Altmann Oliver Associates, LLC

Environmenta Planning & Landscape

PO Box 578

Carnation, WA 98014

Office (425) 333-4535

Fax (425) 333-4509

Architecture

December 20, 2022

AOA-6739

Sam Salo, PE ssalo@encompasses.net

SUBJECT: Wetland and Stream Study for American Pride Lending Property

212 Todd Road NE, Parcel 042022-2008, Puyallup, WA (P-21-0146)

Dear Sam:

On March 1, 2022 I conducted an initial wetland and stream reconnaissance on and adjacent to the subject property utilizing the methodology outlined in the May 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). An additional field investigation was conducted by AOA on June 23, 2022.

At the time of the field investigations the property was entirely graveled except for a small house in the northwest corner of the site. Topography is flat and no significant native plant communities or wetlands are located on the property.

Wapato Creek flows from north to south off-site to the southeast. Although access was very limited, a narrow Riverine wetland (Wetland A) was observed in places along the creek. However, no wetlands were observed adjacent the creek in the area in closest proximity to the subject property. Attachment A contains a data sheet prepared for the off-site upland area immediately adjacent the creek within closest proximity to the property.

WAPATO CREEK AND WETLAND A

Wapato Creek is known to support salmonids and would therefore be considered a Type II stream by the City of Puyallup. Type II streams require a minimum standard buffer of 100 feet per PMC 21.06.1050(2)(b). There is also a required 10-foot structure setback from the edge of the buffer. Wetland A consists of a narrow Riverine Hydrogeomorphic (HGM) class wetland. Vegetation within Wetland A and the riparian corridor of Wapato Creek in the vicinity of the site consisted primarily of

Sam Salo December 20, 2022 Page **2** of **4**

a forested plant community that included red alder (*Alnus rubra*), Pacific willow (*Salix lasiandra*), Himalayan blackberry (*Rubus armeniacus*), climbing nightshade (*Solanum dulcamara*), and English ivy (*Hedera helix*).

Wetland A meets the criteria for a Category II wetland with 6 Habitat Points per the current City of Puyallup rating system (**Attachment B**). Category II wetlands with 6 Habitat Points require a standard 150-foot buffer adjacent high intensity land uses per PMC 21.06.930(2)(c). However, since Wetland A is not located adjacent to the creek in proximity to the site, it appears the Wapato Creek buffer would be more restrictive.

BUFFER RESTORATION

The City of Puyallup requires that the minimum critical area buffer be vegetated with native species as part of any proposed project. Since the 100-foot Wapato Creek buffer extends into the subject property (**Drawing W1.0**) and the buffer area is currently gravel, a buffer restoration planting plan is required as part of a proposed site plan. Restoration will consist of gravel removal and re-planting with native trees and shrubs. A rail fence will then be installed along the buffer boundary.

Goal, Objectives, and Performance Standards for Restoration Area

The primary goal of the restoration plan is to increase the habitat function of the enhanced buffer. To meet this goal, the following objectives and performance standards have been incorporated into the design of the plan:

Objective A: Increase the structural and plant species diversity within the restoration area.

<u>Performance Standard:</u> Following every monitoring event for a period of at least five years, the planting area will contain at least 7 native plant species. There will be 100% survival of all woody planted species throughout the restoration area at the end of the first year of planting. For Years 2-5, success will be based on an 80% survival rate or similar number of recolonized native woody plants. Areal coverage of plantings or native re-colonized woody species will be at least 10% at Year 1, 20% at Year 2, 30% at Year 3, 40% at Year 4, and 50% at Year 5.

<u>Objective B:</u> Limit the amount of invasive and exotic species within the restoration area.

<u>Performance Standard:</u> After construction and following every monitoring event for a period of five years, exotic and invasive plant species will be maintained at levels below 10% total cover in the designated restoration area.

Construction Management

Prior to commencement of any work in the restoration area the limits will be staked. A pre-construction meeting should be held at the site to review and discuss all aspects of the project with the landscape contractor and/or owner.

Sam Salo December 20, 2022 Page **3** of **4**

A consultant will supervise plan implementation during construction to ensure that objectives and specifications of the restoration plan are met. Any necessary significant modifications to the design that occur because of unforeseen site conditions will be jointly approved by the City of Puyallup and the consultant prior to their implementation.

Monitoring Methodology

The monitoring program will be conducted for a period of five years, with annual reports submitted to the City. Vegetation monitoring will include general appearance, health, mortality, colonization rates, percent cover, percent survival, volunteer plant species, and invasive weeds.

Photo-points will be established from which photographs will be taken throughout the monitoring period. These photographs will document general appearance and progress in plant community establishment in the restoration area. Review of the photos over time will provide a visual representation of success of the plan.

Maintenance Plan

Maintenance will be conducted on a routine, year-round basis. Additional maintenance needs will be identified and addressed following periodic maintenance reviews. Routine removal and control of non-native and other invasive plants within the designated mitigation area shall be performed. Undesirable and weedy exotic plant species shall be maintained at levels below 10% total cover within the restoration area during the monitoring period.

Routine maintenance of planted trees and shrubs shall be performed. Measures include resetting plants to proper grades and upright positions. Tall grasses and other competitive weeds shall be weeded at the base of plants to prevent engulfment.

Contingency Plan

All dead plants will be replaced with the same species or an approved substitute species that meets the goal of the restoration plan. Plant material shall meet the same specifications as originally installed material. Replanting will not occur until after reason for failure has been identified (e.g., moisture regime, poor plant stock, disease, shade/sun conditions, wildlife damage, etc.). Replanting shall be completed under the direction of the consultant, City of Puyallup, or the owner.

As-Built Plan

Following completion of construction activities, an as-built plan for the restoration area will be provided to the City of Puyallup. The plan will identify and describe any changes in relation to the original approved plan

Sam Salo December 20, 2022 Page **4** of **4**

If you have any questions, please give me a call.

Sincerely,

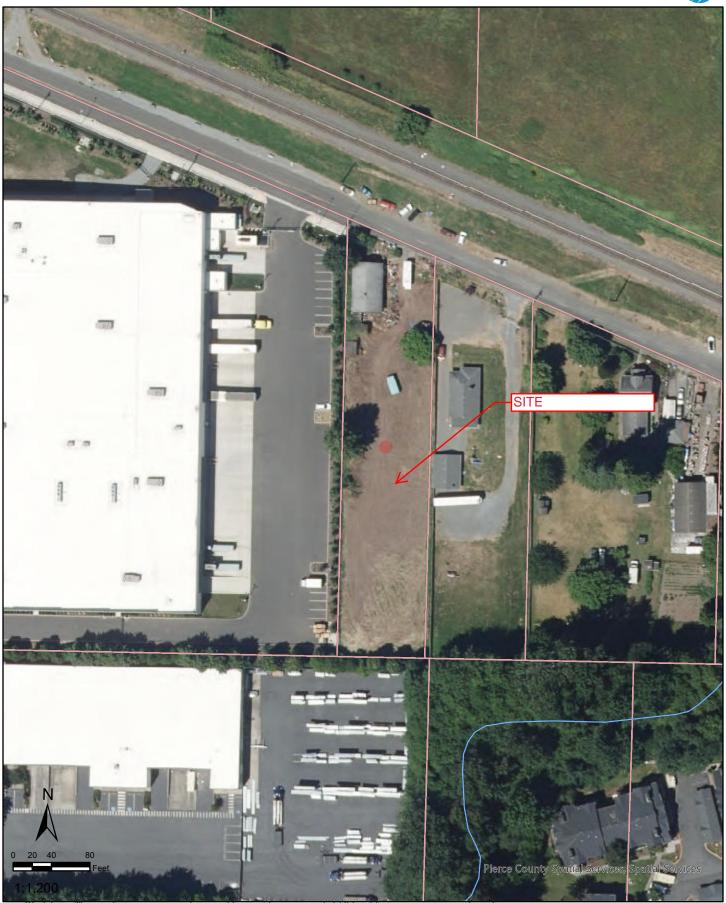
ALTMANN OLIVER ASSOCIATES, LLC

John Altmann Ecologist

Attachments

PublicGIS





Disclaimer: The map features are approximate and have not been surveyed. Additional features not yet mapped may be present.

Pierce County assumes no liability for variations ascertained by formal survey.

Date: 12/20/2022 02:21 PM

Box 578 Carnation, WA 98014

Office (425) 333-4535

ax (425) 333-4509

AOA

Environmental Planning & Landscape Architecture

City of Puyallup Parcel 042022-2008

Critical Areas Map

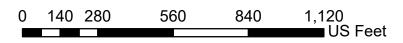
AOA-6739



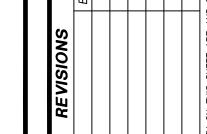


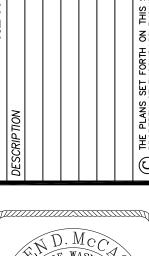
Approximate Wetland A

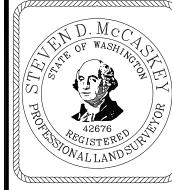
Tax_Parcels











042022-2008

VERTICAL DATUM

BENCHMARK

HELD CITY OF PUYALLUP BENCHMARK NW-TODD 7 CONVERTED NGVD 29 ELEVATION OF 39.68' TO NAVD 88 ELEVATION OF 43.17 BY ADDING THE 3.49' PER CORPSCON DATA CONVERSION SOFTWARE

HORIZONTAL DATUM

NAD 83/(2011) WASHINGTON SOUTH ZONE PER THE WASHINGTON STATE REFERENCE NETWORK - CHECKED TO PIERCE COUNTY REFERENCE NETWORK VIA TIES TO FOUND

BASIS OF BEARINGS

HELD A BEARING OF S 01°02'07" W ALONG THE WEST LINE OF GOV'T LOT 5 FROM THE FOUND MONUMENT AT THE NW CORNER THEREOF TO A MONUMENT LOCATED ALONG THE EXTENSION OF SAID WEST LINE LOCATED AT THE CENTER OF INTERSECTION OF MERIDIAN AVE AND SPENCER RD E

INSTRUMENTATION

INSTRUMENT USED: 5 SECOND TOTAL STATION.

FIELD SURVEY WAS BY CLOSED TRAVERSE LOOPS, MINIMUM CLOSURE OF LOOPS WAS 1:22,000, IN ACCORDANCE WITH WAC 332-130-090.

LEGAL DESCRIPTION

BEGINNING AT A POINT 683 FEET EAST OF THE SOUTHWEST CORNER OF LOT 5 IN SECTION 22, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN: THENCE NORTH PARALLEL WITH THE WEST BOUNDARY OF SAID LOT, 442 FEET MORE OR LESS TO THE RIGHT OF WAY OF CHICAGO, MILWAUKEE & ST PAUL RAILWAY COMPANY; THENCE NORTHWESTERLY ALONG SAID RIGHT OF WAY 100

THENCE SOUTH PARALLEL WITH AND 93 FEET DISTANCE FROM EAST BOUNDARY OF TRACT 478 FEET MORE OR LESS TO A POINT 93 FEET WEST OF THE POINT OF BEGINNING; THENCE EAST 93 FEET TO THE POINT OF BEGINNING.

EXCEPT THE NORTHERLY 15 FEET FOR TODD ROAD

SITUATE IN THE CITY OF PUYALLUP, COUNTY OF PIERCE,

REFERENCES

ROS 201604295004 (R1)

CHICAGO, MILWAUKEE AND ST PAUL RR NORTH PUYALLUP TRACK MAPS

JOB NO.	21715
DATE	07/07/22
SCALE	1"=30'
DESIGNED	N/A
DRAWN	LFM
CHECKED	SDM
APPROVED	SDM

SHEET 1 OF 1

ATTACHMENT A DATA SHEETS

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

Project Site: Parcel: 04	<u>42022-2008</u>				City/Cour	nty: <u>Puyallup/</u>		Sampling D	Date:	6-23	<u>-22</u>	
Applicant/Owner: <u>Sekhon</u>							State: WA	Sampling F	Point:	DP#	<u>1</u>	
Investigator(s): John Altn	<u>nann</u>					Section	, Township, Ran	ge: <u>S22, T2</u>	20N, R4E			
Landform (hillslope, terrace, etc.)): <u>Slope</u>			Local	I relief (conc	ave, convex, no	ne): <u>concave</u>		Slope	(%):		_
Subregion (LRR): A		Lat: <u>47</u>	7.210042			Long: <u>-122</u>	.290862		Datum: N	IAD83	<u> </u>	
Soil Map Unit Name: 31A							NWI clas	sification:	PFO1C			
Are climatic / hydrologic condition	ns on the site typical for	r this time o	of year?	Υe	es 🛛	No 🗆	(If no, explain i	n Remarks.)				
Are Vegetation ☐, Soil	□, or Hydrology	□, signi	ficantly dis	sturbed'	? Are "	Normal Circums	tances" present?	•	Yes	\boxtimes	No	
Are Vegetation ☐, Soil	□, or Hydrology	□, natu	rally proble	ematic?	(If ne	eded, explain a	ny answers in Re	marks.)				
SUMMARY OF FINDINGS -	- Attach site map sl	howing s	ampling	point	locations	transects, in	nportant featu	res, etc.				
Hydrophytic Vegetation Present?	?	Yes	☐ No									
Hydric Soil Present?		Yes	□ No		Is the Samp				Yes		No	\boxtimes
Wetland Hydrology Present?			☐ No		within a We	etiano ?						
Remarks: Upslope of OHW 1-2	2											
VEGETATION II : 4												
VEGETATION – Use scient	ific names of plant	S Absolute	Domin	ant	Indicator	I						
<u>Tree Stratum</u> (Plot size: <u>10'</u>)		% Cover	Specie		Status	Dominance T	est Worksheet:					
1. <u>Alnus rubra</u>		<u>90</u>	<u>yes</u>		<u>FAC</u>	Number of Do	minant Species		<u>2</u>			(\\\
2. <u>Pseudotsuga menziesii</u>		<u>10</u>	<u>no</u>		<u>FACU</u>	That Are OBL	, FACW, or FAC:		<u> </u>			(A)
3						Total Number	of Dominant		E			(D)
4						Species Acros	s All Strata:		<u>5</u>			(B)
50% = <u>50,</u> 20% = <u>20</u>		<u>100</u>	= Tota	l Cover		Percent of Do	minant Species		40			(A (D)
Sapling/Shrub Stratum (Plot size	e: <u>10'</u>)						, FACW, or FAC:		<u>40</u>			(A/B)
1. <u>Ilex aquifolium</u>		<u>40</u>	<u>yes</u>		<u>FACU</u>	Prevalence In	dex worksheet:					
2. Oemleria cerasiformis		<u>15</u>	<u>yes</u>		FACU	<u> </u>	otal % Cover of:		Multiply	/ by:		
3. Corylus cornuta		<u>10</u>	no		<u>FACU</u>	OBL species			x1 =		_	
4. Rubus armeniacus		<u>10</u>	no		FAC	FACW species	s		x2 =			
5						FAC species			x3 =			
50% = <u>37.5,</u> 20% = <u>15</u>		<u>75</u>	= Tota	l Cover		FACU species			x4 =			
Herb Stratum (Plot size: 10')		_				UPL species			x5 =			
Equesetum telmetia		30	VOC		EACW			(A)	λο			٥١
<u>-</u>		<u>30</u>	<u>yes</u>		<u>FACW</u>	Column Totals		(A)		-	(E)
2								Index = B/A	=			
3							Vegetation Indic					
4						·	d Test for Hydro		ation			
5						2 - Domi	inance Test is >5	0%				
6						☐ 3 - Preva	alence Index is <	3.0 ¹				
7							hological Adapta			ing		
8						data	in Remarks or or	n a separate	sheet)			
9						☐ 5 - Wetla	and Non-Vascula	r Plants ¹				
10						☐ Problem	atic Hydrophytic	Vegetation ¹	(Explain)			
11												
50% = <u>15,</u> 20% = <u>6</u>		<u>30</u>	= Tota	l Cover			nydric soil and w lless disturbed or					
Woody Vine Stratum (Plot size:	<u>10'</u>)					be present, un	iless disturbed of	probleman	.			
1. <u>Hedera helix</u>		<u>100</u>	<u>yes</u>		FACU							
2			_			Hydrophytic						
50% = 50, 20% = 20		100	= Tota	l Cover		Vegetation	Y	es [No		\boxtimes
% Bare Ground in Herb Stratum						Present?						
70 Date Ground III Helb Stratum												
Remarks:												

Project Site: Parcel: 042022-2008

ppe: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Clay Joseph Public Social Structure Public Social S	Depth Matrix Color (moist)	0/	Color (m	Redox Fe		Toxture	e Remarks
### Application Published			Color (III	(OIST) 70	Type Loc		_
Histosol (A1) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) 3 cm Muck (A10) 3 cm Muck (A10) 4 cm Muck (A10	<u>10 110 3/3</u>	100	-	-		ciay io	<u></u>
Histosol (A1) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis*: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) 3 cm Muck (A10) 3 cm Muck (A10) 4 cm Muck (A10)				<u>-</u>	<u> </u>		
Histosol (A1) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) 3 cm Muck (A10) 3 cm Muck (A10) 4 cm Muck (A10	<u> </u>						<u> </u>
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (Ar) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Belw Dark Surface (F12) Hydrogen Sulfide (A4) Depleted Dark Surface (F1) Sandy Mucky Mineral (S11) Sandy Mucky Mineral (S11) Sandy Mucky Mineral (S11) Sandy Mucky Mineral (S11) Bandy Mucky Mineral (S12) Ban							<u> </u>
Indicators: (Applicable to all LRRs, unless otherwise noted.)							_
Indicators: (Applicable to all LRRs, unless otherwise noted.)				<u> </u>			_
Indicators: (Applicable to all LRRs, unless otherwise noted.)							
Histosol (A1)	ype: C= Concentration, D=Deplet	ion, RM=R	Reduced Ma	trix, CS=Covered or 0	Coated Sand Grains.	² Location: PL	=Pore Lining, M=Matrix
Histic Epipedon (A2)		e to all LR		-			
Black Histic (A3)							• •
Hydrogen Sulfide (A4)					•		• •
Depleted Below Dark Surface (A11)				-		-	
Redox Dark Surface (A12)		(//11)				Ц	Other (Explain in Remarks)
Sandy Mucky Mineral (S1)	·	(A11)			•		
Sandy Gleyed Matrix (S4)						³ Ind	licators of hydrophytic vegetation and
Secondary Indicators (2 or more required)				•		V	wetland hydrology must be present,
Post				, today Dapiesaidi	(. 5)	ι	unless disturbed of problematic.
Path (inches):							
POROLOGY Itland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Id Observations: Iface Water Present? Yes	·				Hvdric Soi	ls Present?	Yes □ No
Secondary Indicators (2 or more required) Surface Water (A1)	marks:						
Surface Water (A1)	YDROLOGY						
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B6) Surface Soil Cracks (B6) Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Salt Crust (B11) Drainage Patterns (B10) Drainage Patterns	YDROLOGY etland Hydrology Indicators:	required:	check all th	at apply)		Seco	ndary Indicators (2 or more required)
Saturation (A3)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one	required;			aves (B9)		
Water Marks (B1)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1)	required;		Water-Stained Lea			Water-Stained Leaves (B9)
Drift Deposits (B3)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	required;	_	Water-Stained Lea (except MLRA 1,			Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Algal Mat or Crust (B4)	PDROLOGY etland Hydrology Indicators: mary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	required;		Water-Stained Lea (except MLRA 1, Salt Crust (B11)	2, 4A, and 4B)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Iron Deposits (B5)	POROLOGY Etland Hydrology Indicators: mary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	required;		Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra	2, 4A, and 4B) stes (B13)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Surface Soil Cracks (B6)	PDROLOGY Estland Hydrology Indicators: mary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	required;		Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	2, 4A, and 4B) tes (B13) Odor (C1)	0	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	required;		Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide (Oxidized Rhizosph	2, 4A, and 4B) ites (B13) Odor (C1) neres along Living Roots	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8) Pld Observations: Inface Water Present? Yes No Depth (inches): Pater Table Present? Yes No Depth (inches): Ituration Present? Yes No Depth (inches): Sturration Present? Yes Depth (inches): The provided Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches):	PUROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	required;		Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu	2, 4A, and 4B) Ites (B13) Odor (C1) Ineres along Living Roots ced Iron (C4)	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
eld Observations: Inface Water Present? Yes No Depth (inches): ater Table Present? Yes No Depth (inches): Ituration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Cludes capillary fringe) Yes No Depth (inches):	PDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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)	required;		Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu- Recent Iron Reduc	2, 4A, and 4B) Ites (B13) Odor (C1) Ineres along Living Roots ced Iron (C4) Ction in Tilled Soils (C6)	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
rface Water Present? Yes No Depth (inches): ater Table Present? Yes No Depth (inches): turation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	PROLOGY Indicators: Indicators (minimum of one	magery (B		Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduce Recent Iron Reduce Stunted or Stresse	2, 4A, and 4B) Ites (B13) Odor (C1) Ineres along Living Roots Ced Iron (C4) Interest along Living Roots Ced Iron	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
ater Table Present? Yes No Depth (inches): turation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	POROLOGY Estland Hydrology Indicators: mary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial In Sparsely Vegetated Concave	magery (B		Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduce Recent Iron Reduce Stunted or Stresse	2, 4A, and 4B) Ites (B13) Odor (C1) Ineres along Living Roots Ced Iron (C4) Interest along Living Roots Ced Iron	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
turation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	POROLOGY Estland Hydrology Indicators: mary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial In Sparsely Vegetated Concave	magery (B e Surface (Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	2, 4A, and 4B) Ites (B13) Odor (C1) Ineres along Living Roots Ced Iron (C4) Ction in Tilled Soils (C6) Per Plants (D1) (LRR A) Remarks)	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
cludes capillary fringe) Yes	PUDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial In Sparsely Vegetated Concave eld Observations: urface Water Present? Yes	magery (B e Surface (Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	2, 4A, and 4B) Ites (B13) Odor (C1) Incres along Living Roots Ced Iron (C4) Incres along Living Roots Ced Iron (C4) Incres Along Control Incres Plants (D1) (LRR A) Incres Plants (D1)	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	PDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial In Sparsely Vegetated Concave eld Observations: urface Water Present? Yes ater Table Present?	magery (B e Surface (Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	2, 4A, and 4B) Ites (B13) Odor (C1) Incres along Living Roots Ced Iron (C4) Incres along Living Roots Ced Iron (C4) Incres Along Control Incres Plants (D1) (LRR A) Incres Plants (D1)	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
	PROLOGY Estland Hydrology Indicators: mary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial In Sparsely Vegetated Concave eld Observations: rface Water Present? Yes ster Table Present? Yes turation Present?	magery (B e Surface (Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redur Recent Iron Reduc Stunted or Stresse Other (Explain in F	2, 4A, and 4B) Ites (B13) Odor (C1) Ineres along Living Roots Ced Iron (C4) Ction in Tilled Soils (C6) Remarks) Remarks)	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
	PROLOGY Etland Hydrology Indicators: mary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial In Sparsely Vegetated Concave etld Observations: rface Water Present? Yes ster Table Present? Ves turation Present? Ves	magery (B e Surface (Water-Stained Lea (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reducement Iron Reducement Iron Reducement Iron Reducement (Explain in Figure 1) Depth (inchessible)	2, 4A, and 4B) Ites (B13) Odor (C1) Incres along Living Roots Ced Iron (C4) Incres along Living Roots Ced Iron (C4) Incres along Living Roots Ced Iron (C4) Incres Along Ces Plants (D1) (LRR A) Remarks) Incres Along Ces Plants (D1) (LRR A) Incres Along Ces Plants (D1)	(C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

ATTACHMENT B WETLAND RATING

RATING SUMMARY – Western Washington

Name of wetland (or ID #):	Parcel 0420222008	Date of site visit:	3/1/2022	
Rated by Altmann	Trained by	Ecology? ☑ Yes ☐ No	Date of training	03/08 &03/15
HGM Class used for rating	Riverine & Fresh Water Tidal	Wetland has multiple	e HGM classes? ☐	Yes ☑No
	not complete with out the figures of base aerial photo/map Pierce C		pe combined).	
OVERALL WETLAND CA	ATEGORY II (based o	n functions ⊡or special	characteristics \Box))
1. Category of wetland	d based on FUNCTIONS			
	Category I - Total score = 23 - 27	Score for each		
X	X Category II - Total score = 20 - 22			
Category III - Total score = 16 - 19			on three	
Category IV - Total score = 9 - 15			ratings	

FUNCTION	Improving Water Quality	Hydrologic	Habitat	
	List app	ropriate rating	(H, M, L)	
Site Potential	M	M	М	
Landscape Potential	M	Н	L	
Value	Н	Н	Н	Total
Score Based on Ratings	7	8	6	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	Category
Estuarine	
Wetland of High Conservation Value	
Bog	
Mature Forest	
Old Growth Forest	
Coastal Lagoon	
Interdunal	
None of the above	х

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	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
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	

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	В
Hydroperiods	H 1.2	В
Ponded depressions	R 1.1	В
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	В
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	В
Width of unit vs. width of stream (can be added to another figure)	R 4.1	В
Map of the contributing basin	R 2.2, R 2.3, R 5.2	Е
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	Α
polygons for accessible habitat and undisturbed habitat		A
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	С
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	D

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	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
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 questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
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	S 4.1	
(can be added to another figure)		
Boundary of area within 150 ft of the wetland (can be added to another figure)	S 2.1, S 5.1	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3	

HGM Classification of Wetland in Western Washington

For questions 1 -7, the criteria described must apply to the entire unit being rated. If 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 u	sually 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	g periods of annual low flow below 0.5 ppt (parts per thousand)?
	d as a Freshwater Tidal Fringe use the forms for Riverine wetlands. s an Estuarine wetland and is not scored. This method cannot be
2. The entire wetland unit is flat and precipe Groundwater and surface water runoff are	pitation is the only source (>90%) of water to it. NOT sources of water to the unit.
☑ NO - go to 3 If your wetland can be classified	☐ YES - The wetland class is Flats If as a Flats wetland, use the form for Depressional wetlands.
	nd is on the shores of a body of permanent open water (without any e of the year) at least 20 ac (8 ha) in size;
☑ NO - go to 4	☐ YES - The wetland class is Lake Fringe (Lacustrine Fringe)
	e can be very gradual), tland in one direction (unidirectional) and usually comes from seeps. tflow, or in a swale without distinct banks.
☑ NO - go to 5	\square YES - The wetland class is Slope
	ese type of wetlands except occasionally in very small and shallow ssions are usually <3 ft diameter and less than 1 ft deep).
 5. Does the entire wetland unit meet all or ☑ The unit is in a valley, or stream from that stream or river, ☑ The overbank flooding occurs at 	channel, where it gets inundated by overbank flooding
□ NO - go to 6	☑ YES - The wetland class is Riverine
NOTE: The Riverine unit can contain depi	ressions 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, some time during the year? <i>This means that any outlet, if present, is higher than the interior of the wetland.</i>				
□ NO - go to 7	\square YES - The wetland class is Depressional			
7. Is the entire wetland unit located in a very flat area we the unit does not pond surface water more than a few groundwater in the area. The wetland may be ditched,	inches. The unit seems to be maintained by high			
□ NO - go to 8	\square YES - The wetland class is Depressional			
8. Your wetland unit seems to be difficult to classify an	d probably contains several different HGM classes. For			

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.

NOTES and FIELD OBSERVATIONS:

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 during a			
flooding event:			
Depressions cover $> \frac{3}{4}$ area of wetland points = 8	2		
Depressions cover > ½ area of wetland points = 4	2		
Depressions present but cover < ½ 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 Cowardin			
classes)			
Trees or shrubs > 2 / ₃ area of the wetland points = 8			
\Box Trees or shrubs > $\frac{1}{3}$ area of the wetland points = 6	8		
\Box Herbaceous plants (> 6 in high) > 2 / ₃ area of the wetland points = 6			
Herbaceous plants (> 6 in high) > $\frac{1}{3}$ area of the wetland points = 3			
Trees, shrubs, and ungrazed herbaceous $< \frac{1}{3}$ area of the wetland points = 0			
Total for R 1 Add the points in the boxes above	10		
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 = $2 \text{ No} = 0$	2		
R 2.2. Does the contributing basin to the wetland include a UGA or			
incorporated area? Yes = 1 No = 0	1		
R 2.3. Does at least 10% of the contributing basin contain tilled fields,	_		
pastures, or forests that have been clearcut within the last 5 years? Yes = 1 $N_0 = 0$	0		
R 2.4. Is > 10% of the area within 150 ft of the wetland in land uses that	1		
generate pollutants? Yes = 1 No = 0	1		
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?	0		
Other Sources Yes = 1 No = 0			
Total for R 2 Add the points in the boxes above	4		
Rating of Landscape Potential If score is: 3 - 6 = H 1 or 2 = M 0 = L Record the rating on	the first page		
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	1		
tributary that drains to one within 1 mi? Yes = 1 No = 0	1		
R 3.2. Is the wetland along a stream or river that has TMDL limits for	1		
nutrients, toxics, or pathogens? Yes = 1 No = 0	ı		
R 3.3. Has the site been identified in a watershed or local plan as important			
for maintaining water quality? (answer YES if there is a TMDL for the	0		
drainage in which the unit is found) Yes = $2 \text{ No} = 0$			
Total for R 3 Add the points in the boxes above	2		
Rating of Value If score is: $2 - 4 = H$ $1 = M$ $0 = L$ Record the rating on	the first page		

RIVERINE AND FRESHWATER TIDAL FRINGE WETLANDS			
Hydrologic Functions - Indicators that site functions to reduce flooding and stream erosion			
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 flow and the width of the stream or river channel (distance between banks). Calculate the ratio: (average width of wetland)/(average width of stream between banks).			
If the ratio is more than 20 poin	ts = 9 2		
If the ratio is 10 - 20 poin	ts = 6		
If the ratio is 5 - < 10 poin	ts = 4		
If the ratio is 1 - < 5	ts = 2		
If the ratio is < 1 poin	ts = 1		
R 4.2. Characteristics of plants that slow down water velocities during floods: <i>Treat large woody debris as forest or shrub. Choose the points appropriate for the best description (polygons need to have >90% cover at person height. These are <u>NOT Cowardin</u> classes).</i>			
Forest or shrub for $> \frac{1}{3}$ area OR emergent plants $> \frac{2}{3}$ area poin	ts = 7		
Forest or shrub for $> \frac{1}{10}$ area OR emergent plants $> \frac{1}{3}$ area poin	ts = 4		
Plants do not meet above criteria poin	ts = 0		
Total for R 4 Add the points in the boxes a	above 9		
Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L Record the rate	ting on the first page		
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	lo = 1 1		
R 5.2. Does the up-gradient watershed include a UGA or incorporated area? Yes = 1 N	lo = 0 1		
R 5.3 Is the up-gradient stream or river controlled by dams? Yes = $0 N$	lo = 1 1		
Total for R 5 Add the points in the boxes a	above 3		
Rating of Landscape Potential If score is:	ting on the first page		
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 result in damage to human or natural resources (e.g., houses or salmon redds)	2 ts = 2		
Surface flooding problems are in a sub-basin farther down-gradient poin	ts = 1		
	ts = 0		
R 6.2. Has the site been identified as important for flood storage or flood	0		
	lo = 0 0		
Total for R 6 Add the points in the boxes a	above 2		

Wetland name or numberA		
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 habitat?		
H 1.1. Structure of plant community: <i>Indicators are Cowardin classes and strata within the Forested class</i> . Check the Cowardin plant classes in the wetland. <i>Up to 10 patches may be combined for each class to meet the threshold of ¼ ac or more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked.</i>		
 □ Aquatic bed □ Emergent □ Scrub-shrub (areas where shrubs have > 30% cover) □ Forested (areas where trees have > 30% cover) □ If the unit has a Forested class, check if: □ The Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/ground-cover) that each cover 20% within the Forested polygon 	1	
H 1.2. Hydroperiods Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland or ¼ ac to count (see text for descriptions of hydroperiods).		
 □ Seasonally 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 	1	
□ Lake Fringe wetland□ Freshwater tidal wetland2 points2 points		
H 1.3. Richness of plant species		
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 have to name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canadian thistle	2	
If you counted: > 19 species points = 2 5 - 19 species points = 1 < 5 species		
H 1.4. Interspersion of habitats Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high. None = 0 points Low = 1 point Moderate = 2 points All three diagrams in this row are HIGH = 3 points	0	

Wetland name of numberA	1
H 1.5. Special habitat features:	
Check the habitat features that are present in the wetland. <i>The number of checks is the number</i>	
of points.	
☑ Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long)	
☑ 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	0
least 33 ft (10 m)	3
☐ 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</i>	
that have not yet weathered where wood is exposed)	
☐ 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>) ☐ Invasive plants cover less than 25% of the wetland area in every stratum of plants (<i>see</i>	
\Box invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of strata)	
'	7
Total for H 1 Add the points in the boxes above Rating of Site Potential If Score is: ☐ 15 - 18 = H ☑ 7 - 14 = M ☐ 0 - 6 = L Record the rating on	-
Rating of Site Potential if Score is. 15-16-11 7-14-11 10-6-1 Record the fating of	ine insi paye
H 2.0. Does the landscape have the potential to support the habitat function of the site?	
H 2.1 Accessible habitat (include only habitat that directly abuts wetland unit).	
Calculate:	
0.4 % undisturbed habitat + (0 % moderate & low intensity land uses / 2) = 0.4%	
If total accessible habitat is:	0
$> \frac{1}{3}$ (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 = 0	
H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.	
Calculate:	
0 % undisturbed habitat + (18 % moderate & low intensity land uses / 2) = 9%	
	0
Undisturbed habitat > 50% of Polygon points = 3	U
Undisturbed habitat 10 - 50% and in 1-3 patches points = 2	
Undisturbed habitat 10 - 50% and > 3 patches points = 1	
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)	-2
≤ 50% of 1km Polygon is high intensity points = 0	
Total for H 2 Add the points in the boxes above	-2
Rating of Landscape Potential If Score is: 4 - 6 = H 1 - 3 = M 2 < 1 = L Record the rating on	the first page
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? <i>Choose</i>	
only the highest score that applies to the wetland being rated.	
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	2
Department of Natural Resources	
☐ 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) with in 100m points = 1	
Site does not meet any of the criteria above points = 0	
Rating of Value If Score is: 2 = H 1 = M 0 = L Record the rating on	the first page

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

PO Box 578 Carnation, WA 98014 Office (425) 333-4535 Fax (425) 333-4509

Environmenta Planning & Landscape Architecture

City of Puyallup Parcel 042022-2008

Figure A

AOA - 6739



1 Km Habitat Classification Polygon

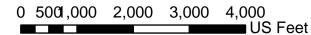
Accessible Relatively Undisturbed Habitat 0.4%

Accessible Low_Moderate Intensity Habitat 0%

Accessible Relatively Undisturbed Habitat 0%

Low_Moderate Intensity Habitat 18.0%

WW High Intensity Habitat 81.6%





Carnation, WA 98014

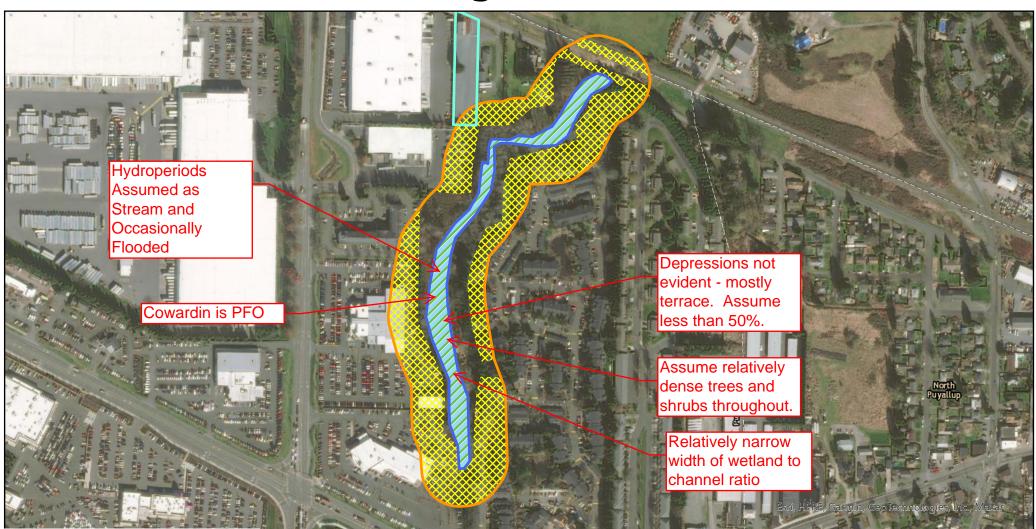
Office (425) 333-4535 Fax (425) 333-4509

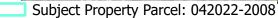
Environmental Planning & Landscape Architecture

City of Puyallup Parcel 042022-2008

Figure B

AOA-6739

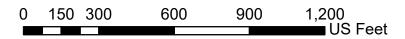




Approximate Wetland A

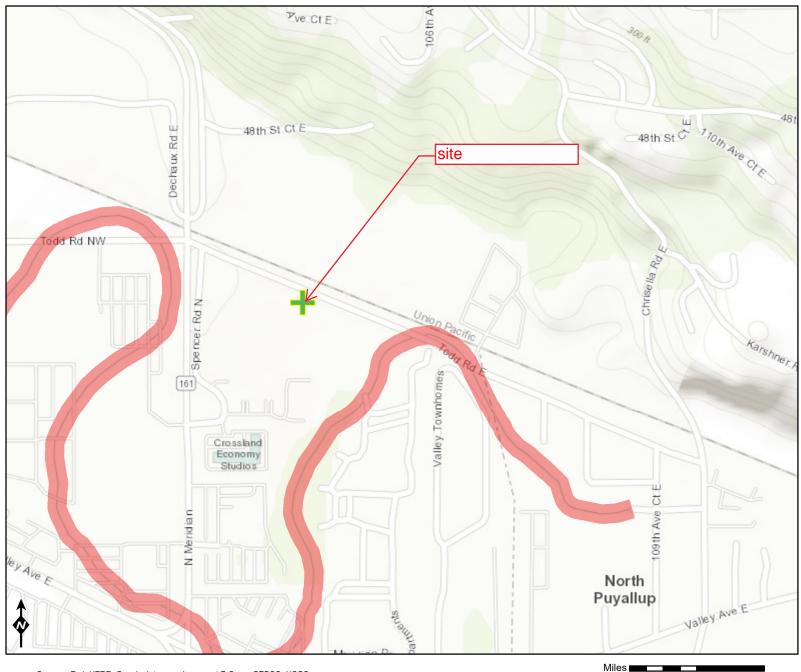
150' Pollution Assessment Polygon

Pollution Generating Surfaces 64.6%





6739 Figure C



Assessed Water/Sediment

Water

🤟 Category 5 - 303d

Category 4C

Category 4B

Category 4A

Category 2

Category 1

Sediment

Category 5 - 303d

ZZZZ Category 4C

Category 4B

Category 4A

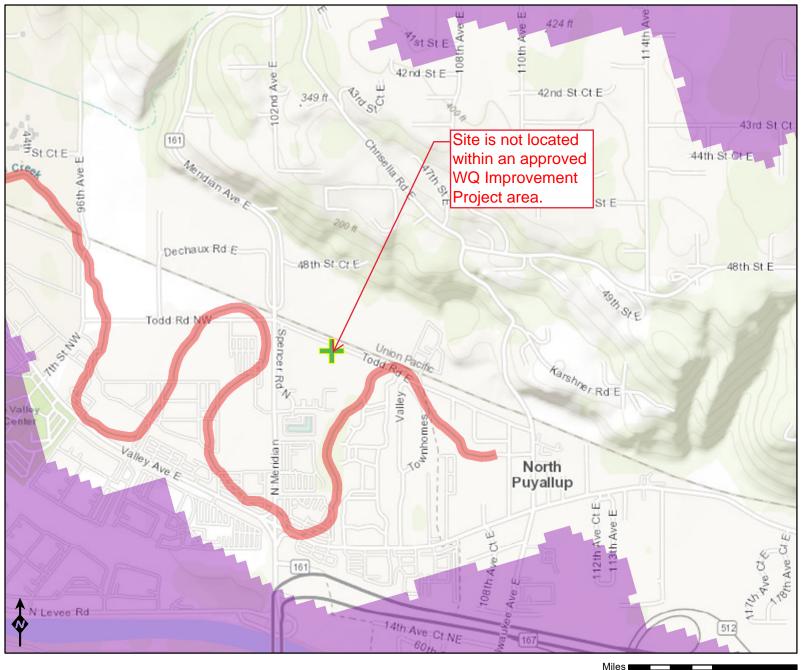
Category 2

State of Washington

0.05 0.1

0.2

6739 Figure D



Assessed Water/Sediment

Water

Category 5 - 303d

Category 4C

Category 4B

Category 4A

Category 2

Category 1

Sediment

Category 5 - 303d

ZZZZ Category 4C

ZZZ Category 4B

Category 2

WQ Improvement Projects

Approved

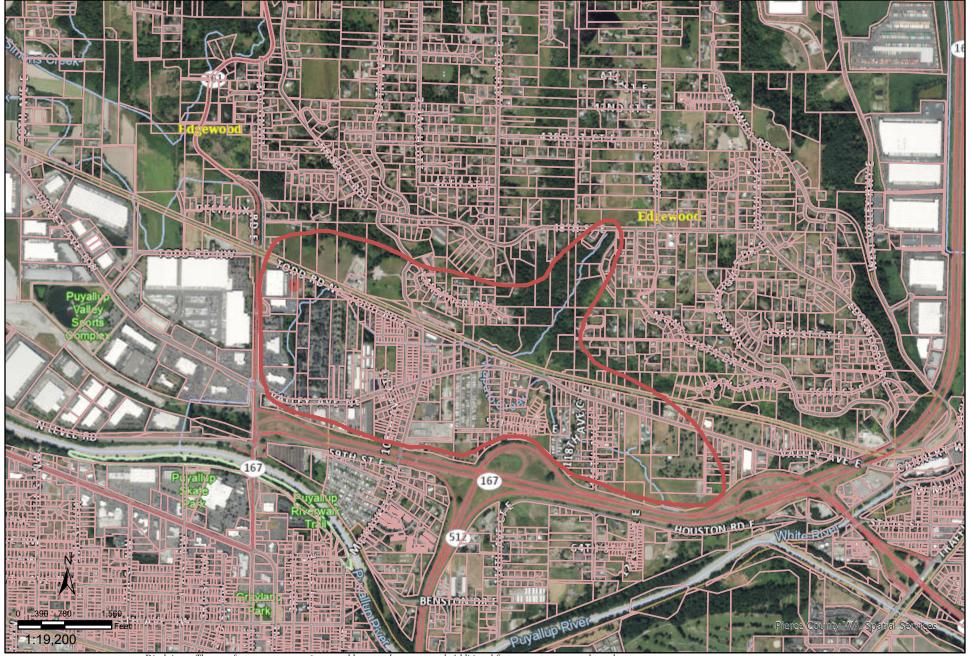
In Development



0.5

Figure E Rough Basin





Disclaimer: The map features are approximate and have not been surveyed. Additional features not yet mapped may be present.

Pierce County assumes no liability for variations ascertained by formal survey.

Date: 3/17/2022 10:44 AM