



**CRITICAL AREA
DETERMINATION REPORT**

FOR

JENNINGS SUBSTATION

7728 & 7808 47TH AVE NE

MARYSVILLE, WA

Wetland Resources, Inc. Project #21261

Prepared By

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Prepared For

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November 22, 2021

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1.0 INTRODUCTION

Wetland Resources, Inc. (WRI) performed field inspections in January and February, 2012, and September, 2021, on the site located at 7728 & 7808 47th Avenue NE. The 3.21-acre property is composed of two tax parcels (Parcel A=30052100412500; Parcel B=30052100414500) and is located within the city limits of Marysville Washington (Section 21, Township 30N, Range 5E, W.M.). Access to the site is from the east via 47th Avenue NE.



Figure 1 – Aerial View of the Subject Property

1.1 SITE DESCRIPTION

Parcel A fronts along 47th Avenue NE and contains an existing cabinet shop in the eastern portion, with maintained grasses and a small patch of trees in the western portion. Parcel B is accessed from 47th Avenue NE via a narrow panhandle. The larger portion of Parcel B sits to the west. This parcel is undeveloped and is currently covered with maintained grasses and shrubs. A cellular telephone tower is located near the western end of the panhandle to Parcel B. Surrounding land use is a combination of residential and commercial to the north and east, with commercial development to the south and west.

The vegetated portions of the site contain mostly maintained grasses and forbs. A small patch of forest is located in the western portion of Parcel A, containing black cottonwood (*Populus balsamifera*; FAC) and Douglas fir (*Pseudotsuga menziesii*; FACU) with Himalayan blackberry (*Rubus armeniacus*) and Japanese knotweed (*Polygonum cuspidatum*) in the understory.

Soils underlying the site from the surface to ten inches below are generally very dark grayish brown (10YR 3/2) sandy loam. From ten to at least sixteen inches below the surface, soils are typically dark yellowish brown (10YR 3/4) sandy loam. Soils were dry during all of our site inspections.



Figure 2 – Photo of Subject Property (facing east)

2.0 REVIEW OF EXISTING INFORMATION

Prior to conducting the site investigations, publicly available resources were reviewed to gather background information. These sources include the USFWS National Wetlands Inventory (NWI), USDA/NRCS Web Soil Survey, Snohomish County PDS Map Portal, WDFW SalmonScape mapping tool, WDFW Priority Habitat and Species (PHS) Interactive Map, the DNR Forest Practices Application Mapping Tool (DNR-FPAMT), and the City of Marysville’s Online Critical Areas Map.

- United States Fish and Wildlife Service (USFWS) National Wetlands Inventory: NWI mapper displays the property being in between two riverine features. Quilceda Creek and associated wetlands along its corridor are mapped approximately 2,300 feet west of the property. Allen Creek with associated wetlands is mapped approximately 2,300 feet to the east.
- USDA/NRCS Web Soil Survey: The Web Soil Survey maps soils on the subject property as Ragnar fine sandy loam, 0 to 8 percent slopes (57), which is not listed a hydric soil. Observed soils were generally consistent with the mapped soil type.
- WDFW Priority Habitat and Species (PHS) Interactive Map: The PHS interactive map depicts the same features as NWI. Allen Creek is mapped well off-site to the east and is documented to contain Bull Trout (*Salvelinus confluentus*), Resident Cutthroat Trout

(*Oncorhynchus clarkii*), Coho (*O. kisutch*), and Chinook (*O. tshawytscha*). Quilceda Creek and a matrix of freshwater wetlands are mapped well off-site to the west. Quilceda Creek is documented to contain the same species as Allen Creek with the addition of Steelhead (*O. mykiss*) and Chum (*O. keta*).

- Washington Department of Fish and Wildlife (WDFW) SalmonScape Interactive Mapping System: SalmonScape depicts the same salmonid species described by PHS within the off-site streams, with the addition of being gradient accessible to odd-year Pink salmon (*Oncorhynchus gorbuscha*).
- Snohomish County PDS Map Portal: The PDS map portal does not show any documented critical areas on or near the subject property. A remote sensing-based wetland is shown on the western parcel, extending to 76th Street NE. This wetland polygon is derived from a predictive model and is not indicative actual wetlands. This feature was not found during our site inspections.
- Marysville WA Critical Areas Interactive Map: This source does not map any wetlands or streams on or near the site. Quilceda Creek and Allen Creek are located 2,300 feet off-site to the west and east, respectively.
- Washington Department of Natural Resources Forest Practices Application Mapping Tool (FPAMT): No wetlands or streams are mapped on or near the site by this source. Quilceda Creek is mapped as a Type S feature and Allen Creek is mapped as a Type F feature.

3.0 CRITICAL AREAS DELINEATION REPORT

3.1 WETLAND DELINEATION METHODOLOGY

Wetland conditions were identified using the methodologies described in the *Corps of Engineers Wetlands Delineation Manual (Final Report; January 1987)*, except where superseded by the *2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0, referred to as 2010 Regional Supplement)*. Our findings are consistent with these manuals. The following criteria descriptions were used in the wetland boundary determination:

- 1.) Examination of the site for hydrophytic vegetation (species present and percent cover);
- 2.) Examination of the site for hydric soils;
- 3.) Determining the presence of wetland hydrology

3.1.1 Hydrophytic Vegetation Criteria

The manuals define hydrophytic vegetation as the sum total of macrophytic plant life that occurs in areas where the frequency and duration of inundation or soil saturation produce permanently or periodically saturated soils of sufficient duration to exert a controlling influence on the plant species present. One of the most common indicators for hydrophytic vegetation is when more than

50 percent of a plant community consists of species rated “Facultative” and wetter on lists of plant species that occur in wetlands.

3.1.2 Soils Criteria and Mapped Description

The manuals define hydric soils as those that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part. Field indicators are used for determining whether a given soil meets the definition for hydric soils.

The soils underlying the site are mapped in the Soil Survey of Snohomish County Area Washington as Ragnar fine sandy loam, 0 to 8 percent slopes. Soils sampled on-site appear to match the description for these soils.

The Ragnar series is described as moderately well drained on outwash plains. The surface layer is typically a dark brown fine sandy loam about two inches thick. The upper part of the subsoil is dark brown and brown sandy loam about 22 inches thick. Included in this unit are areas of Everett, Indianola, Pastik and Wilson soils on terraces and outwash plains.

3.1.3 Hydrology Criteria

The 2010 Regional Supplement defines wetland hydrology as “areas that are inundated (flooded or ponded) or the water table is less than or equal to 12 inches below the soil surface for 14 or more consecutive days during the growing season at a minimum frequency of 5 years in 10.” During the early growing season, wetland hydrology determinations are made based on physical observation of surface water, a high water table, or saturation in the upper 12 inches. Outside of the early growing season, wetland hydrology determinations are made based on physical evidence of recent inundation or saturation (i.e. water marks, surface soil cracks, water-stained leaves).

3.2 STREAM DELINEATION METHODOLOGY

The ordinary high water marks (OHWM) of streams and waterbodies were identified using the methodology described in *Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State* (Anderson et al. 2016).

3.3 CRITICAL AREA BOUNDARY DETERMINATION FINDINGS

No wetlands, streams, or buffers are located on or near the subject property. Wetlands require a dominance of hydrophytic vegetation, hydric soils, and wetland hydrology to meet wetland criteria. Wetland hydrology and hydric soil indicators are not present anywhere on this site. Undeveloped areas off-site to the south appear to have the same characteristics.

4.0 CONCLUSION

No wetlands, streams, or buffers are located on or near the subject property. Wetlands require a dominance of hydrophytic vegetation, hydric soils, and wetland hydrology to meet wetland criteria. Wetland hydrology and hydric soil indicators are not present anywhere on this site. Undeveloped areas off-site to the south appear to have the same characteristics. The closest documented critical areas to the subject property are Quilceda Creek and Allen Creek, both of which are located more than 2,000 feet away from the subject property.

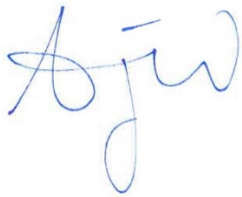
5.0 USE OF THIS REPORT

This Critical Area Determination Report is supplied to PUD No. 1 of Snohomish County as a means of determining the presence of on-site and nearby critical areas, as required by City of Marysville. This report is based largely on readily observable conditions and, to a lesser extent, on readily ascertainable conditions. No attempt has been made to determine hidden or concealed conditions.

The laws applicable to critical areas are subject to varying interpretations and may be changed at any time by the courts or legislative bodies. This report is intended to provide information deemed relevant in the applicant's attempt to comply with the laws now in effect.

This report conforms to the standard of care employed by wetland ecologists. No other representation or warranty is made concerning the work or this report and any implied representation or warranty is disclaimed.

Wetland Resources, Inc.



Alex Wachter
Associate Ecologist



John Laufenberg
Principal Ecologist
Professional Wetland Scientist

6.0 REFERENCES

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

Project/Site: Jennings Substation City/County: Marysville, WA Sampling Date: 9/30/2021
 Applicant/Owner: Snohomish County PUD No. 1 State: WA Sampling Point: S1
 Investigator(s): JL / SB Section, Township, Range: Sec 21, Twp 30N, Rge 05E, W.M.
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): None Slope (%): ~1%
 Subregion (LRR): LRR A Lat: 48.066832° Long: -122.170140° Datum: WGS84
 Soil Map Unit Name: _____ NWI classification: N/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? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Maintained lawn	

VEGETATION – Use scientific names of plants.

Stratum	Plot size	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>5m²</u>)					
1. <u>Populus balsamifera</u>		<u>5</u>	<u>Y</u>	<u>FAC</u>	
2. _____		_____	_____	_____	
3. _____		_____	_____	_____	
4. _____		_____	_____	_____	
		<u>5</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>3m²</u>)					
1. <u>Rubus armeniacus</u>		<u>15</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Polygonum cuspidatum</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
3. _____		_____	_____	_____	
4. _____		_____	_____	_____	
5. _____		_____	_____	_____	
		<u>20</u>	= Total Cover		
Herb Stratum (Plot size: <u>1m²</u>)					
1. <u>Phalaris arundinacea</u>		<u>40</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Trifolium pratense</u>		<u>15</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Cirsium scariosum</u>		<u>10</u>	<u>N</u>	<u>FAC</u>	
4. <u>Plantago lanceolata</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
5. _____		_____	_____	_____	
6. _____		_____	_____	_____	
7. _____		_____	_____	_____	
8. _____		_____	_____	_____	
9. _____		_____	_____	_____	
10. _____		_____	_____	_____	
11. _____		_____	_____	_____	
		<u>70</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>3m²</u>)					
1. <u>None</u>		_____	_____	_____	
2. _____		_____	_____	_____	
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum		<u>30</u>			

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 5 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by:
 OBL species _____ x 1 = 0
 FACW species _____ x 2 = 0
 FAC species _____ x 3 = 0
 FACU species _____ x 4 = 0
 UPL species _____ x 5 = 0
 Column Totals: 0 (A) 0 (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 Rapid Test for Hydrophytic Vegetation
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Wetland Non-Vascular Plants¹
 Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

SOIL

Sampling Point: S1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-10	10YR 3/2	100					sandy loam	dry
10-16	10YR 3/4	100					sandy loam	dry

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

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Histosol (A1)</td> <td><input type="checkbox"/> Sandy Redox (S5)</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon (A2)</td> <td><input type="checkbox"/> Stripped Matrix (S6)</td> </tr> <tr> <td><input type="checkbox"/> Black Histic (A3)</td> <td><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</td> </tr> <tr> <td><input type="checkbox"/> Hydrogen Sulfide (A4)</td> <td><input type="checkbox"/> Loamy Gleyed Matrix (F2)</td> </tr> <tr> <td><input type="checkbox"/> Depleted Below Dark Surface (A11)</td> <td><input type="checkbox"/> Depleted Matrix (F3)</td> </tr> <tr> <td><input type="checkbox"/> Thick Dark Surface (A12)</td> <td><input type="checkbox"/> Redox Dark Surface (F6)</td> </tr> <tr> <td><input type="checkbox"/> Sandy Mucky Mineral (S1)</td> <td><input type="checkbox"/> Depleted Dark Surface (F7)</td> </tr> <tr> <td><input type="checkbox"/> Sandy Gleyed Matrix (S4)</td> <td><input type="checkbox"/> Redox Depressions (F8)</td> </tr> </table>	<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<p>Indicators for Problematic Hydric Soils³:</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> 2 cm Muck (A10)</td> </tr> <tr> <td><input type="checkbox"/> Red Parent Material (TF2)</td> </tr> <tr> <td><input type="checkbox"/> Very Shallow Dark Surface (TF12)</td> </tr> <tr> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Red Parent Material (TF2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Other (Explain in Remarks)																					

<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:																																
<p>Primary Indicators (minimum of one required; check all that apply)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Surface Water (A1)</td> <td><input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Salt Crust (B11)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Aquatic Invertebrates (B13)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</td> </tr> <tr> <td><input type="checkbox"/> Surface Soil Cracks (B6)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<p>Secondary Indicators (2 or more required)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</td> </tr> <tr> <td><input type="checkbox"/> Drainage Patterns (B10)</td> </tr> <tr> <td><input type="checkbox"/> Dry-Season Water Table (C2)</td> </tr> <tr> <td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td> </tr> <tr> <td><input type="checkbox"/> Geomorphic Position (D2)</td> </tr> <tr> <td><input type="checkbox"/> Shallow Aquitard (D3)</td> </tr> <tr> <td><input type="checkbox"/> FAC-Neutral Test (D5)</td> </tr> <tr> <td><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</td> </tr> <tr> <td><input type="checkbox"/> Frost-Heave Hummocks (D7)</td> </tr> </table>	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Geomorphic Position (D2)	<input type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> FAC-Neutral Test (D5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
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<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)																																
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)																																
<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)																																
<input type="checkbox"/> Drainage Patterns (B10)																																
<input type="checkbox"/> Dry-Season Water Table (C2)																																
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)																																
<input type="checkbox"/> Geomorphic Position (D2)																																
<input type="checkbox"/> Shallow Aquitard (D3)																																
<input type="checkbox"/> FAC-Neutral Test (D5)																																
<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)																																
<input type="checkbox"/> Frost-Heave Hummocks (D7)																																

<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____</p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____</p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: