



<b>STAFF USE ONLY</b>	
CA REPORT	REQUIRED
EXEMPT FROM CAO	

## PLANNING DIVISION CRITICAL AREA IDENTIFICATION FORM

Revised 9/06

**This identification form is to be submitted in advance or concurrently with a project application if the proposed project is subject to the requirements found in the City's critical area code PMC 21.06. The purpose of this form is to determine if a critical area report is required due to the development site being on or near any critical areas. Please fill out this form completely where applicable.**

### APPLICATION INFORMATION

<b>OWNER INFORMATION</b>		
NAME: <b>Step By Step, Krista Linden, Founder and CEO</b>		
STREET ADDRESS: <b>3303 #A 8th Ave SE, Puyallup, WA 98371</b>		
CITY: <b>Puyallup</b>	STATE: <b>WA</b>	ZIP CODE: <b>98372</b>
PHONE: <b>(253) 896-0903</b>	EMAIL: <a href="mailto:kristalinden@stepbystepfamily.org">kristalinden@stepbystepfamily.org</a>	
<b>CONTACT INFORMATION (IF DIFFERENT FROM ABOVE)</b>		
NAME: <b>Jeff Brown</b>		
STREET ADDRESS: <b>12181 C Street S</b>		
CITY: <b>Tacoma</b>	STATE: <b>WA</b>	ZIP CODE: <b>98444</b>
PHONE: <b>253-606-8324</b> Mobile: <b>253-606-8324</b>	EMAIL: <a href="mailto:jeff@jeffbrowarchitecture.com">jeff@jeffbrowarchitecture.com</a>	

<b>Project Name: SBS Boundary Line Adjustment</b>	
PARCEL NUMBER(S): <b>0420264018, 0420264007 (+/- western 2/3)</b>	
ADDRESS: <b>506 33rd Street SE, Puyallup, WA 98372</b>	
APPLICANT INFORMATION: <b>Kenneth W. Shipley, PLS</b>	
ADDRESS: <b>12100 NE 195<sup>th</sup> Street, Suite 300, Bothell, WA 98011</b>	
EMAIL: <a href="mailto:kws@coredesign.com">kws@coredesign.com</a>	PHONE: <b>425-885-7877</b>
<b>Briefly describe the proposed development project:</b>	
Nothing proposed at this time.	

**Based on the proponent’s knowledge and research of the project site, please select any of the critical areas listed below that are located on or within 300 feet of the property boundaries?**

<input checked="" type="checkbox"/> Wetlands [1000+ ft. offsite]	<input type="checkbox"/> Lakes/Ponds	<input type="checkbox"/> Streams/Creeks
<input checked="" type="checkbox"/> Slopes 0% - 15% [offsite]	<input type="checkbox"/> Slopes 16% – 39% [offsite]	<input type="checkbox"/> Slopes 40% or Greater
<input type="checkbox"/> Puyallup River Shoreline	<input type="checkbox"/> Clarks Creek Shoreline	<input type="checkbox"/> Volcanic Hazard Areas
<input type="checkbox"/> Shoreline Classification	<input type="checkbox"/> Wellhead Protection Area	<input type="checkbox"/> Habitat Conservation Area
<input type="checkbox"/> Conservancy	<input type="checkbox"/> Flood Zones	<input type="checkbox"/> Habitat Corridor
<input type="checkbox"/> Rural	<input type="checkbox"/> Flood Classification:	<input type="checkbox"/> Aquifer Recharge Area
	<input type="checkbox"/> Urban	

**Please describe the critical areas checked above and their location in relation to the proposed development: Please show their location on any plans to be submitted**

No offsite wetlands appear to be located within 300 feet of this project site. The nearest known offsite wetland appears to be south of the project site and separated by more than 1000 feet from the site. This offsite wetland was studied by John Comis Associates, LLC (JCA) in 2020 (revised 2021) for the Abbey Road Group, report titled “Verification Report for the Wetland & Stream Delineations at “EAST TOWN CROSSING”, Project #06-171” (Parcel Nos. 0420264021, 0420264053, 0420264054, 0420351066, 0420351026, 0420351029, 0420351030). The offsite wetland and downstream drainage ditches are separated from the Step-By-Step project site by uplands, a city street and a main-line railroad grade. The offsite buffer width was 50 feet, which does not extend to the Step-By-Step project site. Please refer to the offsite wetland rating completed by JCA in 2020 for offsite wetland information. There are no onsite wetlands found within this project site (see Field Data Forms by JCA, attached, dated 11/17/2022.

**Do you know of any present or past critical area studies that have been conducted for critical areas on-site or adjacent to the site? (Please describe below)**

Yes, see comment above:

- Wetland Verification Report for the Wetland & Stream Delineations at “EAST TOWN CROSSING”, by John Comis Associates (JCA), dtd 3/24/2020
- Wetland Verification Report for parcel #0420264021 by John Comis Associates, dtd 11/9/2004
- Wetland Analysis Report for parcel #0420264021, by John Comis Associates, dtd June 25, 2002
- Piezometer Monitoring Study for the “Shaw Road Extension Project”, by JCA, dtd August 15, 2001

**Do you know if any critical areas have been placed inside a tract or a protection easement that is recorded on the title or plat for this site or any adjacent site? Please describe below, including name of tract or easement, location, and Puyallup permit number or recording number**

NONE KNOWN.

**AUTHORIZATION:**

I, the undersigned hereby certify that this application has been made with the consent of the lawful property owner(s) and that all information submitted on or with this application is complete and correct. I understand that false statements, errors, and/or omissions may be sufficient cause for denial of any related applications. I acknowledge that if the City needs to obtain the services of an expert third party to review any technical information regarding my proposal, that I shall be responsible for any financial costs of said third party review.

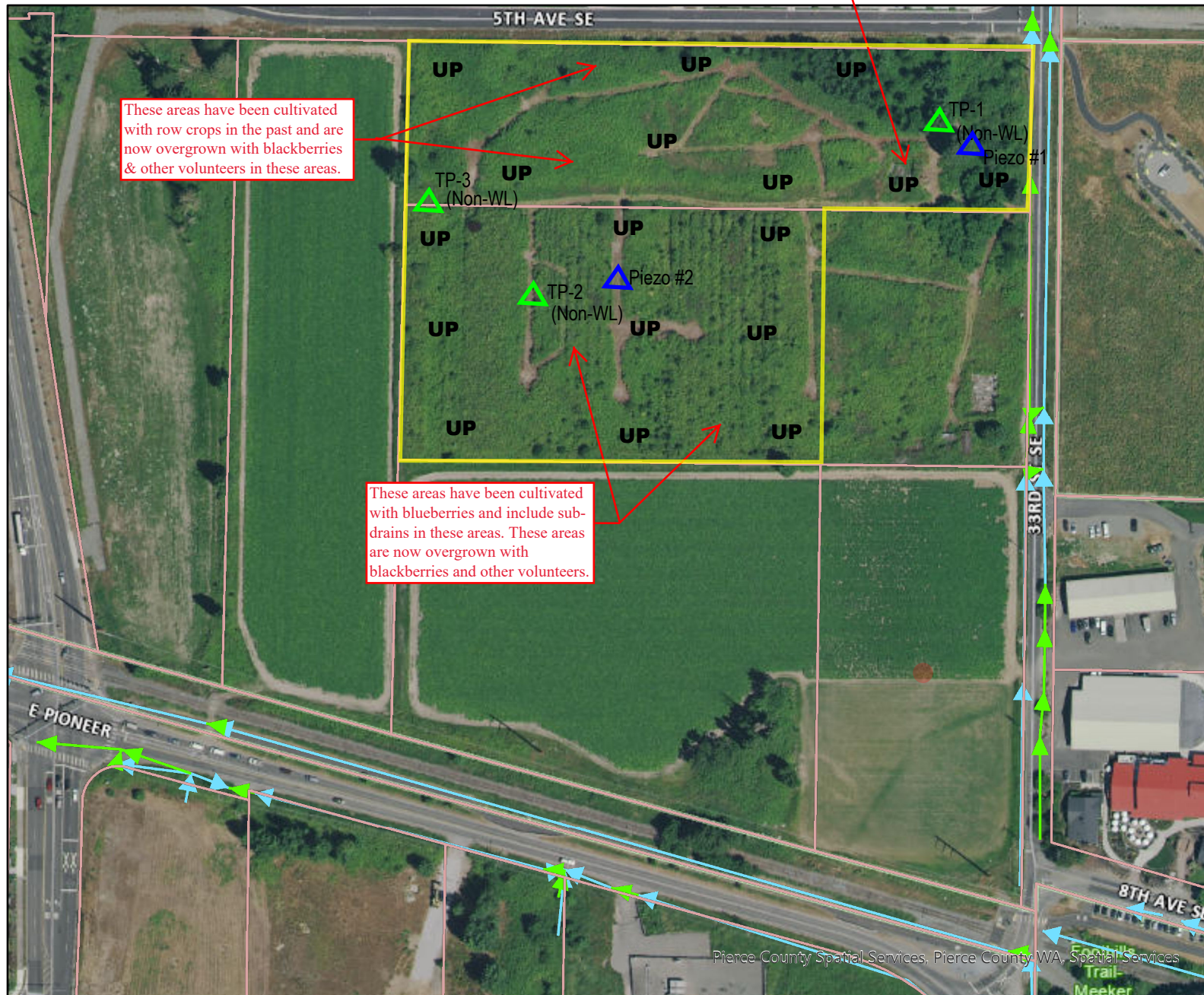
  
**AUTHORIZED SIGNATURE** **DATE** 11.22.22

<b>THIS BOX FOR STAFF USE ONLY</b>		
<b>CRITICAL AREA REPORT REQUIRED:</b>	<input type="checkbox"/> <b>YES</b>	<input type="checkbox"/> <b>NO</b>
<b>EXEMPT FROM CRITICAL AREA ORDINANCE:</b>	<input type="checkbox"/> <b>YES</b>	<input type="checkbox"/> <b>NO</b>
<b>EXCEPTION FOR MINOR NEW DEVELOPMENT IN BUFFER:</b>	<input type="checkbox"/> <b>YES</b>	<input type="checkbox"/> <b>NO</b>
<b>STAFF VERIFICATION</b>	<b>COMMENTS</b>	
<input type="checkbox"/> <b>WETLAND</b>  <input type="checkbox"/> <b>GEOLOGICAL HAZARD AREA</b>  <input type="checkbox"/> <b>VOLCANIC HAZARD AREA</b>  <input type="checkbox"/> <b>FLOOD ZONE</b>  <input type="checkbox"/> <b>FISH AND WILDLIFE HABITAT</b>  <input type="checkbox"/> <b>AQUIFER RECHARGE/WELLHEAD</b>  <input type="checkbox"/> <b>STREAM/SHORELINE</b>		









This appears to be an old homestead location with no "wetland"

These areas have been cultivated with row crops in the past and are now overgrown with blackberries & other volunteers in these areas.

These areas have been cultivated with blueberries and include sub-drains in these areas. These areas are now overgrown with blackberries and other volunteers.

### Legend

**Hydro - Centerlines**

- Hydro Centerline
- - - Pipe

**Storm Drainage Main Lines**

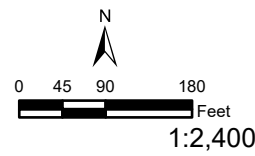
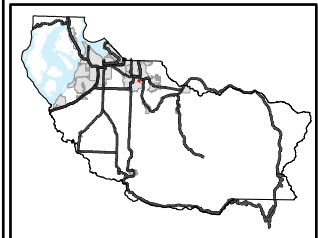
- ▶ Perforated
- ▶ Solid

**Other Features**

- ▭ Tax Parcels
- ▶ Storm Drainage Open Channels = Piezometer (set by others)
- ▲ Piezometer
- ▲ Test Plot (Non-WL)

Findings by John Comis Associates, LLC, 11/17/2022

**UP** = Upland (non-wetland)  
**TP** = Test Plot, blue & green flags on wood stakes

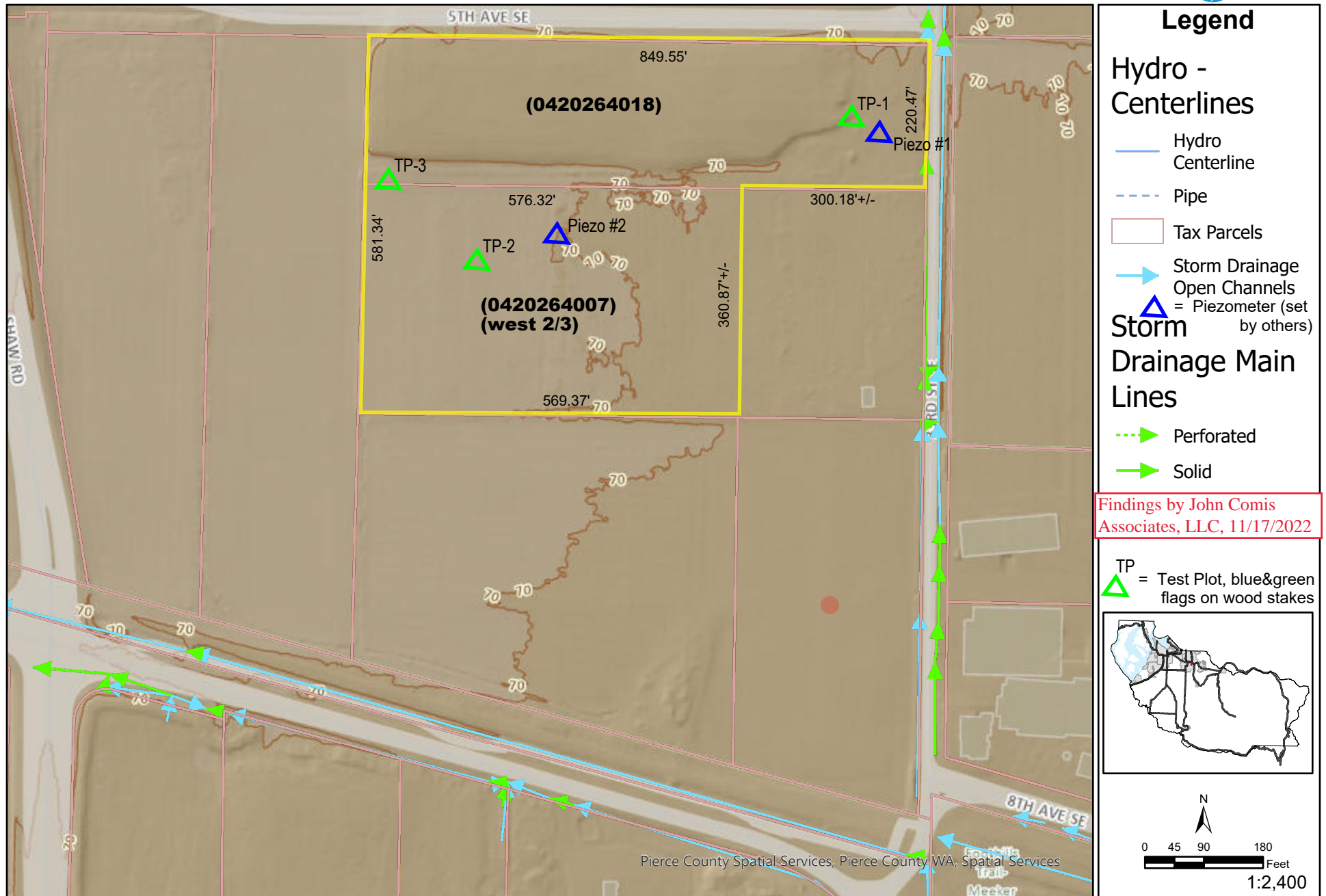


Disclaimer: The map features are approximate and have not been surveyed. Additional features not yet mapped may be present. Pierce County assumes no liability for variations ascertained by formal survey.

**Aerial Map with County GIS Storm Drains & JCA Test Plot Locations**

Date: 9/8/2022 09:53 AM

**Figure 2**



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.

**Terrain Map with County GIS Storm Drains & JCA Test Plot Locations**

Date: 9/8/2022 09:50 AM

**Figure 3**





Pierce County Spatial Services, Pierce County WA, Spatial Services

**Legend**

- Hydric Soils
- Hydro - Centerlines**
  - Hydro Centerline
  - Pipe
  - Hydro Water Bodies
- Wetlands**
  - Unconfirmed
  - Yes
  - No
- Wetlands Delineation**
  - Delineated
  - Verified
  - Unverified
  - Tax Parcels
  - Storm Drainage Open Channels
- Storm Drainage Main Lines**
  - Perforated
  - Solid

0 95 190 380 Feet  
1:4,800

*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.*

**County GIS Map of Hydric Soils, Storm Drainage, & Wetland Features**

Date: 9/14/2022 06:40 PM

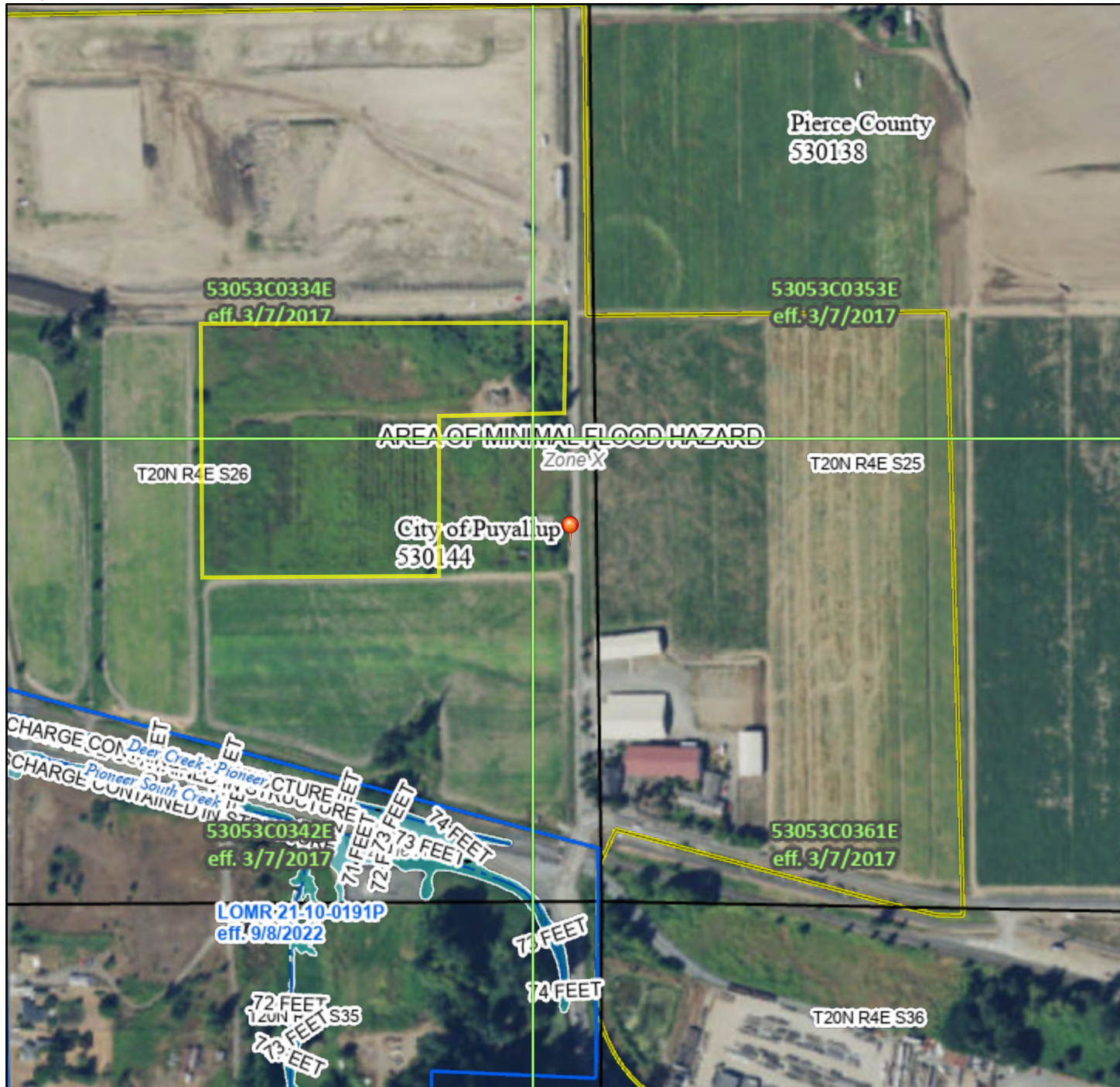
**Figure 4**



# National Flood Hazard Layer FIRMeTte



122°15'22"W 47°11'24"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- |                                    |  |   |
|------------------------------------|--|---|
| <b>SPECIAL FLOOD HAZARD AREAS</b>  |  | Without Base Flood Elevation (BFE)<br>Zone A, V, A99  |
|                                    |  | With BFE or Depth Zone AE, AO, AH, VE, AR   |
|                                    |  | Regulatory Floodway   |
| <b>OTHER AREAS OF FLOOD HAZARD</b> |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
|                                    |  | Future Conditions 1% Annual Chance Flood Hazard Zone X  |
|                                    |  | Area with Reduced Flood Risk due to Levee. See Notes. Zone X  |
|                                    |  | Area with Flood Risk due to Levee Zone D  |
| <b>OTHER AREAS</b>                 |  | NO SCREEN Area of Minimal Flood Hazard Zone X   |
|                                    |  | Effective LOMRs   |
| <b>GENERAL STRUCTURES</b>          |  | Area of Undetermined Flood Hazard Zone D  |
|                                    |  | Channel, Culvert, or Storm Sewer  |
|                                    |  | Levee, Dike, or Floodwall   |
| <b>OTHER FEATURES</b>              |  | 20.2 Cross Sections with 1% Annual Chance   |
|                                    |  | 17.5 Water Surface Elevation  |
|                                    |  | Coastal Transect  |
|                                    |  | Base Flood Elevation Line (BFE)   |
|                                    |  | Limit of Study  |
| <b>MAP PANELS</b>                  |  | Jurisdiction Boundary   |
|                                    |  | Coastal Transect Baseline   |
|                                    |  | Profile Baseline  |
|                                    |  | Hydrographic Feature  |
|                                    |  | Digital Data Available  |
|                                    |  | No Digital Data Available   |
|                                    |  | Unmapped  |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/15/2022 at 11:24 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

**Figure 5**





September 15, 2022

**Wetlands**

- |  |   |  |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland       |  Lake     |
|  Estuarine and Marine Wetland   |  Freshwater Forested/Shrub Wetland |  Other    |
|  |  Freshwater Pond                   |  Riverine |

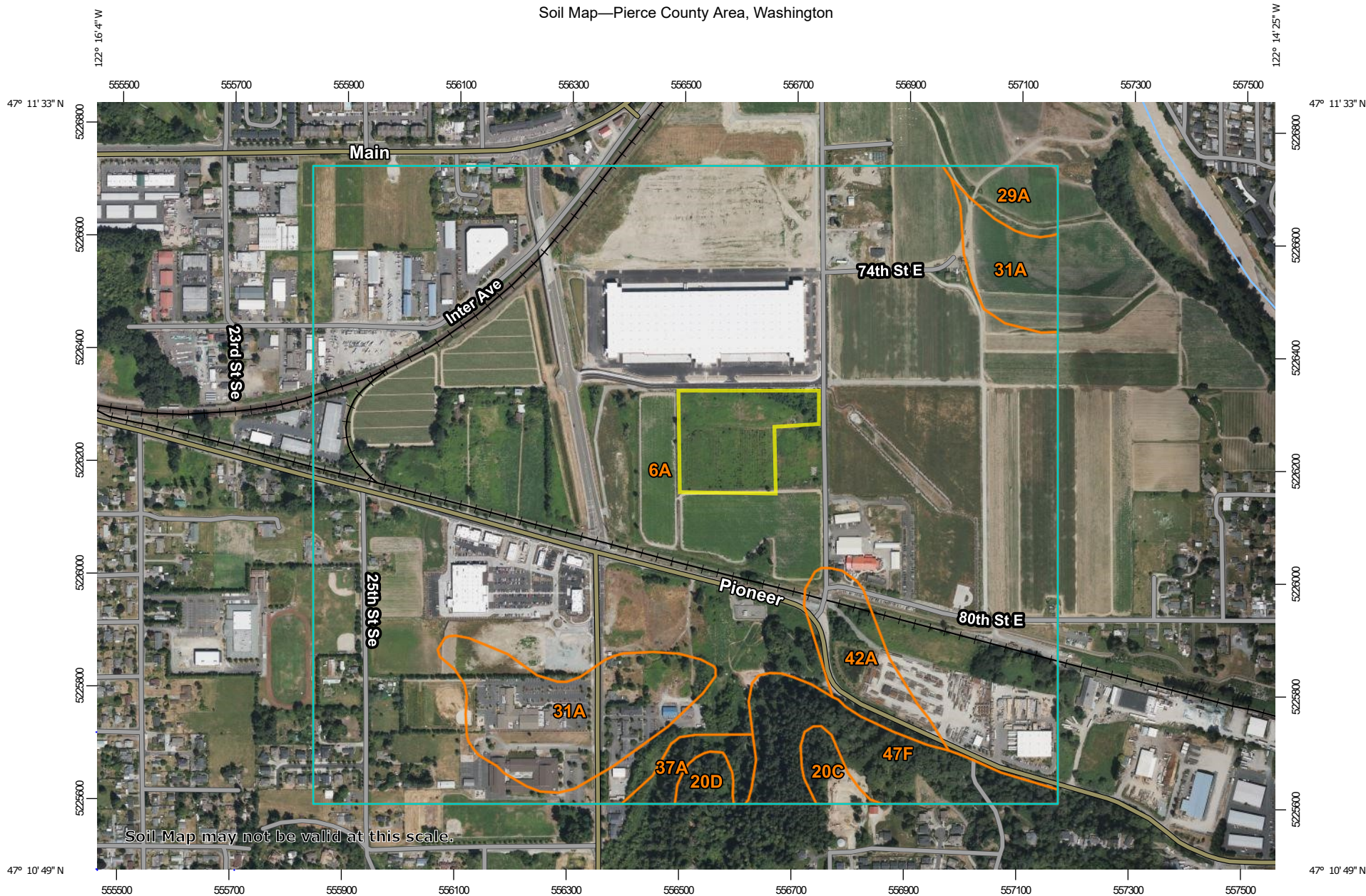
**USF&W National Wetland Inventory (NWI) Map for Study Area**

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

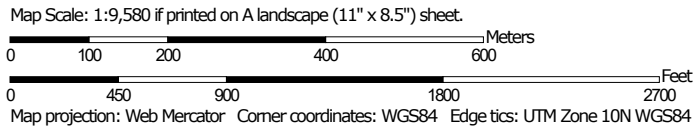
**Figure 6**

National Wetlands Inventory (NWI)  
This page was produced by the NWI mapper





Soil Map may not be valid at this scale.



### USDA-NRCS Soils Survey Map for Study Area

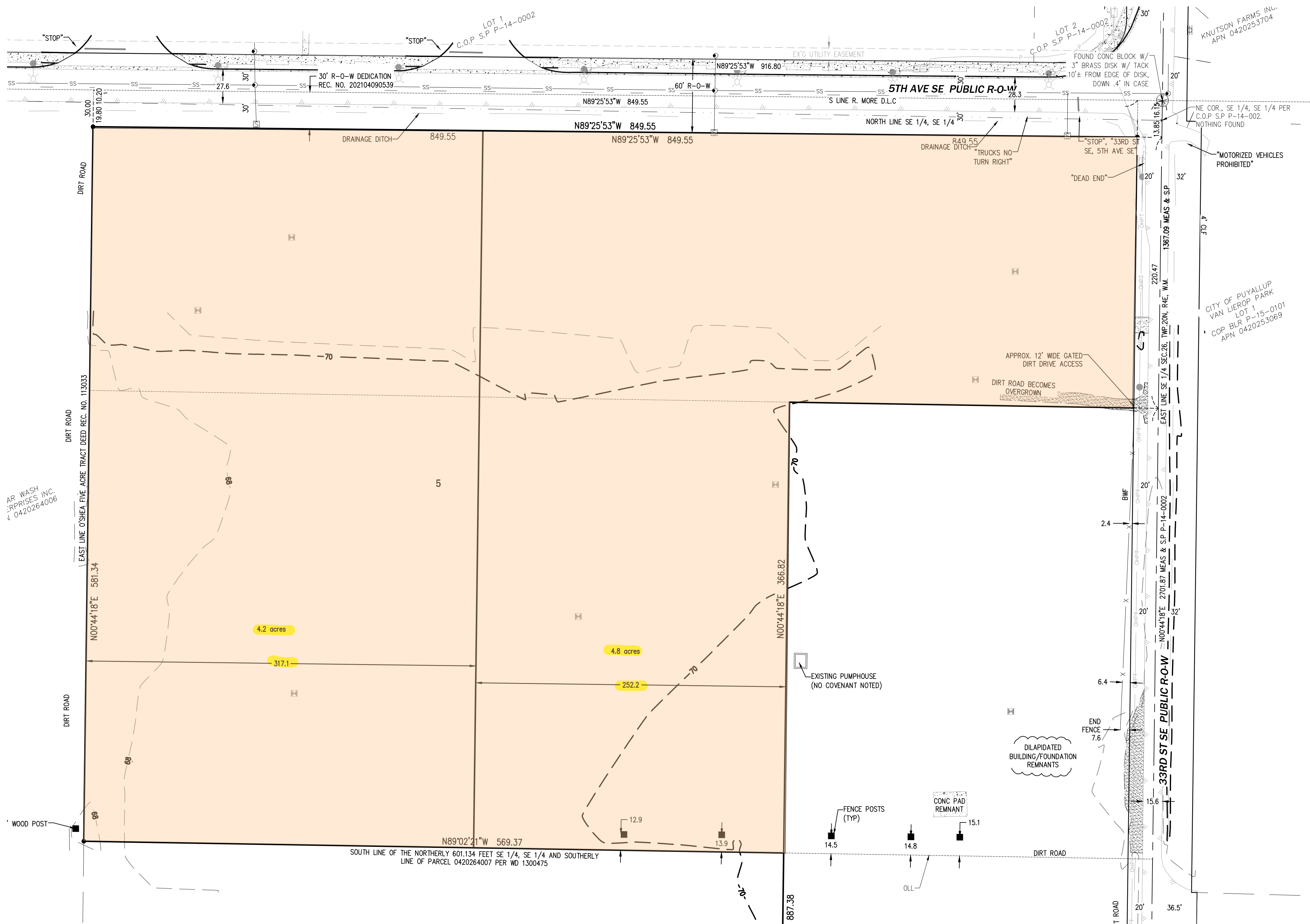
### Figure 7



## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6A	Briscot loam	309.7	83.2%
20C	Kitsap silt loam, 8 to 15 percent slopes	2.5	0.7%
20D	Kitsap silt loam, 15 to 30 percent slopes	1.9	0.5%
29A	Pilchuck fine sand	4.5	1.2%
31A	Puyallup fine sandy loam	26.5	7.1%
37A	Semiahmoo muck	3.4	0.9%
42A	Sultan silt loam	8.6	2.3%
47F	Xerochrepts, 45 to 70 percent slopes	14.9	4.0%
<b>Totals for Area of Interest</b>		<b>372.1</b>	<b>100.0%</b>

(Note the Briscot loam soil series may have inclusions of Puyallup fine sandy loam within this map unit.)



**Site Survey for Farm12 @ 5th Ave E in Puyallup**

**Figure 8**

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

Project Site: 506 33<sup>rd</sup> St. SE City/County: Puyallup / Pierce Sampling Date: 11/17/2020  
 Applicant/Owner: Jeff Brown & Step-By-Step (Krista Linden) State: WA Sampling Point: TP-1  
 Investigator(s): John G. Comis, John Comis Associates LLC Section, Township, Range: SE ¼ of the SE ¼ of Section 26-T20N-R4E  
 Landform (hillslope, terrace, etc.): Flat valley land Local relief (concave, convex, none): Linear Slope (%): 0-2  
 Subregion (LRR): Northwest Forests & Coasts, LRR A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NGDV-88  
 Soil Map Unit Name: Briscot Loam NWI classification: LRR-A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation Soil or Hydrology naturally problematic?

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

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: This test plot is non-wetland by soils and hydrology.					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: <u>10 ft r</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. <u><i>Alnus rubra</i></u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)																
2.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)																
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
4.																				
<b>50% = <u>25</u>, 20% = <u>10</u></b>	<b><u>50</u></b>	<b>= Total Cover</b>																		
<u>Sapling/Shrub Stratum (Plot size: _____)</u>																				
1.				<b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;"><u>Total % Cover of:</u></td> <td style="text-align: right;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>100</u></td> <td>x3 = <u>300</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>300</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.00</u></td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species <u>0</u>	x1 = <u>0</u>	FACW species <u>0</u>	x2 = <u>0</u>	FAC species <u>100</u>	x3 = <u>300</u>	FACU species <u>0</u>	x4 = <u>0</u>	UPL species <u>0</u>	x5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>300</u> (B)	Prevalence Index = B/A = <u>3.00</u>	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species <u>0</u>	x1 = <u>0</u>																			
FACW species <u>0</u>	x2 = <u>0</u>																			
FAC species <u>100</u>	x3 = <u>300</u>																			
FACU species <u>0</u>	x4 = <u>0</u>																			
UPL species <u>0</u>	x5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>300</u> (B)																			
Prevalence Index = B/A = <u>3.00</u>																				
2.																				
3.																				
4.																				
5.																				
<b>50% = _____, 20% = _____</b>		<b>= Total Cover</b>																		
<u>Herb Stratum (Plot size: _____)</u>																				
1.				<b>Hydrophytic Vegetation Indicators:</b> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants <sup>1</sup> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.																				
3.																				
4.																				
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7.																				
8.																				
9.																				
10.																				
11.																				
<b>50% = _____, 20% = _____</b>		<b>= Total Cover</b>																		
<u>Woody Vine Stratum (Plot size: <u>5ft r</u>)</u>																				
1. <u><i>Rubus armeniacus</i></u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Present?</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%;">Yes</td> <td style="width: 10%;">No <input checked="" type="checkbox"/></td> <td style="width: 10%;"></td> </tr> </table>		Yes	No <input checked="" type="checkbox"/>													
	Yes	No <input checked="" type="checkbox"/>																		
2.																				
<b>50% = <u>25</u>, 20% = <u>10</u></b>	<b><u>50</u></b>	<b>= Total Cover</b>																		
% Bare Ground in Herb Stratum																				
Remarks: Vegetation in this area was an equal split between Himalayan blackberry and red alder. Both the dominance and prevalence test indicate hydrophytic vegetation are present.																				



Project Site:

Sampling Point: **TP-1**

**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10 yr 3/3	100	none				Fine sandy loam	Little to no redoxic features
<sup>1</sup> Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix								
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>				<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
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) <b>(except MLRA 1)</b>		Very Shallow Dark Surface (TF12)				
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)				
Depleted Below Dark Surface (A11)		Depleted Matrix (F3)						
Thick Dark Surface (A12)		Redox Dark Surface (F6)						
Sandy Mucky Mineral (S1)		Depleted Dark Surface (F7)				<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Sandy Gleyed Matrix (S4)		Redox Depressions (F8)						
<b>Restrictive Layer (if present):</b>								
Type:								
Depth (inches):				<b>Hydric Soils Present?</b>		<b>Yes      No      <input checked="" type="checkbox"/></b>		
Remarks: No hydric soils or redoxic features were found to bottom of test hole at 18".								

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)	
Surface Water (A1)	Water-Stained Leaves (B9)	Water-Stained Leaves (B9)	
High Water Table (A2)	<b>(except MLRA 1, 2, 4A, and 4B)</b>	<b>(MLRA 1, 2, 4A, and 4B)</b>	
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) <b>(LRR A)</b>	Raised Ant Mounds (D6) <b>(LRR A)</b>	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)	
Sparsely Vegetated Concave Surface (B8)			
<b>Field Observations:</b>			
Surface Water Present?	Yes      No <input checked="" type="checkbox"/>	Depth (inches):	
Water Table Present?	Yes      No <input checked="" type="checkbox"/>	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes      No <input checked="" type="checkbox"/>	Depth (inches):	
		<b>Wetland Hydrology Present?      Yes      No      <input checked="" type="checkbox"/></b>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No hydrology was found at the bottom of the test hole (bottom at 18"). TP-1 is located about 25' northwest of Piezometer #1 where hydrology was present in the bottom 2" of a 141" deep tube. Piezometer #1 was set by others with a 2" diameter PVC tube, 141" long and at a depth of approx. 115" below ground level. We found about 2" of water in the bottom of the 115" deep piezo tube at a depth of approx. 113" below ground level.			

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

Project Site: 506 33<sup>rd</sup> St. SE City/County: Puyallup / Pierce Sampling Date: 11/17/2020  
 Applicant/Owner: Jeff Brown & Step-By-Step (Krista Linden) State: WA Sampling Point: TP-2  
 Investigator(s): John G. Comis, John Comis Associates LLC Section, Township, Range: SE ¼ of the SE ¼ of Section 26-T20N-R4E  
 Landform (hillslope, terrace, etc.): Flat valley land Local relief (concave, convex, none): Linear Slope (%): 0-2  
 Subregion (LRR): Northwest Forests & Coasts, LRR A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NGDV-88  
 Soil Map Unit Name: Briscot Loam NWI classification: LRR-A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation Soil or Hydrology naturally problematic? Yes  No

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

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: This test plot is non-wetland by soils and hydrology.					

### VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: <u>10ft r.</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. <u><i>Prunus emarginata</i></u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)																
2. <u><i>Cornus nuttallii</i></u>	<u>10</u>		<u>FACU</u>																	
3.				Total Number of Dominant Species Across All Strata: <u>4</u> (B)																
4.																				
<b>50% = <u>12.5</u>, 20% = <u>5</u></b>	<b><u>25</u></b>	<b>= Total Cover</b>		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)																
<u>Sapling/Shrub Stratum (Plot size: <u>5ft r.</u>)</u>																				
1. <u><i>Vaccinium corymbosum</i></u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	<b>Prevalence Index worksheet:</b> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>40</u></td> <td>x2 = <u>80</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>25</u></td> <td>x4 = <u>100</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>285</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.85</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x1 = <u>0</u>	FACW species <u>40</u>	x2 = <u>80</u>	FAC species <u>35</u>	x3 = <u>105</u>	FACU species <u>25</u>	x4 = <u>100</u>	UPL species <u>0</u>	x5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>285</u> (B)	Prevalence Index = B/A = <u>2.85</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x1 = <u>0</u>																			
FACW species <u>40</u>	x2 = <u>80</u>																			
FAC species <u>35</u>	x3 = <u>105</u>																			
FACU species <u>25</u>	x4 = <u>100</u>																			
UPL species <u>0</u>	x5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>285</u> (B)																			
Prevalence Index = B/A = <u>2.85</u>																				
2.																				
3.																				
4.																				
5.																				
<b>50% = <u>15</u>, 20% = <u>6</u></b>	<b><u>30</u></b>	<b>= Total Cover</b>		<b>Hydrophytic Vegetation Indicators:</b> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants <sup>1</sup> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
<u>Herb Stratum (Plot size: <u>5ft r.</u>)</u>																				
1. <u><i>Equisetum telmateia</i></u>	<u>10</u>		<u>FACW</u>																	
2. <u><i>Cirsium arvense</i></u>	<u>15</u>	<u>Y</u>	<u>FAC</u>																	
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
<b>50% = <u>12.5</u>, 20% = <u>5</u></b>	<b><u>25</u></b>	<b>= Total Cover</b>																		
<u>Woody Vine Stratum (Plot size: <u>5ft r.</u>)</u>																				
1. <u><i>Rubus armeniacus</i></u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Present?</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%;">Yes <input type="checkbox"/></td> <td style="width: 10%;">No <input checked="" type="checkbox"/></td> </tr> </table>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>													
	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>																		
2.																				
<b>50% = <u>10</u>, 20% = <u>4</u></b>	<b><u>20</u></b>	<b>= Total Cover</b>																		
% Bare Ground in Herb Stratum																				
Remarks: Based on the dominance and prevalence test, hydric vegetation is present in this area.																				

Project Site:

Sampling Point: **TP-2**

**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-15	10 yr 3/3	100	none				Fine sandy loam	Little to no redox
15-16	10 yr 3/3	96	7.5 yr 4/4	2			Fine sandy loam	Distinct mottles and croma @ 4%
			7.5 yr 4/2	2			Fine sandy loam	Distinct mottles and croma @ 4%

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	

<b>Restrictive Layer (if present):</b>			
Type:			
Depth (inches):	<b>Hydric Soils Present?</b>	<b>Yes</b>	<b>No</b> <input checked="" type="checkbox"/>
Remarks:	Distinct redoxic features were found below 15" in the soil but resulting in a non hydric determination for the soil above 12".		

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)	
Surface Water (A1)	Water-Stained Leaves (B9)	Water-Stained Leaves (B9)	
High Water Table (A2)	(except MLRA 1, 2, 4A, and 4B)	(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)			

<b>Field Observations:</b>			
Surface Water Present?	Yes	No	<input checked="" type="checkbox"/>
Water Table Present?	Yes	No	<input checked="" type="checkbox"/>
Saturation Present? (includes capillary fringe)	Yes	No	<input checked="" type="checkbox"/>
	Depth (inches):		
	Depth (inches):		
	Depth (inches):		
	<b>Wetland Hydrology Present?</b>	<b>Yes</b>	<b>No</b> <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology was not present in bottom of the test hole (bottom at 16"). Also note that at Piezometer #2 (located about 100' east of test plot #2), we found about 2" of water in the bottom of a 109" deep piezo tube at a depth of approx. 107" below ground level.			



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

Project Site: 506 33<sup>rd</sup> St. SE City/County: Puyallup / Pierce Sampling Date: 11/17/2020  
 Applicant/Owner: Jeff Brown & Step-By-Step (Krista Linden) State: WA Sampling Point: TP-3  
 Investigator(s): John G. Comis, John Comis Associates LLC Section, Township, Range: SE ¼ of the SE ¼ of Section 26-T20N-R4E  
 Landform (hillslope, terrace, etc.): Flat valley land Local relief (concave, convex, none): Linear Slope (%): 0-2  
 Subregion (LRR): Northwest Forests & Coasts, LRR A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NGDV-88  
 Soil Map Unit Name: Briscot Loam NWI classification: LRR-A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation Soil or Hydrology naturally problematic? Yes  No

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

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: This test plot is non-wetland by soils and hydrology.					

### VEGETATION – Use scientific names of plants

Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
<b>50% = _____, 20% = _____</b>		<b>= Total Cover</b>		<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Total % Cover of:</td> <td style="width: 50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>80</u></td> <td>x2 = <u>160</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>220</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.20</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x1 = <u>0</u>	FACW species <u>80</u>	x2 = <u>160</u>	FAC species <u>20</u>	x3 = <u>60</u>	FACU species <u>0</u>	x4 = <u>0</u>	UPL species <u>0</u>	x5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>220</u> (B)	Prevalence Index = B/A = <u>2.20</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x1 = <u>0</u>																			
FACW species <u>80</u>	x2 = <u>160</u>																			
FAC species <u>20</u>	x3 = <u>60</u>																			
FACU species <u>0</u>	x4 = <u>0</u>																			
UPL species <u>0</u>	x5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>220</u> (B)																			
Prevalence Index = B/A = <u>2.20</u>																				
<b>Sapling/Shrub Stratum (Plot size: _____)</b> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ <b>50% = _____, 20% = _____</b> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5ft r</u>)</b> 1. <u>Equisetum telmateia</u> <u>15</u> <u>FACW</u> 2. <u>Epilobium ciliatum</u> <u>15</u> <u>FACW</u> 3. <u>Phalaris arundinacea</u> <u>50</u> <u>Y</u> <u>FACW</u> 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ <b>50% = <u>40</u>, 20% = <u>16</u></b> <u>80</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>5ft r</u>)</b> 1. <u>Rubus armeniacus</u> <u>20</u> <u>Y</u> <u>FAC</u> 2. _____ <b>50% = <u>10</u>, 20% = <u>4</u></b> <u>20</u> = Total Cover % Bare Ground in Herb Stratum _____																				
<b>Hydrophytic Vegetation Indicators:</b> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants <sup>1</sup> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																				
1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																				
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
Remarks: Based on the dominance and prevalence test, hydric vegetation is present in this area.																				

Project Site:

**SOIL**

Sampling Point: **TP-3**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-15	10 yr 3/3	100	none				Fine sandy loam	Little to no redox
15-16	10 yr 3/3	96	7.5 yr 4/4	2			Fine sandy loam	Distinct mottles and croma @ 4%
16-18"	10yr3/2	96	7.5 yr 4/2	2			Fine sandy loam	Distinct mottles and croma @ 4%

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :	
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) <b>(except MLRA 1)</b>	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	

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

<b>Restrictive Layer (if present):</b>	
Type:	
Depth (inches):	<b>Hydric Soils Present?</b> <b>Yes</b> <b>No</b> <input checked="" type="checkbox"/>
Remarks: Distinct redoxic features were found below 15" in the soil but resulting in a non hydric determination for the soil above 12".	

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)	
Surface Water (A1)	Water-Stained Leaves (B9)	Water-Stained Leaves (B9)	
High Water Table (A2)	<b>(except MLRA 1, 2, 4A, and 4B)</b>	<b>(MLRA 1, 2, 4A, and 4B)</b>	
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) <b>(LRR A)</b>	Raised Ant Mounds (D6) <b>(LRR A)</b>	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)	
Sparsely Vegetated Concave Surface (B8)			

<b>Field Observations:</b>			
Surface Water Present?	Yes	No <input checked="" type="checkbox"/>	Depth (inches):
Water Table Present?	Yes	No <input checked="" type="checkbox"/>	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes	No <input checked="" type="checkbox"/>	Depth (inches):
			<b>Wetland Hydrology Present?</b> <b>Yes</b> <b>No</b> <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology was not present at bottom of test hole in this location (bottom at 18").			