorphic Position	 □ No ⊠ or more required) es (89) (MLRA 1, 310) able (C2) Aerial Imagery (C (D2)
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Depth (inches): Remarks: Soil is dry and loo HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur 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 Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st) tors: n of one rec) rital Imager icave Surfa Yes [] Yes] Yes] ream gauge	y (B7) ce (B8) No No No No No No No No No No	and woody debris/roots present. Mo	cept MLRA iving Roots Soils (C6)) (LRR A) Wetlan	Hydrid d. (C3) ((C3) ((((() () () () () () () (Secon Secon Wa Dra Sa Ge Sh FA Ra Frc ology	Present? Yes [dary Indicators (2 ater-Stained Leave 4A, and 4B) ainage Patterns (B y-Season Water T: turation Visible on comorphic Position iallow Aquitard (D3 C-Neutral Test (D3 ised Ant Mounds (iset-Heave Hummo Present? Yes [No ⊠ or more required) or more required) so (B9) (MLRA 1, able (C2) Aerial Imagery (C 1 (D2) 3) 5) (D6) (LRR A) ocks (D7) No ⊠
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Depth (inches): Remarks: Soil is dry and loo HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur 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 Ac Sparsely Vegetated Cor Field Observations: Surface Water Present? Water Table Present? Saturation Present? Cincludes capillary fringe) Describe Recorded Data (st Remarks:) tors: n of one rec rial Imager ricave Surfa Yes [] Yes [] Yes] ream gauge	y (87) ce (88) No No No No S, monitor	and woody debris/roots present. Mo	cept MLRA iving Roots Soils (C6)) (LRR A) Wetlan	Hydrid d. A [(C3) [[[[[]]]]]]]]]]]]]]]	Secon Secon Wa Dra Ge Sa FA Ra Frc ology e:	Present? Yes [dary Indicators (2 ater-Stained Leave 4A, and 4B) alinage Patterns (B y-Season Water T: turation Visible on eomorphic Position allow Aquitard (D3 C-Neutral Test (D3 ised Ant Mounds (bst-Heave Hummo Present? Yes [No ⊠ Or more required) able (C2) Aerial Imagery (C 1 (D2) 5) (D6) (LRR A) ocks (D7) No ⊠

Appendix B. Wetland Delineation Form – Wetland A

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

Project/Site: Port of Port Townsend Wi	BYE Wetland A	City/County: Port of Port Towns	end	Sampling Date:5/23/2024	
Applicant/Owner: Port of Port Townser	nd	State	x WA	Sampling Point: SP-3	
Investigator(s): Bradley A. Schlottman	& Jordan Widener	Section, Township,	Range: <u>S10T30N</u>	RIW	
Landform (hillslope, terrace, etc.):		Local relief (concave, convex,	none):	Slope (%):	
Subregion (LRR): A MLRA 2	La	Long:		Datum: WGS84	
Soil Mao Unit Name: Cut and Fill Land			NWI classificat	ion:	
Are Vegetation, Soil, or Hydro Are Vegetation, Soil, or H SUMMARY OF FINDINGS - A	-lydrology naturally Attach site map show	problematic? (If needed, explaining sampling point location	in any answers in is, transects,	Remarks.) important features, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ⊠ No □ Yes □ No ⊠ Yes □ No ⊠	Is the Sampled Area within a Wetland?	Yes 🗌 No		
Remarks: Soil is fill					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: r=30ft)	Absolute % Cover	Species?	Status	Number of Dominant Species
1. Pinus contorta var. contorta	10	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
2. <u>Salix Scouleriana</u> 3	10	<u>Yes</u>	FAC	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
4	20	= Total C	over	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
1 Rosa nutkana	5	Yes	FAC	Prevalence Index worksheet:
2 Symphoricamos albus	1	No	FACU	Total % Cover of: Multiply by:
				OBL species x 1 =
1				FACW species x 2 =
6				FAC species x 3 =
5	6	= Total C	over	FACU species x 4 =
Herb Stratum (Plot size: r=10ft)	-			UPL species x 5 =
1. Cirsium arvense	5	No	FAC	Column Totals: (A) (B)
2. Calystegia x lucana	5	No	NL	
3. Equisetum x ferrissii	5	No	FACW	Prevalence Index = B/A =
4. Holcus lanatus	5	No	FAC	Hydrophytic Vegetation Indicators:
5. Juneus balticus	90	Yes	FACW	Rapid Test for Hydrophytic Vegetation
8.				⊠ Dominance Test is >50%
7.				C) Prevalence Index is ≤3.0 ¹
B				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9				Wetland Non-Vascular Plants'
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11				Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: r=30ft)	<u>110</u>	= Total C	lover	be present, unless disturbed or problematic.
1			<u> </u>	Hydrophytic
2		= Total C	over	Vegetation Present? Yes 🛛 No 🗍
% Bare Ground in Herb Stratum	and the second lands			
Remarks: Vegetation was recently mowed, rosa a	II taken down			

					Sampling Point: SP-3
Profile Desc	ription: (Describ	e to the dept	h needed to document the indicator or confi	m the absence	of indicators.)
Depth	Matrix		Redox Features		
(inches)	Color (moist)	- %	Color (moist) % Type1 Loc2	Texture	Remarks
0-1	5YR (2.5/1)	100		Sandy Loam	Root dense
2-16	10YR (3/1)	100		Sandy	
Type: C=Co	ncentration, D=De	pletion, RM=	Reduced Matrix, CS=Covered or Coated Sand (Grains. ² Loc	cation: PL=Pore Lining, M=Matrix.
(1) Historici (A1)	icaddie to all L	runs, unitess otherwise noted.)	Indicato	ors for Problematic Hydric Soils ³ :
Histic Epi	pedon (A2)	ſ	Stripped Matrix (S6)		Muck (A10) Parent Material (TE2)
Black His	tic (A3)	í	Loamy Mucky Mineral (F1) (except MLRA 1) () Verv	Shallow Dark Surface (TF12)
Hydrogen	Sulfide (A4)	ſ	Loamy Gleyed Matrix (F2)	Othe	er (Explain in Remarks)
Depleted	Below Dark Surfa	ce (A11) (Depleted Matrix (F3)	20.00	
Sandy M	k Sunace (A12)	E r	Redox Dark Surface (F8) Depleted Dark Surface (F7)	³ Indicato	ors of hydrophytic vegetation and
Sandy Gl	eyed Matrix (S4)	I	Redox Depressions (F8)	weda	s disturbed or problematic
Restrictive L	ayer (if present):				a distanced of problemate.
Type:					
Remarks: Lot	nes):s of rocks (small) ·	~0.25inches ir	n diam. Present in lower ped, lots of roots throug	Hydric Soil hout densely ro	Present? Yes 🗋 No 🔀 oted top layer, very recently mowed.
Remarks: Lot	s of rocks (small) /	~0.25inches ir	n diam. Present in lower ped, lots of roots throug	Hydric Soil	Present? Yes 🗋 No 🔀 oted top layer, very recently mowed.
Remarks: Lot	s of rocks (small) SY Tology Indicators	~0.25inches ir	n diam. Present in lower ped, lots of roots throug	Hydric Soil	Present? Yes 🗋 No 🔀 oted top layer, very recently mowed.
Remarks: Lot HYDROLOO Wetland Hyd Primary Indice	s of rocks (small) s of rocks (small) SY rology Indicators ators (minimum of	•0.25inches in •0.25inches in •0.	n diam. Present in lower ped, lots of roots throug check all that apply)	Hydric Soil	Present? Yes 🗋 No 🔀 oted top layer, very recently mowed.
Pepin (inc Remarks: Lot HYDROLOC Wetland Hyd Primary Indic:	5 of rocks (small) 5 of rocks (small) 6 Y rology Indicators ators (minimum of /ater (A1)	•0.25inches in •0.25inches in •0.	check all that apply) Water-Stained Leaves (B9) (except ML	Hydric Soil hout densely ro <u>Secor</u> RA C W	Present? Yes I No I now determined top layer, very recently mowed.
HYDROLOC Wetland Hyd Primary Indic; Burface W High Wato	SY Sof rocks (small) SY rology Indicators ators (ninimum of //ater (A1) ar Table (A2) (A2)	•0.25inches in •0.25inches in •0.	check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)	Hydric Soil hout densely ro	Present? Yes I No I oted top layer, very recently mowed. ndary Indicators (2 or more required) (ater-Stained Leaves (B8) (MLRA 1, 2 4A, and 4B)
HYDROLOC Wetland Hyd Primary Indic: Surface W High Wate Saturation Water Ma	SY rology Indicators ators (minimum of /ater (A1) ar Table (A2) n (A3) n(s (B1)	25inches in 25inches in 25i	check all that apply) UNDERSTAND (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Actuatic Inverteivates (B13)	Hydric Soil hout densely ro <u>Secor</u> RA W. 	Present? Yes I No I not
HYDROLOC Wetland Hyd Primary Indic: Surface W High Wate Saturation Water Ma Sediment	SY rology Indicators ators (minimum of /ater (A1) ar Table (A2) n (A3) nks (B1) Deposits (B2)	•0.25inches in •0.25inches in •0.	check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Hydric Soil hout densely ro <u>Secor</u> RA W Dr Dr Secor 	Present? Yes I No I oted top layer, very recently mowed. ndary Indicators (2 or more required) fater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) rainage Patterns (B10) y-Season Water Table (C2) stitutation Visible on Aerial Imagen (C2)
HYDROLOO Wetland Hyd Primary India Surface W High Wato Saturation Water Ma Sediment Drift Depo	SY rology Indicators ators (minimum of Vater (A1) ar Table (A2) n (A3) n (x5 (B1) Deposits (B2) sits (B3)	25inches ir	check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro	Hydric Soil hout densely ro <u>Secor</u> RA C W Dr Dr Sa ots (C3) C G	Present? Yes I No I oted top layer, very recently mowed. ndary Indicators (2 or more required) [ater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) [ainage Patterns (B10) y-Season Water Table (C2) sturation Visible on Aerial Imagery (C1 comorphic Position (D2)
HYDROLOC Wetland Hyd Primary Indic: Surface W High Wato Saturation Water Ma Sediment Drift Depo Algal Mat	s of rocks (small) s of rocks (small) rology Indicators ators (minimum of Aater (A1) ar Table (A2) a (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4)	25inches ir	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)	Hydric Soil hout densely ro <u>RA</u> Dr Dr Sa ots (C3) Sa	Present? Yes No 🔀 oted top layer, very recently mowed. Indary Indicators (2 or more required) (ater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) (ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C1 comorphic Position (D2) hallow Aquitard (D3)
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HYDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundatior Sparsely	SY sofrocks (small) sofrocks (small) rology Indicators ators (minimum of vater (A1) ar Table (A2) a (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) a Visible on Aerial /egetated Concav ations:	 25inches ir one required; one required; Imagery (B7) e Surface (B8) 	check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Saft Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffide 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))	Hydric Soil hout densely ro <u>Secor</u> RA W Dr Dr Sa ots (C3) Ge Sh B) FA) Ra Fre	Present? Yes I No I noted top layer, very recently mowed. oted top layer, very recently mowed. Indary Indicators (2 or more required) fater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (Cl ecomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
HYDROLOC Wetland Hyd Primary Indice Surface V High Wate Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundatior Sparsely V Field Observ	SY sofrocks (small) sofrocks (small) rology Indicators ators (minimum of Vater (A1) ar Table (A2) a (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B8) at Visible on Aerial Vegetated Concav ations: Exercent?	V.25inches ir	check all that apply) Check all that apply) Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Saft Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffide 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)) Death (incluse):	Hydric Soil hout densely ro <u>Secor</u> RA W Dr Dr Sa Drs (C3) Ge Sh B) FA) FA	Present? Yes I No I not
HYDROLOC Wetland Hyd Primary Indice Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely N Field Observ Surface Water	SY sofrocks (small) sofrocks (small) sofrocks (small) states (small) states (minimum of vater (A1) ar Table (A2) a (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) a Visible on Aerial vegetated Concav attions: r Present?	Imagery (B7) e Surface (B8) Yes D No [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 # Other (Explain in Remarks)) Depth (inches):	Hydric Soil hout densely ro <u>Secor</u> RA W Dr Dr Sa ots (C3) Ge Sh B) FA) Fre	Present? Yes I No I noted top layer, very recently mowed. oted top layer, very recently mowed. Indary Indicators (2 or more required) (ater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (Cl ecomorphic Position (D2) hallow Aquitard (D3) KC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
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HYDROLOO Wetland Hyd Primary Indice Surface V High Water Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundatior Sparsely V Field Observ Surface Water Water Table F Saturation Pre (includes capit	s of rocks (small) s of rocks (small) rology Indicators ators (minimum of Vater (A1) ar Table (A2) a (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) a Visible on Aerial Vegetated Concav ations: r Present? resent? sent?	Imagery (B7) e Surface (B8 Yes No [Yes No [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 # Other (Explain in Remarks)) Depth (inches):	Hydric Soil hout densely ro Secon RA	Present? Yes □ No ⊠ oted top layer, very recently mowed. Indary Indicators (2 or more required) fater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (Cl ecomorphic Position (D2) hallow Aquitard (D3) KC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7) / Present? Yes □ No ☑
HYDROLOC Wetland Hyd Primary Indic; Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Innundation Sparsely V Field Observ. Surface Water Water Table F Saturation Pre (includes capi Describe Reco	s of rocks (small) s of rocks (small) rology Indicators ators (minimum of Vater (A1) ar Table (A2) a (A3) rtks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) a Visible on Aerial Visible on Aerial Visible on Aerial Visible on Aerial Visible on Aerial Visible on Aerial Visible on	Imagery (B7) e Surface (B8 Yes No [Yes No [Yes No [n gauge, mon		Hydric Soil hout densely ro <u>Secor</u> RA <u>Secor</u> Dr Dr Sa Dr Sa Dr FA Dr FA Dr FA Dr Fr Dr Fr Dr Sa Dr Fr Dr Sa Dr Fr Dr Sa Dr Fr Dr Sa Dr Dr Dr Sa Dr Sa Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr	Present? Yes □ No ⊠ oted top layer, very recently mowed. Indary Indicators (2 or more required) later-Stained Leaves (B8) (MLRA 1, 2 4A, and 4B) rainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (Cl comorphic Position (D2) nalkow Aquitard (D3) NC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7) / Present? Yes □ No ②
Pepin (inc Remarks: Lot HYDROLOC Wetland Hyd Primary Indic; Surface W High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation Sparsely N Field Observ Surface Water Water Table F Saturation Pre (includes capit Describe Reco Remarks:	s of rocks (small) s of rocks (small) rology Indicators ators (minimum of /ater (A1) ar Table (A2) a (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) of Cracks (B6) a Visible on Aerial /egetated Concav ations: r Present? resent? sent? sent? sent? sent? sent?	VO.25inches in		Hydric Soil hout densely ro <u>Secor</u> RA Q Dr Dr Sa Dr Sa Dr Sa Dr Fr Sa Dr Fr Sa Dr Fr Sa Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr	Present? Yes □ No ⊠ oted top layer, very recently mowed. Indary Indicators (2 or more required) Ster-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) sturation Visible on Aerial Imagery (C1 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7) / Present? Yes □ No ☑
Remarks: Lot HYDROLOO Wetland Hyd Primary Indic; Surface W High Wate Saturatior Water Ma Sediment Drift Depo Surface S Inundatior Sparsely \ Field Observ Surface Water Table F Saturation Pre (includes capit Describe Reco Remarks;	s of rocks (small) s of rocks (small) rology Indicators ators (minimum of /ater (A1) ar Table (A2) a (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oi (Cracks (B6) a Visible on Aerial /egetated Concav ations: r Present? resent? sent? sent? sent? sent? sent?	VO.25inches in		Hydric Soil hout densely ro <u>Secor</u> RA Q Dr Dr Sa Dr Sa Dr Sa Dr FA N C RA Dr FA Dr FA Dr FA Dr FA Dr FA Dr Sa Dr Dr Sa Dr Dr Sa Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr	Present? Yes I No I have a second sec
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

westigator(s): Bradley A. Schlottman 8	Jordan Widener			Section, To	wnship, Range: <u>S10T30NR1W</u>	
andform (hillslope, terrace, etc.); Depre	ession		Local relie	f (concave	convex, none):	Stope (%): 0
ubregion (LRR): A MLRA 2		Lat			Long: D	atum: WGS84
pil Man Unit Name: Cut and Fill Land					NWI classification:	
e climatic / hydrologic conditions on th	he site typical for thi	s time of yea	ur?Yes 🖂	No 🗔 (I	f no, explain in Remarks.)	
a Vegetation Soil X or Hydrol	oav sianifica	nttv disturbe	d? /	re "Norma	Circumstances" present? Yes 🖾 N	• 🗆
	viplony nat	raily noble	matic?	(if need	ed. explain any answers in Remarks.)	
e vegetation, out, or n	ydrology naw				estions transate important	fosturae of
UMMARY OF FINDINGS - A	mach site map	snowing	sampun	g hourr i	ocations, transects, important	r leatures, et
hydrophytic Vegetation Present?	Yes 🖾 No 🗋		le th	e Sampler	Area	
Hydric Soil Present?	Yes 🔀 🛛 No 🗋		with	in a Wetla	nd? Yes 🕅 No 🗌	
Netland Hydrology Present?	Yes 🛛 No 🗌	1100				
EGETATION – Use scientific	: names of plan	its.	2			
Tree Stratum (Plot size: r=30ft)		% Cover	Dominant Species?	Status	Number of Dominant Species	
1					That Are OBL, FACW, or FAC: 3	(A)
2					Total Number of Dominant	
3					Species Across All Strata: 3	(B)
l					Percent of Dominant Species	
			= Total C	over	That Are OBL, FACW, or FAC: 100	(A/B
Sapling/Shrub Stratum (Mot size: E)	1911.)	15	Yes	FAC	Prevalence index worksheet:	
7					Total % Cover of. Mu	libply by:
3.					OBL species x 1 = _	
4					FACW species x 2 = .	
5				Playellineary states (FAC species x 3 =	
		15	= Total C	over	FACU species x 4 =	
Herb Stratum (Plot size: r=10ft)		50	Vac	FACW	UPL species x b =	(P
1. Juncus bailleus		50	Yas	FACW	Column Totals: (A)	
2. Equisetum x 1		10	No	OBL	Prevalence Index = B/A =	
4 Holeus lanatus		5	No	FAC	Hydrophytic Vegetation Indicators	
5.					Rapid Test for Hydrophytic Veget	ation
6					Dominance Test is >50%	
7					☐ Prevalence Index is ≤3.01	
8					Morphological Adaptations' (Prov data in Remarks or on a seea	nde supporting rate sheet)
9					Wetland Non-Vascular Plants'	
1D,					Problematic Hydrophytic Vegetati	ion ¹ (Explain)
11.		445			Indicators of hydric soil and wetland	hydrology must
Woody Vine Stratum (Plot size: r=30	ft)	115		over	be present, unless disturbed or proble	ematic.
1.		(1	
2.					Vegetation	
			= Total C	over	Present? Yes 🛛 No 🗌	
% Bare Ground in Herb Stratum						
and the second	med rosa all taken	QOWN.				
Remarks: Vegetation was recently inc						

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Frome Desci	iption: (Describ	e to the	depth	needed to docur	ment the indic	ator or confin	n the abse	nce of	indicator	5.)	
Depth	Matrix			Redo	x Features	andra andra andraidh 1914 — Promhair		to an an a state			
(inches)	Color (moist)	_%	Co	lor (moist)	<u>%</u> <u>Typ</u>	pe1 Loc2	Texture			Remarks	
0-8	7.5YR (2.5/1)	100					mucky/los	lsa V	ery fibric a	nd rooty	
7-10	2.5YR (4/1)	100					Sandy				
		-									
17 0.0		12		1				-	_		
Hydric Soil In	dicators (Appl	pletion,	RM=Re	duced Matrix, CS Re- unloce other	S=Covered or (Coated Sand G	rains,	² Locati	on: PL=Pe	ore Lining, I	M=Matrix.
Historal /4	(1)		e an Lru Th	Sandy Parlay (C	**************************************		India	cators	TOT Proble	matic Hyd	inc Soils':
Histic Epin	edon (A2)			Stripped Matrix	(S6)			∠cm M Red ¤~	uck (A10) rent Mater	IN TEN	
Black Histi	c (A3)		N	Loamy Mucky M	(==) lineral (F1) (ex	cept NI RA 11		Very CL	rent Mater allow Dad	ial (TPZ) KSurface C	TE 12)
🔲 Hydrogen	Sulfide (A4)			Loamy Gleved M	Matrix (F2)	-sprinting 1)		Other (I	- 	Remarke)	1712)
Depleted E	elow Dark Surfa	ce (A11	0	Depleted Matrix	(F3)		6-12°			seriaritaj	
Thick Dark	Surface (A12)			Redox Dark Sur	face (F6)		³ Indi	cators	of hydroph	ytic vegeta	tion and
Sandy Mu	cky Mineral (S1)		$\left[,\right]$	Depleted Dark S	Surface (F7)		W	vetland	hydrology	must be pr	esent,
Sandy Gle	yed Matrix (S4)			Redox Depressi	ons (F8)		u	inless d	isturbed or	problemat	ic.
Restrictive La	iyer (if present):										
Depth (inch	ac):						1				
									esentz	YOF NO N	
Remarks: Top	horizon very slid	k fibric n	nucky sa	indy loam (mostly	(loam)		Hyanc :	5011 FN			
Remarks: Top	horizon very slick Y ology Indicators	s fibric n	nucky sa	ndy loam (mostly	r Ioam)		nyane :				•
Remarks: Top IYDROLOG Wetland Hydr Primary Indica	horizon very slid Y ology Indicators tors (minimum of	i: one req	uired; ch	ndy loam (mostly	r loam) //		- Hyund :	econda	ry Indicato	res (2 or mo	re required)
Remarks: Top IYDROLOG Wetland Hydr Primary Indica Surface W.	horizon very slid Y ology Indicators tors (minimum of ater (A1)	k fibric n :: one reg	uired; cł	ndy loam (mostly	() () ved Leaves (BB	3) (except MLF		econda	ry Indicato	rs (2 or mo	re nequired)
Remarks: Top IYDROLOG Wetland Hydr Primary Indica Surface W. Surface W.	horizon very slid Y ology Indicators tors (minimum of ater (A1) r Table (A2)	k fibric n :: one req	uired; ch	ndy Ioam (mostly neck all that apply [] Water-Stair 1, 2, 4A	() () ved Leaves (BE , and 4B)	3) (except MLF	Hydric 3	econda Wate 44	ry Indicato r-Stained L A, and 4B)	rs (2 or mo eaves (B9	10 [] <u>re required)</u>) (MLRA 1, 2,
Remarks: Top IYDROLOG Wetland Hydr Primary Indica Surface W. S High Wate Saturation	horizon very slid Y ology Indicators tors (minimum of ater (A1) r Table (A2) (A3)	k fibric n	uired; cł	ndy Ioam (mostly reck all that apply Deck all that apply Water-Stair 1, 2, 4A	() () () () () () () () () () () () () (3) (except MLF		econda Wate 44 Drain	ny Indicato r-Stained L A, and 4B) age Patter	rs (2 or mo eaves (89)) ns (810)	e
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Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

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

Project/Site: Port of Port Townsend WBYE Wetland A	City/County:	Port of Port Townsend	Sampling Date:5/23/2024
Applicant/Owner: Port of Port Townsend		State: WA	Sampling Point: SP-5
Investigator(s): Bradley A. Schlottman & Jordan Widener	s	ection, Township, Range: S10T30	NR IW
Landform (hillslope, terrace, etc.): Toe of slope	Local relief	(concave, convex, none): convex	Slope (%): 0
Subregion (LRR): A MLRA 2	Lat 48.10298	Long: -122.78536	Datum: WGS84
Soil Map Unit Name: Cut and Fill Land		NWI classific.	ation: NA
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes 🖾	No [] (if no, explain in Remarks.))
Are Vegetation, Soil X, or Hydrology significan	tly disturbed? Ar	e "Normal Circumstances" present	?Yes 🔀 No 🗌
Are Vegetation, Soil, or Hydrology natur	ally problematic?	(If needed, explain any answers i	n Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sampling	point locations, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖾 No 🗋 Yes 🗍 No 🕅 Yes 🛄 No 🕅	Is the Sampled Area within a Wetland?	Yes 🗌 No 🖾
Remarks: Soil is fill			

VEGETATION – Use scientific names of plants.

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Tree Stratum (Plot size: r=30ft) 1. Non-native crabapple (malus spp.)- not included	Mosolute <u>% Cover</u> 50	Species? Yes	_Status	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A
2. Alnus rubra	25	Yes	FAC	Total Number of Dominant
3. Pyrus communis- not included	25	Yes	NL	Species Across All Strata: 6 (B)
4. Salix sitchensis	25	Yes	FACW	Demont of Dominant Species
Sapling/Shrub Stratum (Plot size: r=15ft.)	50	≏ Total C	over	That Are OBL, FACW, or FAC: <u>88.8</u> (A)
1. Polystichum muntium	30	Yes	FACU	Prevalence Index worksheet:
2. Rubus bifrons	20	Yes	FAC	Total % Cover of: Multiply by:
3. Ilex aguifolium	15	No	FACU	OBL species x 1 =
4. Rosa nutkana	5	No	FAC	FACW species x 2 =
5 Pteridium aquilinum	15	No	FACU	FAC species x 3 =
· Landardengeral. Jana and a constraint	85	= Total C	over	FACU species x 4 =
Herb Stratum (Plot size: = 10ft)				UPL species x 5 =
1. Hedera helix	15	Yes	FACW	Column Totals: (A)
2. Equisetum x f	15	Yes	FACW	
3. Poa pratensis	5	No	FAC	Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5				Rapid Test for Hydrophytic Vegetation
8.	_			Dominance Test is >50%
7.				Prevalence Index is ≤3.0 ¹
8				Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
9				Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11(0)=1 = int = 2091	35	= Total C	lover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
woody vine stratum (Fick size, 1-suit)				
1,	-			Hydrophytic
2		- Total C		Present? Yes X No
% Bare Ground in Herb Stratum <u>85</u>		= lotal C	AUVIET .	
Remarks: Malus spp. couldn't be ID to specific given so	xope of this pro	ject.		

Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

Profile Description: (Desc	ribe to the d	lepth needed to document the indicator o	confirm the	bsence of indicators.)
Depth Mat	rix	Redox Features			
(inches) Color (moist)	%	Color (moist) % Type'	Loc ² Text	ure R	lemarks
0-5.5 7.5YR (2.5/1)	100		Loan	Dense roots	
5.5-12 2.5YR (5/2)	100		Loan	<u> </u>	
	-				
Tune: C=Consectation D	Depletion B	N-Reductives co-			
Hydric Soil Indicators: (A	policable to a	all LRRs, unless otherwise noted)	Sand Grains.	Location: PL=Por	e Lining, M=Matrix.
Histosol (A1)		Sandy Redox (95)			naue rryone Solis":
Histic Epipedon (A2)		Stripped Matrix (S6)		Z GTT MUCK (A10) Red Parent Materia	(TE2)
Black Histic (A3)		Loamy Mucky Mineral (F1) (except M	ILRA 1)	Very Shallow Dark	Surface (TE12)
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)	,	Other (Explain in R	emarks)
Depleted Below Dark Su	rface (A11)	Depleted Matrix (F3)		,	
Thick Dark Surface (A12)	Redox Dark Surface (F6)		Indicators of hydrophy	tic vegetation and
Sandy Mucky Mineral (S	1)	Depleted Dark Surface (F7)		wetland hydrology n	nust be present,
Sandy Gleyed Matrix (S4	0	Redox Depressions (F8)		unless disturbed or	problematic.
Type:	n):				
Danth (inchae):					
Remarks: No hydric soil india	ators presen	t	Hyd	TRE SOIL PRESENC?	es [] No [2]
Remarks: No hydric soil indie YDROLOGY Wetland Hydrology Indicat	cators presen	t		in: Son Present? 1	es 📋 No 🔯
Remarks: No hydric soil indie YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum	ators presen	t red; check all that apply)		Secondary Indicators	es No 🛛
Remarks: No hydric soil indie YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1)	ors: of one requir	t red; check all that apply) Water-Stained Leaves (B9) (exc	ept MLRA	Secondary Indicators	es No (2) : (2 or more required) eaves (B9) (MLRA 1, 2,
Remarks: No hydric soil indie YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2)	ors: of one requir	t red; check all that apply) Water-Stained Leaves (B9) (exo 1, 2, 4A, and 4B)	ept MLRA	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B)	es No (2) : (2 or more required) saves (B9) (MLRA 1, 2,
Remarks: No hydric soil indie YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	ors: of one requir	t red; check all that apply) Water-Stained Leaves (B9) (exce 1, 2, 4A, and 4B) Salt Crust (B11)	ept MLRA	Secondary Indicators Secondary Indicators Secondary Indicators Secondary Indicators AA, and 4B) Drainage Pattern	es No (2) : (2 or more required) saves (B9) (MLRA 1, 2, s (B10)
Remarks: No hydric soil indie YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ors: of one requir	t t wed; check all that apply) Water-Stained Leaves (B9) (exce 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	ept MLRA	Secondary Indicators Secondary Indicators Secondary Indicators Secondary Indicators A, and 4B) Drainage Pattern Dry-Season Wate	es No (2) (2 or more required) vaves (B9) (MLRA 1, 2, (B10) er Table (C2)
Remarks: No hydric soil indie YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Deit Deposits (B2)	ors: of one requir	t wed; check all that apply) Water-Stained Leaves (B9) (exce 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1)	ept MLRA	Secondary Indicators Secondary	es I No (2) (2 or more required) avves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9)
Remarks: No hydric soil indie IYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ors: of one requir	t t t t t Water-Stained Leaves (B9) (excellent t, 2, 4A, and 4B) Saft Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv	ept MLRA	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi	es I No (2) (2 or more required) avves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2)
Remarks: No hydric soil india Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ors: of one requir	t t t t Water-Stained Leaves (B9) (exo 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4)	ept MLRA	Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi	es No (2) (2 or more required) eaves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3)
Remarks: No hydric soil india Primary Indicators (minimum 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 Saturation (A2)	ors: of one requir	t t t Water-Stained Leaves (B9) (exo 1, 2, 4A, and 4B) Saft Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S	ept MLRA	Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test	es No (2) (2 or more required) eaves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) (D5)
Remarks: No hydric soil india Primary Indicators (minimum 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)	ors: of one requir	t t t t t t t t t t t t t t t t t t t	ept MLRA ing Roots (C3) ioils (C8) (LRR A)	Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun	es No (2) (2 or more required) haves (89) (MLRA 1, 2, s (810) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) (D5) ds (D6) (LRR A)
Remarks: No hydric soil india WDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Come	ators presen ors: of one requir ial Imagery (I	t t t ved; check all that apply) Water-Stained Leaves (B9) (exoremation of the second sec	ept MLRA ing Roots (C3) ioils (C8) (LRR A)	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hur	es No (2) (2 or more required) avves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) (D5) ds (D6) (LRR A) umocks (D7)
Remarks: No hydric soil india WDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum 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 Aer Sparsely Vegetated Conv Field Observations:	ial Imagery (I	t t t t t t t t t t t t t	ept MLRA ing Roots (C3) ioils (C8) (LRR A)	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hurr	es No (2) (2 or more required) eaves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) (D5) ds (D6) (LRR A) imocks (D7)
Remarks: No hydric soil india WDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum 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 Aer Sparsely Vegetated Conv Field Observations: Surface Water Present?	ial Imagery (I ave Surface	t t t t t t t t t t t t t	ept MLRA ing Roots (C3) ioils (C8) (LRR A)	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hurr	es No (2) (2 or more required) eaves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) (D5) ds (D6) (LRR A) imocks (D7)
Remarks: No hydric soil india WDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Jorface Soil Cracks (B6) Unundation Visible on Aer Sparsely Vegetated Com Field Observations: Surface Water Present? Nater Table Present?	ial Imagery (I ave Surface Yes D N Yes D N	t t t t t t t t t t t t t	ept MLRA ing Roots (C3) ioils (C8) (LRR A)	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hurr	es No (2) (2 or more required) avves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) (D5) ds (D6) (LRR A) umocks (D7)
Remarks: No hydric soil india	ial Imagery (I ave Surface Yes [] N Yes [] N Yes [] N	t t t t t t t t t t t t t	ept MLRA ing Roots (C3) ioils (C8) (LRR A)	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hurr	es I No (2) (2 or more required) avves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) ((D5) ds (D6) (LRR A) umocks (D7) es I No (2)
Remarks: No hydric soil india	ial Imagery (I ave Surface Yes D N Yes D N Yes D N	t t t t t t t t t t t t t	ept MLRA ing Roots (C3) ioils (C8) (LRR A)	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hurr drology Present? Ya	es No 🖄 (2 or more required) avves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) ((D5) ds (D6) (LRR A) umocks (D7) es No 🕅
Remarks: No hydric soil india	ial Imagery (I ave Surface Yes N Yes N Yes N Yes N	t t t t t t t t t t t t t	ept MLRA ing Roots (C3) ioils (C8) (LRR A) Wetland Hy ctions), if avail	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hur drology Present? Yr able:	es No 🖄 (2 or more required) eaves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) t (D5) ds (D6) (LRR A) umocks (D7) es No 🕅
Remarks: No hydric soil india	ial Imagery (I care Surface Yes N Yes N Yes N Yes N	t t t t t t t t t t t t t	ept MLRA ing Roots (C3) ioils (C8) (LRR A) Wetland Hy ctions), if availa	Secondary Indicators Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hurr drology Present? Yr able:	es No 🖄 (2 or more required) eaves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) e (D5) ds (D6) (LRR A) imocks (D7) es No 🕅
Remarks: No hydric soil india IYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum 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 Aer Sparsely Vegetated Context Field Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (stm Remarks: no hydrology preserved)	ial Imagery (I ave Surface Yes N Yes N Yes N Yes N eam gauge, n	t t t t t t t t t t t t t	ept MLRA ing Roots (C3) iolis (C8) (LRR A) Wetland Hy ctions), if avail	Secondary Indicators Water-Stained Le 4A, and 4B) Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard FAC-Neutral Test Raised Ant Moun Frost-Heave Hurr drology Present? Yr able:	es □ No ⊠ (2 or more required) eaves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imagery (C9) tion (D2) (D3) ((D5) ds (D6) (LRR A) unocks (D7) es □ No ⊠

Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

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

Project/Site: Port of Port Townsend WBYE Wetland A	City/County: Port of	Port Townsend	Sampling Date: 5/23/2024
Applicant/Owner: Port of Port Townsend		State: WA	Sampling Point: SP-8
Investigator(s): Bradley A. Schlottman & Jordan Widener	Section,	Township, Range: S10T30M	NR1W
Landform (hillslope, terrace, etc.): Depression	Local relief (concar	ve, convex, none): <u>convex</u>	Stope (%): 0
Subregion (LRR): A MLRA 2	Lat: 48.10302	Long: -122,78526	Datum: WGS84
Soil Map Unit Name: Cut and Fill Land		NWI classifica	ation: PEM1F
Are climatic / hydrologic conditions on the site typical for this til	me of year? Yes 🛛 No 🗌	(If no, explain in Remarks.))
Are Vegetation, Soil X, or Hydrology significantly	/ disturbed? Are "Norm	nal Circumstances' present	?Yes 🖾 No 🗋
Are Vegetation Soil, or Hydrology natural	ly problematic? (If nee	eded, explain any answers i	n 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 ⊠ No □ Yes ⊠ No □ Yes ⊠ No □	Is the Sampled Area within a Wetland?	Yes 🗵 No 🗋
Remarks: Soil is fill			

VEGETATION - Use scientific names of plants.

	00	Yes	FACW	That Are OBL, FACW, or FAC: (A)
2. <u>Salix scouleriana</u> 3	10	No	FAC	Total Number of Dominant Species Across All Strata: (B)
ł	90	= Total C	over	Percent of Dominant Species That Are OBL, FACW, or FAC: (AR
Sapiing/Sintub Stratum (Piot Size: (=_toit.) 1. <u>Salix sitchensis</u>	80	Yes	FACW	Prevalence Index worksheet:
3.				OBL species x 1 =
4				FACW species x 2 =
5	80	= Total C	over	FACU species x 3 = FACU species x 4 =
Herb Stratum (Plot size: r=10ft)		and the second s	FIGH	UPL species x 5 =
1. Juncus balticus		Yes	FACW	Column Totals: (A) (E
2. Equiseum x r	30	Yes	OBL	Prevalence Index = B/A =
4			_	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
8				Dominance Test is >50% Prevalence Index is <3.01
9				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Э				Wetland Non-Vascular Plants ¹
10			·	Problematic Hydrophytic Vegetation ¹ (Explain)
11. Woody Vine Stratum (Plot size: r=30ft)	100	= Totał C	over	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				Hydrophytic
% Bare Ground in Herb Straturn		= Total C	over	Vegetation Present? Yes 🛛 No 🗋
Remarks:				

Frome Dest	ription: (Describ	e to the depth	needed to document the indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redox Features			
(inches)	Color (moist)	<u>%</u> <u>C</u>	color (moist) % Type1	Loc	Texture	Remarks
0-8	7.5YR (2.5/2)	100			Loam/Muck	Fibric muck
9-16	7.5YR (3/1)	100			Sand	
						1
					199 michal burdhar anaianna ag	
C.R.m.(phills/State2.2000.000)						
			<u>v</u> vv			
'Type: C=Co	oncentration, D=De	pletion, RM=F	Reduced Matrix, CS=Covered or Coate	ed Sand G	rains. ² Lo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Appli	cable to all L	RRs, unless otherwise noted.)		Indicate	ors for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Redox (S5)		🗌 2 cm	n Muck (A10)
Risce Ep	tipedon (A2)	L	Supped Matrix (S6)	III DA A	C Red	Parent Material (TF2)
Hydrocer	Sulfide (A4)		Loamy Mucky Mineral (F1) (except	MLRA 1)		Shallow Dark Surface (TF12)
Depleted	Below Dark Surfac	æ(A11) [Depleted Matrix (F3)		L) UIN	а (сортал III rverixdfKS)
Thick Da	rk Surface (A12)	Ĺ	Redox Dark Surface (F8)		Indicate	ors of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)	C] Depleted Dark Surface (F7)		wetla	and hydrology must be present.
Sandy Gl	eyed Matrix (S4)	Ľ	Redox Depressions (F8)		unles	is disturbed or problematic.
Type:	ayer (it present):					
Denth (inc	N 6					
Deput title	nes):				Hudric Soil	Present? Ver 🖾 No 🗂
Remarks: A2	met, histic epipedo	on mucky pear	 I present		Hydric Soil	Present? Yes 🛛 No 🗀
YDROLOG	met, histic epipedo GY kology Indicators	on mucky pear	 I present		Hydric Soil	Present? Yes 🛛 No 🗀
YDROLOG Wetland Hyd	met, histic epipedo GY Irology Indicators ators (minimum of c	on mucky pear : one required;	check all that apply)		Hydric Soil	Present? Yes 🛛 No 🗆
YDROLOG Wetland Hyd Primary India	met, histic epipedo GY Irology Indicators ators (minimum of Vater (A1)	on mucky pear : : one required;	check all that apply)	xcept MLR	Hydric Soil	Present? Yes No D
YDROLOG Wetland Hyd Primary Indio Surface V	met, histic epipedo GY Irology Indicators ators (minimum of Vater (A1) er Table (A2)	on mucky pear : : one required;	check all that apply) Water-Stained Leaves (B9) (e. 1, 2, 4A, and 4B)	xcept MLR	Hydric Soil	Present? Yes No D ndary Indicators (2 or more required) fater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
YDROLOG Wetland Hyc Primary Indio Surface V S High Wat Saturation	met, histic epipedo GY Irology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3)	on mucky pear : one required;	check all that apply) Water-Stained Leaves (B9) (e. 1, 2, 4A, and 4B) Salt Crust (B11)	xcept MLR	Hydric Soil <u>Secor</u> KA W	Present? Yes No D ndary Indicators (2 or more required) fater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10)
YDROLOG Wetland Hyc Primary Indio Surface V High Wat Saturation Water Ma	met, histic epipedo GY Irology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) rks (B1)	on mucky pear : one required;	check all that apply) Check all that apply) Water-Stained Leaves (B9) (e. 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	xcept MLR	Hydric Soil Secor KA D D D	Present? Yes No D ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
YDROLOG Wetland Hyc Primary Indio Surface V High Wat Saturation Water Ma Sediment	GY rotogy Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) seta (B2)	on mucky pear : one required;	check all that apply) Water-Stained Leaves (B9) (e. 1, 2, 4A, and 4B) Salt Crust (B11) Aqualic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	xcept MLR	Hydric Soil Secon A D D S S S S S S S S	I Present? Yes No D Indary Indicators (2 or more required) (ater-Stained Leaves (69) (MLRA 1, 2, 4A, and 4B) rainage Patterns (610) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9)
YDROLOG Wetland Hyc Primary Indio Surface V High Wat Saturation Water Ma Sediment Drift Depx	GY rotogy Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) os Const (P4)	on mucky pear : one required;	check all that apply) Check all that apply) Water-Stained Leaves (B9) (e 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Cidized Rhizospheres along	xcept MLR	Hydric Soil Secon A Q D D Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	Present? Yes No D ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ny-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2)
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Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

Appendix C. Wetland Delineation Form – Wetland B

roject/Site: Boat Haven Storm Water Project Jeffe	rson C	City/County	Port Tow	vnsend Sampling Date: 11/29/24
pplicant/Owner Port Townsend		S		State: WA Sampling Point: SP-1
wastigstarfs): Les Dalam			Section To	ownship, Range:
westigator(s). cee boarn		Local relia	ficoncave	convex none): Concave Slope (%): 3
andromi (missiope, terrace, ew.). Toestope	1 -4 40 10	55004		Long: 122.7807060 Datum:
ubregion (LRR):	Lat. <u>40.</u> 19	locue4		NMI absorber:
oil Map Unit Name:		A 14 . EI		
re climatic / hydrologic conditions on the site typic	al for this time of year	r? Yes 🖾	No 📋 ((if no, explain in Remarks.)
re Vegetation, Soil, or Hydrology	significantly dist	urbed?	Are N	
re Vegetation, Soil, or Hydrology	naturally problem	natic?	(If need	ded, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site	e map showing s	samplin	g point l	locations, transects, important features, et
Mar M	N- [7]			
Hydric Soil Present? Yes 🖂	No 🖂	Is th	e Sample	d Area
Wetland Hydrology Present? Yes	No 🖾	with	in a Wetla	nd? Yes 📋 No 🖄
Remarks: Sampling point is near boat yard parkin	g lot and pedestrian t	rail.		
EGETATION – Use scientific names of	of plants.			
Tree Stratum (Plot size: r=30')	Absolute % Cover	Dominant Species?	Status	Number of Dominant Species
1.	an owner.		- and the second	That Are OBL, FACW, or FAC: 2(A)
2				Total Number of Dominant
3				Species Across All Strata: 3(B)
4			-	Percent of Dominant Species
Contract Charle Stratum (Dist size: +15)		= Total C	over	That Are OBL, FACW, or FAC: 60.7 (A/B)
1 Rubus armeniacus	10	Yes	FAC	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5	1975			FAC species x 3 =
Hade Stratum (Plat size: ==5)	10	= Total C	over	FACU species x4 =
Learnis molis	90	Yes	FACU	UPL species x 5 = Column Tatalar (A)
2 Achillea millefolium	20	No	FACU	
3. Daucus carota	5	No	FACU	Prevalence Index = B/A =
4. Solidago sempervirens	2	No	FACW	Hydrophytic Vegetation Indicators:
5. Lathyrus japonicus	10	No	FACU	Rapid Test for Hydrophytic Vegetation
6. Festuca rubra	60	Yes	FAC	U Dominance Test is >00%
7. Leontodon saxatilis	2	No	FACU	Herebelogical Adaptations! (Provide supportion)
8				data in Remarks or on a separate sheet)
0				D Wetland Non-Vascular Plants
10			-	Problematic Hydrophytic Vegetation ¹ (Explain)
	189	= Total C	over	Indicators of hydric soil and wetland hydrology must
	100			be present, unless disturbed or problematic:
Woody Vine Stratum (Plot size: r=30')				Hydrophytic
11				Magnitudia
11.			-	vegetation
11.		= Total C	over	Present? Yes 🛛 No 🗌

						Sampling Point:
Profile D	escription: (Describ	e to the dept	h needed to document the indicato	r or confirm	n the absenc	e of indicators.)
Depth (inches)	Matrix Color (moist)	96 7	Redox Features	1.002	-	Deres 4
0.18	2 500 (11034)		Solor (moisc) Type.		Texture	Remarks
0-10	1.01K (2.0/1)				Sandy	Loose texture, moist, sandy
						· · · · · · · · · · · · · · · · · · ·
	-					
	-					
'Type: C:	Concentration, D=De	pletion, RM=	Reduced Matrix, CS=Covered or Coal	ed Sand Gr	ains. ² Lo	cation: PL=Pore Lining M=Matrix
Hydric So	oil Indicators: (Appli	icable to all L	RRs, unless otherwise noted.)		Indicat	ors for Problematic Hydric Soils':
Histos	iol (A1)	Ľ	Sandy Redox (S5)		🗌 2 a	m Muck (A10)
Histic	Epipedon (A2)	0	Stripped Matrix (S6)		C Rec	Parent Material (TF2)
Hydro	gen Sulfide (A4)		Loamy Mucky Mineral (F1) (excep Loamy Gleved Matrix (F2)	t MLRA 1)		y Shallow Dark Surface (TF12) er (Evolain in Remarks)
Deple	ted Below Dark Surfac	ce (A11)	Depleted Matrix (F3)		<u>, , , , , , , , , , , , , , , , , , , </u>	- (
Thick	Dark Surface (A12)		Redox Dark Surface (F6)		³ Indicat	ors of hydrophytic vegetation and
Sandy	Gleved Matrix (S4)	L L	Depleted Dark Surface (F7) Redex Dependence (F9)		wett	and hydrology must be present,
Restrictiv	e Layer (if present):		Tredux Depressions (FB)		Unie	ss disturbed or problematic.
Type:_			_		1	
Depth	(inches):		_		Hydric Soi	Present? Yes 🗍 No 🕅
Remarks:	Crumbly/loose soil wit	th sand partic	les. Chunks of woody debris present v	within the sc	oil. Slightly mo	ist.
Remarks:	Crumbly/loose soil wit	th sand partic	les. Chunks of woody debris present v	within the sc	oil. Slightly mo	ist.
Remarks: HYDROL Wetland I	Crumbly/loose soil wit	th sand particl	les. Chunks of woody debris present v	within the so	oil. Slightly mo	
Remarks: HYDROL Wetland I Primary In	Crumbly/loose soil wit	th sand particl	es. Chunks of woody debris present v	within the so	oil. Slightly mo	indary Indicators (2 or more required)
Remarks: HYDROL Wetland H Primary In Surfac	Crumbly/toose soil wit OGY tydrology Indicators dicators (minimum of e Water (A1) Vater Table (A2)	th sand particl	es. Chunks of woody debris present v check all that apply) Water-Stained Leaves (B9) (#	within the so	il. Slightly mo	indary Indicators (2 or more required) Vater-Stained Leaves (B0) (MLRA 1, 2,
Remarks: HYDROL Wetland H Primary In Surfac High V Satura	Crumbly/toose soil wit OGY tydrology Indicators dicators (minimum of e Water (A1) Vater Table (A2) tion (A3)	th sand particl	es. Chunks of woody debris present v check all that apply) Water-Stained Leaves (B9) (¢ 1, 2, 4A, and 4B) Salt Crust (B11)	within the sc	vil. Slightly mo	indary Indicators (2 or more required) Vater-Stained Leaves (B0) (MLRA 1, 2, 4A, and 4B) resinane Patterns (B10)
HYDROL Wetland H Primary In Surfac High V Satura Water	Crumbly/toose soil wit OGY tydrology Indicators dicators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1)	th sand particl	es. Chunks of woody debris present v check all that apply) Water-Stained Leaves (B9) (c 1, 2, 4A, and 4B) Sall Crust (B11) Aquatic Invertebrates (B13)	within the sc	vil. Slightly mo	ist. Indary Indicators (2 or more required) Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rrainage Patterns (B10) rry-Season Water Table (C2)
Remarks: HYDROL Wetland I Primary In Surfac High V Satura Satura Water Secim	Crumbly/toose soil wit OGY tydrology Indicators dicators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	th sand particl	check all that apply) Check all that apply) Water-Stained Leaves (B0) (e 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	within the sc	xii. Slightly mo <u>Seco</u> XA □ V □ D □ S	ist. Indary Indicators (2 or more required) Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) aturation Visible on Aerial Imagery (C6
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HYDROL Wetland I Primary In Surfac High V Satura Water Sedim Drift D Algal N	Crumbly/loose soil wit OGY Hydrology Indicators dicators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Alat or Crust (B4) aposits (B4)	th sand particl	es. Chunks of woody debris present v check all that apply) Water-Stained Leaves (B0) (c 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C	within the sc xcept MLR Living Root	Sightly mo Seco A □ 0 □ 0 □ 0 □ 5 □ 5 □ 5 □ 5 □ 5 □ 5 □ 5 □ 5	ist. Indary Indicators (2 or more required) Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Irrainage Patterns (B10) Irry-Season Water Table (C2) iaturation Visible on Aerial Imagery (C9 ieomorphic Position (D2) hallow Aquitard (D3)
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Remarks: HYDROL Wetland I Primary In Surfac High V Satura Water Sedim Drift D Algal M Iron D Surfac Inunda Sparse Field Obs Surface W	Crumbly/loose soil with OGY tydrology Indicators dicators (minimum of we Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Aat or Crust (B4) eposits (B5) e Soil Cracks (B8) tion Visible on Aerial ty Vegetated Concaver ervations: ater Present?	Imagery (B7) e Surface (B8	check all that apply) Water-Stained Leaves (B0) (e 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Stunted or Stressed Plants (D Other (Explain in Remarks)) Depth (inches):	vithin the sc xcept MLR Living Root I) d Soils (C8) 1) (LRR A)	Slightly mo Seco A D CA D C D C D C D C D C D C D C D C	ist. Indary Indicators (2 or more required) Vater-Stained Leaves (B0) (MLRA 1, 2, 4A, and 4B) Irrainage Patterns (B10) Inv-Season Water Table (C2) iaturation Visible on Aerial Imagery (C9) ieomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) iaised Ant Mounds (D8) (LRR A) rost-Heave Hummocks (D7)
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Remarks: HYDROL Wetland I Primary In Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Isurfac Surfac W Water Tab Saturation (includes c Describe F	Crumbly/loose soil with OGY tydrology Indicators dicators (minimum of e Water (A1) Vater Table (A2) titon (A3) Marks (B1) ent Deposits (B2) eposits (B3) Aat or Crust (B4) eposits (B5) e Soil Cracks (B8) titon Visible on Aerial ely Vegetated Concav ervations: ater Present? Present?	Imagery (B7) e Surface (B8 Yes [] No [Yes [] No [Yes [] No [n gauge, moni	es. Chunks of woody debris present of check all that apply) Water-Stained Leaves (B9) (e 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Stunted or Stressed Plants (D Other (Explain in Remarks)) Depth (inches): Depth (i	vithin the sc except MLR Living Root () d Soils (C6) 1) (LRR A) URR A)	vil. Slightly mo Seco VA U C C S S S S S S S S S S S S S	ist. Indary Indicators (2 or more required) Vater-Stained Leaves (B0) (MLRA 1, 2, 4A, and 4B) Irrainage Patterns (B10) Irry-Season Water Table (C2) aturation Visible on Aerial Imagery (C8 ieomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) laised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7) Intervention (D2) Market Pattern (D2) Mar
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Project/Site: Boat Haven Stormwater Project		City/Count	ty: Port Tow	msend Jefferson County Sampling Date: 11/29/24
Applicant/Owner: Port Townsend				State: WA Sampling Point: SP-2
nvestigator(s): Lee Dolam			Section, To	ownship, Range:
Landform (hillslope, terrace, etc.): Shoulderslope		Local reli	ef (concave	, convex, none): Concave Slope (%): 5
Subregion (LRR):	Lat 48.1	053558		Long: -122.7809283 Datum:
Soil Map Unit Name:				NWI classification:
Are climatic / hydrologic conditions on the site typical for	this time of yea	ar?Yes 🛛	No [] (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	significantly dis	turbed?	Are "N	ormal Circumstances" present? Yes 🖾 No 🗌
Are Vegetation , Soil , or Hydrology r	aturally problem	matic?	(If need	ed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ip showing	samplin	ng point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes □ No Hydric Soil Present? Yes □ No Wetland Hydrology Present? Yes □ No		ls ti with	he Sampled	d Area nd? Yes No
VEGETATION - Use scientific names of D	ants.	art training		
	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: r=30')	% Cover	Species	? Status	Number of Dominant Species
1			~	That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant Species Armss All Strate: 2 (P)
a				opecies Across An Surata. <u>S</u> (D)
7.		= Total (Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B)
Sapling/Shrub Stratum (Plot size: =15')	21-			Developed Index worksheet
1. Rubus Armeniacus	5	Yes	FAC	Total % Cover of Multink by
2	-			OBL species x1=
4				FACW species x 2 =
5				FAC species x 3 =
	5	= Total (Cover	FACU species x 4 =
Herb Stratum (Plot size: r=5')	05	Vec	EACU	UPL species x5=
1. Levinus Mollis	<u>90</u>	No	FACU	Column Totals: (A) (B)
2. paucos caroca 3. Festuca Rubra	35	No	FAC	Prevalence Index = B/A =
4. Anthriscus caucalis	20	No	UPL	Hydrophytic Vegetation Indicators:
5. Achillea millefolium	40	Yes	FACU	Rapid Test for Hydrophytic Vegetation
6. Lamium purpureum	5	No	UPL	Dominance Test is >50%
7				Prevalence Index is \$3.0" Mombelogical Adaptations! (Provide supporting
8			/	data in Remarks or on a separate sheet)
θ			· · · · · · · · · · · ·	Wetland Non-Vascular Plants1
11	-			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: (=30')	;	= Total (Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	_			
2.				Vegetation
	Steel J. State & Longitudina and Aland	= Total (Cover	Present? Yes 🗍 No 🕅
% Bare Ground in Herb Stratum 10				
rvenans,				

 ~ 2

	npuon: (Descri	pe to me	depth ne	eded to doc	ument the in	ndicator	or confin	m the absence	e of indicators.)
Depth	Matrix	(Re	dox Features	5	115.2		
(inches)	Color (moist)	%	Colo	(moist)	%	Type!	Loc ²	Texture	Remarks
0-10	7.5YR (2.5/1)	100						Sandy	Crumbly/loose texture, slightly mo
-									
			_		_				
		_					SU		
			-					n)	
¹ Type: C=Co	ncentration, D=D	Depletion, F	≷M=Red⊾	ced Matrix	CS=Covered	for Coate	ed Sand G	rains ² 1	cation: PL=Pore Lining M=Matrix
Hydric Soil I	ndicators: (App	licable to	all LRRs	, unless oth	erwise note	ed.)		Indicat	tors for Problematic Hydric Soils ³ :
Histosol (A1)		⊡ s	andy Redox	(S5)			20	m Muck (A10)
🗌 Histic Epi	pedon (A2)		🗆 S	tripped Matri	ix (S0)			Re	d Parent Material (TF2)
Black His	tic (A3)			oamy Mucky	Mineral (F1)) (except	MLRA 1)	Ve	ry Shallow Dark Surface (TF12)
Hydrogen	Sulfide (A4)			oamy Gleyed	Matrix (F2)				ner (Explain in Remarks)
Depleted	Below Dark Surf	ace (A11)		epleted Mat	ix (F3)				
Thick Dar	k Surface (A12)			edox Dark S	urface (F6)			³ Indicat	tors of hydrophytic vegetation and
C Sandy Mu	icky Mineral (S1)			epleted Dark	Surface (F7	()		wet	and hydrology must be present,
Restrictive I	aver (if process)	•		edox Depres	sions (FU)			unle	ess disturbed or problematic.
Type	ayer (n present)	ŀ-							
	1.2.MIN								
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Appendix D. Wetland Rating Summary Form – Wetland C

Wetland name or number: Wetland C **RATING SUMMARY – Western Washington** Name of wetland (or ID #): POPT WBYE Wetland C Date of site visit: 01/17/2025 Trained by Ecology?___Yes X_No Date of training_ Rated by: Lee Dolam HGM Class used for rating: Depressional Wetland has multiple HGM classes? Y X_N NOTE: Form is not complete without the required figures (figures can be combined). Source of base aerial photo/map **OVERALL WETLAND CATEGORY** _____ (based on functions_X__ or special characteristics_X_) 1. Category of wetland based on FUNCTIONS Category I – Total score = 23 - 27 : Score for each Category II – Total score = 20 - 22 function based on three X Category III – Total score = 16 - 19 ratings (order of ratings Category IV - Total score = 9 - 15 is not important) Improving Hydrologic Habitat **FUNCTION** 9 = H, H, H Water 8 = H, H, M Quality 7 = H, H, L Circle the appropriate ratings 7 = H, M, M (H) н (M) L Site Potential M L 6 = H, M, L (H) Μ L 6 = M, M, M Landscape Potential H B 3 L M L M L н 5 = H, L, L C H Μ 0 TOTAL Value Н M (L) H Μ 5 = M, M, L Score Based on 4 = M, L, L 5 18 6 7 Ratings 3 = L, L, L 2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY
Estuarine	I II
Wetland of High Conservation Value	I
Bog	I
Mature Forest	I
Old Growth Forest	I
Coastal Lagoon	I II
Interdunal	I II III IV
None of the above	

Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington

Maps and figures required to answer questions correctly for Western Washington Depressional Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	
Map of the contributing basin	D 4.3, D 5.3	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	1
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D33	

×.

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H1.1, H1.4	
Hydroperiods	H 1.2	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream (can be added to another figure)	R 4.1	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

Slope Wetlands

Map of:	To answer guestions:	Figure #
Cowardin plant classes	H1.1, H1.4	
Hydroperiods	H 1.2	
Plant cover of dense trees, shrubs, and herbaceous plants	S 1.3	
Plant cover of dense, rigid trees, shrubs, and herbaceous plants (can be added to figure above)	S 4.1	
Boundary of 150 ft buffer (can be added to another figure)	\$ 2.1. \$ 5.1	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	\$ 3.1, \$ 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	\$ 3.3	

Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

2

Sims Way Stornwater Facility Port of Port Townsend Jefferson County, Washington

HGM Classification of Wetlands in Western Washington

For questions 1-7, the criteria described must apply to the entire unit being rated.

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-7 apply, and go to Question 8.

1. Are the water levels in the entire unit usually controlled by tides except during floods?

NO – go to 2 YES – the wetland class is Tidal Fringe – go to 1.1

1.1 Is the salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)?

NO – Saltwater Tidal Fringe (Estuarine) If your wetland can be classified as a Freshwater Tidal Fringe use the forms for Riverine wetlands. If it is Saltwater Tidal Fringe, it is an Estuarine wetland and is not scored. This method cannot be used to score functions for estuarine wetlands.

2. The entire wetland unit is flat, and precipitation is the only source (>90%) of water to it. Groundwater and surface water runoff are NOT sources of water to the unit.

NO – go to 3 YES – The wetland class is Flats If your wetland can be classified as a Flats wetland, use the form for Depressional wetlands.

- 3. Does the entire wetland unit meet all of the following criteria?
 - _____The vegetated part of the wetland is on the shores of a body of permanent open water (without any plants on the surface at any time of the year) at least 20 ac (8 ha) in size,
 - ____At least 30% of the open water area is deeper than 6.6 ft (2 m).

NO – go to 4

YES – The wetland class is Lake Fringe (Lacustrine Fringe)

- 4. Does the entire wetland unit meet all of the following criteria?
 - The wetland is on a slope (slope can be very gradual),

The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheet flow, or in a swale without distinct banks,

The water leaves the wetland without being impounded.

NO - go to 5

YES – The wetland class is Slope

3

NOTE: Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3 ft diameter and less than 1 ft deep).

Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

- 5. Does the entire wetland unit meet all of the following criteria?
 - _____The unit is in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river,

The overbank flooding occurs at least once every 2 years.

NO – go to 6 YES – The wetland class is Riverine NOTE: The Riverine unit can contain depressions that are filled with water when the river is not flooding

6. Is the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year? This means that any outlet, if present, is higher than the interior of the wetland.

NO – go to 7

YES - The wetland class is Depressional

7. Is the entire wetland unit located in a very flat area with no obvious depression and no overbank flooding? The unit does not pond surface water more than a few inches. The unit seems to be maintained by high groundwater in the area. The wetland may be ditched but has no obvious natural outlet.

NO – go to 8

YES – The wetland class is Depressional

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit being rated	HGM class to use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream within boundary of depression	Depressional
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine
Salt Water Tidal Fringe and any other class of freshwater wetland	Treat as ESTUARINE

If you are still unable to determine which of the above criteria apply to your wetland, or if you have more than 2 HGM classes within a wetland boundary, classify the wetland as Depressional for the rating.

Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

D 1.0. Does the site have the potential to improve water quality?	
D 1.1. Characteristics of surface water outflows from the wetland:	3
Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet). points = 3	
Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet. points = 2	
Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1 Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1	
D 1.2. The soil 2 in. below the surface (or duff layer) is true clay or true organic (use NRCS definitions). Yes = 4 No = 0	0
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes):	5
Wetland has persistent, ungrazed plants > 95% of area points = 5	
Wetland has persistent, ungrazed plants > ½ of area points = 3	
Wetland has persistent, ungrazed plants $\geq 1/10$ of area points = 1	
Wetland has persistent, ungrazed plants $<^{1}/_{10}$ of area points = 0	
D 1.4. Characteristics of seasonal ponding or inundation:	4
This is the area that is ponded for at least 2 months. See description in manual.	
Area seasonally ponded is > ½ total area of wetland points = 4	
Area seasonally ponded is ≥ % total area of wetland points = 2	
Area seasonally ponded is < ¼ total area of wetland points = 0	
Total for D 1 Add the points in the boxes above	12

D 2.0. Does the landscape have the potential to support the water quality function of the	site?	
D 2.1. Does the wetland unit receive stormwater discharges?	Yes = 1 No = 0	1
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?	Yes = 1 No = 0	0
D 2.3. Are there septic systems within 250 ft of the wetland?	Yes = 1 No = 0	0
D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in question Source	ns D 2.1-D 2.3? Yes = 1 No = 0	1
Total for D 2 Add the points in	n the boxes above	2

Rating of Landscape Potential If score is: __3 or 4 = H \times 1 or 2 = M __0 = L Record the rating on the first page

D 3.0. Is the water quality improvement provided by the site valuable to society?		1
D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine 303(d) list?	water that is on the Yes = 1 No = 0	0
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list?	Yes = 1 No = 0	0
D 3.3. Has the site been identified in a watershed or local plan as important for maintaining wa if there is a TMDL in development or in effect for the basin in which the unit is found.)	ater quality? (Answer YES Yes = 2 No = 0	0
Total for D 3 Add the point	its in the boxes above	0
Rating of Value If score is:2-4 = H1 = MX_0 = L	Record the rating on the	first page

Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

	<u>DS</u>
Hydrologic Functions - indicators that the site functions to reduce floc	oding and stream degradation
D 4.0. Does the site have the potential to reduce flooding and erosion?	
D 4.1. Characteristics of surface water outflows from the wetland:	4
Wetland is a depression or flat depression with no surface water leaving it (no outle	t) points = 4
Wetland has an intermittently flowing stream/ditch, OR highly constricted permane	ntly flowing outlet points = 2
Wetland has an unconstricted, or slightly constricted, surface outlet that is nerman	ring ditch points = 1
0.4.2 Depth of storage during wet periods: Estimate the height of popular above the batt	antiy nowing points = 0
wetlands with no outlet, measure from the surface of permanent water or if doy, the	a deepert part
Marks of ponding are 3 ft or more above the surface or bottom of outlet	points = 7
Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet	points = 5
Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet	points = 3
The wetland is a "headwater" wetland	points = 3
Wetland is flat but has small depressions on the surface that trap water	points = 1
Marks of ponding less than 0.5 ft (6 in)	points = 0
0.4.3. Contribution of the wetland to storage in the watershed: Estimate the ratio of the a	rea of upstream basin 5
contributing surface water to the area of the wetland unit itself.	-
The area of the basin is less than 10 times the area of the unit	points = 5
The area of the basic is more than 100 times the area of the unit	points = 3
For the dealer of the basin is more than 100 times the area of the unit	points = 0
Entrate we during is in the Hals class	points = 5
Add the p	points in the boxes above 14
	Record the rating on the first p
0.5.0. Does the landscape have the potential to support hydrologic functions of the	e site?
3.1. Does the wetland receive stormwater discharges?	Yes = 1 No = 0 1
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess ru	noff? Yes = 1 No = 0 1
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess rul D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive hu >1 residence/ac, urban, commercial, agriculture, etc.)?	noff? Yes = 1 No = 0 1 man land uses (residential at Yes = 1 No = 0 1
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These questions apply to wetlands of all HGM classes.	
HABITAT FUNCTIONS - Indicators that site functions to provide important habitat	
H 1.0. Does the site have the potential to provide nabitat?	
A1.1. Structure of plant community. Indicators are cowardin classes and strata which effects class. Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the of % ac if the unit is at least 2.5 ac, or more than 10% of the unit if it is smaller than 2.5 ac. Aquatic bed 4 structures or more: XEmergent 3 structures: XScrub-shrub (areas where shrubs have > 30% cover) 2 structures: XForested (areas where trees have > 30% cover) 1 structure: If the unit has a Forested class, check if: XThe Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/ground each cover 20% within the Forested polygon	e threshold points = 4 points = 2 points = 1 points = 0 dcover) that
H 1.2. Hydroperiods	2
more than 10% of the wetland if the unit is < 2.5 ac, or ¼ ac if the unit is at least 2.5 ac to count (see descriptions of hydroperiods).	text for points = 3 points = 2 points = 1 points = 0 2 points 2 points
H 1 3 Richness of plant species	1
Count the number of plant species in the wetland that cover at least 10 ft ² . Different patches of the same species can be combined to meet the size threshold and you do not h name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canada thi If you counted: > 19 species 5 - 19 species < 5 species	ave to istle points = 2 points = 1 points = 0
H 1.4. Interspersion of habitats	3
Decide from the diagrams below whether interspersion among Cowardin plants classes (described i the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or r have four or more plant classes or three classes and open water, the rating is always high. None = 0 points None = 0 points htis row are High = 3 points	n H 1.1), or ione. If you

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H15 Special habitat features:	10
Check the habitat features that are present in the wetland. The number of checks is the number of points	2
Large downed words define the well and the number of checks is the number of points.	
Standing range (dbb $\geq A$ in) within the webland	
= - 3 contains a mass (contract for at least 6.6 for a) and (an average for a least 6.6 for a) and (an average for at least 6.6 for a) are defined as a set of (an average for at least 6.6 for a) are defined as a set of (an average for at least 6.6 for a) are defined as a set of (an average for at least 6.6 for a) are defined as a set of (an average for at least 6.6 for a) are defined as a set of (an average for at least 6.6 for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) are defined as a set of (an average for a) a	
Over open water or a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 ft (1 m) over open water or a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 ft (10 m)	
Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed)	
X At least % ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by amphibians)	
X Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 above for the list of strata and H 1.5 in the manual for the list of aggressive plant species)	
Total for H 1 Add the points in the boxes above	12
Rating of Site Potential If score is: $15-18 = H \times 7-14 = M = 0-6 = L$ Record the rating on	the first
H 2.0. Does the landscape have the potential to support the habitat functions of the site?	
H 2.1. Accessible habitat (include only habitat polygons accessible from the wetland	10
Calculate: % relatively undisturbed habitat + 1/% moderate and low intensity land uses / 21 - *	0
Total accessible habitat is:	
$> \frac{1}{3}$ (33.3%) of 1 km Polygon	
20-33% of 1 km Polycon	
10-19% of 1 km rolygon points = 2	
< 10% of 1 kin of goin points = 1	
2.2. Total babitat in 1 km Dolumn around the unable d	
12.2. Iotal habitat in 1 km Porygon around the wetland.	1
Calculate: % relatively undisturbed habitat+ {(% moderate and low intensity land uses)/2] =%	
I otal nabitat > 50% of Polygon points = 3	
Total natitat 10-50% and in 1-3 patches points = 2	
Iotal habitat 10-50% and > 3 patches points = 1	
rotal nabitat < 10% of 1 km Polygon points = 0	
H 2.3. Land use intensity in 1 km Polygon:	0
> 50% of 1 km Polygon is high intensity land use points = (- 2)	
\$ 50% of 1 km Polygon is high intensity points = 0	
Total for H 2 Add the points in the boxes above	1
Rating of Landscape Potential If score is: $_4-6 = H \times 1-3 = M _ < 1 = L$ Record the rating on the second the	the first p
H 3.0. Is the habitat provided by the site valuable to society?	
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose only the highest score	0
that applies to the wetland being rated.	ľ
Site meets ANY of the following criteria: points = 2	
 It has 3 or more Priority Habitats within 100 m (see next page) 	
— It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists)	
 It is mapped as a location for an individual WDFW Priority Species 	
- It is a Wetland of High Conservation Value as determined by the Department of Natural Resources data	
 It has been categorized as an important habitat site in a local or regional comprehensive plan in a 	
Shoreline Master Plan, or in a watershed plan Site has 1 or 2 Priority Habitats (listed on next page) within 100 m points = 1	
Site does not meet any of the criteria above	
Rating of Value If score is: $2 = H$ $1 = M$ $X_0 = L$ Record the rating on	the first i
	,,
Vetland Rating System for Western WA: 2014 Update 14	

Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the category when the appropriate criteria are met.	
SC 1.0. Estuarine wetlands Does the wetland meet the following criteria for Estuarine wetlands? — The dominant water regime is tidal, — Vegetated, and — With a salinity greater than 0.5 ppt Yes – Go to SC 1.1 No= Not an estuarine wetland	
SC 1.1. Is the wetland within a National Wildlife Refuge, National Park, National Estuary Reserve, Natural Area Preserve, State Park or Educational, Environmental, or Scientific Reserve designated under WAC 332-30-151? Yes = Category I No – Go to SC 1.2	Cat. I
 SC 1.2. Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions? — The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 10% cover of non-native plant species. If non-native species are Spartina, see chapter 4.8 in the manual 	Cat, I
 At least % of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-mowed grassland. The wetland has at least two of the following features: tidal channels, depressions with open water, or contiguous freshwater wetlands. 	Cat. II
 SC 2.0. Wetlands of High Conservation Value (WHCV) SC 2.1. Does the wetland overlap with any known or historical rare plant or rare & high-quality ecosystem polygons on the WNHP Data Explorer?¹³³ Yes = Category 1 No – Go to SC 2.2 SC 2.2. Does the wetland have a rare plant species, rare ecosystem (e.g., plant community), or high-quality common ecosystem that may qualify the site as a WHCV? Contact WNHP for resources to help determine the presence of these elements. Yes – <u>Submit data to WA Natural Heritage Program for determination</u>, ¹³⁶ Go to SC 2.3 No = Not a WHCV SC 2.3. Did WNHP review the site within 30 days and determine that it has a rare plant or ecosystem that meets their criteria? 	Cat. I
 SC 3.0. Bogs Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation in bogs? Use the key below. If you ansiver YES, you will still need to rate the wetland based on its functions. SC 3.1. Does an area within the wetland unit have organic soil horizons, either peats or mucks, that compose 16 in. or more of the first 32 in. of the soil profile? Yes – Go to SC 3.3 No – Go to SC 3.2 SC 3.2. Does an area within the wetland unit have organic soils, either peats or mucks, that are less than 16 in. deep over bedrock, or an impermeable hardpan such as clay or volcanic ash, or that are floating on top of a lake or pond? Yes – Go to SC 3.3 No = Not a bog SC 3.3. Does an area with peats or mucks have more than 70% cover of mosses at ground level, AND at least a 30% cover of plant species listed in Table 4? Yes = Category I bog No – Go to SC 3.4 NOTE: If you are uncertain about the extent of mosses in the understory, you may substitute that criterion by measuring the pH of the water that seeps into a hole dug at least 16 in. deep. If the pH is less than 5.0 and the plant species in Table 4 are present, the wetland is a bog. SC 3.4. Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir, western red cedar, western hemlock, lodgepole pine, quaking aspen, Engelmann spruce, or western white pine, AND any of the species (or combination of species) listed in Table 4 provide more than 30% of the cover under the canopy? Yes = Category I bog No = Not a bog 	Cat. I
¹³ https://www.dnr.wa.gov/NHPdata ¹⁶ https://www.dnr.wa.gov/Publications/amp_nh_sighting_form.pdf 17	

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Does the wetland have at least <u>1 contiguous acre</u> of forest that meets one of these criteria for the WA Department of Fish and Wildlife's forests as Priority Habitats? <i>If you answer YES, you will still need to rate</i> the wetland based on its functions. — Old-growth forests (west of Cascade crest): Stands of at least two tree species, forming a multi-layered	
canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) that are at least 200 years age OR have a diameter at breast height (dbh) of 32 in. (81 cm) or more. — Mature forests (west of the Cascade Crest): Stands where the largest trees are 80- 200 years old OR the species that make up the canopy have an average diameter (dbh) exceeding 21 in. (53 cm).	of
Yes = Category I No = Not a forested wetland for this section	n Cat. I
SC 5.0. Wetlands in Coastal Lagoons	
Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
— The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks	
— The lagoon in which the wetland is located contains ponded water that is saline or brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon (needs to be measured near the bottom)	
— The lagoon retains some of its surface water at low tide during spring tides	
Yes – Go to SC 5.1 No = Not a wetland in a coastal lagoon	Cat. I
C 5.1. Does the wetland meet all of the following three conditions?	
— The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 20% cover of aggressive, opportunistic plant species (see list of species in H 1.5 in the manual).	
— At least % of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un- mowed grassland.	Cat. II
— The wetland is larger than $1/10$ ac (4350 ft ²)	
Yes = Category I No = Category II	
C 6.0. Interdunal Wetlands	
is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? If	;
WINT RENAMPLE FEST WORLDUNG FEIN DOOD TO FOTO TOO NOTIONAL BORGE AN INCIDENT AND A SUB-	
In practical terms that means the following geographic areas:	
In practical terms that means the following geographic areas: — Long Beach Peninsula: Lands west of SR 103	
 in practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 	Cat I
 Job answer YES, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Ocean Shores Blvd SW. 	Cat I
 Job unswer YES, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. Yes ~ Go to SC 6.1 No = Not an interdunal wetland for ratin 	Cat I st
 Jou answer YeS, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. Yes – Go to SC 6.1 No = Not an interdunal wetland for ratin 	Cat I st g Cat. II
 you unswer res, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. Yes - Go to SC 6.1 No = Not an interdunal wetland for ratin C 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,N for the three apparts of function). 	Cat I st g Cat. II
 you unswer res, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. Yes - Go to SC 6.1 No = Not an interdunal wetland for ratin C 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,N for the three aspects of function)? Yes = Category I No - Go to SC 6.2. Is the wetland 1 ac or larger or is it in a mosaic of wetlands that is 1 ac or larger? 	Cat I st g Cat. II 1 2 Cat. III
 you unswer res, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. Yes – Go to SC 6.1 No = Not an interdunal wetland for ratin C 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,N for the three aspects of function)? Yes = Category I No – Go to SC 6. C 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger? Yes = Category II No – Go to SC 6.	Cat I st g Cat. II 4 2 Cat. III 3
 you unswer res, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. Yes - Go to SC 6.1 No = Not an interdunal wetland for ratin C 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,N for the three aspects of function)? C 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger? Yes = Category II No - Go to SC 6. C 6.3. Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac? 	Cat I st g Cat. II A 2 Cat. III 3
 Job unswer YES, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. Yes – Go to SC 6.1 No = Not an interdunal wetland for ratin C 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,M for the three aspects of function)? Yes = Category I No – Go to SC 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger? Yes = Category II No – Go to SC 6.3. Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac? Yes = Category III No = Category II No = Categor	Cat I st G Cat. II A 2 Cat. III 3 y Cat. IV
 you unswer res, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103 Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. Yes - Go to SC 6.1 No = Not an interdunal wetland for ratin for the three aspects of function)? Yes = Category I No - Go to SC 6. St he wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger? Yes = Category II No - Go to SC 6. C 6.3. Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac? Yes = Category III No = Category II No = Category III No = Category II 	Cat I st G Cat. II 2 Cat. III 3 y Cat. IV

Appendix E. Wetland Rating Summary Form – Wetland A

21/08/2024, 11:53 Wetland Rating Summary Wetland name or number: Wetland A **RATING SUMMARY** - Western Washington Name of wetland (or ID#): Wetland A Date of site visit: 05/23/2024 Trained by Ecology? Yes [] No [X] Date of Training: N/A Rated By: Bradley A. Schlottman HGM Class used for rating: Depressional Wetland has multiple HGM classes? Yes [] No [X] NOTE: Form is not complete without the figures requested (figures can be combined). Source of base aerial photo/map: OVERALL WETLAND CATEGORY: [Category II] (based on functions [X] or special characteristics [X]) 1. Category of wetland based on FUNCTIONS Score for each [] Category I - Total score = 23 - 27 function based on [X] Category II - Total score = 20 - 22 three ratings [] Category III - Total score = 16 - 19 (order of ratings is [] Category IV - Total score = 9 - 15 not important) 9 = H, H, HImproving Water 8 = H, H, MHydrologic Habitat FUNCTION Quality 7 = H,H,LΜ н Site Potential Μ 7 = H,M,MLandscape Potential Н H. Μ 6 = H,M,LН Н Total 6 = M,M,M L Value 5 = H,L,LScore Based on 22 7 6 9 5 = M, M, LRatings 4 = M, L, L3 = L,L,L2. Category based on SPECIAL CHARACTERISTICS of wetland CATEGORY CHARACTERISTIC Estuarine Wetland of High Conservation Value Bog Forested Category II Coastal Lagoon Interdunal None of the above https://secureaccess.wa.gov/ecy/wetlandsratingtool/WATOR/WetlandSummary?WetlandId=1822&WetlandName=Wetland A&WetlandType=Depressi... 1/13 21/08/2024, 11:53

Wetland Rating Summary

Wetland name or number: Wetland A

Maps and figures required to answer questions correctly for Western Washington

Depressional Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	
Map of the contributing basin	D 4.3, D 5.3	
1km Polygon: Area that extends 1km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	

https://secureaccess.wa.gov/ecy/wetlandsratingtool/WATOR/WetlandSummary?WetlandId=1622&WetlandName=Wetland A&WetlandType=Depressi... 2/13

21/06/2024, 11:53

e.

Wetland Rating Summary

Wetland name or number: Wetland A

DEPRESSIONAL AND FLATS WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

D 1.0 Does the site have the pote	ential to improve water quality?			_
D 1.1 What are the characteristics	of surface water outflows from the wetland?			
Wetland has no surface water outle	et.	points = 3		
Wetland has an intermittently flow	ring, or highly constricted, outlet.	points = 2		
Wetland has an unconstricted, or s permanently flowing	slightly constricted, surface outlet that is	points = 1		
Wetland is a flat depression whose	e outlet is a permanently flowing ditch.	points = 1	Score:	5
D 1.2 Is the soil 2 in. below the sur	rface a true clay or organic soil?			
Mapped as true clay or organic (m	nuck or peat)	points = 4		
Soil texture identified as clay or or	ganic in field	points = 4		
Soil texture identified as clay or or	ganic by laboratory test	points = 4		
None of the above		points = 0	Score:	
D 1.3 What are the characteristics	and distribution of persistent plants?			
Wetland has persistent, ungrazed,	plants > 95% of area	points = 5		
Wetland has persistent, ungrazed,	plants > 50% of area	points = 3		
Wetland has persistent, ungrazed	plants > 10% of area	points = 1		
Wetland has persistent, ungrazed	plants < 10% of area	points = 0	Score:	
D 1.4 What are the characteristics	of seasonal ponding or inundation in the wetland	area?		
Area seasonally ponded is > 50% t	total area of wetland	points = 4		
Area seasonally ponded is equal to	o or > 25% total area of wetland	points = 2		
Area seasonally ponded is < 25% t	total area of wetland	points = 0	Score:	_
		Total for D 1:	8	
				_
Rating of Site Potential	[] 12-16 = H [X] 6-11 = M [] 0-5 = L	Record the rating on t	he first p	a
Rating of Site Potential D 2.0 Does the landscape have th	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function	Record the rating on t on of the site?	he first p	a
Rating of Site Potential D 2.0 Does the landscape have the D 2.1 <u>Does the wetland unit received</u>	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges?	Record the rating on t on of the site?	he first p	
Rating of Site Potential D 2.0 Does the landscape have th D 2.1 <u>Does the wetland unit receiv</u> Yes	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges?	Record the rating on t on of the site? points = 1	he first p	ba
Rating of Site Potential D 2.0 Does the landscape have the D 2.1 <u>Does the wetland unit receiv</u> Yes No	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges?	Record the rating on t on of the site? points = 1 points = 0	he first p Score:	ba
Rating of Site Potential D 2.0 Does the landscape have the D 2.1 <u>Does the wetland unit receiv</u> Yes No D 2.2 <u>Is > 10% of the area within 1</u>	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges? 50ft of the wetland in land uses that generate polly	Record the rating on t on of the site? points = 1 points = 0 utants in surface runoff?	he first p Score:	
Rating of Site Potential D 2.0 Does the landscape have the D 2.1 <u>Does the wetland unit receiv</u> Yes No D 2.2 <u>Is > 10% of the area within 1</u> Yes	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges? 50ft of the wetland in land uses that generate policy	Record the rating on t on of the site? points = 1 points = 0 utants in surface runoff? points = 1	he first p Score:	
Rating of Site Potential D 2.0 Does the landscape have the D 2.1 <u>Does the wetland unit receive</u> Yes No D 2.2 <u>Is > 10% of the area within 1</u> Yes No	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges? 150ft of the wetland in land uses that generate pollu	Record the rating on t on of the site? points = 1 points = 0 utants in surface runoff? points = 1 points = 0	he first p Score: Score:	
Rating of Site Potential D 2.0 Does the landscape have the D 2.1 <u>Does the wetland unit receive</u> Yes No D 2.2 <u>Is > 10% of the area within 1</u> Yes No D 2.3 <u>Are there septic systems with</u>	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges? 150ft of the wetland in land uses that generate pollution thin 250ft of the wetland?	Record the rating on t on of the site? points = 1 points = 0 utants in surface runoff? points = 1 points = 0	Score:	
Rating of Site Potential D 2.0 Does the landscape have to D 2.1 <u>Does the wetland unit receiv</u> Yes No D 2.2 <u>Is > 10% of the area within 1</u> Yes No D 2.3 <u>Are there septic systems wit</u> Yes	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges? 50ft of the wetland in land uses that generate pollo thin 250ft of the wetland?	Record the rating on t on of the site? points = 1 points = 0 utants in surface runoff? points = 1 points = 0 points = 1	Score:	
Rating of Site Potential D 2.0 Does the landscape have to D 2.1 <u>Does the wetland unit receiv</u> Yes No D 2.2 <u>Is > 10% of the area within 1</u> Yes No D 2.3 <u>Are there septic systems wit</u> Yes No	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges? 150ft of the wetland in land uses that generate polly thin 250ft of the wetland?	Record the rating on t on of the site? points = 1 points = 0 utants in surface runoff? points = 1 points = 0 points = 1 points = 0	Score: Score: Score:	
Rating of Site Potential D 2.0 Does the landscape have the D 2.1 Does the wetland unit receive Yes No D 2.2 Is > 10% of the area within 1 Yes No D 2.3 Are there septic systems with Yes No D 2.4 Are there other sources of p	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges? 150ft of the wetland in land uses that generate pollu- thin 250ft of the wetland?	Record the rating on t on of the site? points = 1 points = 0 utants in surface runoff? points = 1 points = 0 points = 1 points = 0 ed in questions D 2.1-D 2.	Score: Score: Score: Score: 32	
Rating of Site Potential D 2.0 Does the landscape have the D 2.1 Does the wetland unit receive Yes No D 2.2 Is > 10% of the area within 1 Yes No D 2.3 Are there septic systems with Yes No D 2.4 Are there other sources of p Yes	[] 12-16 = H [X] 6-11 = M [] 0-5 = L he potential to support the water quality function we stormwater discharges? 150ft of the wetland in land uses that generate pollu- thin 250ft of the wetland?	Record the rating on t on of the site? points = 1 points = 0 utants in surface runoff? points = 1 points = 0 points = 1 points = 0 ed in questions D 2.1-D 2. points = 1	Score: Score: Score: Score: 32	

D 2.5 What are the other sources of pollutants of	oming into the wetland?			-
The trails and area surrounding the wetlands are fecal coliform to the wetland. Additionally, there	a heavily used by walkers, bikers and are many old tires, tar-treated poles	l dog walkers, which cont that were dumped into t	ributes he site, a	nđ
trash throughout the wetland from a houseless e	ncampment w			_
		Total for D 2:	4	
Rating of Landscape Potential [X]	3-4 = H [] 1-2 = M [] 0 = L	Record the rating on	the first p	age
D 3.0 Is the water quality improvement provid	led by the site valuable to society?			
D 3.1 <u>Does the wetland discharge directly (i.e., w</u> list?	ithin 1 mi) to a stream, river, lake, or	<u>marine water that is on t</u>	<u>he 303(d</u>)
Yes		points $= 1$		
No		points $= 0$	Score:	0
D 3.2 Is the wetland in a basin or sub-basin when	e an aquatic resource is on the 303(d) list?		
Yes		points = 1		
No		points = 0	Score:	0
D 3.3 Has the site been identified in a watershed	or local plan as important for maint	aining water quality?		
Yes		points = 2		
No		points = 0	Score:	0
		Total for D 3:	0	
Rating of Value [].	2-4 = H [] 1 = M [X] 0 = L	Total for D 3: Record the rating on t	0 he first p	age
Rating of Value [] . DEPRESSION Hydrologic Functions - Indicators	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to rea degradtion	Total for D 3: Record the rating on t NDS duce flooding and s	0 he first po stream	age
Rating of Value [] . <u>DEPRESSION</u> Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to rea degradtion re flooding and erosion?	Total for D 3: Record the rating on t NDS duce flooding and s	0 the first po stream	age
Rating of Value [] . DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface wate	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to rea degradtion the flooding and erosion?	Total for D 3: Record the rating on t NDS duce flooding and s	0 he first pr	age
Rating of Value [] . <u>DEPRESSION</u> Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduc D 4.1 <u>What are the characteristics of surface water</u> Wetland has no surface water outlet.	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to rea degradtion the flooding and erosion? er outflows from the wetland?	Total for D 3: Record the rating on t NDS duce flooding and s points = 4	0 he first pr stream	age
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface wate Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly compared to the second sec	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to red degradtion te flooding and erosion? er outflows from the wetland? constricted, outlet.	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2	0 he first pr stream	age
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface wate Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly of Wetland is a flat depression whose outlet is a per	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to rea degradtion re flooding and erosion? er outflows from the wetland? constricted, outlet. manently flowing ditch.	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2 points = 1	0 he first pr stream	age
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface water Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly of wetland is a flat depression whose outlet is a per Wetland has an unconstricted, or slightly constrict permanently flowing	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to rea degradtion te flooding and erosion? er outflows from the wetland? constricted, outlet. manently flowing ditch. ted, surface outlet that is	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2 points = 1 points = 0	0 he first pr stream	age
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface water Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly constricted Wetland has an unconstricted, or slightly constricted Permanently flowing D 4.2 What is the depth of storage during the weel	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to rea degradtion re flooding and erosion? er outflows from the wetland? constricted, outlet. manently flowing ditch. ted, surface outlet that is t periods?	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2 points = 1 points = 0	0 he first pr stream Score:	age 4
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface wate Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly of Wetland has an unconstricted, or slightly constrict permanently flowing D 4.2 What is the depth of storage during the wetlands of ponding are 3ft or more above the surface	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to red degradtion the flooding and erosion? er outflows from the wetland? constricted, outlet. manently flowing ditch. ted, surface outlet that is t periods? ace or bottom of the outlet.	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2 points = 1 points = 0 points = 7	0 he first pr stream Score:	<i>age</i>
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface water Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly of Wetland has an unconstricted, or slightly constrict permanently flowing D 4.2 What is the depth of storage during the wetwork Warks of ponding are 3ft or more above the surfational surface water outlet is a store above the surfational surface water outlet is a permanently flowing	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to rea degradtion the flooding and erosion? er outflows from the wetland? constricted, outlet. manently flowing ditch. ted, surface outlet that is t periods? ace or bottom of the outlet. he surface or bottom of the outlet.	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2 points = 1 points = 0 points = 7 points = 5	0 he first pr stream Score:	age 4
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface water Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly constricted, or slightly constricted Wetland has an unconstricted, or slightly constricted permanently flowing D 4.2 What is the depth of storage during the wee Marks of ponding are 3ft or more above the surface Marks of ponding are between 2ft to <3ft from the marks of ponding are at least 0.5ft to <2ft from the boutlet.	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to read degradtion that the site functions to read degradtion the flooding and erosion? er outflows from the wetland? constricted, outlet. manently flowing ditch. ted, surface outlet that is t periods? acc or bottom of the outlet. the surface or bottom of the outlet. the surface or the bottom of the	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2 points = 1 points = 0 points = 7 points = 5 points = 3	0 he first pr stream	age
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface wate Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly of Wetland has an unconstricted, or slightly constrict permanently flowing D 4.2 What is the depth of storage during the wet Marks of ponding are 3ft or more above the surfact Marks of ponding are at least 0.5ft to <2ft from the soutlet.	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to read degradtion that the site functions to read degradtion the flooding and erosion? er outflows from the wetland? constricted, outlet. manently flowing ditch. ted, surface outlet that is t periods? acc or bottom of the outlet. the surface or the bottom of the surface or the bottom of the	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2 points = 1 points = 0 points = 7 points = 5 points = 3 points = 3	0 he first pr stream Score:	<i>age</i>
Rating of Value []] DEPRESSION Hydrologic Functions - Indicators D 4.0 Does the site have the potential to reduce D 4.1 What are the characteristics of surface wate Wetland has no surface water outlet. Wetland has an intermittently flowing, or highly of Wetland has an unconstricted, or slightly constrict permanently flowing D 4.2 What is the depth of storage during the wee Marks of ponding are 3ft or more above the surface Marks of ponding are at least 0.5ft to <2ft from the southet.	2-4 = H [] 1 = M [X] 0 = L IAL AND FLATS WETLA that the site functions to red degradtion re flooding and erosion? er outflows from the wetland? constricted, outlet. manently flowing ditch. ted, surface outlet that is t periods? ace or bottom of the outlet. he surface or the bottom of the surface or the bottom of the he surface that trap water.	Total for D 3: Record the rating on to NDS duce flooding and s points = 4 points = 2 points = 1 points = 0 points = 7 points = 5 points = 3 points = 3 points = 1	0 he first pr stream Score:	<i>age</i>

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Vetland name or number: Wetland A	1 1. i. i. i			
D 4.3 What is the contribution of the	wetland to storage in the watersned:	points - 5		
The area of the basin is less than 10 th	mes the area of the unit	points = 3		
The area of the basin is 10 to 100 time	o times the area of the unit	points = 0		
The area of the basin is more than 100	o times the area of the unit	points = 5	Score	5
Entire wetland is in the Flats class		Tratel for D 4	14	-
		Total for D 4:	14	_
Rating of Site Potential	[X] 12-16 = H (] 6-11 = M [] 0-5 = L	Record the rating on t	he first p	ag
D 5.0 Does the landscape have the p	potential to support hydrologic functions of t	the site?		
D 5.1 Does the wetland unit receive s	tormwater discharges?	· · · · · · · · · · · · · · · · · · ·		
Yes		points = 1		_
No		points = 0	Score:	1
D 5.2 Is > 10% of the area within 150 f	ft of the wetland in land uses that generate exce	ss runoff?		
Yes		points = 1		
No		points = 0	Score:	1
D 5.3 Is more than 25% of the contrib	outing basin of the wetland covered with intensiv	ve human land uses?		
		1.1.1.1		
Yes		points = 1		
Yes No		points = 1 points = 0	Score:	1
Yes No		points = 1 points = 0 Total for D 5:	Score: 3	1
Yes No Rating of Landscape Potential	[X] 3 = H [] 1-2 = M [] 0 = L	points = 1 points = 0 Total for D 5: Record the rating on t	Score: 3 he first p	1
Yes No Rating of Landscape Potential	[X] 3 = H [] 1-2 = M [] 0 = L	points = 1 points = 0 Total for D 5: Record the rating on t	Score: 3 he first p	1
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society?	points = 1 points = 0 Total for D 5: Record the rating on t	Score: 3 he first p	1 •ag
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions J D 6.1 Is the wetland in a landscape th	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems?	points = 1 points = 0 Total for D 5: Record the rating on t	Score: 3 he first p	1
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions J D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland.	points = 1 points = 0 Total for D 5: Record the rating on t points = 2	Score: 3 he first p	1 bag
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient.	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1	Score: 3 he first p	1 Dag
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul Flooding from groundwater is an issue	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient. e in the basin.	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1 points = 1	Score: 3 he first p	1 bag
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions (D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul Flooding from groundwater is an issue The existing or potential outflow from	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient. e in the basin. the wetland is so constrained that water	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1 points = 1 points = 0	Score: 3 he first p	1 bag
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul Flooding from groundwater is an issue The existing or potential outflow from cannot reach areas that flood.	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient. e in the basin. the wetland is so constrained that water	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1 points = 1 points = 1 points = 0	Score: 3 he first p	1 bag
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul Flooding from groundwater is an issue The existing or potential outflow from cannot reach areas that flood. There are no problems with flooding of	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient. e in the basin. n the wetland is so constrained that water downstream of the wetland.	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1 points = 1 points = 0 points = 0	Score: 3 he first p Score:	1
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul Flooding from groundwater is an issue The existing or potential outflow from cannot reach areas that flood. There are no problems with flooding o D 6.2 Has the site been identified as i	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? Int has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient. e in the basin. In the wetland is so constrained that water downstream of the wetland. Important for flood storage or flood conveyance	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1 points = 1 points = 0 points = 0	Score: 3 he first p Score: ol plan?	1 0 ag
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul Flooding from groundwater is an issue The existing or potential outflow from cannot reach areas that flood. There are no problems with flooding of D 6.2 Has the site been identified as i Yes	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient. e in the basin. n the wetland is so constrained that water downstream of the wetland. mportant for flood storage or flood conveyance	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1 points = 1 points = 0 points = 0 in a regional flood contr points = 2	Score: 3 he first p Score: ol plan?	1 0 0
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul Flooding from groundwater is an issue The existing or potential outflow from cannot reach areas that flood. There are no problems with flooding o D 6.2 Has the site been identified as i Yes No	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient. e in the basin. In the wetland is so constrained that water downstream of the wetland. mportant for flood storage or flood conveyance	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1 points = 1 points = 0 points = 0 in a regional flood contr points = 2 points = 2 points = 0	Score: 3 he first p Score: 0 plan? Score:	1 0 0
Yes No Rating of Landscape Potential D 6.0 Are the hydrologic functions p D 6.1 Is the wetland in a landscape th Flooding occurs in a sub-basin that is Surface flooding problems are in a sul Flooding from groundwater is an issue The existing or potential outflow from cannot reach areas that flood. There are no problems with flooding of D 6.2 Has the site been identified as i Yes No	[X] 3 = H [] 1-2 = M [] 0 = L provided by the site valuable to society? nat has flooding problems? immediately down-gradient of the wetland. b-basin farther down-gradient. e in the basin. In the wetland is so constrained that water downstream of the wetland. mportant for flood storage or flood conveyance	points = 1 points = 0 Total for D 5: Record the rating on t points = 2 points = 1 points = 1 points = 0 points = 0 in a regional flood contr points = 2 points = 0 Total for D 6:	Score: 3 he first p Score: ol plan? Score: 2	1 0 0

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	HABITAT FUNCTIONS	
These questions apply to wet	tlands of all HGM classes - Indicators that the site	functions to
	provide important habitat	
H 1.0 Does the wetland have the pote	ntial to provide habitat for many species?	
H 1.1 What is the structure of the plant	community?	
Aquatic Bed		
✓ Emergent		
Scrub-shrub		
✓ Forested		
Multiple strata within the Forested cl	lass (canopy, sub-canopy, shrubs,	
herbaceous, moss/ground cover)		
4 structures or more	points = 4	
3 structures	points = 2	
2 structures	points = 1	
1 structure	points = 0	
No structures present	points = 0	Score: 4
H 1.2 What are the hydroperiods that m	neet the size thresholds in the wetland?	
Permanently flooded or inundated		
Seasonally flooded or inundated		
Occasionally flooded or inundated		
✓ Saturated only		
Permanently flowing stream or river i	in, or adjacent to, the wetland	
Seasonally flowing stream in, or adja	cent to, the wetland	
Lake Fringe wetland		
Freshwater Tidal wetland		
4 or more types present	points = 3	
3 types present or Lake Fringe / Freshwa	ater Tidal Fringe points = 2	
2 types present	points = 1	
1 type present	points = 0	
None present	points = 0	Score: 2
H 1.3 What is the richness of the plant s	pecies in the wetland?	
>19 species	points = 2	
5-19 species	$p_{\text{output}} = 1$	
<5 species	points = 0	Score: 2

B/2024, 11:53 Wetland Rating Summary			
/etland name or number: Wetland A			-
H 1.4 What is the interspersion of habitats?			
High	points = 3		
Moderate	points = 2		
Low	points = 1		
None	points = 0	Score:	3
H 1.5 What are the special habitat features in the wetland?			
Large, downed, woody debris within the wetland (>4in diameter and 6ft long).			
Standing snags (dbh >4in) within the wetland			
Undercut banks are present for at least 6.6ft (2m) and/or overhanging plants			
xtend at least 3.3ft (1m) over open water or a stream (or ditch) in, or contiguous			
vith the wetland, for at least 33ft (10m)			
Stable steep banks of fine material that might be used by beaver or muskrat for			
lenning (>30 degree slope) OR signs of recent beaver activity are present (cut shrubs			
r trees that have not yet weathered where wood is exposed)			
At least 0.25ac of thin-stemmed persistent plants or woody branches are present			
n areas that are permanently or seasonally inundated (structures for egg-laying by			
Imprimitancy	8		
Invasive planes cover less man 25% of the wettand area in every statiant of planes			
5 habitats selected	points = 6		
5 habitats selected	points = 5		
4 habitats selected	points = 4		
3 habitats selected	points = 3		
2 habitats selected	points = 2		
1 habitat selected	points = 1	~	
No habitats selected	points = 0	Score:	1
	Total for H 1:	12	
Potting of Site Potential $[115-18 = H[X]7-14 = M[]0-6 =]$	Record the rating on	the first p	age
			2
1 2.0 Does the landscape have the potential to support habitat functions of the sit	ier		_
H 2.1 What is the percentage of accessible habitat within 1km of the wetland?			
>33% of 1km Polygon	points = 3		
20-33% of 1km Polygon	points = 2		
10-19% of 1km Polygon	points = 1		
<10% of 1km Polygon	points = 0	Score:	0
H 2.2 What is the percentage of total habitat in a 1km polygon around the wetland?			
The many or percentage of the internet in a company generation of the internet			
	points $= 3$		
Total habitat is >50% of the Polygon			
Total habitat is >50% of the Polygon Total habitat is 10-50% of the Polygon and in 1-3 patches	points = 2		
Total habitat is >50% of the Polygon Total habitat is 10-50% of the Polygon and in 1-3 patches Total habitat is 10-50% of the Polygon and in >3 patches	points = 2 points = 1	_	

H 2.3 What is the land use intensity in	the 1km polygon?		
50% of the Polygon is high intensity la	nd use	points $= -2$	
<50% of the Polygon is high intensity	land use	points = 0	Score:
		Total for H 2:	1
Rating of Landscape Potential	[] 4-6 = H [X] 1-3 = M [] 0 = L	Record the rating on t	the first p
H 3.0 is the habitat provided by the	site valuable to society?		
H 3.1 Does the site provide habitat for	species valued in laws, regulations, or policies	2	
Aspen Stands			
Biodiversity Areas and Corridors			
Herbaceous Balds			
Old-growth/Mature Forests			
Oregon White Oak			
Riparian			
Westside Prarie			
Fresh Deepwater			
Instream			
Nearshore (Coastal, Open Coast, Pu	iget Sound)		
Caves	J		
Cliffs			
Spags and Logs			
Talus			
The following criteria automatically s	core 2 points:		
./ The wetland provides habitat for Th	reatened or Endangered species		
The wetland is mapped as a location	n for an individual WDFW priority species		
The wetland is a Wetland of High C	Diservation Value		
The wetland has been categorized a	as an important babitat site in a local plan		
The wetland has 3 or more WDFW prio	rity habitats within 100m, or meets the	points = 2	
criteria for societal value			
The site has 1 or 2 WDFW priority habit	tats within 100m	points = 1	
The site does not meet any of the criter	ria for societal value	points = 0	Score:
		Total for H 3:	2
Rating of Value	[X] 2 = H [] 1 = M [] 0 = L	Record the rating on ti	he first po
			a n

CATEGORIZATION BASED ON SPECIAL CHA	RACTERISTICS
SC 1.0 Estuarine Wetlands	
SC 1.1 Does the wetland meet all of the following criteria for Estuarine wetlands? The dominant water regime is tidal	
The wetland is vegetated	
The water salinity is greater than 0.5 ppt	2
Yes - Go to SC 1.2	
No - Not an Estuarine Wetland	Result: Not an Estuarine Wetland
SC 1.2 Is the wetland within a National Wildlife Refuge, National Park, National Estu-	ary Reserve, Natural Area Preserve,
State Park or Educational. Environmental, or Scientific Reserve designated under WA	C 332-30-151?
Yes - Category Estuarine Wetland	B
No - Go to SC 1.3	Kesult:
SC 1.3 Is the wetland unit at least 1 ac in size and meets at least two of the following The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, since the second	three conditions? grazing), and
SC 1.3 <u>Is the wetland unit at least 1ac in size and meets at least two of the following</u> The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, that less than 10% cover of non-native plant species.	<u>, three conditions?</u> grazing), and
SC 1.3 Is the wetland unit at least 1ac in size and meets at least two of the following The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, of has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for	<u>, three conditions?</u> grazing), and rest, or un-
SC 1.3 Is the wetland unit at least 1 ac in size and meets at least two of the following The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, or has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland	three conditions? grazing), and rest, or un-
SC 1.3 Is the wetland unit at least 1ac in size and meets at least two of the following The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, or has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland The wetland has at least two of the following features: tidal channels, depression	<u>, three conditions?</u> grazing), and rest, or un- s with open
SC 1.3 <u>Is the wetland unit at least 1ac in size and meets at least two of the following</u> The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, or has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland The wetland has at least two of the following features: tidal channels, depression water, or contiguous freshwater wetlands.	<u>, three conditions?</u> grazing), and rest, or un- is with open
SC 1.3 <u>Is the wetland unit at least 1ac in size and meets at least two of the following</u> The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, or has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland The wetland has at least two of the following features: tidal channels, depression water, or contiguous freshwater wetlands. Yes - Category Estuarine Wetland	<u>, three conditions?</u> grazing), and rest, or un- s with open
SC 1.3 Is the wetland unit at least 1ac in size and meets at least two of the following The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, or has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland The wetland has at least two of the following features: tidal channels, depression water, or contiguous freshwater wetlands. Yes - Category I Estuarine Wetland No - Category II Estuarine Wetland	<u>(three conditions?</u> grazing), and rest, or un- is with open Result:
SC 1.3 Is the wetland unit at least 1ac in size and meets at least two of the following The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, or has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland The wetland has at least two of the following features: tidal channels, depression water, or contiguous freshwater wetlands. Yes - Category I Estuarine Wetland No - Category II Estuarine Wetland SC 2.0 Wetlands of High Conservation Value	<u>, three conditions?</u> grazing), and rest, or un- s with open Result:
SC 1.3 is the wetland unit at least 1ac in size and meets at least two of the following The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, or has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland The wetland has at least two of the following features: tidal channels, depression water, or contiguous freshwater wetlands. Yes - Category I Estuarine Wetland SC 2.0 Wetlands of High Conservation Value SC 2.1 Does the wetland overlap with any known or historical rare plant or rare & hithe WNHP Data Explorer?	grazing), and rest, or un- is with open Result:
SC 1.3 <u>Is the wetland unit at least 1ac in size and meets at least two of the following</u> The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, o has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland The wetland has at least two of the following features: tidal channels, depression water, or contiguous freshwater wetlands. Yes - Category I Estuarine Wetland SC 2.0 Wetlands of High Conservation Value SC 2.1 Does the wetland overlap with any known or historical rare plant or rare & hi the WNHP Data Explorer? Yes - Category I Wetland of High Conservation Value	n three conditions? grazing), and rest, or un- as with open Result: igh-quality ecosystem polygons on
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SC 1.3 <u>is the wetland unit at least 1ac in size and meets at least two of the following</u> The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, of has less than 10% cover of non-native plant species. At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, for grazed or un-mowed grassland The wetland has at least two of the following features: tidal channels, depression water, or contiguous freshwater wetland No - Category I Estuarine Wetland SC 2.0 Wetlands of High Conservation Value SC 2.1 Does the wetland overlap with any known or historical rare plant or rare & hi the WNHP Data Explorer? Yes - Category I Wetland of High Conservation Value No - Go to SC 2.2 SC 2.2 Does the wetland have a rare plant species, rare plant community, or high-ge may qualify the site as a WHCV? Yes - Category I Wetland of High Conservation Value	In three conditions? In three conditions? In three conditions? In the second
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and the second	band Rating Summary
Vetland name or number: Wetland A 5C 3.0 Bogs	
SC 3.1 Does an area within the wetland unit have organic soil ho	prizons, either peats or mucks, that compose 16in or
more of the first 32in of the soil profile?	
Yes - Go to SC 3.3	
No - Go to SC 3.2	Result: Go to SC 3.3
SC 3.2 Does an area within the wetland unit have organic soils, e bedrock, or an impermeable hardpan such as clay or volcanic as	either peats or mucks, that are less than 16 in deep over b. or that are floating on top of a lake or pond?
Yes - Go to SC 3,3	
No - Not a Bog Wetland	Result:
SC 3.3 Does an area with peats or mucks have more than 70% co of plant species listed in the table provided in the instructions?	over of mosses at ground level, AND at least 30% cover
Yes - Category I Bog Wetland	
	Result: Go to SC 3.4
canopy? res - Category I 80g Wetland	ans provide more than 30% of the cover under the
	Result: Not a Bog
NO - NOT a Bog Wetland	
	Wetland
C 4.0 Forested Wetlands	Wetland
C 4.0 Forested Wetlands	Wetland t that meets one of the following criteria?
C 4.0 Forested Wetlands SC 4.1 Does the wetland have at least 1 contiguous acre of fores Old-growth forests	Wetland t that meets one of the following criteria?
C 4.0 Forested Wetlands SC 4.1 Does the wetland have at least 1 contiguous acre of fores Old-growth forests Mature forests	Wetland t that meets one of the following criteria?
C 4.0 Forested Wetlands SC 4.1 Does the wetland have at least 1 contiguous acre of fores Old-growth forests Mature forests //es - Category Forested Wetland	Wetland t that meets one of the following criteria?
C 4.0 Forested Wetlands SC 4.1 Does the wetland have at least 1 contiguous acre of fores Old-growth forests Mature forests Yes - Category Forested Wetland	Wetland t that meets one of the following criteria? Result: Not a Forested
C 4.0 Forested Wetlands SC 4.1 Does the wetland have at least 1 contiguous acre of fores Old-growth forests Mature forests /es - Category Forested Wetland No - Not a Forested Wetland	Wetland t that meets one of the following criteria? Result: Not a Forested Wetland
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	a di di se di se di
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SC 5.1 Coastal Lagoons: Does the wetland meet all of the following criteria of a wetland in a co	bastal lagoon?
The wetland lies in a depression adjacent to marine waters that is wholly or partially	
eparated from marine waters by sandbanks, graver banks, siningle, of focks	
Ine depression in which the wettand is located contains political water that is same of reckich />0.5 ppt) during most of the year in at least a portion of the open water area (measur	ed
ear the bottom)	
The lagoon retains some of its surface water at low tide during spring tides	
fes - Go to SC 5.2	
No - Not a Coastal Lagoon Wetland	Result: Go to SC 5.2
SC 5.2 Does the wetland meet all of the following three conditions?	
The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), ar	nd
as less than 20% cover of aggressive, opportunistic plant species (see list of species).	
At least 75% of the landward edge of the wetland has a 100ft buffer of shrub, forest, or un-	
razed or un-mowed grassland.	
the wetland is larger than 0.10ac (4350 sqft)	
Yes - Category Coastal Lagoon	
es - carcyory - courd, angle an	Result: Category II
No - Category II Coastal Lagoon	Coastal Lagoon
5C 6.0 Interdunal Wetlands	
SC 6.1 is the wetland west of the 1889 line (also called the Western Boundary of Upland Owne	rship WBUO)?
Yes - Go to SC 6.2	
No - Not an Interdunal Wetland	Result: Not an
	Interdunal Wetland
SC 6.2 Is the wetland 1ac or larger in size, or a mosaic that is 1ac or larger in size?	
Wetland is larger than Tac In size - Go to SC 0.3	
	Result:
FG 6 3 Deep the working score 8 or 9 points for the babitat functions?	
SC 6.5 DOES UP WEREIN SLOTE O OF 3 PAINTS TOT THE HERMAN DURSTAND	
Yes - Category I Interdunal Wetland	
No - Category II Interdunal Wetland	Result:
SC 6.4 is the wetland unit between 0.1ac and 1ac, or in a mosaic of wetlands that is between 0	1ac and 1ac in size?
Yes - Category III Interdunal Wetland	
tes category in internation to the second	Result:
s - Category III Interdunal Wetland	, 102 GIN 102 111 2165

Category of wetland based on Special Characteristics			
If you answered N	o for all types, enter "N	lot Applicable" on Summary Form	Final Category: Category II

21/06/2024, 11:53

Weband Rating Summary

https://secureaccess.wa.gov/ecy/wetjandsratingtool/WATOR/WetlandSummary?WetlandId=1622&WetjandName=Wetland A&WetlandType=Depres... 13/13

Appendix F: Site Photo Log



Sims Way Stornwater Facility Port of Port Townsend Jefferson County, Washington



Sims Way Stormwater Facility Port of Port Townsend Jefferson County, Washington



Sims Way Stornwater Facility Port of Port Townsend Jefferson County, Washington











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