

Crescent Environmental PLLC Environmental Consulting

Revised Wetland Delineation of Parcel 972600211 City of Port Townsend, Washington.

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Carla Sebastian, Anderson Homes

At your request and consistent with our agreed scope-of-work dated 4/15/2021, I performed a Level II wetland delineation and functional assessment for parcel 972600211, City of Port Townsend, Washington (Figure 1).

The subject parcel is located at 1790 31st Street, Port Townsend, Washington. (Figure 1).

The parcel is known as Lot 3 of the O'Meara Short Plat and is approximately 0.115 acres in area (Figure 2).

Site Characteristics

The subject parcel is situated on a flat to gently sloping terraced outwash and till plain bordering the northern slope of the Olympic Mountains. A palustrine scrub-shrub wetland associated with a drainage known as Addie's ditch, is located adjacent to the western side of the parcel. (Figure 2).

The elevation of the subject parcel is approximately 240 feet above mean sea level (m.s.l.) based on LiDAR bare earth elevation data using the National Vertical Datum of 1988 (NAVD88) (Figure 3).

Precipitation is seasonally variable, characterized by wet mild winters and relatively dry, cool, summers. Annual average precipitation (1981-2010) is 22.9 inches primarily occurring as rainfall.

Native upland vegetation on the parcels is a mixed second-growth conifer-dominated forest composed of Douglas fir, Western red cedar, Big Leaf Maple, Red alder and Madrone. The understory vegetation is dominated by plant species such as Salal, Swordfern, Snowberry, Rhododendron and Red alder.

I visited the site on April 21, 2021, during the growing season and walked the parcel boundaries and adjacent areas. I excavated shallow soil pits to 16 inches to evaluate soil color, texture, and shallow groundwater characteristics and recorded vegetation communities consistent with methodology published by the U.S. Army Corps of Engineers Western Valleys and Mountains Regional Supplement to the Federal Wetland Delineation Manual adopted by Jefferson County (USACE, 2010).

I collected vegetation, soils, and hydrology data in two plots, one located within a wetland area and one located in an adjacent upland area. Plot locations are shown on Figure 11 and Plot Data Forms are included in Appendix A. Additionally, prior to visiting the site I reviewed the following information:

- 1. LiDAR Topography.
- 2. NRCS On-line soil survey (NRCS, 2020).
- 3. Jefferson County Critical Areas On-Line Mapping.
- 4. National Wetlands Inventory Mapping (NWI, USFWS 2021).
- 5. Aerial photographs from 1990, 2005, 2009, 2011, 2017, and 2019.
- 6. Wetland Delineation from 2002 performed by Olympic Wetland Resources, Inc.

The NRCS On-Line Soil Survey indicates the soils in the parcel area are mapped as Swantown, and Tukey gravelly loam (non-hydric) (Figure 4).

The National Wetlands Inventory (NWI) mapping shows no wetlands on or adjacent to parcel 972600211.

Vegetation height (ft.) distribution on and adjacent to the subject parcel is shown on Figure 5.

Aerial photographs (Figures 6-11) show the vegetation and site development history on and adjacent to the subject parcel.

On-Site Observations

The primary wetland area observed on the west side of parcel 972600211 is a palustrine scrubshrub wetland associated with the shallow drainage of Addie's Ditch. Addie's Ditch flows under 31st Street from the south to the north via a culvert.

Upland areas, including the subject parcel east of the Addie's Ditch wetland are dominated by Douglas fir, Western Red Cedar (*Thuja plicata*), Madrone (*Arbutus menziesii*), Salal (*Gaultheria shallon*) and Swordfern (*Polystichum munitum*).

The boundary between the Addie's Ditch wetland and adjacent upland is easily defined by a topographic break in slope and an abrupt transition from a hydrophytic plant community to an upland plant community.

In order to determine the location of the upland-wetland boundary on-site, I documented vegetation, soils and hydrology observations at two plots.

Plot 1 is located in the Addie's Ditch wetland west of the subject parcel and Plot 2 is located in an upland area also located west of the subject.

Data collected at these plots are shown in Appendix A and the delineated wetland area is shown as a number of sequentially numbered points on Figure 10.

I did observe wetland boundary flags on the wetland-upland boundary that I assume were placed during the 2002 wetland delineation by Olympic Wetland Resources, Inc. I agree with the placement of the 2002 wetland delineation that I observed on April 21, 2021.

Plot 1 (Wetland)

Plot 1 is located in a wetland area on the west side of the subject parcel (Figure 11) (Appendix C, Photograph 2).

Vegetation at Plot 1 was dominated by hydrophytic vegetation including Scouler's willow (*Salix scouleriana*), hardhack spirea (*Spirea douglassii*), Nootka rose (*Rosa nutkana*), Slough sedge (*Carex obnupta*), Water parsley (*Oenanthe sarmentosa*), and Soft rush (*Juncus effusus*).

Soils at Plot 1 consisted of 8 inches of black (10YR 2/1) mucky silt loam, over 8 inches of Very Dark Grayish Brown 10 YR 3/2 sandy silt with many medium 2.5 YR 3/3 dark reddish brown mottles.

The soil profile at Plot 1 was saturated to the soil surface and a shallow water table was observed within 8 inches of the soil surface.

Site conditions observed at Plot 1 indicate the positive presence of wetland parameters.

Plot 2 (Upland)

Plot 2 is located approximately 50 feet east of Plot 1 (Figure 12.)

The plant community at Plot 2 is dominated by an 100% cover of upland species including Douglas fir (*Psuedotsuga menziesii*), Salal (*Gaultheria shallon*) and Sword fern (*Polystichum munitum*).

Soils at Plot 2 consisted of Dark Brown (10YR 3/3) sandy gravelly loam. (Note: *soil color nomenclature follows Munsell Soil Color Chart standards* (Munsell Color, 2000).

The soil profile at Plot 2 was composed of brown gravelly sandy loam and dry to the surface on April 21, 2021. There was no evidence of wetland hydrology at Plot 2 (e.g., soil saturation, shallow water table, water stained leaves, drift deposits, and soil cracking).

No wetland parameters (plants, soils and hydrology) are satisfied at Plot 2, therefore Plot 2 is located in an upland location.

Wetland Delineation

Based on previous wetland delineations (Olympic Wetland Resources Inc., 2002, 2005), mapping and on-site investigation of plants, soils and hydrology within and adjacent to the parcel boundaries, one wetland area was delineated adjacent to the west of parcel 972600211.

This wetland is classified as an, palustrine scrub-shrub wetland, using the Cowardin

classification system (Cowardin, et al., 1979), based on the presence of hydrophytic vegetation, hydric soils, and observations of shallow surface inundation and/or saturation of the soil profile in the upper 16 inches.

The Hydrogeomorphic Wetland Class (HGM) for this wetland would be a "depressional flow through" wetland, because it has a gradient of 0-1%, uni-directional water flow, and seasonal inundation and/or ponding.

Wetland boundaries were staked and flagged in the field and sequentially numbered from south to north and the locations mapped using an Arrow Gold real-time kinematic global positioning system (RTK-GPS) connected to the Washington State Reference Network (WSRN) to access real-time positioning corrections. Wetland boundaries were mapped in two-dimensional (x, y) space using U.S. Feet in the NAD83 datum using the State Plane Washington North projection with an accuracy of approximately +/- 5 cm Root Mean Square Error (RMSE).

The wetland boundary adjacent to the subject parcel are staked approximately every 50 feet with 4-foot tall wood surveyor stakes and flagging. Plot locations are marked in the field with 4-foot tall wood surveyor stakes and flags with plot labels.

Wetland Functional Assessment

Wetlands delineated adjacent to the parcel were evaluated using the methods published by the Washington Department of Ecology (WDOE, 2015) "Washington State Wetland Rating System for Western Washington". The assessment forms are presented in Appendix B.

Based on the WDOE Western Washington Wetland Rating System, the wetland present on the parcel would be designated as Class II wetland based on function. The Addie's Ditch wetland scored High on Habitat Functions. The City of Port Townsend Code designates a buffer distance of 225 ft. for Class II wetlands that rate a High for Habitat Function, and Moderate Impact for residential development.

Wetland Classification

The palustrine, scrub-shrub wetland identified adjacent to the west of the subject parcel is typed as a Class II wetland by the City of Port Townsend County Code because it scored 22 points in the functional rating (e.g., rates "High" for habitat function). (See Functional Assessment, Appendix B).

Upland Classification

Areas not mapped as wetland in Figure 10 are classified as upland sites.

Critical Areas Buffers

The 225-foot wetland buffer required by the City of Port Townsend Code covers the entire subject property Figure 13.

Construction of a single family residential structure will result in a 0.098-acre reduction in mature tree and shrub vegetation within the wetland buffer from existing conditions.

Because the 225-foot wetland buffer covers the entire subject parcel, the proponent is requesting that the City of Port Townsend allow for buffer reduction along the western and northern parcel boundary to a maximum width of 140 feet along the southern boundary and a width of 55 feet where the buffer intersects the building envelope proposed for the subject property (Figure 12) per the City of Port Townsend Critical Areas code:

Section 19.05.110 Critical Area 5-Wetlands, G.5. states:

"5. Reduced Buffer Widths. The director may reduce the standard buffer width on a case-by-case basis to a width of no fewer than 25 feet when the director determines that:

a. No direct, indirect, short-term, or long-term adverse impacts to regulated wetlands will result from the proposed development activity; or

b. The site is extensively vegetated and has less than 15 percent slopes; or

c. The project contains provisions to enhance buffers using native vegetation which will provide additional protection for the wetland's functions and values."

All three criteria listed above will be met by this project.

There will be no direct, indirect short or long-term adverse impacts to the regulated wetland as a result of this development activity.

The site is currently extensively vegetated and has less than 15 percent slope,

The project contains provisions to restore and enhance buffers using native vegetation which will provide additional protection for the wetland's functions and values

Following completion of the single family residence, wetland buffer restoration will be implemented along the western and northern parcel boundaries including:

Native shrub plantings to increase plant density, provide screening from the residence, and to increase food availability for birds and wildlife adjacent to the wetland.

The following shrub species are recommended to be planted within the buffer: Mountain ash- (Sorbus scopulina) Oregon ash (Fraxinus latifolia) Douglas fir- (Pseudotsuga mensiesii) Madrone (Arbutus menziesii) Big Leaf Maple (Acer macrophyllum) Oceanspray (Holodiscus discolor)

Installation of bird/bat nest boxes.

Wetland Buffer Restoration and Mitigation Actions

Construction of a single-family residential structure on the subject parcel will result in a reduction within the outer edge of the wetland buffer of 0.098 acre of mature tree and shrub vegetation.

Port Townsend Critical Areas Code (PTMC 19.05.110(I) requires a Mitigation and Monitoring Plan when unavoidable impacts to a wetland buffer occur. Below are the requirements of the Mitigation and Monitoring Plan:

"Wetland Mitigation/Compensation Plan Requirements. When wetland alteration is permitted by this chapter, a mitigation plan shall be required to describe the methods the applicant will use to minimize impacts to wetland functions and values. A detailed mitigation plan shall be approved by the director prior to any development activity occurring on a lot upon which wetland or wetland buffer alteration, restoration, creation or enhancement is proposed. The mitigation plan shall be prepared by a qualified (wetlands) critical area consultant using accepted methodologies, shall include information as required by the director, and shall:

1. Include a baseline study that quantifies the existing functions and values of the wetland, the function and values that will be lost due to compensation, and the functions and values of the wetland to be created, restored or enhanced; and

2. Specify how functions and values will be preserved or replaced; and how impacts will be avoided, minimized or compensated for; and

3. Establish goals and objectives for the mitigation plan; and

4. Specify within the mitigation plan written specifications for grading, sedimentation and erosion control, revegetation, hydraulic analysis, staging of construction areas, appropriate diagrams and drawings, and recommended construction practices; and

5. Specify quantified criteria for monitoring the mitigated area on a long-term basis to determine whether the goals and objectives of the project have been met; and

6. Include a contingency plan specifying what corrective actions will be taken should the mitigation not be successful; and

7. Include provisions for maintenance bonding or other security acceptable to the director to assure that work is completed in accordance with the mitigation plan and that restoration or rehabilitation is performed in accordance with the contingency plan if mitigation fails within five

years of implementation.

The reduction of vegetation within the outer buffer area will result in the following reductions to the functions and values of the buffer:

- 1. Reduction in the density of vegetation.
- 2. Reduction in the structural diversity of existing vegetation (e.g., loss of mature conifer trees).
- 3. Reduction in available forage opportunity particularly for birds.
- 4. Reduction in available avian roosting and nesting habitat.

Mitigation actions to reduce the amount of wetland buffer functional impacts including:

- a. Minimizing the eastern and northern lot setback distances to place the structure as far away from the wetland edge as allowed under City of Port Townsend Critical Areas Codes.
- b. Screening of the wetland and buffer by re-establishing dense native vegetation along the northern and western sides of the parcel and building a wood fence to reduce noise and light levels.
- c. Lighting will be located so it points away from the wetland and buffer.
- d. Placement of bird and bat nest boxes long the outer edge of the wetland buffer.

SUMMARY

Remote review of available wetland mapping, historic aerial photography, and on-site investigation of the subject parcel for the purposes of wetland delineation indicates there is one regulatory wetland adjacent to the parcel boundaries.

On-site investigation determined that the vegetation community, soils and hydrology on the area adjacent to the west of parcel 972600211 meet the criteria for wetland characteristics published by the U.S. Army Corps of Engineers, Western Valleys and Mountains Regional Supplement to the Federal Wetland Delineation Manual adopted by Jefferson County.

No other wetland areas were observed on the subject parcel other than the areas identified on Figure 13.



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Limitations

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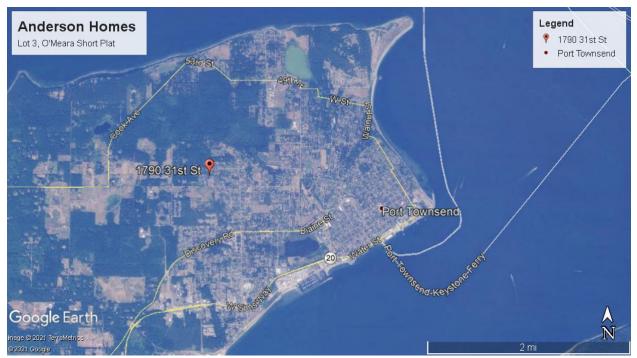


Figure 1: Location of Subject Parcel in Northeast Jefferson County, Washington.

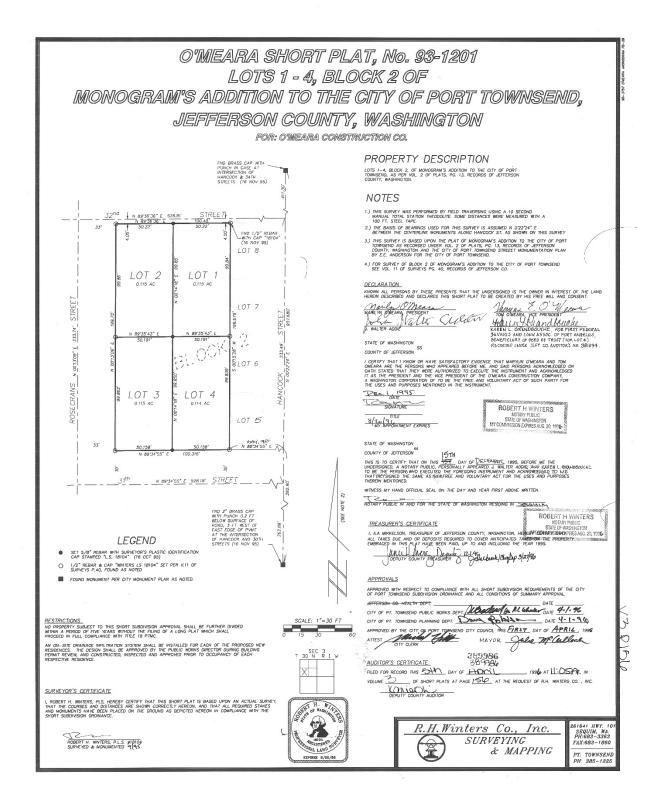
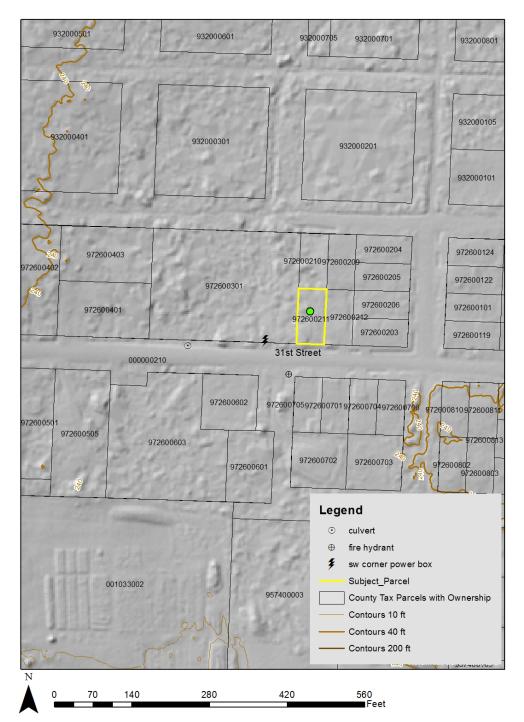
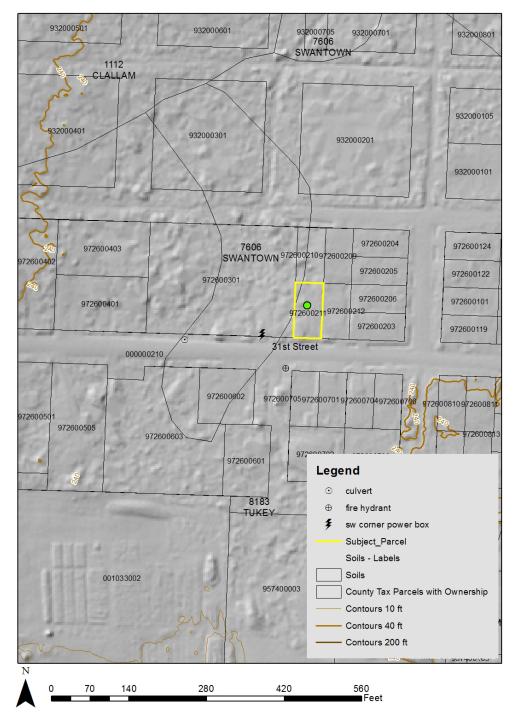


Figure 2: Auditor's survey map of the subject parcel.



Subject Parcel LiDAR Topography

Figure 3. Site topography based on LiDAR bare earth Digital Elevation Model.



Subject Parcel Soils Mapping (NRCS)

Figure 4: Natural Resources Conservation Service (NRCS) Soils Mapping for the Subject Parcel.

000000210 972600210 972600209 972600205 Legend culvert fire hydrant 4 sw corner power box O 972600211 Subject Parcel County Tax Parcels with Ownership Contours 10 ft Contours 40 ft - Contours 200 ft Vegetation Height (Feet) VALUE> <0 - 1 2 - 15 16 - 20 31st Street 21 - 30 31 - 40 41 - 50 51 - 60 61 - 70 71 - 80 81 - 90 91 - 100 101 - 110 111 - 120 121 - 130 972600602 000000210 131 - 140 972600705 141 - 150 151 - 160 161 - 170 171 - 180 181 - 190 191 - 200 201 - 210 211 - 220 221 - 230 972600603 972600601 231 - 240 2600702 241 - 250 > 250 25 50 100 150 200 Feet

Subject Parcel Vegetation Height (ft.)

Figure 5: LiDAR Vegetation Height (ft.) Mapping of the Subject Parcel.

Subject Parcel 1990 Orthophotography

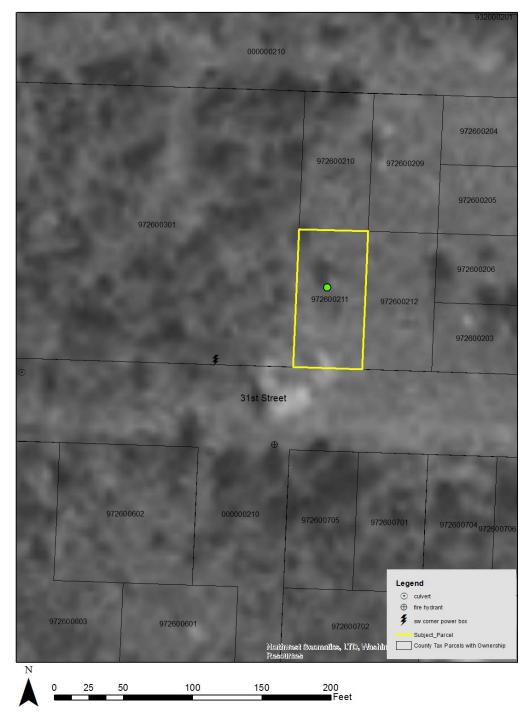


Figure 6: 1990 Ortho-photograph of the Subject Parcel,

Subject Parcel 2005 Orthophotography



Figure 7: 2005 Color Ortho-photograph of the Subject Parcel.

Subject Parcel 2009 Orthophotography



Figure 8: 2009 Orthophotograph of the Subject Parcel

Subject Parcel 2011 Orthophotography



Figure 9: 2011 Color Orthophotograph of the Subject Parcel



Subject Parcel 2017 Orthophotography

Figure 10: 2017 Orthophotograph of the Subject Parcel.

Subject Parcel 2019 Orthophotography



Figure 11: 2019 Orthophotograph of the Subject Parcel.

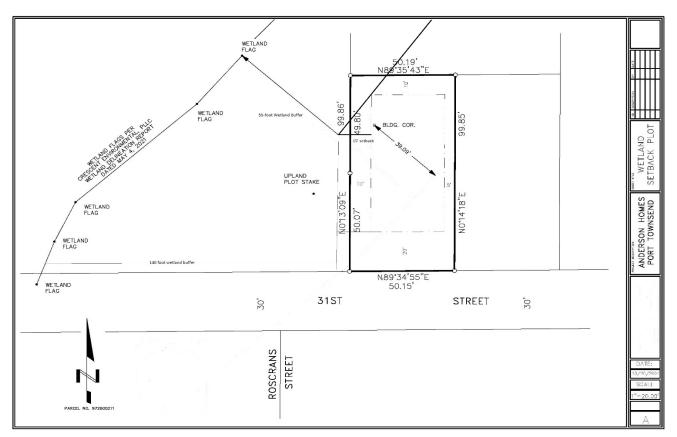
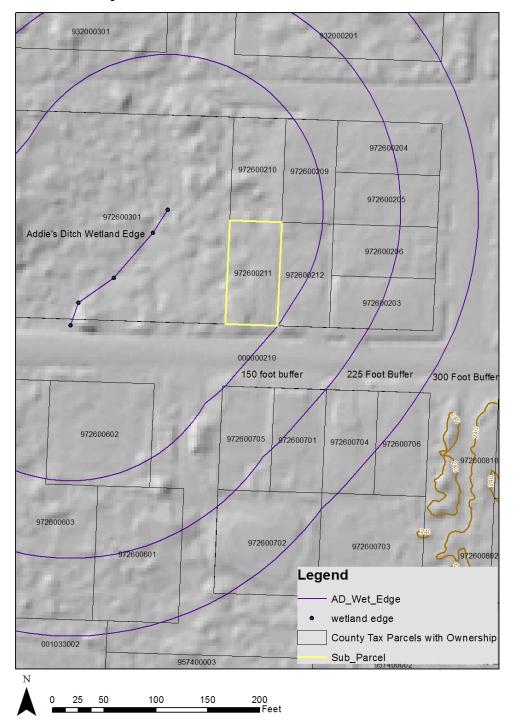


Figure 12: Field delineated wetland boundaries and buffers with proposed buffer reduction per City of Port Townsend Critical Areas Code 19.05.110, G, 5. Reduced buffer widths.



Subject Parcel Wetland Buffer Distances

Figure 13: Subject Parcel Wetland Buffer Distances for different levels of land use intensity.

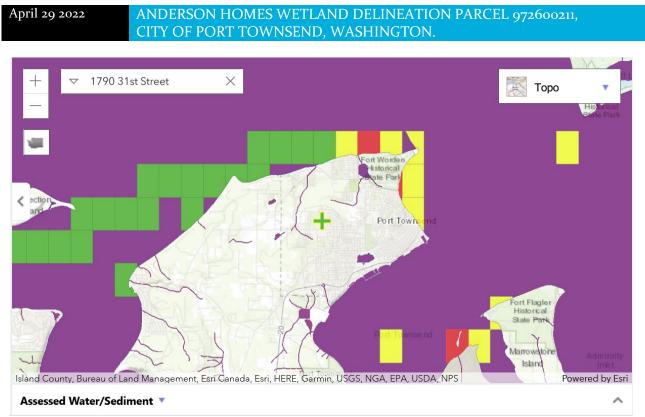
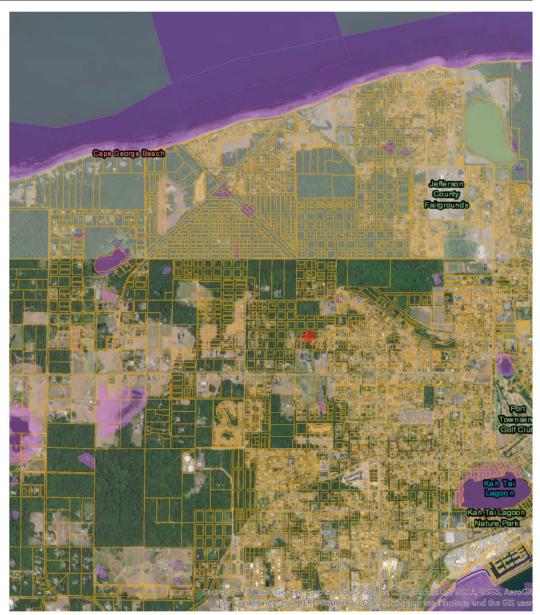


Figure 14: Screen shot of Water Quality Limited waters downstream of subject parcel (none).

https://geodataservices.wdfw.wa.gov/hp/phs/

PHS Report





Buffer radius: 150 Feet Report Date: 05/04/2021

1 of 2

5/4/2021, 12:20 PM

Figure 15: WDFW Priority Habitats within 225 feet of Addie's Ditch Wetland.

1 Km Circle Around Subject Parcel



Figure 16: 1 KM Circle surrounding subject parcel.

Subject Parcel Upstream Contributing Area (1.18 KM2)



Figure 17: Contributing Basin area to Subject Parcel.

Appendix A: Plot Data (Plants, Soils, Hydrology)

(Note: Plot locations are shown on Figure 12)

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

Project/Site:Anderson Homes-1790 31st Street	City/County: Port Townsen	d, Jefferson	Sampling Date:	4/21/2021
Applicant/Owner: Anderson Homes	5.4.7 52	State: WA	Sampling Point:	Plot 1
Investigator(s): David Parks, PWS#1623	Section, Township, Range: _	S3,T30N,R1W		
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, conve	x, none): <u>Concave</u>	Slop	oe (%): <u>1-5</u>
Subregion (LRR): Western Mountains and Valleys Lat: 4	8.1228 Lon	g: <u>-122.7977</u>	Datur	m: NAD 83
Soil Map Unit Name:Swantown		NWI classifica	ation: PSS	
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes <u>x</u> No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Norm	al Circumstances" pi	resent? Yes <u>x</u>	No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed	, explain any answer	s in Remarks.)	

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

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

VEGETATION - Use scientific names of plants.

· · ·	Abaaluta	Densinent	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		
				Number of Dominant Species That Are OBL, FACW, or FAC:5(A)
1				That Ale OBL, FACW, of FAC (A)
2				Total Number of Dominant
3				Species Across All Strata:6 (B)
4				Descent of Descinent Creation
		= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: 1.2 (A/B)
Sapling/Shrub Stratum (Plot size: 5 m)				Prevalence Index worksheet:
1. Salix scouleriana	50	<u>Y</u>	FAC	
2. Spirea douglassi	30	Y	FACW	Total % Cover of: Multiply by:
3. Rosa nutkana	20	Y	FACU	OBL species X 1 = 60
			20	FACW species <u>50</u> x 2 = <u>100</u>
4				FAC species x 3 =50
5				FACU species 20 x 4 = 80
Useb Oberture (Distained 1 M		= Total Co	ver	UPL species x 5 =
Herb Stratum (Plot size: 1 M)		N	535 of 1475 -	Column Totals: <u>180</u> (A) <u>390</u> (B)
1. Carex obnupta		<u> </u>		Coldmin Totals. 100 (A) 330 (B)
2. Oenanthe sarmentosa		<u> Y </u>		Prevalence Index = B/A =2.12
3. Phalaris arundinacea	20	Y	FACW	Hydrophytic Vegetation Indicators:
4				x 1 - Rapid Test for Hydrophytic Vegetation
5				x 2 - Dominance Test is >50%
6				x 3 - Prevalence Index is $\leq 3.0^{1}$
228				1
7 8				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				5 - Wetland Non-Vascular Plants ¹
9				Problematic Hydrophytic Vegetation ¹ (Explain)
10				1 <u> </u>
11	110			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	80	= Total Cov	/er	
Woody Vine Stratum (Plot size:)				
4. <u></u>				Hydrophytic
2				Vegetation
		= Total Cov	/er	Present? Yes X No
% Bare Ground in Herb Stratum	2			
Remarks:				
US Army Corps of Engineers				Western Mountains, Valleys, and Coast - Version 2.0

Profile Dec	cription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators)
Depth	Matrix	to the depti		x Features		or committ		s interveror 5.7
(inches)	Color (moist)	%	Color (moist)		S Type ¹	Loc ²	Texture	Remarks
D-8"	10 YR 2/1						Mucky Silt L	
		· · · · ·	2 E VD 2/2				Sandy Silt L	
8-16"	10 YR 3/2		2.5 YR 3/3	60		M		
	< 1							
				•				
	51 s.							l id
				•···	·			
	-7 G			- 12				
Type: C=C	Concentration, D=Dep	letion RM=F	Reduced Matrix CS	S=Coverer	f or Coate	d Sand Gra	ains ² Lo	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic							ors for Problematic Hydric Soils ³ :
Histoso	(c) 2 C		Sandy Redox (S					m Muck (A10)
	pipedon (A2)	-	Stripped Matrix					d Parent Material (TF2)
	listic (A3)	-	Loamy Mucky M) (except	MLRA 1)		y Shallow Dark Surface (TF12)
110000000000000000000000000000000000000	en Sulfide (A4)	_	Loamy Gleyed	and a second second second			2 - 1745 C-184	ner (Explain in Remarks)
Deplete	ed Below Dark Surfac	e (A11)	Depleted Matrix	(F3)				
X Thick D	ark Surface (A12)	_	Redox Dark Su	rface (F6)			³ Indicate	ors of hydrophytic vegetation and
the second second second second	Mucky Mineral (S1)	-	_ Depleted Dark \$		7)			and hydrology must be present,
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			unle	ss disturbed or problematic.
Restrictive	Layer (if present):							
Туре:								
Depth (ir	nches):		_				Hydric Soi	I Present? Yes X No
	Water table observe	ed with 8" of s	soil surface.				I I Yune oor	
		ed with 8" of s	soil surface.					
YDROLC			soil surface.					
YDROLC	DGY			y)				ndary Indicators (2 or more required)
YDROLC Wetland Hy Primary Indi	DGY /drology Indicators:				es (B9) (e	xcept	<u>Seco</u>	
YDROLC Wetland Hy Primary Indi	DGY /drology Indicators: icators (minimum of c		<u>check all that appl</u>			xcept	<u>Seco</u>	ndary Indicators (2 or more required)
YDROLC Wetland Hy Primary Indi Surface High W	DGY /drology Indicators: icators (minimum of c water (A1) fater Table (A2)		<u>check all that appl</u>	ined Leave 1, 2, 4A, a		xcept	<u>Secc</u>	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 1
YDROLC Wetland Hy Primary Indi Surface X High W X Saturat	DGY /drology Indicators: icators (minimum of c water (A1) fater Table (A2) ion (A3)		<u>check all that appl</u> X Water-Stai	ined Leave 1, 2, 4A, a (B11)	und 4B)	xcept	<u>Secc</u>	ndary Indicators (2 or more required) Nater-Stained Leaves (B9) (MLRA 1, 1 4A, and 4B)
YDROLC Wetland Hy Primary Indi Surface X High W X Saturat X Water M	DGY /drology Indicators: icators (minimum of c water (A1) fater Table (A2) ion (A3)		<u>check all that appl</u> <u>X</u> Water-Stai MLRA Salt Crust	ined Leave 1, 2, 4A, a (B11) vertebrate	und 4B) s (B13)	xcept	<u>Secc</u>	ndary Indicators (2 or more required) Nater-Stained Leaves (B9) (MLRA 1 , 1 4A, and 4B) Drainage Patterns (B10)
YDROLC Wetland Hy Primary Indi Surface X High W X Saturat X Water I X Sedime	DGY vdrology Indicators: icators (minimum of co water (A1) vater Table (A2) ion (A3) varks (B1) ent Deposits (B2)		<u>check all that appl</u> <u>×</u> Water-Stai <u>MLRA</u> Salt Crust Aquatic Im Hydrogen	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo	and 4B) s (B13) dor (C1)		<u>Seco</u>	ndary Indicators (2 or more required) Nater-Stained Leaves (B9) (MLRA 1 , 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLC Wetland Hy Primary Indi Surface X High W X Saturat X Water N X Sedime X Drift De	DGY vdrology Indicators: icators (minimum of co water (A1) vater Table (A2) ion (A3) varks (B1) ent Deposits (B2)		<u>check all that appl</u> <u>×</u> Water-Stai <u>MLRA</u> Salt Crust Aquatic Im Hydrogen	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo Rhizosphe	and 4B) s (B13) dor (C1) res along	Living Roo	<u>Seco</u> V []]	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1 , 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
YDROLC Wetland Hy Primary Indi Surface Surface Staturat	DGY /drology Indicators: icators (minimum of c water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) sposits (B3)		<u>check all that appl</u> <u>X</u> Water-Sta <u>MLRA</u> <u>Salt Crust</u> <u>Aquatic Im</u> <u>Hydrogen</u> <u>Oxidized F</u>	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizospher of Reduce	and 4B) s (B13) dor (C1) res along ed Iron (C4	Living Roo	<u>Seco</u> V [[[[ts (C3) [ndary Indicators (2 or more required) Nater-Stained Leaves (B9) (MLRA 1, 1 4A, and 4B) Orainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Seomorphic Position (D2)
YDROLC Wetland Hy Primary Indi Surface X High W X Saturat X Saturat X Saturat X Drift De X Algal M Iron De	DGY /drology Indicators: icators (minimum of c water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)		<u>check all that appl</u> <u>×</u> Water-Sta <u>MLRA</u> Salt Crust Aquatic Im Hydrogen Oxidized F Presence	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizospher of Reduce n Reductio	and 4B) s (B13) dor (C1) res along d Iron (C4 on in Tiller	Living Roo l) d Soils (C6	<u>Secc</u> V [[ts (C3) C S	ndary Indicators (2 or more required) Nater-Stained Leaves (B9) (MLRA 1, 1 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Seomorphic Position (D2) Shallow Aquitard (D3)
YDROLC Wetland Hy Primary Indi Surface X High W X Saturat X Vater I X Sedime X Drift De X Algal M Iron De Surface	DGY vdrology Indicators: icators (minimum of c water (A1) 'ater Table (A2) ion (A3) Warks (B1) Marks (B1) eposits (B3) lat or Crust (B4) posits (B5)	one required;	<u>check all that appl</u> <u>X</u> Water-Stat <u>MLRA</u> Salt Crust Aquatic Im Hydrogen Oxidized F Presence Recent Iro Stunted or	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizospher of Reduce in Reductor Stressed	nnd 4B) s (B13) dor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo l) d Soils (C6	<u>Secc</u> V [] [[] [[] [[] [[] [[] [] [[] [] [_] [Indary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1 , 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Seomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLC Wetland Hy Primary Indi Surface X Staturat X Staturat X Sedime X Algal M Iron De Surface Inundat	DGY vdrology Indicators: icators (minimum of c water (A1) 'ater Table (A2) ion (A3) Warks (B1) ant Deposits (B2) sposits (B3) lat or Crust (B4) posits (B5) a Soil Cracks (B6)	ne required;	<u>check all that appl</u> <u>X</u> Water-Stal MLRA Salt Crust Aquatic Im Hydrogen Oxidized F Presence I Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizospher of Reduce in Reductor Stressed	nnd 4B) s (B13) dor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo l) d Soils (C6	<u>Secc</u> V [] [[] [[] [[] [[] [[] [] [[] [] [_] [Indary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Seomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLC Wetland Hy Primary Indi Surface X High W X Saturat X Sedime X Sedime X Algal M Iron De Surface Inundat Sparsei	DGY /drology Indicators: icators (minimum of c e Water (A1) fater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) e Soil Cracks (B6) ion Visible on Aerial I ly Vegetated Concave	ne required;	<u>check all that appl</u> <u>X</u> Water-Stal MLRA Salt Crust Aquatic Im Hydrogen Oxidized F Presence I Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizospher of Reduce in Reductor Stressed	nnd 4B) s (B13) dor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo l) d Soils (C6	<u>Secc</u> V [] [[] [[] [[] [[] [[] [] [[] [] [_] [Indary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Seomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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YDROLC Wetland Hy Primary Indi Surface X High Wy X Saturat X Vater Ir X Saturation Iron De Surface Inundat Sparsel Field Obse Surface Wa Water Table Saturation F includes ca	DGY rdrology Indicators: icators (minimum of c aver (A1) fater Table (A2) ion (A3) Varks (B1) ent Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) average of the second second posits (B5) Soil Cracks (B6) ion Visible on Aerial I ly Vegetated Concave rvations: ter Present? Present? Y Present? Y	Imagery (B7) e Surface (Bł 'es N 'es N 'es _X N	check all that apply X Water-Stai MLRA	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphere of Reduce of Red	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D marks)	Living Roo) d Soils (C6 1) (LRR A) Wetla	Seco V C S ts (C3) C S F F	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 3 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Seconorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLC Wetland Hy Primary Indi Surface X High Wy X Saturat X Vater I X Saturation Iron De Surface Inundat Sparsel Field Obse Saturation Fi includes ca	DGY /drology Indicators: icators (minimum of co- icators (minimum of co- where (A1) atter Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) e Soil Cracks (B6) ion Visible on Aerial I by Vegetated Concave rvations: ter Present? Y Present? Y	Imagery (B7) e Surface (Bł 'es N 'es N 'es _X N	check all that apply X Water-Stai MLRA	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphere of Reduce of Red	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D marks)	Living Roo) d Soils (C6 1) (LRR A) Wetla	Seco V C S ts (C3) C S F F	endary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1 , 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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YDROLC Wetland Hy Primary Indi Surface X High Wy X Saturat X Vater Ir X Saturation Iron De Surface Inundat Sparsel Field Obse Surface Wa Water Table Saturation F includes ca	DGY rdrology Indicators: icators (minimum of c aver (A1) fater Table (A2) ion (A3) Varks (B1) ent Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) average of the second second posits (B5) soli Cracks (B6) ion Visible on Aerial I ly Vegetated Concave rvations: ter Present? Present? Y Present? Y	Imagery (B7) e Surface (Bł 'es N 'es N 'es _X N	check all that apply X Water-Stai MLRA	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphere of Reduce of Red	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D marks)	Living Roo) d Soils (C6 1) (LRR A) Wetla	Seco V C S ts (C3) C S F F	endary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1 , 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLC Wetland Hy Primary Indi Surface X High W X Saturat X Saturat X Sedime X Jorif De X Algal M Iron De Surface Surface Wa Water Table Saturation F (includes ca Describe Re	DGY rdrology Indicators: icators (minimum of c aver (A1) fater Table (A2) ion (A3) Varks (B1) ent Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) average of the second second posits (B5) soli Cracks (B6) ion Visible on Aerial I ly Vegetated Concave rvations: ter Present? Present? Y Present? Y	Imagery (B7) e Surface (Bł 'es N 'es N 'es _X N	check all that apply X Water-Stai MLRA	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphere of Reduce of Red	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D marks)	Living Roo) d Soils (C6 1) (LRR A) Wetla	Seco V C S ts (C3) C S F F	endary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1 , 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLC Wetland Hy Primary Indi Surface X High Wy X Saturati X Satiration X Algal M Iron De Surface Inundat Sparsel Field Obse Surface Wa Nater Table Saturation F Fincludes ca Describe Ro	DGY rdrology Indicators: icators (minimum of c aver (A1) fater Table (A2) ion (A3) Varks (B1) ent Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) average of the second second posits (B5) soli Cracks (B6) ion Visible on Aerial I ly Vegetated Concave rvations: ter Present? Present? Y Present? Y	Imagery (B7) e Surface (Bł 'es N 'es N 'es _X N	check all that apply X Water-Stai MLRA	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphere of Reduce of Red	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D marks)	Living Roo) d Soils (C6 1) (LRR A) Wetla	Seco V C S ts (C3) C S F F	endary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Version $2.0\,$

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

Project/Site: _Anderson Homes/1790 31st Street	City/County: Port Tow	vnsend, Jefferson	_ Sampling Date:	4/21/2021
Applicant/Owner: Anderson Homes	0. 211. 4	State: WA	Sampling Point:	Plot 2
Investigator(s): David Parks, PWS#1623	Section, Township, Rar	nge: S3,T30N,R1W	1109 JA 1920 PS	
Landform (hillslope, terrace, etc.): Terrace		convex, none): <u>Concav</u>	/e Slo	pe (%): <u>1-5</u>
Subregion (LRR): Western Mountains and Valleys	at: <u>48.1228</u>	Long: -122.7974	Datu	m: <u>NAD 83</u>
Soil Map Unit Name:		NWI classifi	cation: Upland	
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? Yes <u>x</u> No _	(If no, explain in I	Remarks.)	
Are Vegetation, Soil, or Hydrology signif	ficantly disturbed? Are "	Normal Circumstances"	present? Yes <u>x</u>	No
Are Vegetation, Soil, or Hydrology natur	ally problematic? (If ne	eded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sho	owing sampling point lo	ocations, transect	s, important fe	atures, etc.

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

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10M)	% Cover	Species?	Status	Number of Dominant Species
1. Pseudotsuga menziesii	50	Y	UPL	That Are OBL, FACW, or FAC:(A)
2. Thuja plicata	30	Y	FAC	Tabl Number of Denis and
3. Arbutus mensiesii	20	Y	UPL	Total Number of Dominant Species Across All Strata: 5 (B)
4.				
	100	= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A/B)
Sapling/Shrub Stratum (Plot size: 5M)		0.01 0.0		
1. Gaultheria shallon	60	Y	UPL	Prevalence Index worksheet:
2 Polystichum munitum	40	Y	UPL	Total % Cover of:Multiply by:
3.		······································		OBL species x 1 =
4				FACW species x 2 =
		· · · · · · · · · · · · · · · · · · ·	97 <u> </u>	FAC species x 3 =90
5				FACU species x 4 =
Herb Stratum (Plot size:)	100	= Total Co	over	UPL species x 5 =850
1,				Column Totals: 200 (A) 940 (B)
2.				
				Prevalence Index = B/A =4.7
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				5 - Wetland Non-Vascular Plants ¹
9				Problematic Hydrophytic Vegetation ¹ (Explain)
10				¹ Indicators of hydric soil and wetland hydrology must
11				be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	-	= Total Cov	ver	
1		·		Hydrophytic Vegetation
2				Present? Yes No X
% Bare Ground in Herb Stratum		= Total Cov	ver	
Remarks:				1

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SOIL		Sampling Point: Plot 2
Profile Description: (Describe to the	depth needed to document the indicator or con	firm the absence of indicators.)
Depth Matrix	Redox Features	2
(inches) Color (moist) %	Color (moist)%Type1Loc	
0-16" 10 YR 4/3		Gravelly Sandy Loam (dry)
Type: C=Concentration D=Depletion	RM=Reduced Matrix, CS=Covered or Coated Sand	d Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	A 1) Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11		
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No X
IYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one req	uired; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9
Drift Deposits (B3)	Oxidized Rhizospheres along Living	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	(C6) FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LR	R A) Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imager	y (B7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surfa	ce (B8)	
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No X Depth (inches):	
Saturation Present? Yes	No Depth (inches): V	Vetland Hydrology Present? Yes No _ ^X
(includes capillary fringe)		
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, previous inspection	ns), if available:
Remarks:		

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Version 2.0

Wetland name or number _Addie's Ditch_____

RATING SUMMARY – Western Washington

Name of wetland (or ID #): _Addies Ditch-Anderson Homes_____ Date of site visit: _____ Rated by__David Parks, PWS#1623 ____ Trained by Ecology?__ Yes _x_No Date of training_____

HGM Class used for rating Depressional Wetland has multiple HGM classes? Y x N

NOTE: Form is not complete without the figures requested (figures can be combined). Source of base aerial photo/map _____2019 NAIP

OVERALL WETLAND CATEGORY _____ (based on functions ____ or special characteristics ____)

1. Category of wetland based on FUNCTIONS

Category I – Total score = 23 - 27

- 21 Category II Total score = 20 22
- Category III Total score = 16 19

Category IV – Total score = 9 - 15

FUNCTION		nprov ter Q	/ing uality	H	ydrolo	ogic		Habit	at	
				18	Circle :	the ap	propr	iate ra	tings	
Site Potential	Н	M	L	Н	М	L	H	М	L	
Landscape Potential	н	Μ	L	Н	М	L	н	М	L	1
Value	н	М	L	Н	М	L	Н	М	L	TOTAL
Score Based on Ratings		6			7			8		21

Score for each function based on three ratings (order of ratings is not important)
9 = H,H,H
8 = H,H,M
7 = H, H, L
7 = H, M, M
6 = H,M,L
6 = M,M,M
5 = H,L,L
5 = M,M,L
4 = M,L,L
3 = L,L,L

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATE	GORY
Estuarine	I	П
Wetland of High Conservation Value	1	
Bog	I	
Mature Forest	I	
Old Growth Forest		I
Coastal Lagoon	I	II
Interdunal	III	III IV
None of the above	х	

Wetland Rating System for Western WA: 2014 Update Rating Form – Effective January 1, 2015

Wetland name or number <u>Addies' Ditch</u>

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	5
Hydroperiods	D 1.4, H 1.2	6-11
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	6-11
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	14
Map of the contributing basin	D 4.3, D 5.3	16
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	15
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	13
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	NA

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
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 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)	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	5
1 km Polygon: Area that extends 1 km 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)	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

To answer questions:	Figure #
H 1.1, H 1.4	
H 1.2	
S 1.3	
S 4.1	
S 2.1, S 5.1	
H 2.1, H 2.2, H 2.3	
S 3.1, S 3.2	
S 3.3	
	H 1.1, H 1.4 H 1.2 S 1.3 S 4.1 S 2.1, S 5.1 H 2.1, H 2.2, H 2.3 S 3.1, S 3.2

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Wetland name or number Addie's Ditch-Anderson Homes

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) **YES - Freshwater Tidal Fringe** 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.

YES - The wetland class is Flats NO - go to 3 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 sheetflow, 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

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).

- 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.

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

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Wetland name or number <u>Add</u>ie's Ditch-Anderson Homes

		88.
D 1.0. Does the site have the potential to improve water quality?		-
D 1.1. Characteristics of surface water outflows from the wetland:		
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 flowi		
	points = 2	2
Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing	and the second se	
Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch.	points = 1	200.00
D 1.2. <u>The soil 2 in below the surface (or duff layer)</u> is true clay or true organic (use NRCS definitions).Y		0
D 1.3. <u>Characteristics and distribution of persistent plants</u> (Emergent, Scrub-shrub, and/or Forested Co	wardin classes):	
Wetland has persistent, ungrazed, plants > 95% of area	points = 5	5
Wetland has persistent, ungrazed, plants > ½ of area	points = 3	
Wetland has persistent, ungrazed plants $> 1/10$ of area	points = 1	
Wetland has persistent, ungrazed plants $<^{1}/_{10}$ of area	points = 0	
D 1.4. Characteristics of seasonal ponding or inundation:		
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 > ¼ total area of wetland	points = 2	~
Area seasonally ponded is < ¼ total area of wetland	points = 0	2
Total for D 1 Add the points in the	boxes above	

Rating of Site Potential If score is: <u>12-16 = H</u> <u>9-6-11 = M</u> <u>0-5 = L</u> Record the rating on the first page

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	1
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 questions D 2.1-D 2.3? SourceYes = 1 No = 0		1
Total for D 2 Add the poin	ts in the boxes above	

Rating of Landscape Potential If score is: <u>3</u> or 4 = H <u>1</u> or 2 = M <u>0</u> = L Record the rating on the first page

D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river,	shorth building and short the standard and short	
303(d) list?	Yes = 1 No = 0	0
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on th	ne 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 if there is a TMDL for the basin in which the unit is found)?	r maintaining water quality (<i>answer YES</i> Yes = 2 No = 0	0
Total for D 3	Add the points in the boxes above	0

Rating of Value If score is: 2-4 = H 1 = M 0 = L

Record the rating on the first page

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Wetland name or number <u>Addi</u>e's Ditch-Anderson Homes

D 4.0. Does the site have the potential to reduce flooding and erosion?		
D 4.1. <u>Characteristics of surface water outflows from the wetland</u> : Wetland is a depression or flat depression with no surface water leaving it (no outlet) Wetland has an intermittently flowing stream or ditch, OR highly constricted permaner Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowin Wetland has an unconstricted, or slightly constricted, surface outlet that is permanent	ng ditch points = 1	2
D 4.2. <u>Depth of storage during wet periods</u> ; Estimate the height of ponding above the bottom with no outlet, measure from the surface of permanent water or if dry, the deepest part Marks of ponding are 3 ft or more above the surface or bottom of outlet Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet The wetland is a "headwater" wetland Wetland is flat but has small depressions on the surface that trap water Marks of ponding less than 0.5 ft (6 in)	A CONTRACT OF A	3
0 4.3. <u>Contribution of the wetland to storage in the watershed</u> : <i>Estimate the ratio of the area contributing surface water to the wetland to the area of the wetland unit itself.</i> The area of the basin is less than 10 times the area of the unit The area of the basin is 10 to 100 times the area of the unit The area of the basin is more than 100 times the area of the unit Entire wetland is in the Flats class	of upstream basin points = 5 points = 3 points = 0 points = 5	3
Fotal for D 4 Add the point	nts in the boxes above	8
Rating of Site Potential If score is: 12-16 = H 8_6-11 = M0-5 = L	Record the rating on the	first po
0 5.0. Does the landscape have the potential to support hydrologic functions of the s	ite?	1
5.1. Does the wetland receive stormwater discharges?	Yes = 1 No = 0	1
0 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runo	ff? Yes = $1 \text{ No} = 0$	0
9 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive huma >1 residence/ac, urban, commercial, agriculture, etc.)?	n land uses (residential at Yes = 1 No = 0	1
Fotal for D 5 Add the point	nts in the boxes above	2
Rating of Landscape Potential If score is:3 = H2 1 or 2 = M0 = L	Record the rating on the	first p
0 6.0. Are the hydrologic functions provided by the site valuable to society?		
 0 6.1. <u>The unit is in a landscape that has flooding problems</u>. Choose the description that best r the wetland unit being rated. Do not add points. <u>Choose the highest score if more than</u> The wetland captures surface water that would otherwise flow down-gradient into are: damaged human or natural resources (e.g., houses or salmon redds): Flooding occurs in a sub-basin that is immediately down-gradient of unit. Surface flooding problems are in a sub-basin farther down-gradient. Flooding from groundwater is an issue in the sub-basin. 	one condition is met.	

 Interexisting of pretential outlook from the wetland cannot reach areas that flood. Explain why ______ points = 0
 2

 There are no problems with flooding downstream of the wetland.
 points = 0
 2

 D 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0
 0

 Total for D 6
 Add the points in the boxes above
 2

 Rating of Value If score is: X 2-4 = H ___1 = M __0 = L
 Record the rating on the first page

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RIVERINE AND FRESHWATER TIDAL FRINGE WETLANDS Water Quality Functions - Indicators that the site functions to improve water quality		
R 1.0. Does the site have the potential to improve water quality?		
R 1.1. Area of surface depressions within the Riverine wetland that can trap sediments du	uring a flooding event:	
Depressions cover $>^{3}/_{4}$ area of wetland	points = 8	
Depressions cover > $\frac{1}{2}$ area of wetland	points = 4	
Depressions present but cover < $\frac{1}{2}$ area of wetland	points = 2	
No depressions present	points = 0	
R 1.2. Structure of plants in the wetland (areas with >90% cover at person height, not Co	wardin classes)	
Trees or shrubs $> 2/3$ area of the wetland	points = 8	
Trees or shrubs $> 1/3$ area of the wetland	points = 6	
Herbaceous plants (> 6 in high) > $^{2}/_{3}$ area of the wetland	points = 6	
Herbaceous plants (> 6 in high) > $^{1}/_{3}$ area of the wetland	points = 3	
Trees, shrubs, and ungrazed herbaceous < $^{1}/_{3}$ area of the wetland	points = 0	
Total for R 1 Add the points in the boxes above		

Rating of Site Potential If score is: 12-16 = H ____6-11 = M ____0-5 = L

Record the rating on the first page

R 2.0. Does the landscape have the potential to support the water quality function of the site?		
R 2.1. Is the wetland within an incorporated city or within its UGA? Yes = 2 No	= 0	
R 2.2. Does the contributing basin to the wetland include a UGA or incorporated area? Yes = 1 No	= 0	
R 2.3. Does at least 10% of the contributing basin contain tilled fields, pastures, or forests that have been clearcu within the last 5 years? Yes = 1 No		
R 2.4. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 No) = 0	
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4 Other sources Yes = 1 No	= 0	
Total for R 2 Add the points in the boxes abo	ove	
Rating of Landscape Potential If score is: 3-6 = H 1 or 2 = M 0 = L Record the ratin	ng on the first page	

Rating of Landscape Potential	If score is:	3-6 = H	1 or 2 = M	0 = L	

R 3.0. Is the water quality improvement provided by the site valuable	to society?	
R 3.1. Is the wetland along a stream or river that is on the $303(d)$ list or on a t	ributary that drains to one within 1 mi?	
	Yes = 1 No = 0	
R 3.2. Is the wetland along a stream or river that has TMDL limits for nutrient	s, toxics, or pathogens?	
	Yes = 1 No = 0	
R 3.3. Has the site been identified in a watershed or local plan as important for	or maintaining water quality? (answer	
YES if there is a TMDL for the drainage in which the unit is found)	Yes = 2 No = 0	
Total for R 3	Add the points in the boxes above	
Rating of Value If score is: 2-4 = H 1 = M 0 = L	Record the rating on t	he first page

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RIVERINE AND FRESHWATER TIDAL FRINGE Hydrologic Functions - Indicators that site functions to reduce	
R 4.0. Does the site have the potential to reduce flooding and erosion?	
R 4.1. Characteristics of the overbank storage the wetland provides: Estimate the average width of the wetland perpendicular to the direction of the fl stream or river channel (distance between banks). Calculate the ratio: (average width of stream between banks).	
If the ratio is more than 20 If the ratio is 10-20 If the ratio is 5-<10	points = 9 points = 6 points = 4
If the ratio is 1-<5 If the ratio is < 1	points = 2 points = 1
R 4.2. Characteristics of plants that slow down water velocities during floods: Treat larg shrub. Choose the points appropriate for the best description (polygons need to h height. These are <u>NOT Cowardin</u> classes).	
Forest or shrub for $>^1/_3$ area OR emergent plants $>^2/_3$ area Forest or shrub for $>^1/_{10}$ area OR emergent plants $>^1/_3$ area Plants do not meet above criteria	points = 7 points = 4 points = 0
Total for R 4 Add ti	he points in the boxes above

R 5.0. Does the landscape have the potential to support the hydrologic functions of the site?	
R 5.1. Is the stream or river adjacent to the wetland downcut? Yes = 0 No = 1	
R 5.2. Does the up-gradient watershed include a UGA or incorporated area?	Yes = 1 No = 0
R 5.3. Is the up-gradient stream or river controlled by dams?	Yes = 0 No = 1
Total for R 5	Add the points in the boxes above
Rating of Landscape Potential If score is: 3 = H 1 or 2 = M 0 = L Record the rating on the first po	

R 6.0. Are the hydrologic functions provided by the site valuable to society?	
R 6.1. Distance to the nearest areas downstream that have flooding problems?	
Choose the description that best fits the site. The sub-basin immediately down-gradient of the wetland has flooding problems that re	sult in damage to
human or natural resources (e.g., houses or salmon redds)	points = 2
Surface flooding problems are in a sub-basin farther down-gradient	points = 1
No flooding problems anywhere downstream	points = 0

R 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan?

Total for R 6
Rating of Value If score is: ___2-4 = H ___1 = M ___0 = L

Record the rating on the first page

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Yes = 2 No = 0

Add the points in the boxes above

LAKE FRINGE WETLANDS	
Water Quality Functions - Indicators that the site functions	to improve water quality
L 1.0. Does the site have the potential to improve water quality?	÷.
1.1. Average width of plants along the lakeshore (use polygons of Cowardin classes):	
Plants are more than 33 ft (10 m) wide	points = 6
Plants are more than 16 ft (5 m) wide and <33 ft	points = 3
Plants are more than 6 ft (2 m) wide and <16 ft	points = 1
Plants are less than 6 ft wide	points = 0
points, and do not include any open water in your estimate of coverage. The her the dominant form or as an understory in a shrub or forest community. <i>These ar</i> of cover is total cover in the unit, but it can be in patches. Herbaceous does not in	e not Cowardin classes. Area
Cover of herbaceous plants is >90% of the vegetated area	points = 6
Cover of herbaceous plants is $>^2/_3$ of the vegetated area	points = 4
Cover of herbaceous plants is $>^{1}/_{3}$ of the vegetated area	points = 3
Other plants that are not aquatic bed > $^{2}/_{3}$ unit	points = 3
Other plants that are not aquatic bed in $> 1/3$ vegetated area	points = 1
Aquatic bed plants and open water cover > $^{2}/_{3}$ of the unit	points = 0
otal for L 1 Add t	he points in the boxes above

 L 2.0. Does the landscape have the potential to support the water quality function of the site?

 L 2.1. Is the lake used by power boats?
 Yes = 1 No = 0

 L 2.2. Is > 10% of the area within 150 ft of wetland unit on the upland side in land uses that generate pollutants?

 Yes = 1 No = 0

 L 2.3. Does the lake have problems with algal blooms or excessive plant growth such as milfoil?

 Yes = 1 No = 0

 L 2.3. Does the lake have problems with algal blooms or excessive plant growth such as milfoil?

 Yes = 1 No = 0

 Total for L 2

 Add the points in the boxes above

Rating of Landscape Potential: If score is: 2 or 3 = H 1 = M 0 = L

Record the rating on the first page

L 3.0. Is the water quality improvement provided by the site valuable to societ	γ?
L 3.1. Is the lake on the 303(d) list of degraded aquatic resources?	Yes = 1 No = 0
L 3.2. Is the lake in a sub-basin where water quality is an issue (at least one aquatic re: 303(d) list)?	source in the basin is on the $Yes = 1 $ No = 0
L 3.3. Has the site been identified in a watershed or local plan as important for mainta if there is a TMDL for the lake or basin in which the unit is found.	ining water quality? <i>Answer YES</i> Yes = 2 No = 0
Total for L 3 Add	the points in the boxes above
Paties of Value If coording 2.4 - H 1 - M 0 - I	Popperd the rating on the first nage

Rating of Value If score is: 2-4 = H 1 = M 0 = L

Record the rating on the first page

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LAKE FRINGE WETLANDS		
Hydrologic Functions - Indicators that the wetland unit functions to reduce shoreline erosion		
L 4.0. Does the site have the potential to reduce shoreline erosion?		
L 4.1. Distance along shore and average width of Cowardin classes along the lakeshore (do not include Aquatic bed): Choose the highest scoring description that matches conditions in the wetland.		
> ¼ of distance is Scrub-shrub or Forested at least 33 ft (10 m) wide points = 6		
>¾ of distance is Scrub-shrub or Forested at least 6 ft (2 m) wide points = 4		
>¼ distance is Scrub-shrub or Forested at least 33 ft (10 m) wide points = 4		
Plants are at least 6 ft (2 m) wide (any type except Aquatic bed) points = 2		
Plants are less than 6 ft (2 m) wide (any type except Aquatic bed)	points = 0	

Rating of Site Potential: If score is:___6 = M ____0-5 = L

Record the rating on the first page

L 5.0. Does the landscape have the potential to support the hydrologic functions of the site?		
L 5.1. Is the lake used by power boats with more than 10 hp? Yes = 1 No = 0		
L 5.2. Is the fetch on the lake side of the unit at least 1 mile in distance? Yes = 1 No = 0		
Total for L 5 Add the points in the boxes above		

Rating of Landscape Potential If score is: 2 = H 1 = M 0 = L

Record the rating on the first page

L 6.0. Are the hydrologic functions provided by the site valuable to society?	
L 6.1. Are there resources along the shore that can be impacted by erosion? If more than one re choose the one with the highest score.	esource is present,
There are human structures or old growth/mature forests within 25 ft of OHWM of the s	hore in the unit
	points = 2
There are nature trails or other paths and recreational activities within 25 ft of OHWM	points = 1
Other resources that could be impacted by erosion	points = 1
There are no resources that can be impacted by erosion along the shores of the unit	points = 0
Rating of Value: If score is:2 = H1 = M0 = L	Record the rating on the first pag

NOTES and FIELD OBSERVATIONS:

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SLOPE WETLANDS Water Quality Functions - Indicators that the site functions to improve water quality		
S 1.0. Does the site have the potential to improve water quality?		
 S 1.1. Characteristics of the average slope of the wetland: (a 1% slope has a 1 ft vertical drop in e 100 ft of horizontal distance) Slope is 1% or less Slope is > 1%-2% Slope is > 2%-5% 	points = 3 points = 2 points = 1	
Slope is greater than 5% S 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic <i>(use NRCS definitic</i>	points = 0	
S 1.3. Characteristics of the plants in the wetland that trap sediments and pollutants: Choose the points appropriate for the description that best fits the plants in the wetland. <i>have trouble seeing the soil surface (>75% cover), and uncut means not grazed or mowed o</i> <i>than 6 in.</i> Dense, uncut, herbaceous plants > 90% of the wetland area Dense, uncut, herbaceous plants > ½ of area Dense, woody, plants > ½ of area	points = 6 points = 6 points = 3 points = 2	
Dense, uncut, herbaceous plants > ¼ of area Does not meet any of the criteria above for plants Total for S 1 Add the points	points = 1 points = 0	

Rating of Site Potential If score is: 12 = H ____6-11 = M ____0-5 = L

Record the rating on the first page

S 2.0. Does the landscape have the potential to	support the water quality function of the site?	
S 2.1. Is > 10% of the area within 150 ft on the uphill	side of the wetland in land uses that generate pollutants?	
	Yes = 1 No = 0	
S 2.2. Are there other sources of pollutants coming in	nto the wetland that are not listed in question S 2.1?	
Other sources	Yes = 1 No = 0	
Total for S 2	Add the points in the boxes above	
Rating of Landscape Potential If score is: 1-2 = M	1 0 = 1 Record the rating on the firs	thade

Rating of Landscape Potential If score is: ___1-2 = M ___0 = L

Record the rating on the first page

S 3.0. Is the water quality improvement provided by the site value	able to society?
S 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream 303(d) list?	, river, lake, or marine water that is on the Yes = $1 \text{ No} = 0$
S 3.2. Is the wetland in a basin or sub-basin where water quality is an is: on the 303(d) list.	sue? At least one aquatic resource in the basin is Yes = 1 No = 0
S 3.3. Has the site been identified in a watershed or local plan as import if there is a TMDL for the basin in which unit is found.	ant for maintaining water quality? <i>Answer YES</i> Yes = 2 No = 0
Total for S 3	Add the points in the boxes above
Rating of Value If score is: 2-4 = H 1 = M 0 = L	Record the rating on the first page

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Hydrologic Functions - Indicators that the site functions to reduce	e flooding and stream erosion
S 4.0. Does the site have the potential to reduce flooding and stream erosion?	
S 4.1. Characteristics of plants that reduce the velocity of surface flows during storms: C for the description that best fits conditions in the wetland. <i>Stems of plants should in), or dense enough, to remain erect during surface flows.</i>	
Dense, uncut, rigid plants cover > 90% of the area of the wetland	points = 1
All other conditions	points = 0

S 5.0. Does the landscape have the potential to support the hydrologic functions	of the site?
S 5.1. Is more than 25% of the area within 150 ft upslope of wetland in land uses or cove	r that generate excess
surface runoff?	Yes = 1 No = 0
Rating of Landscape Potential If score is: 1 = M 0 = L	Record the rating on the first page

S 6.0. Are the hydrologic functions provided by the site valuable to society?	
S 6.1. Distance to the nearest areas downstream that have flooding problems: The sub-basin immediately down-gradient of site has flooding problems that result in	damage to human or
natural resources (e.g., houses or salmon redds)	points = 2
Surface flooding problems are in a sub-basin farther down-gradient	points = 1
No flooding problems anywhere downstream	points = 0
S 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan?	
	Yes = 2 No = 0
Total for S 6 Add the p	oints in the boxes above

Rating of Value If score is: 2-4 = H 1 = M 0 = L

Record the rating on the first page

NOTES and FIELD OBSERVATIONS:

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Wetland name or number <u>Add</u>ie's Ditch-Anderson Home

1.0. Does the site have the potential to provide habitat?	· · · · · · · · · · · · · · · · · · ·	
 11.1. Structure of plant community: Indicators are Cowardin classes and Cowardin plant classes in the wetland. Up to 10 patches may be con of ¼ ac or more than 10% of the unit if it is smaller than 2.5 ac. Add <u>×</u> Aquatic bed <u>x</u> Emergent <u>×</u> Scrub-shrub (areas where shrubs have > 30% cover) <u>x</u> Forested (areas where trees have > 30% cover) If the unit has a Forested class, check if: 	mbined for each class to meet the threshold	4
The Forested class has 3 out of 5 strata (canopy, sub-canopy, s that each cover 20% within the Forested polygon	hrubs, herbaceous, moss/ground-cover)	
 1.2. Hydroperiods Check the types of water regimes (hydroperiods) present within the more than 10% of the wetland or ¼ ac to count (see text for descrip) Permanently flooded or inundated x Seasonally flooded or inundated Occasionally flooded or inundated Occasionally flooded or inundated Saturated only Permanently flowing stream or river in, or adjacent to, the wetland Seasonally flowing stream in, or adjacent to, the wetland Reshwater tidal wetland	tions of hydroperiods). 4 or more types present: points = 3 3 types present: points = 2 2 types present: points = 1 1 type present: points = 0	2
1.3. Richness of plant species Count the number of plant species in the wetland that cover at leas	st 10 ft ²	
Different patches of the same species can be combined to meet the the species. Do not include Eurasian milfoil, reed canarygrass, pu If you counted: > 19 species 5 - 19 species	size threshold and you do not have to name urple loosestrife, Canadian thistle points = 2 points = 1	1
< 5 species 1.4. Interspersion of habitats	points = 0	
Decide from the diagrams below whether interspersion among Cov the classes and unvegetated areas (can include open water or mud have four or more plant classes or three classes and open water, the None = 0 points Will three diagrams in this row	flats) is high, moderate, low, or none. <i>If you</i>	3

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ANDERSON HOMES WETLAND DELINEATION PARCEL 972600211, CITY OF PORT TOWNSEND, WASHINGTON.

Wetland name or number <u>Addi</u>e's Ditch-Anderson Homes

1.5. Special habitat features:	
Check the habitat features that are present in the wetland. <i>The number of checks is the number of points.</i> × Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long).	
x Standing snags (dbh > 4 in) within the wetland	
Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 33 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 (<i>cut shrubs or trees that have not yet weathered where wood is exposed</i>)	
<u>x</u> At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated <i>(structures for egg-laying by amphibians)</i>	4
Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of strata)	
Add the points in the boxes above	14

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 that directly abuts wetland unit). Calculate: % undisturbed habitat_____+ [(% moderate and low intensity land uses)/2]___ % = If total accessible habitat is: > 1/3 (33.3%) of 1 km Polygon points = 3 20-33% of 1 km Polygon points = 2 10-19% of 1 km Polygon points = 1 < 10% of 1 km Polygon points = 02 H 2.2. Undisturbed habitat in 1 km Polygon around the wetland. % undisturbed habitat _____ + [(% moderate and low intensity land uses)/2]___ Calculate: % = Undisturbed habitat > 50% of Polygon points = 3 Undisturbed habitat 10-50% and in 1-3 patches points = 2 Undisturbed habitat 10-50% and > 3 patches points = 1 2 Undisturbed habitat < 10% of 1 km Polygon points = 0 H 2.3. Land use intensity in 1 km Polygon: If > 50% of 1 km Polygon is high intensity land use points = (-2)≤ 50% of 1 km Polygon is high intensity points = 0 0 4 Total for H 2 Add the points in the boxes above

Rating of Landscape Potential If score is: <u>x</u> 4-6 = H ____1-3 = M ___<1 = L

Record the rating on the first page

3.1. Does the site provide habitat for species valued in laws, regulations, or policies? (that applies to the wetland being rated.	Choose only the highest score	
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 anima 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 It has been categorized as an important habitat site in a local or regional com Shoreline Master Plan, or in a watershed plan Site has 1 or 2 priority habitats (listed on next page) within 100 m 	of Natural Resources	
Site does not meet any of the criteria above	points = 0	2
ting of Value If score is: x_2 = H1 = M0 = L	points = 0 Record the rating on th	ne fi

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Wetland name or number

WDFW Priority Habitats

<u>Priority habitats listed by WDFW</u> (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp. <u>http://wdfw.wa.gov/publications/00165/wdfw00165.pdf</u> or access the list from here: <u>http://wdfw.wa.gov/conservation/phs/list/</u>)

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland unit: *NOTE:* This question is independent of the land use between the wetland unit and the priority habitat.

- Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- Biodiversity Areas and Corridors: Areas of habitat that are relatively important to various species of native fish and wildlife (*full descriptions in WDFW PHS report*).
- Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
- Old-growth/Mature forests: <u>Old-growth west of Cascade crest</u> Stands of at least 2 tree species, forming a multilayered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. <u>Mature forests</u> – Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.
- Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak
 component is important (*full descriptions in WDFW PHS report p. 158 see web link above*).
- <u>X</u> Riparian: The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
- Westside Prairies: Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie (*full descriptions in WDFW PHS report p. 161 see web link above*).
- Instream: The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.
- Nearshore: Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and
 Puget Sound Nearshore. (full descriptions of habitats and the definition of relatively undisturbed are in WDFW report –
 see web link on previous page).
- Caves: A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
- Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
- Talus: Homogenous areas of rock rubble ranging in average size 0.5 6.5 ft (0.15 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
- Snags and Logs: Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.

Note: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

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CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

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?	Cat. I
Yes = Category I No - Go to SC 1.2	Cat. 1
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	Cat. I
than 10% cover of non-native plant species. (If non-native species are <i>Spartina</i> , see page 25)	
— At least $ m m m m m m m m m m m m m $	
mowed grassland.	Cat. II
— The wetland has at least two of the following features: tidal channels, depressions with open water, or	
contiguous freshwater wetlands. Yes = Category I No = Category I	
SC 2.0. Wetlands of High Conservation Value (WHCV)	
SC 2.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High	
Conservation Value? Yes – Go to SC 2.2 No – Go to SC 2.3	Cat. I
SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?	
Yes = Category I No = Not a WHCV	
SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	
http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf Yes - Contact WNHP/WDNR and go to SC 2.4 No = Not a WHCV	
SC 2.4. Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation Value and listed it on	
their website? Yes = Category I No = Not a WHCV	
SC 3.0. Bogs	1
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 answer 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 = Is 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 = Is a 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.	Cat. I
SC 3.4. Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir, western red cedar,	1
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 = Is a Category I bog No = Is not a bog	

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SC 4.0. Forested Wetlands	
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? If you answer YES you will still need to rate	
the wetland based on its functions. — Old-growth forests (west of Cascade crest): Stands of at least two tree species, forming a multi-layered	
— Oid-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 of	
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).	
Yes = Category I No = Not a forested wetland for this section	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)	Cat. I
Yes – Go to SC 5.1 No = Not a wetland in a coastal lagoon	
SC 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	Cat. II
than 20% cover of aggressive, opportunistic plant species (see list of species on p. 100).	Cat. II
— At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-	
mowed grassland.	
— The wetland is larger than $\frac{1}{10}$ ac (4350 ft ²) Yes = Category I No = Category I	
ies - Categoly i NO - Categoly i	
SC 6.0. Interdunal Wetlands	
Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? If	
you 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	Cat I
 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 	
Yes – Go to SC 6.1 No = not an interdunal wetland for rating	
SC 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	Cat. II
for the three aspects of function)? Yes = Category I No – Go to SC 6.2	
SC 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger?	a. 2 m
Yes = Category II No – Go to SC 6.3	Cat. III
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 IV	Cat. IV
Catagonia di unternet la constata Constata Characterizzian	Cut. 19
Category of wetland based on Special Characteristics	
If you answered No for all types, enter "Not Applicable" on Summary Form	

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Appendix C: Site Photographs



Photo 1: View looking west along 31st Street, subject parcel is located to the right of the street.

ANDERSON HOMES WETLAND DELINEATION PARCEL 972600211, CITY OF PORT TOWNSEND, WASHINGTON.



Photo 2: Wetland Plot #1.

ANDERSON HOMES WETLAND DELINEATION PARCEL 972600211, CITY OF PORT TOWNSEND, WASHINGTON.



Photo 3: Upland Plot # 2