

# **Sewall Wetland Consulting, Inc.**

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July 9, 2018

Sather B LLC 18820 3rd Ave NE Arlington, Washington 98223

RE: Parcels #310529002001300 & 1401 - Critical Area Report

City of Marysville, Washington

SWC Job #16-187

This report describes our observations of any jurisdictional wetlands, streams or buffers on or within 200' of Parcels #310529002001300 & 1401 located south of SR 531 in the City of Marysville, Washington (the "site"). The site is located in Section 29, Township 31 North, Range 5 east of the W.WM.



Above: Vicinity Map

The site is an irregular shaped 36.39 acre agricultural property used for growing hay, oats, corn and other crops.

#### **METHODOLOGY**

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site between early February and late May of 2017 & 2018.

The site was reviewed using methodology described in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987), and the *Western Mountains, Valleys and Coast region Supplement* (Version 2.0) dated June 24, 2010, as required by the US Army Corps of Engineers.

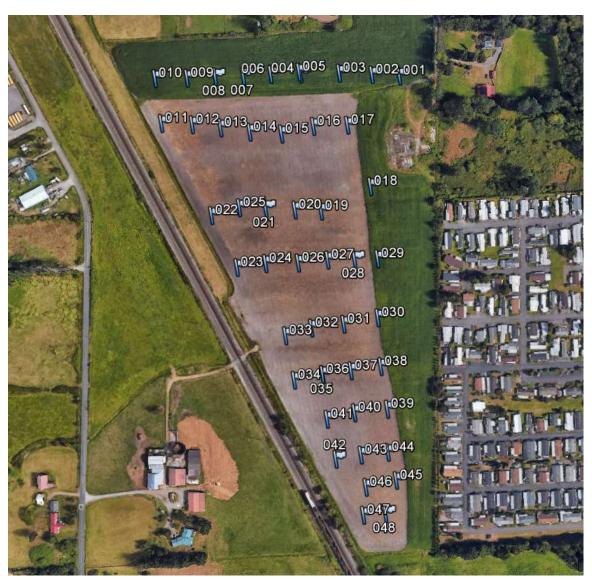
Given the agricultural character of the site, degree of hydrologic disturbance from past drainage ditching and tile systems, as well as the mapped Custer soil series on the site, as well as some inventory information indicating potential wetlands, hydrology monitoring in the early growing season was deemed the only way to determine if wetland hydrology exists on this agricultural field.

The presence of wetland hydrology is the driving force behind wetland presence, without wetland hydrology, an area does not meet wetland criteria. Therefore, only areas on the site that contain all three parameters during the early growing season meet the definition of a wetland. Areas that do not have hydrology do not meet wetland criteria and are considered upland.

In order to determine what portion of the site contained wetland hydrology, an analysis of wetland hydrology was conducted throughout the site for both 2017 and 2018.

Site Hydrology Monitoring Methods

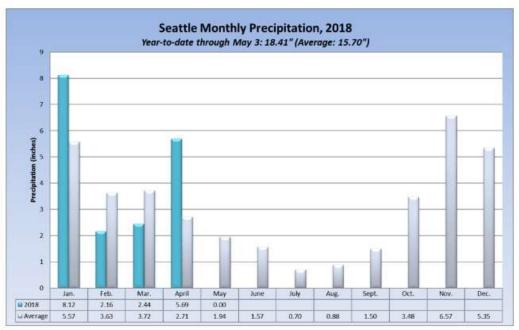
A total of 47 data points (soil pits & hydrology monitoring wells (GPS points 001-048, note: *points 006 and 007 were duplicates of the same monitor point*) were sampled to determine if wetland vegetation, soils and hydrology was present on the site within 12" of the soil surface.



Above: location of gps located hydrology monitoring points on the site.

The site was visited between February 21th and May 30 of both 2017 and 2018 to collect hydrology data.





Rainfall in the region for the period from January-May for 2017 was well above normal rainfall as is shown in the graph above. For the period of February 1-April 30, 2017, 20.17" of rainfall was recorded. This is over twice the normal 10.06" for that period. During the spring of 2017, two

small areas, one the northwest and one on the southeast side of the site had soil saturation within 12" of the surface for up to 2 weeks in the early growing season (*late February early march 2017 -within hydrology monitor points 010, 012, 013, 044, 045 & 046*). Standing water levels within wells and pits were slightly lower in depth than the soil saturation levels. Since the rainfall data for this period of time was much higher than normal, the findings were not considered valid for a normal year, and as a result, monitoring of hydrology of the site was continued through the early growing season of 2018.

A review of the data for 2018 reveals a more normal rainfall pattern for this period of time, with February 1- April 30 having 10.29" of rain, just slightly above the normal 10.06" for this period. The 2018 normal rainfall quantity for this period would result in "normal" weather conditions for this area and result in a more accurate identification of any area with wetland hydrology.

At each sample point soil pit was excavated at least -18" deep. At each pit observations of the level of standing water and/or soil saturation (if any) were recorded. All points were again monitored in 2018 and the points that were found to have potential wetland hydrology in 2017 were monitored with monitoring wells that were installed and in the ground through May prior to yearly disking and cropping of the site.

#### **OBSERVATIONS**

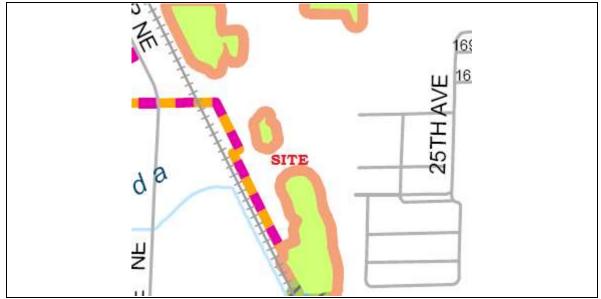
#### Existing Site Documentation.

Prior to visiting the site, a review of several natural resource inventory maps was conducted. Resources reviewed included the City of Marysville Critical Areas map, National Wetland Inventory Map, the NRCS Soil Survey online mapping and Data, WADNR Fpars stream mapping and the WDFW Priority Habitats mapping website.

#### City of Marysville Critical Areas Map

According to the City of Marysville Critical Areas Maps, are two wetlands located on the site. This corresponds to an earlier delineation done on the site around 2006 for a previous party looking at purchasing the site. At that time the field was fallow, and from speaking to the previous

applicant who had this work done (Rob Janicki), the delineation was just a quick worst case scenario, and the delineation did not confirm wetland hydrology was present and went entirely on soils and annual weedy species that were at least facultative on the site. Hydrology of these delineated features was not confirmed during this study.



Above: City of Marysville Critical Areas Maps (wetland above, stream below)

The City stream map (see page 7 of this report) depicts a small portion of the West Fork of Quilceda Creek is present on the southwest corner of the site. The end of this stream segment corresponds to the WDFW approved fish screens that are located in this area to keep fish from passing north into agricultural and drainage ditches along the west side of the site.



# National Wetlands Inventory (NWI)

The NWI map depicts and emergent wetland on the south end of the site. As is standard for the Marysville area, USFWS did not field verify this wetland, and mapping was done solely on aerial photograph interpretation.



Above: NWI Map of the area of the site.

# **Soil Survey**

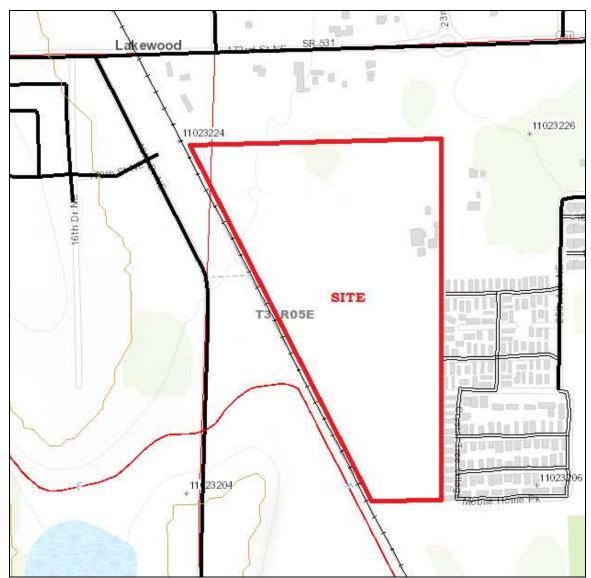
According to the NRCS Soil Mapper website, the site is mapped as containing Custer fine sandy loam on the east, Terric Medisaprists in the center, and Kitsap silt loam along the west side of the site. There is a small inclusion of Norma loam along the southeast corner. All of the soils on the site are considered hydric with the exception of the Kitsap soil along the west side of the site.



Above: NRCS Soil map of the study area.

# **WADNR** Fpars

The WADNR Fpars stream typing map for the site there are no stream on the site. A Type F water is depicted on the west side of the railroad tracks west of the site's southwest corner.



Above WDNR Fpars Stream Typing map.

# **WDFW Priority Habitats**

According to the WDFW Priority Habitats mapping website, the only priority habitat is the wetland, duplicated from the NWI maps on the south end of the site.



Above: WDFW Priority Habitats Map of the site

### Field observations

# *Uplands*

The site is a relatively flat agricultural property with a slight slope to the west towards the railroad tracks. The site has been continuously farmed since the 1800's and has been planted with rye during our fieldwork in 2018. On the northeast corner of the site the remains of the farm structures are present. This includes a large concrete slab/foundation from a barn as well as a gravel road access from the northeast and scattered piles of debris from the past demolition of the barn.

## Ditches

At the southwest corner of the site are a set of fish screens which prevent fish from traveling from the West Fork of Quilceda Creek into the drainage ditch system around the south and west edge of the site. The fish screens are considered by WDFW as the end of a natural stream channel, with all fish bearing waters south and west of the railroad tracks.

A ditch is also located along the north edge of the site, which then curves to the south and runs along the railroad tracks along the west edge of the site to the point where it enters the West Fork of Quilceda at the south end of the site at the fish screens. This ditch is a man-made agricultural drainage ditch which carries storm water from properties to the north of the site, directing the waters southerly along the western property line, and then westerly off-site. These ditches convey runoff from "Pollutant Generating Surfaces" (Roads) and this is "permitted" as a Municipal Separated Storm Sewer System (MS4) through the City of Marysville Phase II NPDES Permit. These ditches clearly carry storm water runoff from SR531 to the north, as well as other recently developed properties to the north of SR531.

Both the Federal and State Water Pollution Control Regulations (State rules RCW 90.48.080 specifically) do not allow the discharge of polluted water in the "Waters of the State". The Municipality is also responsible for this MS4 up to its discharge into receiving water. In this case, that would be Quilceda Creek south of the Fish Screens. By Permit, only treated water is supposed to be discharged into a "receiving water". The ditches north of the fish screens are clearly used as part of the City's storm water system, and a ditch permitted as a MS4 cannot at the same time be called a "water of the state".

These ditches are not streams or wetlands. The closest stream being the West Fork of Quilceda located at the southwest corner of the site. A fish screen has been placed at the south end of the site at WDFW's approval specifically to prevent any fish from migrating into the man-made and artificially created drainage ditch south and west of the site, that the sites ditch flows into.

The site has been regularly plowed and planted with either hay or crops like corn, oats and rye on an annual basis. At the time of our sampling

in 2017 the site was planted in corn, and in 2018, rye. In June the rye was harvested and baled, and then the site was disked to remain fallow for the summer.

The 47 soil pits excavated throughout the site generally consist of sandy loam soils similar to the Custer profile, with an A-horizon of sandy loam with colors of 10YR 3/2 and 2/2 down to 8-10" and an B-horizon of loamy sand with a color of 10YR 3/2-3/6. The attached data sheets are from the 3-21-17 data collection. The hydrology indicators during this 2017 data collection time are not considered valid as has been previously described. Rainfall amounts in the spring of 2017 were abnormally high making hydrology readings invalid.

During the 2018 monitoring season, in a year with slightly above normal rainfall, no area on the site was found to contain wetland hydrology continuously for more than a one week period (see attached hydrology monitoring results). Monitoring points #8, #9, #10, #11, #12, #43, #44 and #45 were found to have some wetland hydrology indicators in 2017 during a period of above normal rainfall.

In the normal rainfall year of 2018, of these points, only points #10, #11 #44 and #45 had a single or in the case of monitoring Points #10 & #44, two observations of marginal hydrology within 12" of the soil surface. Of the two points with two observations, the duration of saturation within 12" of the surface was < 14days.

All other observations of the points during the monitoring period from 2/28-5/25, soils were found to be moist or dry during all site visits

No areas meeting wetland criteria were found on the site.

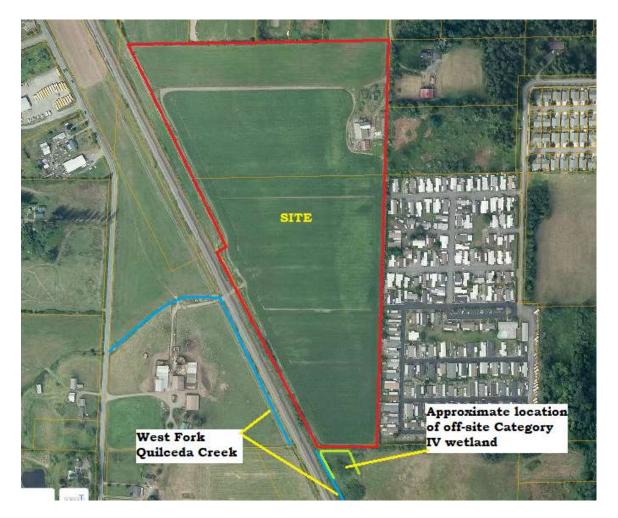
### **Streams**

As previously described, the Middle West Fork of Quilceda Creek is located on the southwest corner of the site. A fish screen is located at this point where the channel passes enters the site from the west under the railroad tracks. The creek parallels the railroad tracks on the west side of the tracks. The portion of this stream on the southwest corner of the site has been mapped by the City of Marysville as a Type F stream. Type F stream have a 150' buffer measured from the OHWM (MMC 22E.010.220).

The portion of the buffer on the southwest corner of the site is functional buffer to the stream. The strip of buffer that extends over the railroad tracks from the west where the creek is located north of the southwest corner of the site, is non-functional buffer and provides no protection to the creek due to the railroad bed passing through the majority of this buffer area.

## Off-site Critical areas

A small scrub-shrub wetland is located off-site to the south of the southwest corner of the site. This wetland was has been reviewed by Sewall Wetland Consulting for wetland and hydrology monitoring work we have been doing on the site to the south for another client.



Above: Critical areas map of the site, depicting the off-site Category IV wetland as well as the West Fork of Quilceda Creek. Note: these are approximations off the aerial photograph. Refer to site survey for exact locations.

City of Marysville Code (MMC 22E.010.060 Wetland rating and classification) states: Wetlands shall be classified as Category I, II, III, or IV using the Washington State Department of Ecology's Wetland Rating System for Western Washington, Publication No. 04-06-025, or as amended hereafter. As a result the wetland area was rated using the 2014 Wetland Rating system.

Using the 2014 WADOE Wetland Rating system and rating the wetland as a depressional wetland, this wetland scored a total of 15 points with 5 for habitat. This indicates a Category IV wetland. Category IV wetlands in the City of Marysville have a 35' buffer measured from the wetland edge. This buffer is completely encompassed by the 150' stream buffer on the site.

#### Conclusion

No wetlands exist on the site. A type F water, as well as a portion of its 150' buffer are located on the southwest corner of the site. The buffer of an off-site Category IV wetland to the south of the southwest corner of the site extends onto the site. This buffer is located within the 150' buffer of Quilceda Creek.

If you have any questions in regards to this report or need additional information, please feel free to contact me at (253) 859-0515 or at <a href="mailto:esewall@sewallwc.com">esewall@sewallwc.com</a>.

Sincerely,

Sewall Wetland Consulting, Inc.

Ed Sewall

Senior Wetlands Ecologist PWS #212

Attached: Data Sheets

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#### REFERENCES

Cowardin, L., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, FWS/OBS-79-31, Washington, D. C.

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Reed, P.B. Jr. 1993. 1993 Supplement to the list of plant species that occur in wetlands: Northwest (Region 9). USFWS supplement to Biol. Rpt. 88(26.9) May 1988.

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City of Marysville Municipal Code

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5 = H,L,L

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## 2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY
Estuarine	1 11
Wetland of High Conservation Value	I
Bog	I
Mature Forest	I
Old Growth Forest	I
Coastal Lagoon	1 11
Interdunal	I II III IV
None of the above	

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

Score Based on

Ratings

Wetland name or number \_\_\_\_\_

# Maps and figures required to answer questions correctly for Western Washington

#### Depressional Wetlands

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

#### Riverine Wetlands

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

#### Lake Fringe Wetlands

Map of:	To enswer questions:	Figure #
Cowardin plant classes	L1.1, L4.1, H1.1, H1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

#### Slope Wetlands

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 (can be added to figure above)	S 4.1	
Boundary of 150 ft buffer (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 polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3	

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

Wetland	name or number	
wellanu	name of number	

### **HGM Classification of Wetlands in Western Washington**

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

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

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



YES - the wetland class is Tidal Fringe - go to 1.1

1.11s the salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)?

#### NO - Saltwater Tidal Fringe (Estuarine)

YES - Freshwater Tidal Fringe

If your wetland can be classified as a Freshwater Tidal Fringe use the forms for **Riverine** wetlands. If it is Saltwater Tidal Fringe it is an **Estuarine** wetland and is not scored. This method **cannot** be used to score functions for estuarine wetlands.

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

NO - go to 3

YES - The wetland class is Flats

If your wetland can be classified as a Flats wetland, use the form for **Depressional** wetlands.

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

NO - go 40 4

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

- 4. Does the entire wetland unit meet all of the following criteria?
- \_\_\_The wetland is on a slope (slope can be very gradual),
- The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheetflow, or in a swale without distinct banks,
- \_\_\_The water leaves the wetland without being impounded.

NO - go to-5

YES - The wetland class is Slope

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

- 5. Does the entire wetland unit meet all of the following criteria?
  - \_\_\_The unit is in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river.
  - \_\_\_The overbank flooding occurs at least once every 2 years.

Wetland name or number\_

NO - go to 6

YES - The wetland class is Riverine

**NOTE:** The Riverine unit can contain depressions that are filled with water when the river is not flooding

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

NO - go to 7

YES - The wetland class is Depressional

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

NO - go to 8

YES - The wetland class is Depressional

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

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

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

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

Wetland name or number	Wetland	name	or nur	nber	
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DEPRESSIONAL AND FLATS WETLANDS	
Water Quality Functions - Indicators that the site functions to improve water quality	ree.
D 1.0. Does the site have the potential to improve water quality?	
D 1.1. Characteristics of surface water outflows from the wetland:	
Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet).	
points = 3	
Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet.  points = 2	
Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1	7
Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1	
D 1.2. The soil 2 in below the surface (or duff laver) is true clay or true organic (use NRCS definitions). Yes = 4 No = 0	
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes):	
Wetland has persistent, ungrazed, plants > 95% of area	
Wetland has persistent, ungrazed, plants > 1/2 of area points = 3	
Wetland has persistent, ungrazed plants > 1/10 of area points = 1	_
Wetland has persistent, ungrazed plants $<^1/_{10}$ of area points = 0	
D 1.4. Characteristics of seasonal ponding or inundation:	
This is the area that is ponded for at least 2 months. See description in manual.	
Area seasonally ponded is > 1/4 total area of wetland points = 4	
Area seasonally ponded is > ½ total area of wetland	0
Area seasonally ponded is < % total area of wetland points = 0	
Total for D 1 Add the points in the boxes above	
Rating of Site Potential If score is:12-16 = H6-11 = M0-5 = L Record the rating on the first page	7e
D 2.0. Does the landscape have the potential to support the water quality function of the site?	
D 2.1. Does the wetland unit receive stormwater discharges?  Yes = 1 No = 0	ث
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 No = 0	
D 2.3. Are there septic systems within 250 ft of the wetland?  Yes = 1 (No = 0)	0
D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1-D 2.3?	ra)
Source Yes = 1(No = 0)	<u>ت</u>
Total for D 2 Add the points in the boxes above	١
Rating of Landscape Potential If score is:3 or 4 = H1 or 2 = M0 = L Record the rating on the first	t page
D 3.0. Is the water quality improvement provided by the site valuable to society?	
D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the	
303(d) list? (Yes = 1) No = 0	
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list? Yes = 1 to = 0	
D 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 basin in which the unit is found)?	2
Total for D 3 Add the points in the boxes above	7

5

Wetland Rating System for Western WA: 2014 Update Rating Form – Effective January 1, 2015 Wetland name or number \_\_\_\_\_

<u>DEPRESSIONAL AND FLATS W</u> Hydrologic Functions - Indicators that the site functions to re-		n
D 4.0. Does the site have the potential to reduce flooding and erosion?		
D 4.1. Characteristics of surface water outflows from the wetland: Wetland is a depression or flat depression with no surface water leaving i Wetland has an intermittently flowing stream or ditch, OR highly constrict Wetland is a flat depression (QUESTION 7 on key), whose outlet is a perm Wetland has an unconstricted, or slightly constricted, surface outlet that i	ted permanently flowing outletpoints = 2 anently flowing ditch points = 1	٤
D 4.2. <u>Depth of storage during wet periods:</u> Estimate the height of ponding abov with no outlet, measure from the surface of permanent water or if dry, the Marks of ponding are 3 ft or more above the surface or bottom of outlet Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet The wetland is a "headwater" wetland Wetland is flat but has small depressions on the surface that trap water Marks of ponding less than 0.5 ft (6 in)		۵
D 4.3. Contribution of the wetland to storage in the watershed: Estimate the rate contributing surface water to the wetland to the area of the wetland unit. The area of the basin is less than 10 times the area of the unit. The area of the basin is 10 to 100 times the area of the unit. The area of the basin is more than 100 times the area of the unit. Entire wetland is in the Flats class.  Total for D 4		3
Rating of Site Potential   If score is: 12-16 = H6-11 = M0-5 = L	Record the rating on the fir	st pag
D 5.0. Does the landscape have the potential to support hydrologic funct	ions of the site?	
D 5.1. Does the wetland receive stormwater discharges?	Yes = 1 (No = 0	_
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generat	e excess runoff? Yes = 1 (No = 0')	0
D 5.3. Is more than 25% of the contributing basin of the wetland covered with ir >1 residence/ac, urban, commercial, agriculture, etc.)?	tensive human land uses (residential at Yes = 1 No = 0	0
Total for D 5	Add the points in the boxes above	<u>っ</u>
Rating of Landscape Potential If score is: 3 = H 1 or 2 = M 0 = L	Record the rating on the fir	st pag
D 6.0. Are the hydrologic functions provided by the site valuable to socie	ty?	
D 6.1. The unit is in a landscape that has flooding problems. Choose the descript the wetland unit being rated. Do not add points. Choose the highest score. The wetland captures surface water that would otherwise flow down-grad damaged human or natural resources (e.g., houses or salmon redds):  • Flooding occurs in a sub-basin that is immediately down-gradient of the sub-basin farther down-gradient. Flooding from groundwater is an issue in the sub-basin.	e if more than one condition is met. dient into areas where flooding has	
The existing or potential outflow from the wetland is so constrained by hi water stored by the wetland cannot reach areas that flood. Explain why		1
There are no problems with flooding downstream of the wetland.	points = 0	ŧ.
D 6.2. Has the site been identified as important for flood storage or flood conve	yance in a regional flood control plan?  Yes = 2 No = 0	0
Total for D 6	Add the points in the boxes above	1
Rating of Value If score is: 2-4 = H 1 = M 0 = L	Record the rating on the fir	

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

Wetland	l name or	number	
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These questions apply to wetlan		
H 1.0. Does the site have the potential to provide habitat?	vide important nabitat	
H 1.1. Structure of plant community: Indicators are Cowardin classes and Cowardin plant classes in the wetland. Up to 10 patches may be co	ombined for each class to meet the threshold	
of % ac or more than 10% of the unit if it is smaller than 2.5 ac. Ad	d the number of structures checked.	
Agustic bed	4 structures or more: points = 4	
Epergent	3 structures: points = 2	
Scrub-shrub (areas where shrubs have > 30% cover)	2 structures: poots = 1	
Forested (areas where trees have > 30% cover)	1 structure: points = 0	
If the unit has a Forested class, check if:	1	1
The Forested class has 3 out of 5 strata (canopy, sub-canopy, that each cover 20% within the Forested polygon	shrubs, herbaceous, moss/ground-cover)	(
H 1.2. Hydroperiods		
Check the types of water regimes (hydroperiods) present within the more than 10% of the wetland or ¼ ac to count (see text for descri		
Permanently flooded or inundated	4 or more types present: points = 3	
Seasonally flooded or inundated	3 types present: points = 2	
Occasionally flooded or inundated	2 types present: points = 1	
Saturated only	1 type presente points 0	
Permanently flowing stream or river in, or adjacent to, the we	etland	
Seasonally flowing stream in, or adjacent to, the wetland	1	
Lake Fringe wetland	2 points	
Freshwater tidal wetland	2 points	0
H 1.3. Richness of plant species		
Count the number of plant species in the wetland that cover at lea	ast 10 ft <sup>2</sup> .	
Different patches of the same species can be combined to meet the		
the species. Do not include Eurasian milfoil, reed canarygrass, p	ourple loosestrife, Canadian thistle	
if you counted: > 19 species	points = 2	
5 - 19 species	points = 1	~
< 5 species	points = Q	Carried .
H 1.4. Interspersion of habitats		
Decide from the diagrams below whether interspersion among Co the classes and unvegetated areas (can include open water or mu have four or more plant classes or three classes and open water, the	dflats) is high, moderate, low, or none. If you	
None = 0 points Low = 1 point	Moderate = 2 points	
All three diagrams in this row are HIGH = 3points		)

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# Wetland name or number

H 1.5. Special habitat features:	j	
Check the habitat features that are present in the wetland. The number	of checks is the number of points.	
Large, downed, woody debris within the wetland (> 4 in diameter a	nd 6 ft long).	
Standing snags (dbh > 4 in) within the wetland	i	
Undercut banks are present for at least 6.6 ft (2 m) and/or overhan over a stream (or ditch) in, or contiguous with the wetland, for at k		
Stable steep banks of fine material that might be used by beaver or		
slope) OR signs of recent beaver activity are present (cut shrubs or where wood is exposed)		
At least ¼ ac of thin-stemmed persistent plants or woody branches permanently or seasonally inundated (structures for egg-laying by		
Invasive plants cover less than 25% of the wetland area in every stra	atum of plants (see H 1.1 for list of	1
Total for H 1	Add the points in the boxes above	7
Rating of Site Potential If score is: 15-18 = H 7-14 = M 0-6 = L	Record the rating on	the first page
H 2.0. Does the landscape have the potential to support the habitat fun	ctions of the site?	
H 2.1. Accessible habitat (include only habitat that directly abuts wetland unit).  Calculate: % undisturbed habitat \( \frac{1}{2} \) + [(% moderate and low in the content of the conten	tancity land uses)/2120 - 70 %	
Calculate:	remary land uses//21======%	
> 1/3 (33.3%) of 1 km Polygon	points = 3	
20-33% of 1 km Polygon	points = 2	<b>?</b>
10-19% of 1 km Polygon	points = I	2
< 10% of 1 km Polygon	points = 0	
H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.	20 7	
Calculate: 15 % undisturbed habitat 40+ [(% moderate and low in	itensity land uses)/2]20 = 3 3 %	
Undisturbed habitat > 50% of Polygon	points = 3	
Undisturbed habitat 10-50% and in 1-3 patches	points = 2	١
Undisturbed habitat 10-50% and > 3 patches	points = 1	l
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)	-1
≤ 50% of 1 km Polygon is high intensity	points = 0	0
Total for H 2	Add the points in the boxes above	3
Rating of Landscape Potential if score is: 4-6 = H 1-3 = M <1 = L	Record the rating on th	ne 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 p	olicies? Choose only the highest score	
that applies to the wetland being rated.	j	
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	· I	
- it is a Wetland of High Conservation Value as determined by the Dep	partment of Natural Resources	
It has been categorized as an important habitat site in a local or regi		
Shoreline Master Plan, or in a watershed plan		
Site has 1 or 2 priority habitats (listed on next page) within 100 m	points = 1	1
Site does not meet any of the criteria above	points = 0	,
Poting of Value If score is: 2 = H 1 = M 0 = I	Record the rating on	the first need

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Wetland	name	or	number	
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## **WDFW Priority Habitats**

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

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

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

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

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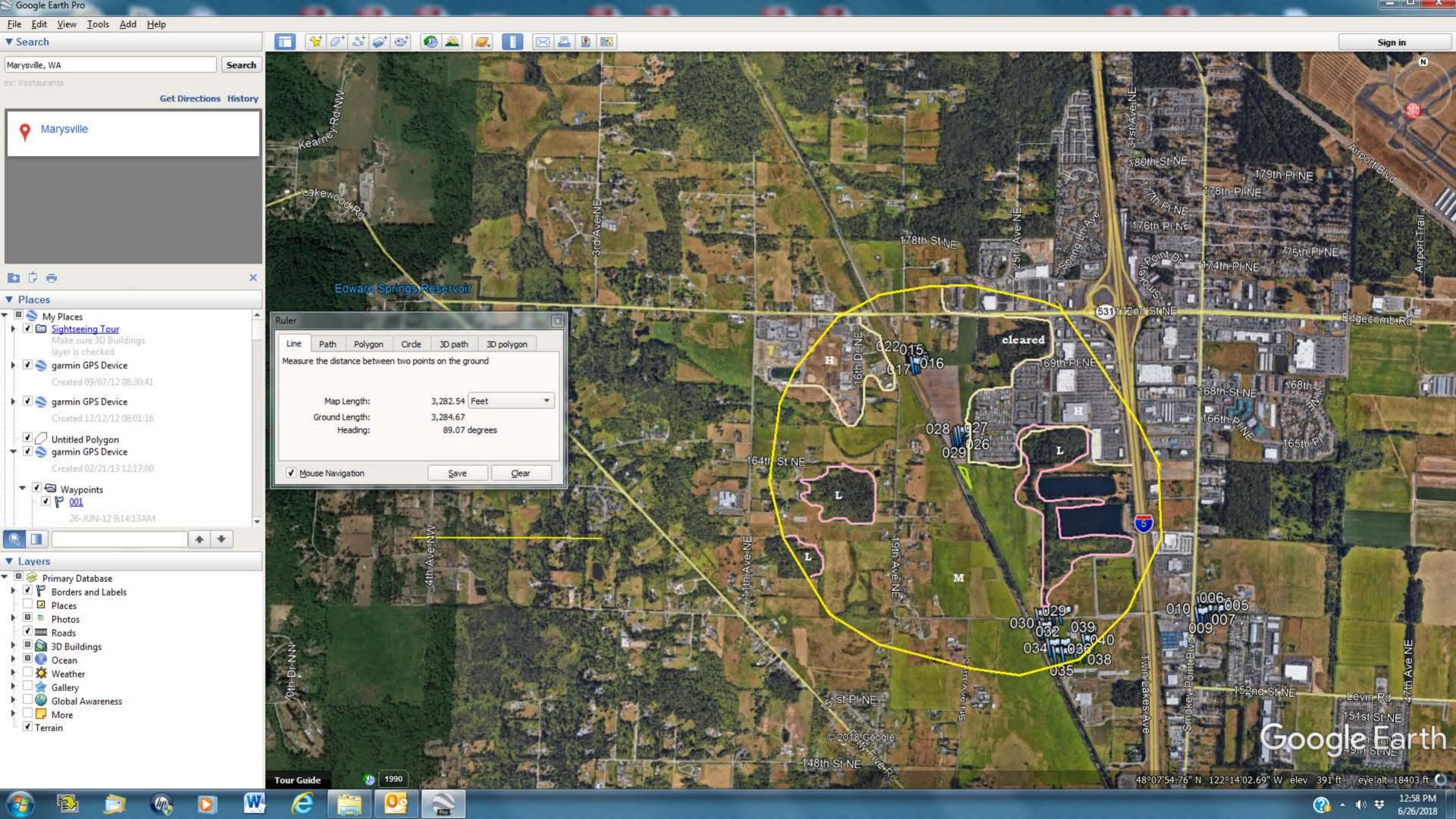
CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

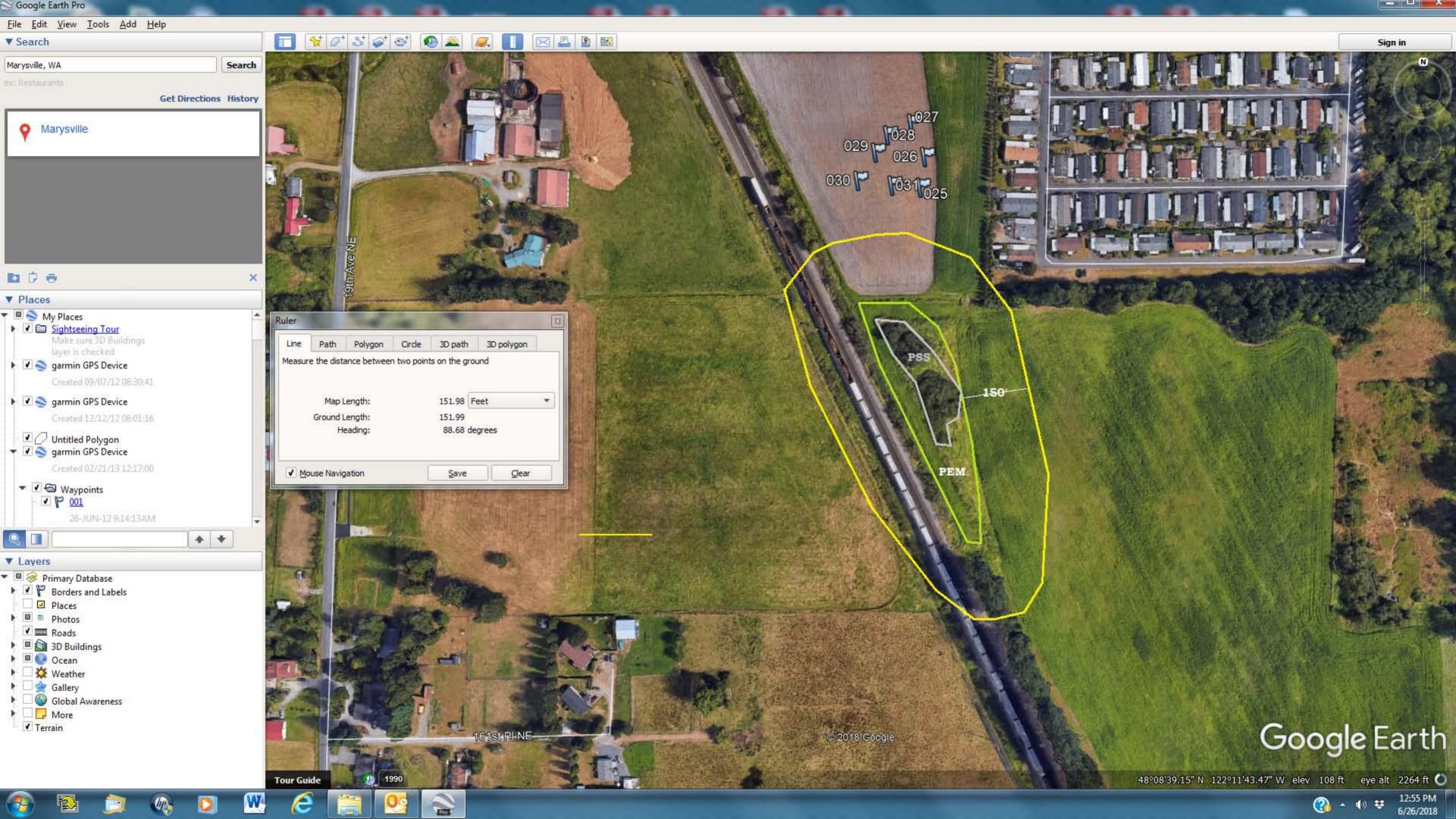
Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the category when the appropriate criteria are met.	14.5
SC 1.0. Estuarine wetlands	
Does the wetland meet the following criteria for Estuarine wetlands?	
— The dominant water regime is tidal,	
— Vegetated, and	1
With a salinity greater than 0.5 ppt Yes -Go to SC 1.1 No= Not an estuarine wetjand	<u> </u>
SC 1.1. Is the wetland within a National Wildlife Refuge, National Park, National Estuary Reserve, Natural Area Preserve, State Park or Educational, Environmental, or Scientific Reserve designated under WAC 332-30-151?  Yes = Category I No - Go to SC 1.2	Cat. I
SC 1.2. Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions?	1
<ul> <li>The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing, and has less than 10% cover of non-native plant species. (If non-native species are Spartina, see page 25)</li> <li>At least % of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-</li> </ul>	Cat. I
mowed grassland.	1
— The wetland has at least two of the following features: tidal channels, depressions with open water, or	Cat. II
contiguous freshwater wetlands. Yes = Category I No = Category II	
	<del>                                     </del>
SC 2.0. Wetlands of High Conservation Value (WHCV)	1
SC 2.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High  Conservation Value?  Yes – Go to SC 2.2  No – Go to SC 2.3	Cat.i
Conservation Value? Yes – Go to SC 2.2 No – Go to SC 2.3 SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?	1
SC 2.2. Is the wetrand listed on the WDNR database as a Wetrand or right conservation value?  Yes = Category   No = Not a WHCV	1
SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland	₽
http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf	l
Yes - Contact WNHP/WDNR and go to SC 2.4 No = Not a WHCV	ŀ
SC 2.4. Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation Value and listed it on	1
their website? Yes = Category i No = Not a WHCV	1
	-
SC 3.0. Bogs  Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation in bogs? Use the key	1
below. If you answer YES you will still need to rate the wetland based on its functions.	
SC 3.1. Does an area within the wetland unit have organic soil horizons, either peats or mucks, that compose 16,in or	
more of the first 32 in of the soil profile? Yes—Go to SC 3.3. No—Go to SC 3.2.	1
SC 3.2. Does an area within the wetland unit have organic soils, either peats or mucks, that are less than 16 in deep	İ
over bedrock, or an impermeable hardpan such as clay or volcanic ash, or that are floating on top of a lake of	1
pond? Yes – Go to \$C 3.3 No = is not a bog	1
SC 3.3. Does an area with peats or mucks have more than 70% cover of mosses at ground level, AND at least a 30%	1
cover of plant species listed in Table 4? Yes = Is a Category i bog No Go to SC 3.4	
NOTE: If you are uncertain about the extent of mosses in the understory, you may substitute that criterion by	
measuring the pH of the water that seeps into a hole dug at least 16 in deep. If the pH is less than 5.0 and the	
plant species in Table 4 are present, the wetland is a bog.	Cat. I
SC 3.4. Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir, western red cedar,	
western hemlock, lodgepole pine, quaking aspen, Engelmann spruce, or western white pine, AND any of the	
species (or combination of species) listed in Table 4 provide more than 30% of the cover under the canopy?	
about for community of about in terms is broater more many and an area and a	I

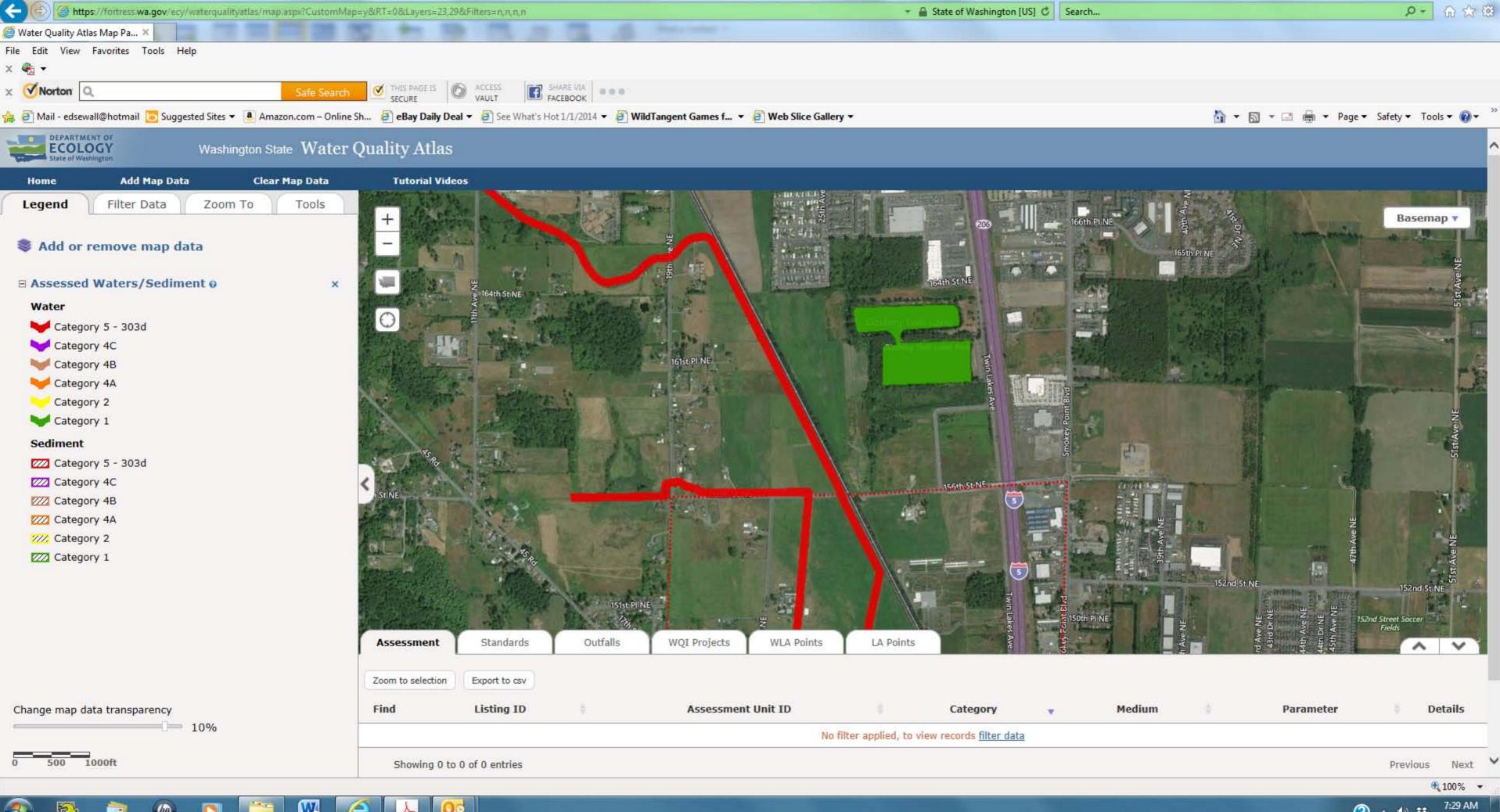
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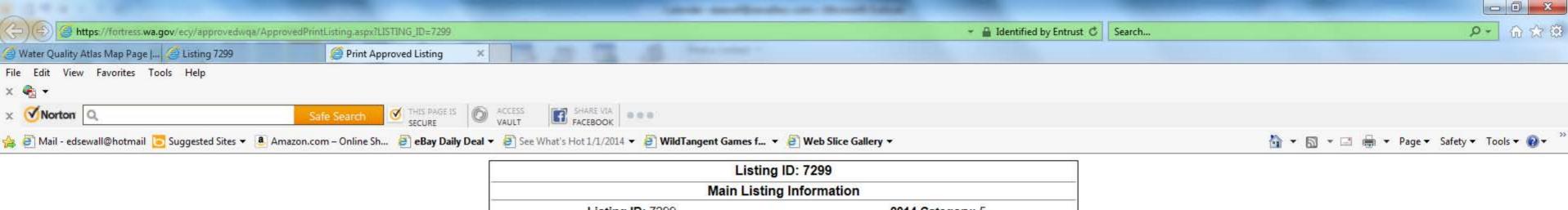
SC 4.0. Forested Wetlands	
Does the wetland have at least 1 contiguous acre of forest that meets one of these criteria for the WA	
Department of Fish and Wildlife's forests as priority habitats? If you answer YES you will still need to rate the wetland based on its functions.	
Old-growth forests (west of Cascade crest): Stands of at least two tree species, forming a multi-layered	
canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) that are at least 200 years of	
age OR have a diameter at breast height (dbh) of 32 in (81 cm) or more.	
- Mature forests (west of the Cascade Crest): Stands where the largest trees are 80- 200 years old OR the	
species that make up the canopy have an average diameter (dbh) exceeding 21 in (53 cm).	
Yes = Category I No = Not e forested wetland for this section	Cat. I
SC 5.0. Wetlands in Coastal Lagoons	
Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks	
The lagoon in which the wetland is located contains ponded water that is saline or brackish (> 0.5 ppt)	
during most of the year in at least a portion of the lagoon (needs to be measured near the bottom)	Cat. I
Yes - Go to SC 5.1 No = Not a wetland in a coastal largoon	
SC 5.1. Does the wetland meet all of the following three conditions?	
— The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less	
than 20% cover of aggressive, opportunistic plant species (see list of species on p. 100).	Cat. II
At least % of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un- mowed grassland.	
— The wetland is larger than <sup>1</sup> / <sub>10</sub> ac (4350 ft <sup>2</sup> )	
Yes = Category   No = Category	
SC 6.0. Interdunal Wetlands	
Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? If	
you answer yes you will still need to rate the wetland based on its habitat functions.	
In practical terms that means the following geographic areas:	
- Long Beach Peninsula: Lands west of SR 103	Cat I
— Grayland-Westport: Lands west of SR 105	Catt
Ocean Shores-Copalis: Lands west of SR 115 and SR 109     Yes – Go to SC 6.1 No = not an interdunal wetland for rating	
165 - OU to 3C 0.1 RD - Inot all like dulial wetain for paring	
SC 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,M	Cat. II
for the three aspects of function)?  Yes = Category   No – Go to SC 6.2	
SC 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger?	0-4-111
Yes = Category II No – Go to SC 6.3	Cat. III
SC 6.3. Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac?	
Yes = Category III No = Category IV	Cat. iV
Category of wetland based on Special Characteristics	A / A-
If you answered No for all types, enter "Not Applicable" on Summary Form	14/4

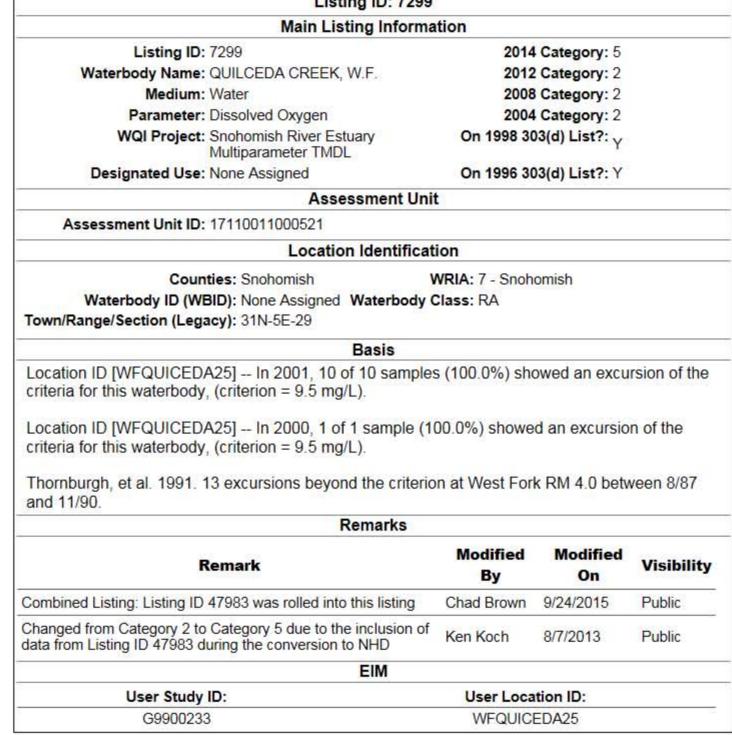












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€ 100% ▼

ect/Site:	SLH	<u> </u>		City/County:	Marysville Sampling Date: 3-21
licant/Owner:					State: WA Sampling Point: DPJ
stigelor(s):	Zd :	sewal	L	Section, Towns	hip, Range:
form (hillslope.					ncave, convex, none):Slope (%):
					Long: Datum:
	:				NWI classification:
			this time of us	ar? Yes	No (if no, explain in Remarks.)
		or Hydrology			Are "Normal Circumstances" present? Yes No
		or Hydrology			(If needed, explain any answers in Remarks.)
•			-		,
MMARY OF	FINDINGS -	Attach site ma	ıp showing	sampling p	oint locations, transects, important features, et
denstratio \/acra	tation Present?	Yes	No	2	
tric Soil Preser		Yes			ampled Area
tland Hydrolog			No	Mishin 8	Wetland? Yes No
marks.	a b	Nermal			
	SOVE	ma( F.	rain	and de	he +ile
	~ > > > > > > > > > > > > > > > > > > >		10	wiai	rang + )
ETATION	- Use scientif	ic names of pl	ants.		•
				Dominant in	· · · · · · · · · · · · · · · · · · ·
	ot size:			Species? S	realizes of Continuent Openion
					Total Number of Dominant Species Across All Strata: (B)
<del></del>		<del></del>			
***************************************				- Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/I
oling/Shrub Str	alum (Plot size:				
					Prevalence Index worksheet:
					Total % Cover of: Multiply by:
		·····			OBL species x1=
					FACW species
to Stratum (P	lot size	١.		_ = Total Cover	
500	all CU	122/2	100		Column Totals: (A) (B
					Prevalence Index = B/A =
					Dominance Test is >50%
			<del></del>		Prevalence Index is \$3.0
	<del></del>				Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
					Wetland Non-Vescular Plants*
					Problematic Hydrophytic Vegetation (Explain)
					Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
ody Vine Strat	um (Plot size:	,		_= Total Cover	
OOY YIVE SHAI					Hydrophytic
					Vegetation Yes No
**************************************				_= Total Cover	

Depth Matrix	Redox Features	
inches) Color (moist) %	Calor (moist) % Type Loc	Texture Remarks
17 104212		1400
11. 1072314		MIN
14 10714		my m
•		,
Tune: CarConcentration DeDentation RM	≈Reduced Matrix, CS=Covered or Costed Sand Gr	ains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soll Indicators: (Applicable to all		Indicators for Problematic Hydric Soils <sup>1</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histo Epipedon (A2)	Stripped Matrix (S6)	Red Parent Materiel (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	
	Loamy Gleyed Matrix (F2)	and (a differ at the time)
Hydrogen Suiffde (A4) Depleted Selow Derk Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
testrictive Layer (if present):	Tesas Depressions (1 5)	
Type:		Hurlete Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
	No Indicators	
YDROLOGY	No indicators	
YDROLOGY Vetland Hydrology Indicators:		Secondary Indicators (2 or more required
YDROLOGY Vetland Hydrology Indicatora: himary Indicators, (minimum of one require	od, otherck ell thent accody)	
YDROLOGY Vettand Hydrology Indicators: rrimary indicators (relatinger of one require Surface Water (A1)	nd, check all theit apply) Water-Stained Leaves (B9) (except MAL	RA Water-Steined Leaves (89) (MILRA 1
YDROLOGY  Vertiane Hydrology Indicators:  himary indicators (minimum of one require  Sufface Water (A1)  High Water Table (A2)	nd_check_ell thet_apply)	RA Water-Steined Leaves (B9) (MLRA 1 4A, and 4B)
VDROLOGY Vetland Hydrology Indicators: Interest indicators (relationer of one require Surface Water (A1) High Water Table (A2) Seturation (A3)	nd check ell that apply)  Water-Stained Leaves (99) (except MLI 1, 2, 4A, end 4B) Salt Crust (91)	RAWater-Steined Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (810)
YDROLOGY  Veitand Hydrology Indicators:  rimery Indicators: (relatinsm of one require  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)	M. check all that apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B) Salt Crust (811) Aquatic Invertebrates (813)	RAWater-Stained Leaves (89) (MLRA 1 4A, and 4B) Orainage Patterns (810) Dry-Season Water Table (C2)
VDROLOGY Vetland Hydrology Indicators: Interest indicators (relationer of one require Surface Water (A1) High Water Table (A2) Seturation (A3)	nd. chack all that apply)	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B) — Drainege Patterna (B10) — Dry-Seeson Water Table (C2) — Saturation Visible on Aerial Imagery (
YDROLOGY  Veitand Hydrology Indicators:  rimery Indicators: (relatinsm of one require  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)	od_check all that apply)	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
FDROLOGY  Vettand Hydrology Indicators:  **Timery Indicators (minimum of one require  _ Surface Water (A1)  _ High Water Table (A2)  _ Saturation (A3)  Water Marks (B1)  _ Sediment Deposits (B2)	id. check ell that apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B)  Satt Crust (811)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheras along Living Roc  Presence of Reduced Iron (C4)	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
VDROLOGY  Vertianet Hydrology Indicators:  himary indicators (minimum of one require  Sufface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	M. check all that apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B)  Satt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (Ct	RA Water-Steined Leaves (B9) (MLRA 1 4A, and 4B) — Drainege Patterns (B10) — Dry-Seeson Water Table (C2) — Saturation Visible on Aerial Imagery ( Geormorphic Position (D2) — Shaflow Aquitard (D3) 5) — FAC-Neutral Test (D5)
VDROLOGY Voltand Hydrology Indicators: Inimary Indicators (relatinum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4)	id. check ell that apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B)  Satt Crust (811)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheras along Living Roc  Presence of Reduced Iron (C4)	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  — Drainege Patterns (B10)  — Dry-Season Water Table (C2)  — Saturation Visible on Aerisal Imagery ( — Geomorphic Position (D2)  — Shatiow Aquitard (D3)  5)  — FAC-Neutral Test (D5) (LRR A)
FDROLOGY Vetland Hydrology Indicators: rimary indicators: (minimum of one require 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)	nd. check all that apply)  Water-Staimed Leaves (89) (except MLL 1, 2, 4A, and 4B)  Satt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soils (Ct Stunted or Stressed Plents (D1) (LRR A	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B) — Drainege Patterns (B10) — Dry-Seeson Water Table (C2) — Saturation Visible on Aerial Imagery ( Geormorphic Position (D2) — Shallow Aquitand (D3) 5) — FAC-Neutral Test (D6)
YDROLOGY  Veitane Hydrology Indicators:  **Primary Indicators (minimum of one requira  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)	wid. check ell thet apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B)  Sat Crust (611)  Aquetic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Racent Iron Reduction in Tilled Soils (Ct Stunied or Stressed Pients (D1) (LRR A 37) Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  — Drainege Patterns (B10)  — Dry-Season Water Table (C2)  — Saturation Visible on Aerisal Imagery ( — Geomorphic Position (D2)  — Shatiow Aquitard (D3)  5)  — FAC-Neutral Test (D5) (LRR A)
YDROLOGY  Veitand Hydrology Indicators:  'mary indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Seturation (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 Imagery (B  Sparsely Vegetated Concave Surface	rd. check all that apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B)  Satt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (Ct Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  — Drainege Patterns (B10)  — Dry-Season Water Table (C2)  — Saturation Visible on Aerisal Imagery ( — Geomorphic Position (D2)  — Shatiow Aquitard (D3)  5)  — FAC-Neutral Test (D5) (LRR A)
YDROLOGY Netland Hydrology Indicators: himary Indicators: (minimum of one requira Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dirit Deposits (B3) Algel Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) inundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface Field Observations:	rd. check all that apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B)  Satt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (Ct Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainege Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aeriral Imagery ( Geomorphic Position (D2)  Shatiow Aquitant (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Velland Hydrology Indicators:  **Primary Indicators (relatinum of one require  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 Imagery (E  Sparsely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Yes	M. check all that apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Satt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cf Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  No Depth (Inohes):	4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerini Imagery ( Geomorphic Position (D2)  Shallow Aquitant (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Wetland Hydrology Indicators: 'minary Indicators (minimum of one require  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 Imagery (E  Spersely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Ves  Nater Table Present?	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B) Sat Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tilled Soils (Ct Stunied or Stressed Pients (D1) (LRR A Ct) Other (Explain in Remarks)  No Depth (inohes):	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
YDROLOGY  Nettand Hydrology Indicators:	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B) Sat Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Racent Iron Reduction in Tilled Soils (Cf Stunted or Stressed Plents (D1) (LRR A Cher (Explain in Remarks)  No Depth (inohes): No Depth (inohes):	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainege Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aeriral Imagery ( Geomorphic Position (D2)  Shatiow Aquitant (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Nettand Hydrology Indicators: 'minary Indicators (minimum of one require  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 Imagery (E  Sparsely Vegetated Concave Surface 'field Observations:  Surface Water Present?  Ves  Saturation Present?  Yes  Includes capitally fringe)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B) Sat Crust (611) Aquetic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (Ct Stunied or Stressed Pients (D1) (LRR A 00) Other (Explain in Remarks)  No Depth (inohes): No Dapth (inohes): Wett	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)
Migh 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 Imagery (E Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Ves Saturation Present? Yes Includes capillary fringe)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B) Sat Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tilled Soils (Ct Stunied or Stressed Pients (D1) (LRR A Ct) Other (Explain in Remarks)  No Depth (inohes):	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)
YDROLOGY Netland Hydrology Indicators:	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Sat Crust (611) Aquetic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Ct Stunied or Stressed Pients (D1) (LRR A Ct) Other (Explain in Remarks)  No Depth (inohes): No Dapth (inohes): Wett vonitoring well, serial photos, previous inspections).	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
YDROLOGY  Nettand Hydrology Indicators:  Surface Water (A1) High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mart or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  inundation Visible on Aerial Imagery (E  Spersely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Yes  Saturation Present?	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Sat Crust (611) Aquetic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Ct Stunied or Stressed Pients (D1) (LRR A Ct) Other (Explain in Remarks)  No Depth (inohes): No Dapth (inohes): Wett vonitoring well, serial photos, previous inspections).	RA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)
YDROLOGY  Nettand Hydrology Indicators:  Surface Water (A1) High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mart or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  inundation Visible on Aerial Imagery (E  Spersely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Yes  Saturation Present?	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B) Sat Crust (611) Aquetic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (Ct Stunied or Stressed Pients (D1) (LRR A 00) Other (Explain in Remarks)  No Depth (inohes): No Dapth (inohes): Wett	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
YDROLOGY  Wettand Hydrology Indicators:  'Immary Indicators (refisimum of one require  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 Imagery (E  Sparsely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Ves  Saturation Present?  Yes  Saturation Present?  Yes  Includes capillary fringe)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Sat Crust (611) Aquetic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Ct Stunied or Stressed Pients (D1) (LRR A Ct) Other (Explain in Remarks)  No Depth (inohes): No Dapth (inohes): Wett vonitoring well, serial photos, previous inspections).	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)

Sampling Point: \_

ject/Site:	Sith	۸		City/County: _	M.	rysulle	Sampling Date:	3-21
dicant/Owner:						State: WA	Sampling Point:	Dr.
estigator(s):	2d 5	ټوسم	LL	Section, Town	ahip, Ran	ge:		
						onvex, none):	Sic	pe (%):
mains (I D/D):	w.10-00, 010 y		1 =1-			Long:	Detu	m:
				<del></del>			fication:	
				<del></del>				<del></del>
					No	(if no, explain in	HOTHERES.)	/
-	Soll, o					Normal Circumstances		No
Vegetation	Soil o	r Hydrology	naturally pro	oblematic?	(If nee	eded, explain any ans	wers in Remarks.)	
MMARY OF	FINDINGS - A	Attach site	map showing	sampling	point la	cations, transec	ts, important fe	atures, et
				2				
drophytic Veget		Yes		is the	Sampled		_	
dric Soll Present Island Hydrology			No	within	# Wetien	d? Yes	No	-
mano nyorology marks.		Yes						
	above		1 ram	Fall		, ,,		
_	agricult	hal k	الحاء.	w/ di	the	y + til	٠٠	
ETATION -	- Use scientifi	c names of	plants.			7		
				Dominant In		Dominance Test we		
	ot size:			.Species? .1		Number of Deminent That Are OBL, FACV		(A)
						I NEC ARE USIC, PAUL	4, Ot PAC.	(~)
						Total Number of Dor		(B)
***********	-					Species Across All S	KORCE:	(9)
				- Talal Cara		Percent of Dominant	Species	
ding/Shrub Stra	etum (Plot size:_		)	_ = Total Cove	•	That Are OBL, FACI	W. OF PAU:	(A/I
						Prevalence Index w	rorksheet:	
						Total % Cover of		ly by:
						OBL species		
						FACW species		
							x3=	
				_ = Total Cove	r	FACU species		
Samuel (P)	ot size:	مراشية	1100		Na		x5=	
						Column Totals:	(A)	(E
						Prevalence Inc	tex = B/A =	
						Hydrophytic Veget		
						Dominance Tea	t is >50%	
						Prevalence Inde		
						Morphological A	daptations' (Provide	supporting
				-			arks or on a separati	sheet)
						Wetland Non-Vi		1 200
,							trophytic Vegetation	
						indicators of hydric be present, unless of	soil and wetland hyd listurbed or problems	xology must Hic.
				Total Cove	r	7- present strange		
	<u>ım</u> (Plotsize:							
						Hydrophytic Vegetation		
						Present?	Yes No _	
				_= Total Cove	ŧ	1		
Sam Ground in	Herb Stratum					1		

Depth Matrix		Redox Features	Armai I	Tavtore	Darmatu
inches) Color (moist)	A Color (mc	<u> </u>	Ype Loc	Texture	Remarks
10 104621	-5			Jung In	<del></del>
16 1044313				Simply 1	m
Type: C=Concentration. D=Deple	tion, RM=Reduced Ma	strix, CS=Covered or	Coated Sand		tion: PL=Pore Lining, M=Matrix,
lydric Boil Indicators: (Applica				Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy R	Redox (S5)		2 cm /	Muck (A10)
Histic Epipadon (A2)	Stripped			Red P	erent Material (TF2)
Black Histic (A3)		Mucky Mineral (F1) (	except MLRA	1) Other	(Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy (	Gleyed Metrix (F2)			
Depleted Selow Dark Surface		d Matrix (F3)		_	
Thick Dark Surface (A12)		Dank Surface (F6)			of hydrophytic vegetation and
Sandy Mucky Mineral (81)		d Dark Surface (F7)			hydrology must be present.
Sandy Gleyed Matrix (S4)	Redox E	Depressions (F8)		uniess	disturbed or problematic.
testrictive Layer (if present):					
Туре:				1	
Depth (inches):				Hydric Soil P	resent? Yes No
lemarks:					
		No	بالمسار	cators	
		No	بالمساد	cators	
YDROLOGY Welland Hydrology Indicators:			ي المدار		
Netland Hydrology Indicators: Primary Indicators (minimum of on		rat apply)		Second	ary indicators (2 or more resures
Netland Hydrology Indicators: Primary Indicators (minimum of on Surface Water (A1)		nat apply)		Second	ter-Stained Leaves (B9) (MLRA
Wetland Hydrology Indicators:  Primary Indicators (minimum of on  Surface Water (A1)  High Water Table (A2)	Wa	nat apply) ster-Steined Leaves 1, 2, 4A, and 4B)		Second	ter-Stained Leaves (89) (MLRA ' 4A, and 4B)
Wetland Hydrology Indicators:  "rimeru (nolicators, (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3)	Wa	nat apply) ster-Stained Leaves 1, 2, 4A, and 4B) it Crust (B11)	(89) (емсерt I	Second WalkA Wa	ter-Stained Leaves (B9) (MLRA ' 4A, and 4B) inage Patterns (B10)
Welland Hydrology Indicators:  Privacy Indicators (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1)	Wa Sa Aq	sterstemed Leaves 1, 2, 4A, and 4B) ft Crust (B11) uutic Invertebrates (i	(B9) (ежсерt i	Second WaRA Wa Dra	ter-Stained Leaves (89) (MLRA ' 4A, and 4B) inage Patterns (810) -Season Water Table (C2)
Wetland Hydrology Indicators:  "rimeru (nolicators, (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3)	Wa Sa Aq	nat apply) ster-Stained Leaves 1, 2, 4A, and 4B) it Crust (B11)	(B9) (ежсерt i	Sacond MLRA Wa  Dra  Dry  Sat	ter-Stained Leaves (89) (MLRA ' 4A, and 48) inage Patterns (810) -Season Water Table (C2) uration Visible on Aerial Imagery
Welland Hydrology Indicators:  Privacy Indicators (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1)	Wa Sai Aq Hy	sterstemed Leaves 1, 2, 4A, and 4B) ft Crust (B11) uutic Invertebrates (i	(B0) (except I B13) (C1)	Sacond MLRA Wa  Dry  Dry  Roots (C3) Gisc	ter-Stained Leaves (89) (MLRA 44, and 48) inage Patterns (810) -Season Water Table (C2) uration Visible on Aerial Imagery ornorphic Position (D2)
Welland Hydrology Indicators:  **Primery Indicators: (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2)	We Sai Aq Hy Ox	ist apply) ster-Stamod Leaves 1, 2, 4A, and 4B) if Crust (B11) ustic Invertebrates (idrogen Sulfide Odor	(B9) (except I B13) (C1) I along Living I	Sacond MLRA Wa  Dra  Dra  Sat  Roots (C3) Gisc  Sha	ter-Slained Leaves (B9) (MLRA ' 4A, and 4B) image Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery amosphic Position (D2) sillow Aquitard (D3)
Welland Mydrology Indicators:  Primary Indicators: Eminimum of on Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Wa Sai Aq Hy Ox Pri	ist apply) ster-Stained Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Suffide Odor	(B9) (except I B13) (C1) I along Living I fron (C4)	Second MLRA Wa  Dra  Dry  Sat  Roots (C3) Gas  Sha  (C6) FAA	ter-Stained Leaves (B9) (MLRA ' 4A, and 4B) inage Patterns (B10) -Seeson Water Table (C2) uration Visible on Aerial Imagery amorphic Position (D2) silow Aquitard (D3) C-Neutral Test (D5)
Welland Hydrology Indicators: Primary Indicators (minimum of on Surface Wester (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4)	Ws Sa Aq Hy Ox Pn Re	stanphy) ster-Stained Leaves 1, 2, 4A, and 4B) ft Crust (B11) sustic Invertebrates (I drogen Sulfide Odor addzed Rhizosphenes esence of Reduced I	(89) (except I 813) (C1) s along Living I ron (C4) in Tilled Soils	Second MLRA Wa  Dra Dry Sat Roots (C3) Gas Sha (C6) FAG	ter-Slained Leaves (B9) (MLRA ' 4A, and 4B) image Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery amosphic Position (D2) sillow Aquitard (D3)
Welland Hydrology Indicators:  **Primary Indicators (minimum of on Surface Water (A1) High Water Table (A2) **Beturation (A3) Water Marks (B1) **Bediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Wa Sal Aq Hy Ox Pri Re Sh	ret amply) ster-Statmod Leaves 1, 2, 4A, and 4B) 1, 2, 4A, and 4B) 1, until (B11)	(B9) (except I B13) (C1) s along Living I ron (C4) in Titled Soils ents (D1) (LRI	Second   Second   War	ter-Stained Leaves (B9) (MLRA ' 4A, and 4B) inage Patterns (B10) -Seeson Water Table (C2) uration Visible on Aerial Imagery amorphic Position (D2) silow Aquitard (D3) C-Neutral Test (D5)
Welland Hydrology Indicators:  **Primery Indicators: (minimum of on Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algsl Met or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)		nst anniy) ster-Stemod Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Sulfide Odor udized Rhizospheres seence of Reduced i cent fron Reduction unted or Stressed Pic	(B9) (except I B13) (C1) s along Living I ron (C4) in Titled Soils ents (D1) (LRI	Second   Second   War	ter-Stained Leaves (B9) (MLRA ' 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (D2) silow Aquiterd (D3) -C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Welland Hydrology Indicators: Primary Indicators (minimum of on Surface Wester (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Met or Cruet (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial in Inundation Visible on Aerial in		nst anniy) ster-Stemod Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Sulfide Odor udized Rhizospheres seence of Reduced i cent fron Reduction unted or Stressed Pic	(B9) (except I B13) (C1) s along Living I ron (C4) in Titled Soils ents (D1) (LRI	Second   Second   War	ter-Stained Leaves (B9) (MLRA ' 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (D2) silow Aquiterd (D3) -C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Welland Hydrology Indicators:  **Primary Indicators (minimum of on Surface Water (A1) High Water Table (A2) Sethuration (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Invustation Visible on Aerial in Sparsely Vegetated Concave Field Observations:	Samular Samula	nst anniy) ster-Stemod Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Sulfide Odor udized Rhizospheres seence of Reduced i cent fron Reduction unted or Stressed Pic	(B9) (except I B13) (C1) s along Living I ron (C4) in Titled Soils ents (D1) (LRI	Second   Second   War	ter-Stained Leaves (B9) (MLRA ' 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (D2) silow Aquiterd (D3) -C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Welland Hydrology Indicators:  **Primary Indicators (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Dirit Deposits (B3) Algol Mar Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial in Sparsely Vegetated Concave Field Observations: Surface Water Present?		nst apply) ster-Stelmod Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Sulfide Odor udized Rhizospheres seence of Reduced i cent fron Reduction unted or Stressed Pic her (Explain in Rems eptin (inches):	(B9) (except I B13) (C1) s along Living I ron (C4) in Titled Soils ents (D1) (LRI	Second   Second   War	ter-Stained Leaves (B9) (MLRA ' 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (D2) silow Aquiterd (D3) -C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Neiland Hydrology Indicetors: Primary Indicators (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Society (B6) Invadation Visible on Aerial in Sparsely Vegetated Concave Field Observations: Surface Water Present? Yes	Sam Aq Hy Ox Prin Re Sturface (B8)  No Book Re No Book Re	nst exply) ster-Stelhed Leaves 1, 2, 4A, and 4B) it Crust (B11) sustic Invertebrates (i drogen Sulfide Odor sidized Rhizospheres seence of Reduced i cent fron Reduction sited or Stressed Pit her (Explain in Remai	(89) (except II 813) (C1) I along Living I ron (C4) In Tilled Soils ents (D1) (LRI arks)	Second   S	ter-Stained Leaves (B9) (MLRA 'AA, and 48) insige Patterns (B10) 'Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (O2) silow Aquiterd (O3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A) st-Heave Hummocks (D7)
Welland Hydrology Indicators:  **Primary Indicators (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visable on Aerial in Sparsely Vegetated Concave Field Observations: Surface Water Present? Ye Saturation Present? Ye Saturation Present?	Sam Aq Hy Ox Prin Re Sturface (B8)  No Book Re No Book Re	nst apply) ster-Stelmod Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Sulfide Odor udized Rhizospheres seence of Reduced i cent fron Reduction unted or Stressed Pic her (Explain in Rems eptin (inches):	(89) (except II 813) (C1) I along Living I ron (C4) In Tilled Soils ents (D1) (LRI arks)	Second   S	ter-Stained Leaves (B9) (MLRA ' 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (D2) silow Aquiterd (D3) -C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Neiland Hydrology Indicetors: Primary Indicators (minimum of on Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Society (B6) Invadation Visible on Aerial in Sparsely Vegetated Concave Field Observations: Surface Water Present? Yes	We Sam Sam Aq Hy Ox Ox Print Stufface (B8)  Surface (B8)  No Do	nst exply) ster-Stelmed Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Sulfide Odor adized Rhizospheres seence of Reduced i cent fron Reduction unted or Stressed Pit her (Explain in Remai	(B9) (except I B13) (C1) I along Living I ron (C4) In Tilled Soils ents (D1) (LRI erks)	Second MLRA Was Dry Dry Sat Roots (C3) Ges Gh R A) Rai Fro	ter-Stained Leaves (B9) (MLRA 'AA, and 48) insige Patterns (B10) 'Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (O2) silow Aquiterd (O3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A) st-Heave Hummocks (D7)
Welland Hydrology Indicetors:  **Primary Indicators (minimum of on Surface Wester (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Asjal Met or Crust (B4) Iron Deposits (B3) Invadation Visable on Aerial in Sparsely Vegetated Concave Field Observations:  **Yester Table Present?** Yester Table Present?** Yester Table Present?* Yester Table Table Table Table Table Yester Table Present?* Yester Table Tabl	We Sam Sam Aq Hy Ox Ox Print Stufface (B8)  Surface (B8)  No Do	nst exply) ster-Stelmed Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Sulfide Odor adized Rhizospheres seence of Reduced i cent fron Reduction unted or Stressed Pit her (Explain in Remai	(B9) (except I B13) (C1) I along Living I ron (C4) In Tilled Soils ents (D1) (LRI erks)	Second MLRA Was Dry Dry Sat Roots (C3) Ges Gh R A) Rai Fro	ter-Stained Leaves (B9) (MLRA 'AA, and 48) insige Patterns (B10) 'Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (O2) silow Aquiterd (O3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A) st-Heave Hummocks (D7)
Neilsand Hydrology Indicetors:  **Primary Indicators (minimum of on Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Drift Deposits (B3)  Algel Met or Crust (B4)  Iron Deposits (B3)  Surface Soit Cracks (B6)  Inundation Visible on Aerial in Sparsely Vegetated Concave Field Observations:  Surface Soit Cracks (B6)  Water Table Present?  Yesturation Present?  Yesturation Present?  Yesturation Present?  Yesturation Present?	Sa S	ist soply)  ster-Stemod Leaves 1, 2, 4A, and 4B) it Crust (B11) it Crust (B11) it Crust (B11) drogen Suffide Odor idized Rhizospheras issence of Reduced of cent fron Reduction unjed or Stressed Pic her (Explain in Remai	(B9) (except I B13) (C1) stong Living I ron (C4) in Tilled Soils ants (D1) (LRI whous inspection	Second MLRA Was Dry Dry Sat Roots (C3) Ges Gh R A) Rai Fro	ter-Stained Leaves (B9) (MLRA 'AA, and 48) insige Patterns (B10) 'Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (O2) silow Aquiterd (O3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A) st-Heave Hummocks (D7)
Welland Hydrology Indicetors:  **Primary Indicators (minimum of on Surface Wester (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Asjal Met or Crust (B4) Iron Deposits (B3) Invadation Visable on Aerial in Sparsely Vegetated Concave Field Observations:  **Yester Table Present?** Yester Table Present?** Yester Table Present?* Yester Table Table Table Table Table Yester Table Present?* Yester Table Tabl	Sa S	ist soply)  ster-Stemod Leaves 1, 2, 4A, and 4B) it Crust (B11) it Crust (B11) it Crust (B11) drogen Suffide Odor idized Rhizospheras issence of Reduced of cent fron Reduction unjed or Stressed Pic her (Explain in Remai	(B9) (except I B13) (C1) stong Living I ron (C4) in Tilled Soils ants (D1) (LRI whous inspection	Second MLRA Was Dry Dry Sat Roots (C3) Ges Gh R A) Rai Fro	ter-Stained Leaves (B9) (MLRA 'AA, and 48) insige Patterns (B10) 'Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (O2) silow Aquiterd (O3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A) st-Heave Hummocks (D7)
Welland Hydrology Indicetors:  **Primary Indicators (minimum of on Surface Wester (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Asjal Met or Crust (B4) Iron Deposits (B3) Invadation Visable on Aerial in Sparsely Vegetated Concave Field Observations:  **Yester Table Present?** Yester Table Present?** Yester Table Present?* Yester Table Table Table Table Table Yester Table Present?* Yester Table Tabl	Sa S	nst exply) ster-Stelmed Leaves 1, 2, 4A, and 4B) it Crust (B11) ustic Invertebrates (i drogen Sulfide Odor adized Rhizospheres seence of Reduced i cent fron Reduction unted or Stressed Pit her (Explain in Remai	(B9) (except I B13) (C1) stong Living I ron (C4) in Tilled Soils ants (D1) (LRI whous inspection	Second MLRA Was Dry Dry Sat Roots (C3) Ges Gh R A) Rai Fro	ter-Stained Leaves (B9) (MLRA 'AA, and 48) insige Patterns (B10) 'Season Water Table (C2) uration Visible on Aerist Imagery amorphic Position (O2) silow Aquiterd (O3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A) st-Heave Hummocks (D7)

Sampling Point: \_\_\_

			Mountains, Valleys, and Coast Region	
ect/Site:		City/County:	Marysuile Sampling Date:	
icant/Owner:			State: WA Sampling Point:	
etigetor(e): Zd Se	<u>wall</u>	_ Section, Towns	hip, Range:	
form (hillslope, terrace, etc.):		Local relief (co	ncave, convex, none):Sk	ppe (%):
egion (LRR):	Lat:		Long: Deti	ım:
Map Unit Name:			NWI classification:	
climatic / hydrologic conditions on the s	ite typical for this time of	year? Yes	No (if no, explain in Remarks.)	
Vegetation Soil or Hyd			Are "Normal Circumstances" present? Yes	No
Vegetation Soit or Hyd	rology naturally	problematic?	(If needed, explain any answers in Remarks.)	
•			oint locations, transects, important f	antiiran at
MINART OF FINDINGS - ALU	on sice map snowe	is emishing t	our locations, transacts, important i	
	Yes No	2 la the S	ampled Area	
	Yes No		Wetland? Yes No	_
	Yes No			
emarks. above N	ermal rat	n Fad!	. •.	
- agricultus	of Field	w/di	they + tile	
GETATION – Use scientific na	mes of plants.			
	Absolu	te Dominant Inc	Scator   Dominance Test worksheet:	
e Stratum (Plot size:		er Species? S		
	<del></del>		1	(A)
			1 COM IACILIDAL OL CICLINIANI	7904
			Species Across All Strata:	(8)
			Percent of Dominant Species	
plino/Shrub Stratum (Plot size:		a Total Cover	That Are OBL, FACW, or FAC:	(A/B
			Prevalence index worksheet:	
			Total % Cover of: Multis	
			FACW species x2 =	
			FAC species x3=	
de Charles - (Plat sine)		* Total Cover		
nd Stratum (Plot size: Scrale C	1 125		UPL species ×5 =	
			Column Totals: (A)	(0)
			Prevalence Index = B/A =	
			Dominance Test is >50%	
			Prevalence index is \$3.01	
			Morphological Adaptations' (Provid	e supporting
			Watland Non-Vescular Plants	
			Problematic Hydrophytic Vegetation	1 (Explain)
·		<del></del>	Indicators of hydric soil and wetland hy	drology must
·			be present, unless disturbed or problem	atic.
pody Vine Stratum (Ptot size:	1	= Total Cover		
CASE THE CHARACTE (FIRST ACC.			Hydrophytic	
			Vegetation	
		* Total Cover	Present? Yes No	
Bare Ground in Herb Stratum				

(		
inches) Color (moist) %	Color (moist) % Type Loc	Texture Remarks
7 /042 7/2	-	
16 2.59 9/3		<u> </u>
	A	
	(4 m. ) (44 h.)	ains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
ype: C=Concentration, O=Depletion, Re ydric Soli Indicators: (Applicable to a	M=Reduced Matrix, CS=Covered or Costed Sand Gr	Indicators for Problematic Hydric Solls:
Histogol (A1)	Sendy Redox (S5)	2 cm Muck (A10)
Histic Epipadon (A2)	Stripped Matrix (S6)	Red Parent Meterial (TF2)
Slack Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Suifide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	findicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
estrictive Layer (if present):		
Type:		
Depth (inches):	******	Hydric Soil Present? Yes No
	No hordis	catog
YDROLOGY	No india	entog
YDROLOGY VeBand Hydrology Indicators:		
/DROLOGY lettend Hydrology Indicators: rimery indicators (minimum of one requi	red, check all that apoly)	Secondary Indicators (2 or more required)
/DROLOGY  Velland Hydrology Indicators:  Indicators (minimum of one requir  Surface Water (A1)	red, check ell that apply) Water-Stained Leaves (BS) (except MLF	Secondary Indicators (2 or more required
VDROLOGY  Welland Hydrology Indicatora:  himary indicators (minimum of one requit  Surface Water (A1)  High Water Table (A2)	red, check all that apply) Water-Stained Leaves (59) (except MLF 1, 2, 4A, and 4B)	Secondary Indicators (2 or more requited)  7.4 Water-Stained Leaves (89) (MLPA 1, 4.4, and 48)
/DROLOGY retland Hydrology Indicators: rimery indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Seturation (A3)	red, check all that apoly)  Water-Skiemed Leaves (B5) (except MLF 2, 4A, and 4B) Salt Crust (B1))	Secondary Indicators (2 or more required)  Vistor-Stained Leaves (39) (MLRA 1, 4A, and 4B) Drainage Patterns (B10)
/DROLOGY  retand Hydrology Indicators:  rimery indicators (minimum of one requir  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)	(red, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B13)  Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required  RA
FDROLOGY  Felland Hydrology Indicators:  Imary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	red, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Sant Crust (B11)  Aquatic invertebrates (B13)  Hydrogen Suffide Odor (C1)	Secondary Indicators (2 or more requited  A Water-Stained Leaves (39) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aeriel Imagery (
/DROLOGY ireland Hydrology Indicators: https://dicators/manus/ficiators/manus/ficiators/minimum of one requirely High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	red, check all that apoly)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aqualic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oadzed Rhizospheres along Living Roo	Secondary Indicators (2 or more required  Water-Stained Leaves (89) (MLRA 1  4A, and 48)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aeriel Imagery ( its (C3)  Geomorphic Position (D2)
/DROLOGY retland Hydrology Indicators: rimer/ indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4)	red, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Sant Crust (B11)  Aquatic invertebrates (B13)  Hydrogen Suffide Odor (C1)	Secondary Indicators (2 or more required)  Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 55 (C3) Geomorphic Position (D2) Challow Aquitant (D3)
FDROLOGY  reteard Hydrology Indicators:  rimery indicators (minimum of one requir  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)	red, theck all that apoly)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, end 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roo  Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)  RA
FOROLOGY  reteand Hydrology trudicators:  mmary indicators (minimum of one required to the control of the contr	red, check ell that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Sast Crust (B11)  Aquatic invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Rod  Presence of Reduction in Tilled Soils (C6)  Stunted or Stressed Plants (D1) (LRR A	Secondary Indicators (2 or more required  RA
/DROLOGY integrated by devology indicators: meany indicators (minimum of one required by the company of the com	red, theck all that apoly)  Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B)  Salt Crust (811)  Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solis (C6 Stunted or Stressed Plants (D1) (LRR A (B7) Other (Explain in Remarks)	Secondary Indicators (2 or more required  RA Water-Stained Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 55 (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
/DROLOGY  Ividiand Hydrology Indicators:  Impary Indicators (minimum of one requir  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mart or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface	red, theck all that apoly)  Water-Stained Leaves (B5) (except MLF 1, 2, 4A, and 4B)  Satt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizsepheres along Living Roo  Presence of Reduced fron (C4)  Recent Inon Reduction in Tilled Solls (C5  Sunted or Stressed Phants (D1) (LRR A (B7))  (B7)  Other (Explain in Remarks)	Secondary Indicators (2 or more required  RA Water-Stained Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 55 (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
FDROLOGY  Felband Hydrology Indicators:  Impart Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface hald Observations:	red, theck all that apoly)  Water-Stained Leaves (B5) (except MLF 1, 2, 4A, and 4B)  Satt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizsepheres along Living Roo  Presence of Reduced fron (C4)  Recent Inon Reduction in Tilled Solls (C5  Sunted or Stressed Phants (D1) (LRR A (B7))  (B7)  Other (Explain in Remarks)	Secondary Indicators (2 or more required  RA Water-Stained Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 55 (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
FOROLOGY  Wetend Hydrology bridicators:  'mmary indicators (minimum of one required from the control of one from the contro	red, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Inventebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roo  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Solis (C6  Stunted or Stressed Plants (D1) (LRR A  Other (Explain in Remarks)  a (B8)  No Bepth (inches):	Secondary Indicators (2.9: more requited)  RA Water-Stained Leaves (89) (MLRA 1,
VDROLOGY  Ireland Hydrology Indicators: Immery Indicators (minimum of one requir  Sufface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  Sufface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Visit (B4) (Daservations:  Sufface Water Present? Yes  Vater Table Present? Yes	red, theck all that apoly)  Water-Stained Leaves (B5) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizsepheres along Living Rod  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C5  Sturtled or Stressed Plants (D1) (LRR A (B7)  Other (Explain in Remarks)  (B8)  No  Depth (inches):	Secondary Indicators (2 or more requited)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 65 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounts (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY  Welland Hydrology Indicators:  himary Indicators (minimum of one requit Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  inundation Visible on Aerial Imagery  Spansely Vegetated Concave Surface  Hald Observations:  Surface Water Present?  Ves  Seturation Present?  Yes  Seturation Present?	red, theck all that apoly)  Water-Stained Leaves (B5) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizsepheres along Living Rod  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Solis (C5  Sturtled or Stressed Plants (D1) (LRR A (B7)  Other (Explain in Remarks)  (B8)  No Bepth (inches):  No Depth (inches):  Wetti	Secondary Indicators (2 or more requited)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 45 (C3) Geomorphic Position (D2) Shaflow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
VDROLOGY  Ireland Hydrology Indicators: Immery Indicators (minimum of one requir Sufface Water (A1)  High Water Table (A2) Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  Sufface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Visit Present?  Vater Table Present?  Vater Table Present?  Vater Table Present?  Vater Sparsely Vegetated Concave Surface Visit Present?  Vater Table Present?  Vater Table Present?  Vater Table Present?  Vater Coulded Coacidater Princel  Vater Coulded Coacidater Princel  Vater Coulded Coacidater Princel  Vater Coacidate Coacidater Princel  Vater Coacidate Coacidater Princel	red, theck all that apoly)  Water-Stained Leaves (B5) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizsepheres along Living Rod  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C5  Sturtled or Stressed Plants (D1) (LRR A (B7)  Other (Explain in Remarks)  (B8)  No  Depth (inches):	Secondary Indicators (2 or more requited  Water-Stained Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 5 (C3) Geomorphic Position (D2) Shaflow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
YDROLOGY  Weband Hydrology Indicators:  "himary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3)  Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Pald Observations: Surface Water Present? Yes Surface Water Present? Yes Surface Water Present? Yes Seturation Present? Seturation Present? Yes Includes capitary fringe)	red, theck all that apoly)  Water-Stained Leaves (B5) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizsepheres along Living Rod  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Solis (C5  Sturtled or Stressed Plants (D1) (LRR A (B7)  Other (Explain in Remarks)  (B8)  No Bepth (inches):  No Depth (inches):  Wetti	Secondary Indicators (2 or more requited)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 45 (C3) Geomorphic Position (D2) Shaflow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surfact Hald Observations: Surface Water Present? Ves Seturation Present? Yes Seturation Present? Yes Seturation Present? Yes Seturation Present? Yes Seturation Present?	red, theck all that apoly)  Water-Stained Leaves (B5) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizsepheres along Living Rod  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Solis (C5  Sturtled or Stressed Plants (D1) (LRR A (B7)  Other (Explain in Remarks)  (B8)  No Bepth (inches):  No Depth (inches):  Wetti	Secondary Indicators (2 or more requited)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( ts (C3) Geomorphic Position (D3) Shallow Aquitard (D3) PAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
YDROLOGY  Weband Hydrology Indicators:  "himary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3)  Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Pald Observations: Surface Water Present? Yes Surface Water Present? Yes Surface Water Present? Yes Seturation Present? Seturation Present? Yes Includes capitary fringe)	red, theck all that apoly)  Water-Stained Leaves (B5) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizsepheres along Living Rod  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Solis (C5  Sturtled or Stressed Plants (D1) (LRR A (B7)  Other (Explain in Remarks)  (B8)  No Bepth (inches):  No Depth (inches):  Wetti	Secondary Indicators (2 or more requited)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aeriel Imagery ( 65 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Noural Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No

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Sampling Point:

WETLAND DETERMINATION	N DATA FORM – West	ern Mountains, Valleys, and Coast Region
ject/Site: Sthu	City/County:	Marysville Sampling Date: 3-21-
cant/Owner:	•	State: WA Sampling Point:
Highlor(s): Zd Sewa	L. Section To	wnehip. Range:
for Allera towns at V	I contration	(concave, convex, none):Slope (%):
	Labr	Long: Detum:
	LAK	NWI clessification:
Viap Unit Name:		
climatic / hydrologic conditions on the site hypical	for this time of year? Yes	No (If no, explain in Remarks.)
Vegetation Soil or Hydrology		
Vegetation Soil or Hydrology	naturally problematic?	(If needed, explain any answers in Remarks.)
WMARY OF FINDINGS - Attach site	map showing sampling	g point locations, transects, important features, etc
dric Soll Present? Yes		ne Sampled Arsa in a Wetland? Yes No No
marks. above worms - agricultual s	1	litchmy + tite
SETATION - Use scientific names of		
e Stratum (Plot size:)	Absolute Dominant % Cover Species?	Ot-b
	A COM. Special	regimes of continues opening
		TOTAL MATERIAL OF CONTINUES
		Species Across All Strata: (B)
	* Total Co	Percent of Dominant Species Wer That Are OBI, FACW, or FAC: (A/B)
oling/Shrub Stratum (Plot size:	ر	Prevalence Index worksheet:
		Turk o Shullink bur
		magnetic   10 m
		FAC species x3=
	- Total Co	
no Stratum (Plot size:),		
Scale Scale		Column Totals: (A) (B)
		· · · · · · · · · · · · · · · · · · ·
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
		the art standard damental and 1 (Dentide or connection)
		( CESS IN MAINSTRIP OF OUR SEPARATION STREET,
		Anguard Mou-Assemet casus
		Problematic Hydrophytic Vegetation (Explain)
		indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
	= Total Co	
gody Vine Stratum (Plot size:)		Hydrophytic
gody Vine Stratum (Plot size:)		Hydrophytic Vecetation
)		Hydrophytic Vegetation Present? Yes No

epth nches) Color	Matrix (moist) %	Color (moist) % Type Loc	Texture	Remerks
	yn 2/7		100	<b>1</b> 4
	YR 2.5/	7		
16 1:	7/2 2/3/		2007-10	
ype: C=Concentrat	on. D≃Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sand	Grains.	Location: PL=Pore Lining, M=Matrix, ators for Problematic Hydric Soils :
	a: (Approapre to all	LRRs, unless otherwise noted.)		cm Muck (A19)
Histosol (A1)		Sandy Redox (95) Stripped Matrix (96)		ted Parent Material (TF2)
_ Histic Epipedon (/ _ Black Histic (A3)	A2)	Loamy Mucky Mineral (F1) (except MLRA		Other (Explain in Remarks)
_ Hydrogen Sulfide	/AX\	Loamy Gleyed Matrix (F2)	``	
	VAN/ Dark Surface (A11)	Deplated Matrix (F3)		
Thick Dark Surface		Redox Dark Surface (F6)	<sup>3</sup> Indic	ators of hydrophytic vegetation and
Sandy Mucky Mir		Depleted Dark Surface (F7)		stland hydrology must be present,
Sandy Gleyed Ma		Redox Depressions (F8)	un	iess disturbed or problematic.
estrictive Layer (if	present):			
Туре:		·		
			Hydric 8	ioli Present? Yes No
Depth (inches):				
emerks.		No indicate	ک	
PROLOGY	ndicators:	No indicate	<i></i>	
PROLOGY		No indicate		condary Indicators (2 or more required)
DROLOGY	nimper end to mumin			conciary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2
PROLOGY etland Hydrology	inimum of one require	d. check all that apply)		
PROLOGY  Total Hydrology  Idinary Indicators (m.  Surface Water (A.	inimum of one require	d. check all that apply)	Se MLRA	Water-Stained Leaves (B9) (MLRA 1, 1 4A, and 4B) Drainage Pattetns (B10)
DROLOGY etland Hydrology I imary Indicators (m Surface Water (A High Water Table	nimum of one require 1) (A2)	d. check all that sophy)  Water-Steined Leaves (89) (except I 1, 2, 4A, and 48)	St MLRA	Water-Stained Leaves (B9) (MLPA 1, 2 4A, and 4B) Drainage Patierns (B10) Dry-Season Water Table (C2)
DROLOGY etland Hydrology I imary indicators (m _ Surface Water (A High Water Table Saturation (A3) _ Water Marks (B1	inimum of one require 1) (A2)	d. check all that apply)  Water-Steined Leaves (89) (except I  1, 2, 4A, and 48)  Salt Cruet (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)	MLRA	Water-Stained Leaves (B9) (MLPA 1, 4A, and 4B) Drainege Pattetns (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerial Imagery (C
DROLOGY estand flydrology getand flydrology imary insigators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Water Marks (B1) Orth Deposits (B1)	inimum of one require  1)  (A2)  ta (B2)	d. check all that apphr)  Water-Steined Leaves (89) (except i 1, 2, 4A, and 4B)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living i	MLRA	Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patietra (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)
PROLOGY  Total Market M	inimum of one require 1) 1 (A2) ) ta (B2) ) I (B4)	d. check all that accity)  Water-Steined Leaves (89) (except in the steined st	MLRA	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietra (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitant (D3)
PROLOGY  Tribut Indicators (Indicators (In	inimum of one require  1)  (A2)  ta (B2)  3)  4 (B4)  (4 (B4)	d. check ell that sophy)  Water-Steimed Leaves (89) (except I  1, 2, 4A, end 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living il  Presence of Reduced Iron (C4)  Racent Iron Reduction in Tillad Soils	MLRA	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietris (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquiters (C3) FAC-Neutral Test (D5)
imerks.  DROLOGY  etland flydrology   imery indicators (m Surfsce Water (A High Water Table Saturation (As) Water Marks (B1 Sediment Deposit Drit Deposits (B5 Affice Mater Cruz Iron Deposits (B5 Surface Soil Crax	inimum of one require  1)  (A2)  ta (B2)  3)  4 (B4)  1)  tks (B6)	d. check all that apply)  Water-Steined Leaves (89) (except I 1, 2, 4A, and 48)  Salt Cruet (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living ( Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soils  Stunied or Stressed Plants (D1) (LRI	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietns (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shafkow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
PROLOGY  Total Proposition (A)  Water Marks (B1  Seduration (A3)  Water Marks (B1  Seduration Total  Inthe Deposits (B1  Algel Mart or Crus  Iron Deposits (B5  August	inimum of one require  1)  (A2)  ta (B2)  (B4)  (B4)  (B4)  (B4)  (B A)  (B A)  (B A)	d. check all that apphy)  Water-Steined Leaves (89) (except to 1, 2, 4A, and 48)  Saft Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living ( Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soile  Sturtled or Stressed Plents (D1) (LRI  Other (Explain in Remarks)	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietris (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquiters (C3) FAC-Neutral Test (D5)
PROLOGY  retland Hydrology Intervention (Hydrology Int	inimum of one require  1)  (A2)  ta (B2)  3)  4 (B4)  1)  tks (B6)	d. check all that apphy)  Water-Steined Leaves (89) (except to 1, 2, 4A, and 48)  Saft Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living ( Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soile  Sturtled or Stressed Plents (D1) (LRI  Other (Explain in Remarks)	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietns (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shafkow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emerks.  **TOROLOGY**  **Indicators for Surface Water (A High Water Table Seturation (A3)  **Water Marks (B1 Sediment Deposits (B5 Aigst Mark or Crus Iron Deposits (B5 Surface Soil Cras fnundation Visible Spursely Vegetal	inimum of one require  1) ((A2) ) ta (B2) ) ((B4) ) ks (B6) e on Aerial Imagery (E and Concave Surface	d. check all that apply)  Water-Steined Leavee (89) (except I 1, 2, 4A, and 4B)  Sat Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres atong Living (Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soils  Sturied or Stressed Plants (D1) (LRI)  Other (Explain in Remarks)  (88)	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietns (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shafkow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emerks.  **TOROLOGY**  **Indicators for Surface Water (A High Water Table Seturation (A3)  **Water Marks (B1 Sediment Deposits (B5 Aigst Mark or Crus Iron Deposits (B5 Surface Soil Cras fnundation Visible Spursely Vegetal	inimum of one require  1)  (A2)  ta (B2)  )  ta (B4)  t}  ks (B6)  s on Aerial Imagery (E and Concave Surface	d. check all that apply)  Water-Steined Leaves (89) (except i 1, 2, 4A, and 48)  Salt Cruet (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living i  Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soils  Stunied or Stressed Plants (01) (LRI  7)  Other (Explain in Remarks)	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietns (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shafkow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emerks.  POROLOGY  lettand flydrology i  brosev insticators (m Surface Water (A High Water Table Saturation (A3)  Water Marks (B1 Sediment Deposits (B5 Aigsi Mat or Crus Iron Deposits (B5 Surface Soil Crac finundation Visible Sparsely Vegetal laid Observations:  urface Water Preser	inimum of one require  1)  1 (A2)  1)  1 (B2)  1)  2 (B4)  1)  2 (B4)  3 on Aerial Imagery (Earl Concave Surface  17 Yes  2 Yes	d. check all that apphy  Water-Steined Leaves (89) (except to 1, 2, 4A, and 48)  Saft Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffle Otor (C1)  Oxidized Rhizospheres along Living (1)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soile  Sturtled or Stressed Plents (D1) (LRI  Other (Explain in Remarks)  No Depth (inches):	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietns (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shaflow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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emerics:  **TOROLOGY**  **Total Hydrology Intervention (Market Table Saturation (A3)  **Water Marks (B1)  **Sediment Deposits (B5)  **Alget Met or Crue Iron Deposits (B5)  **Surface Soil Crue Iron Deposits (B5)  **Surface Water Present Iron Present Iron Present Iron Present Iron Deposits Iron Iron Iron Iron Iron Iron Iron Iron	inimum of one require  1)  (A2)  )  at (B2)  3)  at (B4)  }  bt (B4)  be on Aerial Imagery (E and Concave Surface  'Yes  Yes	d. check all that apphr)  Water-Steined Leaves (89) (except i 1, 2, 4A, and 4B)  Salt Cruer (811)  Aquatic invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living i  Presence of Reduced Iron (C4)  Racent Iron Reduced Iron (C4)  Stunied or Stressed Plents (01) (LRI  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  Wester (89) (except in Inches):  No Depth (inches):  Wester (89) (except in Inches):  No Depth (inches):  Wester (89) (except in Inches):  Wester (89) (	Roots (C3) (C6) (C6) (R A)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patietns (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

SOIL

Sampling Point:

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: Sewall Section Township, Range Local relief (concave, convex, none): \_ Landform (hillslope, terrace, etc.): Subregion (LRR) NWI classification Solf Map Unit Name: No \_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes .... Are "Normal Circumstances" present? Yes\_ Are Vegetation \_\_\_\_\_ 8oil \_\_\_\_\_ or Hydrology \_\_\_\_ significantly disturbed? 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? # the Sampled Area Hydric Sail Present? within a Wetland? Wetland Hydrology Present? Remarks above vormal rainfall - agricultual Field VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species Total Cover That Are OBL, FACW, or FAC: (A/B) Septing/Shrub Stratum (Plot size: Prevalence index worksheet: Total % Cover of: Multiply by: OBL species FACW species \_\_\_\_ FAC species \_\_\_\_\_ ... = Totel Cover FACU species \_\_ Hero Stratum (Plot size: UPL spacies Com stubble Column Totals: Prevalence Index = B/A = \_ Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevelence Index is \$3.01 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants<sup>1</sup> Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ... Total Cover Woody Vine Stratum (Plot size: a Total Cover

US Army Corps of Engineers Western Mountains, Valleys, and Coast -- Interim Version

% Bare Ground in Herb Stratum

Depth Matrix		Redox Features		
inches) Color (moist)	<u> </u>	olor (moist) % Type Loc		Remarks
9 1041221	1.5		lan	
1/2 /04n 3/	3/5	รห	13 cm	
<u>e</u>	<u> </u>		-/	
		and States Of Comment on Control Stand	Omina 3 a	cation: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=De lydric Soif Indicators: (Appil		uced Matrix, CS=Covered or Coated Sand		ers for Problematic Hydria Soils':
•				•
Histosal (A1)		Sandy Redox (S5)		n Muck (A10)   Parent Material (TF2)
Histic Epipedon (A2)		Stripped Matrix (S6)		
Black Histic (A3)		Loamy Mucky Mineral (F1) (except MLRA	1) OB	er (Explain in Remarks)
Hydrogen Suificle (A4)		Loamy Gleyed Matrix (F2)		
Depleted Selow Dark Surfa		Depleted Matrix (F3) Radox Dark Surface (F6)	والمستادوراة	ers of hydrophytic vegetation and
Thick Dark Surface (A12)		Redox Denk Surface (F5) Depleted Dank Surface (F7)		nd hydrology must be present,
Sandy Mucky Mineral (S1)		Redox Depressions (F8)		is disturbed or problematic.
Sandy Gleyed Matrix (S4) testrictive Laver (if present):		Redax Depressions (Fo)	LI HOL	is disturbed of properties.
			1	
Type:				
Depth (inches):			Hydric Soil	Present? Yes No
garage and an analysis of the second and the second		No ind	luntes	
		No ind	luchs	
YDROLOGY Netland Hydrology Indicators				
		eck all that apply)	Seco	
Yetland Hydrology Indicators			Seco	Vater-Stained Leaves (89) (MLRA 1,
Netland Hydrology Indicators Primary Indicators (minimum of		eck all that apply)	Seco	Vater-Stained Leaves (89) (MLRA 1, 4A, and 4B)
Netland Hydrology Indicators rimary indicators (minimum of Surface Water (A1)		eck all that apply)Water-Stained Leaves (59) (except N	S8000	Vater-Slained Leaves (89) (MLRA 1, 4A, and 4B) trainage Patterns (810)
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Netland Hydrology Indicators Primery Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aigel Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concer Fleid Observations: Surface Water Present? Saturation Present? Saturation Present?	t imagery (87) ve Surface (88) Yes	with the poly (except to t	Second   V	Vater-Steined Leaves (B9) (MLRA 1, 4A, and 4B) varience Patterna (B10) vhy-Season Water Table (C2) laturation Visible on Aerial Imagery ( lecomorphic Position (D2) shaflow Aquitand (D3) AC-Neutral Test (D5) laised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Netland Hydrology Indicators Primery Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concel Field Observations: Vegetated Concel Seturation Present? Nater Table Present? Seturation Present? Seturation Present? Seturation Present? Seturation Present? Describe Recorded Data (stream	t imagery (87) ve Surface (88) Yes	with the poly (except the second of the	Second   V	Vater-Steined Leaves (B9) (MLRA 1, 4A, and 4B) varience Patterna (B10) vhy-Season Water Table (C2) laturation Visible on Aerial Imagery ( lecomorphic Position (D2) shaflow Aquitand (D3) AC-Neutral Test (D5) laised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Netland Hydrology Indicators Primery Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aigel Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concer Fleid Observations: Surface Water Present? Saturation Present? Saturation Present?	t imagery (87) ve Surface (88) Yes	with anothy)  Water-Steined Leaves (89) (except in 1, 2, 4A, and 4B)  Salt Crust (811)  Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres atong Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils ( Stunted or Stressed Plents (D1) (LRR Other (Explain in Remarks)  Depth (inches): Depth (inches): Witing well, serial photos, previous inspection	Secondary National Secondary Nat	irainage Patterns (B10) ry-Season Water Table (C2) ry-Season Water Table (C2) seuration Visible on Aerial Imagery (G seomorphic Position (D2) shaflow Aquitard (D3) AC-Neutral Test (D5) slased Ant Mounds (D6) (LRR A) roet-Heave Hummocks (D7)
Netland Hydrology Indicators Primery Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concel Field Observations: Vegetated Concel Seturation Present? Nater Table Present? Seturation Present? Seturation Present? Seturation Present? Seturation Present? Describe Recorded Data (stream	t imagery (87) ve Surface (88) Yes	with the poly (except the second of the	Secondary National Secondary Nat	Vater-Stained Leaves (B9) (MLRA 1, 4A, and 4B) variange Patterna (B10) rhy-Season Water Table (C2) laturation Visible on Aerial Imagery (c learnorphic Position (D2) shaflow Aquitand (D3) AC-Neutral Test (D5) laised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

US Army Corps of Engineers

SOIL

Western Mountains, Valleys, and Coast - Interim Version

Sampling Point:

#### WETLAND DETERMINATION DATA FORM -- Western Mountains, Valleys, and Coast Region Applicant/Owner: Sewall Landform (hillstope, terrace, etc.): Local ratiof (concave, convex, none); Subregion (LRR) Soil Man Unit Name: \_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_ Are Vegetation \_\_\_\_\_ Soil \_\_\_\_ or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ No (If needed, explain any answers in Remarks.) Are Vegetation \_\_\_\_\_ Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydric Sail Present? within a Wetland? Wetland Hydrology Present? above Normal rainfall - agricultual Field VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Septimo/Shrub Stratum (Plot size: FACW species FAC species FACU species \_\_ = Total Cover Herb Stratum (Plot size: UPL species NI CORN Prevalence Index = B/A = hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.01 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants' Problematic Hydrophytic Vegetation (Explain) indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. - Total Cover Woody Vine Stratum (Plot size:

% Bare Ground in Herb Stratum US Army Corps of Engineers Western Mountains, Valleys, and Coast - Interim Version

\* Total Cover

repth Matrix nches) Color (moist) %  6 /07N 3/2  12 /0/3/2	Color (moist) % Jyne 100	Texture Remarks
	Comm m / Smt	1000
12 10/3/2	comm m/ -ohr	Lucke lung
11/2 /0/12/2-		and the same of th
ype: C=Concentration. D=Depletion, RI ydric Soft Indicators: (Applicable to a	M=Reduced Matrix, CS=Covered or Costed Sand Gr	ains. <sup>3</sup> Location: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Perent Material (TF2)
_ Steck Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
_ Thick Dark Surface (A12)	Hedox Dark Surface (F6)	Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	watland hydrology must be present,
_ Sandy Gleyad Matrix (S4) estrictive Layer (if present):	Redox Depressions (F6)	unless disturbed or problematic.
Type:		
Depth (inches):	No. The Address of the Control of th	Hydric Soil Present? Yes No
emarks:		
DROLOGY		
retiand Hydrology Indicatora: rimary Indicators (minimum of one requi	red: check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Steined Leaves (B9) (except MLI	
_ Surface water (A1) _ High Water Table (A2)	1, 2, 4A, and 4B)	4A. and 4B)
_ Right system (A2) _ Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic invertebrates (B13)	Dry-Sesson Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roo	its (C3) Geomorphic Position (D2)
Aigel Met or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
tron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6	
_ Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery	(B7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Spensely Vegetated Concave Surface	t (B8)	
leid Observations:	No. World Graduat	
urface Water Present? Yes		
/aler Table Present? Yes		and Hydrology Present? Yes No
ncludes capitary fringe)	monitoring well, serial photos, previous inspections).	
escribe Recorded Data (stream gauge.:		
escribe Recorded Data (stream gauge emarks:  + b be mn		udicates

		ountains, Valleys, and Coast Region
sci/site: Sthu	City/County:	1 arysuile sampling Date 3-21
cant/Owner		State: WA Sampling Point: DP3
tigator(e): Id Sewall	Section, Township,	Range
ionn (hillstone, terrace, etc.)	Local relief (concar	ve. convex, none): Slope (%):
enion ( PP)	Lat	Long: Datum:
Asp Unit Name:		NWt classification;
limatic / hydrologic conditions on the site typical for thi	a time of user? Van N	
/egetation, Soit or Hydrology t		we 'Normel Circumstances' present? Yes No
	•	If needed, explain any answers in Remarks.)
/egetation Soit or Hydrology r		•
MMARY OF FINDINGS - Attach site map	showing sampling poir	nt locations, transects, important features, et
drophylic Vegetation Present? YesN dric Soil Present? YesN stand Hydrology Present? YesN	lo 7, 1 lo within s We	
marks: above wormal	2010.E.J	
-agricultual File		hny + tile
ETATION – Use scientific names of plan	Nts. Absolute Dominant Indicat	isr   Dominance Test worksheet:
e Streken (Plot size:)	% Cover Species? Statu	Number of Dominant Species
	u, agguntahlaha nyakukephaniphin kalandahlah	Total Number of Dominant
	* Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/E
oling/Shrub Stratum (Plot size:)		
		Provalence Index workshoot:
		Total % Cover of: Multiply by:
		FACW species x 2 =  FAC species x 3 =
		FACU species x 4 =
th Stratum (Plot size:)	= Total Cover	LIDI energies v.5 =
Corn	בא	Column Totals: (A) (B
		Prevsience index = B/A =
		Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
		Prevalence Index is \$3.01
		Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
		Wetland Non-Vescular Plants
		Problematic Hydrophytic Vegetation* (Explain)
		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
	* Total Cover	
nodu Vine Stratium /Plot size:		Hydrophytic
pody Vine Stratum (Plot size:)	•	Vegetation
	•	

Depth Metrix (riches) Cofor (moist) %	Redox Features Color (moist) % Type Loc	Texture Remarks
10 1042/1	the fine fine	sily in
16 10×13/2	Few For Fra	
		alon 2) anning Markey 15 harden
Type: C=Concentration, D=Depletion, R lydric Solt Indicators: (Applicable to	M=Reduced Matrix, CS=Covered or Costed Sand Gr all LRRs, unless otherwise noted.)	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosof (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Hielic Epipedon (A2)	Stripped Matrix (S6)	Red Perent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Logary Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)		No. Single and the coloured and the colo
Thick Dank Surface (A12)	Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)  Redox Depressions (F8)	watland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	ынево изминост от расоветелс.
estrictive Layer (if present):		-
Туре:	api (militaria)	Hurtric Striil Present? Yes No
Depth (inches):	AAAAAA AAAA	Hydric Soil Present? Yes No No
emarks:  /DROLOGY		
temarks: YDROLOGY Velland flydrology Indicators:		
emerks: YDROLOGY Veitland flydrology Indicators: rimary Indicators (minimum of one requ		Secondary indicators (2 or more required)
rprocessing the state of the st	Water-Stained Leaves (B9) (except MLF	RA Water-Stained Leaves (89) (MLRA 1,
VDROLOGY  Vettand flydrology Indicators:  "impary Indicators (minimum of one requ Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B)	RA Water-Stained Leaves (59) (MLRA 1, 4A, and 4B)
YDROLOGY Vettand flydrology Indicators: Primery Indicators (minimum of one requestrace Water (A1) High Water Table (A2) Saturation (A3)	Water-Stated Leaves (B9) (except MLF 1, 2, 4A, and 4B) Saft Crust (B11)	RAWater-Stained Leaves (59) (MLRA 1, 4A, and 4B) Drainage Patterns (510)
emerks:  /DROLOGY  /etiland flydrology indicators:  /mary indicators (minimum of one requestions where (A1)  High Weter Table (A2)  Seturation (A3)  Water Marks (B1)	Water-Statned Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
emerks:  /DROLOGY  fettand flydrology Indicators:  rimary indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suffate Odor (C1)	RA Water-Stained Leaves (69) (MLRA 1, 4A, and 4B) Drained Patterna (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (6
PDROLOGY  Vettand flydrology Indicatora:  Inimary Indicatora (minimum of one requestrates Water (A1)  High Weter Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Set Crust (811) Aquatic Invertebrates (813) Hydrogen Suffate Odor (C1) Oxidized Rhizospheres along Living Roo	RA Wefer-Stained Leaves (69) (MLRA 1, 4A, and 4B) Drainage Patienta (B10) Dry-Season Water Table (C2) Saturation Visible on Agrial Imagery (6 0ts (C3) Geomorphic Position (D2)
VDROLOGY  Vettand flydrology Indicatora:  Primary Indicators (minimum of one requestrians water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sedment Deposits (B2)  Drift Deposits (B3)  Aigal Mart or Crust (B4)	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Sat Crust (811) Aquatic invertebrates (813) Hydrogen Suffate Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4)	RA Weter-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (6 Geomorphic Position (D2) Shallow Aquitard (D3)
emerks:  /DROLOGY  retiand flydrology indicators:  rimary Indicators (minimum of one requ  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Set Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solis (C6)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial finagery (C Gosmorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
POROLOGY  Vettand flydrology Indicatora:  Inmary Indicatora (minimum of one requestrial particular (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Agal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Raccent fron Reduction in Tiesed Soils (C6 Stunied or Stressed Plants (D1) (LRR A)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Seturation Visible on Aerial Imagery (Cast (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
POROLOGY  retiand flydrology indicators:  rimary Indicators (minimum of one requ Surface Water (A1)  High Weter Table (A2)  Seturation (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 Imagery	Water-Steined Leaves (B9) (except MLF 1, 2, 4A, and 4B) Satt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Raduced tron (C4) Racent fron Reduction in Tifled Solis (C8 Sturiled or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial finagery (C Gosmorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
POROLOGY  Welland Hydrology Indicatora:  rimary Indicatora (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3)  Water Marks (B1) Sediment Deposits (B2) Drik Deposits (B3) Algal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Viable on Aerial Imagery Sparsely Vegelstard Concave Surface	Water-Steined Leaves (B9) (except MLF 1, 2, 4A, and 4B) Satt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Raduced tron (C4) Racent fron Reduction in Tifled Solis (C8 Sturiled or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Seturation Visible on Aerial Imagery (Cast (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
POROLOGY  Vettand flydrology Indicatora:  Inimary Indicators (minimum of one requisited Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Cruat (B4)  Iron Deposits (B5)  Surface Soil Gracks (B6)  inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface field Observetions:	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Selt Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunied or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 28 (88)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Seturation Visible on Aerial Imagery (Cast (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
FDROLOGY  Welland Rydrology Indicatora:  Inimary Indicators (minimum of one requi- Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Dirt Deposits (B3)  Algal Mart or Cruat (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  Teld Observations:  Surface Water Present?  Yes  Lindon Water Present?	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduction in Tised Soils (C6 Stunied or Stressed Plants (D1) (LRR A) Other (Expiain in Remarks)  No Depth (inches):	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Seturation Visible on Aerial Imagery (Cast (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
FDROLOGY  Welland Rydrology Indicatora:  Inimary Indicators (minimum of one requi- Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Dirt Deposits (B3)  Algal Mart or Cruat (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  Teld Observations:  Surface Water Present?  Yes  Lindon Water Present?	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduction in Titled Soils (C6 Stunied or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) te (88)  No Depth (inches):	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Seturation Visible on Aerial Imagery (C costs (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
VPROLOGY  Veitland flydrology Indicatora:  Primary Indicators (minimum of one requestricture)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Aigal Mart or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Ves  Saturation Present?	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic threefbrates (813) Hydrogen Suffide Odor (C1) Oudized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent fron Reduction in Tiled Soils (C6 Stunied or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) to Bepth (inches): No Depth (inches): No Depth (inches): Wette	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C cots (C3) Geomorphic Position (D2) ShaBow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
romerks:  VDROLOGY  retisand flydrology Indicestors:  rimery Indicestors (minimum of one requestrates water (A1)  High Weter Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mart or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Sparsely Vegetsted Concave Surfaction of Vegets (B6)  Indicestors:  Surface Water Present? Yes  Seturation Present? Yes	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduction in Titled Soils (C6 Stunied or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) te (88)  No Depth (inches):	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterna (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Cast (C3) Geomorphic Position (D2) Sha6ow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
VPROLOGY  Vettand Rydrology Indicatora:  Intrinsery Indicators (minimum of one requisition of one requisition)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Agal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Crucks (B6)  Inundation Visible on Aerial Imagery  Sparsety Vegetated Concave Surface  Teld Observations:  Surface Water Present?  Yes  Saturation Present (Stréam gauge.)	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic threefbrates (813) Hydrogen Suffide Odor (C1) Oudized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent fron Reduction in Tiled Soils (C6 Stunied or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) to Bepth (inches): No Depth (inches): No Depth (inches): Wette	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterna (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Cast (C3) Geomorphic Position (D2) ShaBow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY  Weitland Hydrology Indicatora:  Primary Indicators (minimum of one requiser of one of one requiser of one of o	Weter-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suffee Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tifled Solis (C8 Stunied or Stressed Plants (01) (LRR A) Other (Explain in Remarks) to Depth (inches): No Depth (inches): Weti	RA Water-Stained Leaves (B9) (MLRA 1, 44, and 48)  Drainege Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial timagery (C construction (C2)  Sheave Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  In available:
VPROLOGY  Vettand Rydrology Indicatora:  Intrinsery Indicators (minimum of one requisition of one requisition)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Agal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Crucks (B6)  Inundation Visible on Aerial Imagery  Sparsety Vegetated Concave Surface  Teld Observations:  Surface Water Present?  Yes  Saturation Present (Stréam gauge.)	Water-Steined Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic threefbrates (813) Hydrogen Suffide Odor (C1) Oudized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent fron Reduction in Tiled Soils (C6 Stunied or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) to Bepth (inches): No Depth (inches): No Depth (inches): Wette	RA Water-Stained Leaves (B9) (MLRA 1, 44, and 48)  Drainege Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial timagery (C construction (C2)  Sheave Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  In available:

SOIL

Sampling Point: \_\_\_\_

**:	~				١.	tains, Valleys, a		
ct/Site:	<u> </u>	△		City/County:	Ma	mysulle	Sampling Date:	D 0-
cent/Owner:						State: WA	Sampling Point:	UP-
tigator(a):	20 S	<u>ie wal</u>	<u></u>	Section, Town	ship, Rang	ye:		
form (hillslope,	terrace, etc.):			Local relief (cr	oncave, co	onvex, none):	Sk	pe (%):
						Long:		
	b:					NWI cleas		
diocesis è broseni	ionia conditions on t	the rite business f	for this time of w	ar? Yas	No.	(if no, explain in	Remarks.)	
	Soil or	titi and typical i	. minnifferentin	distribut?	Ave "hi	lormal Circumstances	nmeent? Yes	No
						ided, explain any ans		
					•	•		
MMARY OF	FINDINGS - A	ittach site n	nap showing	sampling	point lo	cations, transec	ts, important f	eatures, etc
denninde Mann	tation Present?	Vac	Z Z			_		
dric Soil Preser		Yes	No		Sampled /			
tiand Hydrolog		Yes		within	a Wettand	57 TOS	No	
marks.	above		7	<u> </u>	****			
	- 4411'cult			" Sheet	the	u + til		
	- 270001	<u> </u>	. 26	wide	ruce	4 + /		
ETATION	- Use scientific	names of	plants.			•		
				Dominant In		Dominance Test wi		
	lot size:			Species?		Number of Dominan That Are OBL, FACY		(À)
					1	I MAIL AVE CIDL, FACT	n, w rao	
						Total Number of Dor Species Across All S	ninant	(B)
						abanas vinnes vin a	141 <b>4</b> 4 (E	(5)
·				= Total Cove		Percent of Dominant That Are OBL, FACU		(A/E
dine/Shrub Str	atum (Plot size:		)	10tal Cove	.	Inat Are Obl., PAC	N, 01 FAU:	
						Prevalence Index v		
							d: Multis	
						OBL species		
						FACW species		
						FAC species		
			-	_= Total Cove	r l	FACU species		
no saratum (P	lot size:	)		/	MI	UPL species		
						Column Totals:	(A)	
						Prevalence inc	tex = B/A =	
						Hydrophytic Veget		
						Dominance Tel	it is >50%	
						Prevalence Inde		
					· ·	Morphological A	daptations (Provid	e supporting le sheet)
						Wetland Non-V		
							drophytic Vegetation	n' (Explain)
·						Indicators of hydric	soil and wetland hy	drology must
·						be present, unless o	tisturbed or problem	atic
	turn (Plot size:	1		= Total Cove	r			
oddy Vine Kirs						Hydrophytic		
						Vegetation		
oody Vine Sita							Man 44	
				_= Total Cove	·	Present?	Yes No_	

Type: C=Concentration, D=Depletion, RM-	Reduced Matrix, CS×Covered or Coated Sand Gr	rains. Location: PL=Pore Lining, M=Matrix.
Hydric Soil indicators: (Applicable to all		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)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Metrix (F2)	
Depleted Below Derk Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Derk Surface (F6)	*Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		_
Туре:	Maring and The Control of the Contro	
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
	ad navigad yan maka maka maka ka sanak sa sanak ka sanak	
Wetland Hydrology Indicators:	at reference all these security.	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (89) (except MLI	
Wetland Hydrology Indicators: Primery Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (89) (except Mt.1 1, 2, 4A, and 48)	RA Water-Steined Leaves (89) (MLRA 1, 4A, and 4B)
Wetland Hydrology Indicators: Primery Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3)		RAWater-Steined Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810)
Wetland Hydrology Indicators: Primery Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except Mt.I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	RAWater-Steined Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	V/ater-Steined Leaves (89) (except Mt.f. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1
Wetland Hydrology Indicators: Primery Indicators (minimum of one requires Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drik Deposits (B3)	Water-Stained Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Saft Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Roc	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1) ots (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primery Indicators (minimum of one (Squirze) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sedment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Saft Crust (811) Aquatic (811) Hydrogen Sulfide Odor (C1) Osatized Rhizospheres along Living Roc Presence of Reduced Iron (C4)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1 Geomorphic Position (D2) Shallow Aquiterd (D3)
Wetland Hydrology Indicators: Primery Indicators (minimum of one requires Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drik Deposits (B3)	V/ater-Steined Leaves (89) (except Mt.1 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Soils (C5)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) — Drainage Patterns (B10) — Dry-Season Water Table (C2) — Saturation Visible on Aerial Imagery (tots (C3) — Geormorphic Position (D2) — Shaslow Aquitard (D3) — FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primery Indicators (minimum of one requires 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)	Vister-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Soils (C6 Stunted or Stressed Plants (D1) (LRR A	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Dry-Season Water Table (C2) Seturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquiterd (D3) FAC-Neutral Test (D5) (LRR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primery Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Orlt Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soit Cracks (B6) Inundation Visible on Aerial Imagery (B	Water-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrakes (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Racent Iron Reduction in Titled Soils (C6 Stunted or Stressed Plants (01) (LRR A Other (Explain in Remarks)	Mater-Stained Leaves (B9) (MILRA 1, 4A, and 4B)  — Drainage Patterns (B10)  — Dry-Season Water Table (C2)  — Saturation Visible on Aerial Imagery ( Geormorphic Position (D2)  — Shallow Aquitard (D3)  — FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required 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)	Water-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrakes (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Racent Iron Reduction in Titled Soils (C6 Stunted or Stressed Plants (01) (LRR A Other (Explain in Remarks)	Mater-Stained Leaves (B9) (MLRA 1, 4A, and 4B)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( Geormorphic Position (D2)  Shallow Aquiterd (D3)  FAC-Neutral Test (D5) (LRR A)
Wetland Hydrology Indicators: Primery Indicators (minimum of one (equiral Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Orit Deposits (B3) Alpal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Sparsety Vegetated Concave Surface (B	Water-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrakes (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Racent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (01) (LRR A Other (Explain in Remarks)	Mater-Stained Leaves (B9) (MLRA 1, 4A, and 4B)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( Geormorphic Position (D2)  Shallow Aquiterd (D3)  FAC-Neutral Test (D5) (LRR A)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one requires  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drik Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B  Sparsey Vegetated Concave Surface (Field Observetions:	Water-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrakes (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Racent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (01) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Dry-Season Water Table (C2) Seturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquiterd (D3) FAC-Neutral Test (D5) (LRR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Cruzt (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Vieldle on Aerial Imagery (B Sprace) Vegetated Concave Surface (Field Observations: Surface Water Present? Yes	Wister-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tiliad Soils (C6 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks) 88)	Mater-Stained Leaves (B9) (MLRA 1, 4A, and 4B)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( Geormorphic Position (D2)  Shallow Aquiterd (D3)  FAC-Neutral Test (D5) (LRR A)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required 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 Soit Cracks (B6) Inundation Visible on Aerial Imagery (B Sprace) Vegetated Concave Surface (Field Observations: Surface Surface (Field Observations: Surface Water Present? Yes	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Racent Iron Reduction in Tiliad Solis (C6 Stunied or Stressed Plants (D1) (LRR A C) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)  Shatiow Aquiterd (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
Primary Indicators (minimum of one requires 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 Sol Cracks (B6) Inundation Visited on Aerial Imagery (B Sparsety Vegetated Concave Surface ( Fleid Observations: Surface Vater Present? Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Viater-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Soils (C4 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  No Depth (inches): No Depth (inches): Wetl	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required 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 Visition on Aerial Imagery (B Sparsety Vegetated Concave Surface (Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Racent Iron Reduction in Tiliad Solis (C6 Stunied or Stressed Plants (D1) (LRR A C) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required 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 Visition on Aerial Imagery (B Sparsety Vegetated Concave Surface (Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Viater-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Soils (C4 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  No Depth (inches): No Depth (inches): Wetl	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
Wetland Hydrology Indicatora:  Primery Indicators (minimum of one required 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 Imagery (B Spansely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Includes capitary fringe) Describe Recorded Data (stream gauge, me	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Solis (C6 Stunied or Stressed Plants (D1) (LRR A C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wett cnitoring well, serial photos, previous inspections)	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
Wetland Hydrology Indicatora:  Primery Indicators (minimum of one required 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 Imagery (B Spansely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Includes capitary fringe) Describe Recorded Data (stream gauge, me	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Solis (C6 Stunied or Stressed Plants (D1) (LRR A C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wett cnitoring well, serial photos, previous inspections)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B)  Dry-Seanon Water Table (C2)  Saturation Visible on Aerial Imagery (C3)  Geomorphic Position (D2)  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one (equire) 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 Imagery (B Spansely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Surface Water Present? Yes Saturation Present? Yes (includes capitary fringe) Describe Recorded Data (stream gauge, me	Viater-Steined Leaves (89) (except Mt.I. 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Soils (C4 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  No Depth (inches): No Depth (inches): Wetl	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one (equire) 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 Imagery (B Spansely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Surface Water Present? Yes Saturation Present? Yes (includes capitary fringe) Describe Recorded Data (stream gauge, me	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Solis (C6 Stunied or Stressed Plants (D1) (LRR A C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wett cnitoring well, serial photos, previous inspections)	RA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)
Wetland Hydrology Indicatora:  Primery Indicators (minimum of one required 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 Imagery (B Spansely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Includes capitary fringe) Describe Recorded Data (stream gauge, me	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Solis (C6 Stunied or Stressed Plants (D1) (LRR A C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wett cnitoring well, serial photos, previous inspections)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B)  Dry-Seanon Water Table (C2)  Saturation Visible on Aerial Imagery (C3)  Geomorphic Position (D2)  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features
George Color (motes) % Color (motes) % Troe Los I Exture
6 /04/1 2//
16 /04/3/2 CAC 5,5% &

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Interim Version

US Army Corps of Engineers

SOIL

Western Mountains, Valleys, and Coast - Interim Version

Sampling Point: \_\_\_\_

<b>~</b>		Λ.	ountains, Valleys, and Coast Region
icusini: S.Thu	c	Sty/County:	1 any suite sampling Date: 3-21-
cant/Owner:			State: WA Sampling Point: DP#
tigatos(s): Zd Sewal	5	Section, Township,	Range:
form (hillslope, terrace, etc.):		Local relief (concav	re, convex, none): Slope (%):
igion (LRR)			
dep Unit Name:			NWI classification:
limetic / hydrotogic conditions on the site hypical fo	e this time of year	r/ Yes Nr	
Agestation, Soit or Hydrology			re 'Normal Circumstances' present? Yes No
/egetation Soil or Hydrology			f needed, explain any answers in Remarks.)
			· · · · · ·
MMARY OF FINDINGS - Attach site m	ap showing	sampling poin	it locations, transects, important features, etc
drophytic Vegetation Present? Yes	No 7		/
	No	is the Samp	
itland Hydrology Present? Yes		within a Wel	fland? Yes No
merks. above were		~ 11	
		Jan Jan	hm + tile
- agricultual F.	، الحاه	w/ dist	hig + Fish
SETATION - Use scientific names of p	iants.		•
		Dominant Indicate	
e Stretum (Plot size:)		Species? Status	
			That Are OBL, FACW, or FAC:(A)
			Total Number of Dominant
			Species Acroes All Strate: (B)
			Percent of Dominant Species
oling/Shrub Stratum (Plot size:)	Andrew Section Street Section	a Total Cover	That Are OBL, FACW, or FAC: (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species x1 =
		-	FACW species x2 =
			FAC species x3 =
		» Total Cover	FACU species x 4 =
re Stratum (Plot size:)			UPL species x 5 =
			Column Totals: (A) (B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			Dominance Test is >50%
			Prevalence Index is \$3.0 <sup>t</sup>
			Morphological Adaptations' (Provide supporting
			data in Remarks or on a separate sheet)
			Wetland Non-Vescular Plants <sup>1</sup>
			Problematic Hydrophytic Vegetation (Explain)
			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		* Total Cover	7
		-	
pody Vhe Stratum (Plot size:)			
			- Hydrophytic
pody Vhe Stratum (Plot size:)			Hydrophytic Vegetation Present? YesNo
oody Vine Stratum (Ptot size:)		= Total Cover	Vegetation

epth Metrix nohes) Color (moist) %	Redox Features Color (moist) % Type Loc	Texture Remarks
14 10-12/2	<u> </u>	soly In
ype: C=Concentration, D=Depletion, RM ydric Soil Indicators: (Applicable to all	=Reduced Matrix, CS=Covered or Coated Sand Gr LRRs, unless otherwise noted.)	ains. <sup>2</sup> Location: PL=Pore Lining, M=Matric. Indicators for Problematic Hydric Soils <sup>1</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Perent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Desided Matrix (F3)	• .
Thick Dark Surface (A12)	Redox Dark Surface (F8)	*Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present.
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
estrictive Layer (if present):		
Туре:		
		Hydric Soil Present? Yes No
Depth (inches):		
emerks:  *DROLOGY  felland Hydrology Indicators:		
emerks:  *DROLOGY  *estend Hydrology Indicators:  *cheev indicators (minimum of one require		
emerks:  **DROLOGY  **Petland Hydrology Indicators:  **Indicators (minimum of one require  **Surface Water (A1)	Water-Stained Leaves (B9) (except MLF	RA Water-Stained Leaves (69) (MLRA 1,
emerks:  **DROLOGY*  **teland Hydrology Indicators:  **chaev Indicators (minimum of one requirs  **Surface Water (A1)  **High Water Table (A2)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
PROLOGY  retend Hydrology Indicators: rimery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11)	Vater-Steined Leaves (89) (MLRA 1, 4A, and 4B) 
emerks:  **PROLOGY**  **teleand Hydrology Indicators:  **imary Indicators (minimum of one require  **Surface Water (A1)  **High Water Table (A2)  **Saturation (A3)  **Water Marks (B1)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Saft Crust (B11) Aquetic Invertebrates (B13)	RA Water-Stained Leaves (59) (MLRA 1, 4A, and 48) Drainage Patterns (510) Dry-Season Water Table (C2)
emerks:  **TOROLOGY**  **Toron	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	ZA Water-Stained Leaves (59) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1)
POROLOGY  Televined Hydrology Indicators:  Imacy Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 48) Saft Crust (811) Aquatic Invertebrates (813) Hydrogen Staffide Odor (C1) Oxidized Rhizospheres along Living Roo	TA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) — Drainage Patterns (B10) — Dry-Season Water Table (C2) — Saturation Visible on Aerial Imagery (1 4s (C3) — Geomorphic Position (D2)
PROLOGY  reteard Hydrology Indicators:  rimery Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Aigel Mat or Crust (B4)	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 48) Saft Crust (811) Aquetic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4)	A Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) — Drainage Patterns (B10) — Dry-Season Water Table (C2) — Saturation Visible on Aerial Imagery (1 4s (C3) — Geomorphic Position (D2) — Shallow Aquitant (D3)
PROLOGY  retand Hydrology Indicators:  rimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat of Cruzt (B4) Iron Deposits (B6)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquesic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduction in Tillad Solls (C6)	ZA Water-Stained Leaves (89) (MLRA 1,
emerks:  **TOROLOGY**  **Intervention of the require surface Water (A1)  High Water Table (A2)  **Saturation (A3)  **Water Marks (B1)  **Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  **Surface Soil Cracks (B6)	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solts (C6 Stunted or Stressed Plants (D1) (LRR A)	AA, and 48)  Orainage Patterns (B10)  Dry-Seeson Water Table (C2)  Saturation Visible on Aerial Imagery (1  Scomorphic Position (D2)  Shallow Aquitant (D3)  PAC-Neutral Tast (D5)  Raised Ant Mounds (D6) (LRR A)
PROLOGY  reteard Hydrology Indicators:  rimery Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Aigel Mat or Crust (B4)  Iron Deposits (B6)  Surface Soil Cracks (B6)  Inundation Visible on Aerisi Imagery (B	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Saft Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizospheras along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solts (C6 Sturiled or Stressed Plants (71) (LRR A) (Other (Explain in Remarks)	ZA Water-Stained Leaves (89) (MLRA 1,
emerks:  **PROLOGY**  **Proceedings of the second of the s	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Saft Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizospheras along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solts (C6 Sturiled or Stressed Plants (71) (LRR A) (Other (Explain in Remarks)	AA, and 48)  Orainage Patterns (B10)  Dry-Seeson Water Table (C2)  Seturation Visible on Aerial Imagery (1  Seconompile Position (D2)  Shallow Aquitant (D3)  PAC-Neutral Tast (D5)  Raised Ant Mounds (D6) (LRR A)
emarks:  **PROLOGY**  **Proceedings**  **Proceedings**  **Surface Water (A1)  **High Water Table (A2)  **Saturation (A3)  **Water Marks (B1)  **Sediment Deposits (B2)  **Drift Deposits (B3)  **Agal Mat of Cruzt (B4)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Inundation Visible on Aerial Imagery (E)  **Sparsely Vegetated Concave Surface  **Isled Observations:	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquesic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solts (C6 Sturled or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8)	AA, and 48)  Orainage Patterns (B10)  Dry-Seeson Water Table (C2)  Seturation Visible on Aerial Imagery (1  Seconompile Position (D2)  Shallow Aquitant (D3)  PAC-Neutral Tast (D5)  Raised Ant Mounds (D6) (LRR A)
emerks:  **TOROLOGY**  **Toron	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solts (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (inohes):	AA, and 48)  Orainage Patterns (B10)  Dry-Seeson Water Table (C2)  Saturation Visible on Aerial Imagery (C2)  Geomorphic Position (D2)  Shallow Aquitard (D3)  PAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
PROLOGY  retend Hydrology Indicators: rimery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Met or Cruzt (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerisi Imagery (E Sparsely Vegetated Concave Surface Ield Observations: urface Water Present? Yes Inter Table Present? Yes	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solts (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Water-Stained Leaves (89) (MLRA 1, 4A, and 48)
PROLOGY  reteard Hydrology Indicators: rimery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerist Imagery (E Sparsely Vegetated Concave Surface Ield Observations: urface Water Present? Ves surface Water Present? Ves start Table Present? Ves surface Water Table Present? Ves surface Vesent? Ves surface Water Table Present? Ves surface Water Table Present? Ves	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solts (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (inches): No Depth (inches): Vertical Solution (Reduction	A Water-Stained Leaves (69) (MLRA 1, 4A, and 48)
emerks:  **PROLOGY**  **testend Hydrology Indicators:  **imery Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visitote on Aerial Imagery (E  Spansely Vegetated Concave Surface isled Observations:  urface Water Present? Yes  sturation Present? Y	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solts (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	AA, and 48)  Orainage Patterna (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (6  Saturation
PROLOGY  reteard Hydrology Indicators: rimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Met or Cruzt (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Viable on Aerisl Imagery (E Sparsely Vegetated Concave Surface Isid Observations: urface Water Present? Inter Table Present? Inter	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solts (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (68)  No Depth (inches): No Depth (inches): Wetti	Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (6 As (C3) Geomorphic Position (D2) Shallow Aquitard (D3) PAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
PROLOGY  reteard Hydrology Indicators: rimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Met or Cruzt (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Viable on Aerisl Imagery (E Sparsely Vegetated Concave Surface Isid Observations: urface Water Present? Inter Table Present? Inter	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquesic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Sturled or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8)  Depth (inches): Depth (inches): Vo Depth (inches): Vo Depth (inches): Vo Voilloiring welf, serial photos, previous inspections).	4A, and 4B)  Drainage Patterns (B10)  Dry-Seeson Water Table (C2)  Saturation Visible on Aerial Integery (6 SS (C3) Geomorphic Position (D2)  Shallow Aquitand (D3)  PAC-Neutral Tast (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No

SOIL.

Sampling Point: \_\_

ject/Site:	S.H	<u> </u>		City/County	M.	rysulle	Sampling De	
licant/Owner:		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·				A Sampling Po	int: DP
stigatos(s):	20	Sewal	<u> </u>	Section, To	wnship, Ran	ige:		
form (hillstope,	terrace, etc.):			Local relief	(concave, c	onvex, none):		Slope (%):
viap Unit Name	¢ .					NWI cl	essification:	
		on the site typical for	this time of ve	ar? Yes	No 4	Iff no. explai	n in Remarks.)	/
		or Hydrology					ces present? Yes	No
		or Hydrology					mswers in Remarks	
					•			
MMARY OF	FINDINGS -	Attach site ma	p showing	samplin	g point ic	cations, trans	ects, importan	t reatures, et
drophytic Veget	ation Present?	Yes	Mo /		a Sampled	•		
dric Soil Presen		Yes	No	1	e sempeu in s Wetlan		No	
dand Hydrology	y Present?	Yes	No	2 =	MI D TOURS			······
marke.	above	. Normal	rain	Fall				
_		INAL E.			l, tah.	u + ti	le	
						·)		
JETATION -	- Use scient	ific names of pl						
Stratum (Ptr	ot size:			Dominant Species?		Dominance Test Number of Domin		
							NCW, or FAC:	(A)
						Total Number of	Cominsor	
						Species Across A		(B)
		-				Percent of Domin	ant Craries	
		,		_ = Total Co	ver	That Are OBL, F		(A/8
		:				Prevalence Inde	a worksheat	
								Itiply by:
							x1=	
							×2=	
							x3=	
				= Total Co	ver	FACU species	×4=	
b Stratum (Pi	ct size:					UPL species	x5=	
						Column Totals:	(A)	(B)
						Chartelanoa	Index = B/A =	
							petation indicators	
						Dominance		
						Prevalence !		
	······································					Morphologic	ai Adaptations' (Pro	vide supporting
						data in Ru	smarks or on a sept	rate sheet)
							-Vescular Plants	ar Fame and
							Hydrophytic Vegeta	
						be present unles	iric soil and wetland is disturbed or prob	nyarology must ematic
				= Total Co	78F			
ody Vine Stratu								/
						Hydrophytic Vegetation		
				= Total Co		Present?	Yes N	٠
lare Ground in	Herb Stratum			10mi Co	Ver			

Depth Matrix		Redo					and the second s
(inches) Color (moist)	<del></del>	plor (moist)		Type		Texture	Remarks
18 10412 21	4		<i></i>				
6 7,5 YRZ	<u> 12 _</u>	apr.	rus			Volcon	ash
		J					
Type: C=Concentration. D=Depi	atina Did-Dad	nani Matrix CS		or Coale	od Sand Gr	nine ?I o	cation: PL=Pore Lining, M=Matrix.
tydric Soil Indicators: (Applica					0 00.00		ora for Problematic Hydric Soils <sup>3</sup> :
Histosof (A1)	(	Sandy Redox (S	35}				m Muck (A10)
Histic Epipedon (A2)		Stripped Matrix					d Parent Material (TF2)
Stack Histic (A3)		oarny Mucky N			MLAA 1)	Oth	er (Explain in Remarks)
Hydrogen Suifide (A4)		.cemy Gleyed I		)			
Depleted Below Dark Surface  Thick Dark Surface (A12)		Depleted Matrix Redox Derk Sur				3Indicate	ors of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	-	Depleted Dark S					and hydrology must be present.
Sandy Gleyed Matrix (54)		Redox Depress		.,			as disturbed or problematic.
lestrictive Layer (if present):						T	
Туре:							
						Hydric Soi	Present? Yes No
Depth (inches):							
				***************************************	·	. Aggress of a publisher some sort may be so	
Temarks:  YDROLOGY  Nedland Hydrology Indicators:							
Prince of the state of the stat	ne required, the						indary Indicators (2 or more resulted)
YDROLOGY Netland Hydrology Indicators: Primery Indicators (minimum of or	ne required; che	Water-Stat	ned Leav		xcept ML		Water-Steined Leaves (89) (MLRA 1, 2,
YDROLOGY Netland Hydrology Indicators:  "Invariant Indicators (minimum of or Surface Water (A1) High Water Table (A2)	ne required che	Water-Stei 1, 2, 44	ned Leavi L, and 48)		xcept ML	RA V	Nater-Steined Leaves (89) (MLRA 1, 2, 4A, and 4B)
YDROLOGY  Notional Hydrology Indicators:  Frimery indicators (minimum of or  Surface Water (A1)  High Water Table (A2)  L Saturation (A3)	ne required; che	Water-Stal 1, 2, 44 Salt Crust	ned Leavi I, and 48) (B11)	)	except ML	RA V	Water-Steined Leaves (B9) (MILRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
VDROLOGY  Welland Hydrology Indicators:  Intervinduators (minimum of or  Surface Water (A1)  High Water Table (A2)  Jesturation (A3)  Water Marks (B1)	ne required che	Water-Stat 1, 2, 44 Salt Crust Aquatic In	ned Leave L, and 4B) (B11) vertebrate	s (B13)	oxcept ML	RA (	Water-Steined Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2)
YDROLOGY Netland Hydrology Indicators: himsey Indicators (minimum of or Surface Water (A1) High Water Table (A2) L Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ne required, che	Water-Stat 1, 2, 44 Salt Crust Aquatic Im Hydrogen	ned Leavi 1, and 48) (B11) vertebrate Sulfide Or	s (B13) dor (C1)		RA V	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C8
YDROLOGY  Netland Hydrology Indicators:  rhmery Indicators (minimum of or  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)	ne required, che	Water-Stat 1, 2, 44 Salt Crust Aquatic Im Hydrogen	ned Leavi I, and 48) (B11) vertebrate Suffide Ox thizosphe	s (B13) dor (C1) res along	Living Roo	RA V C S ots (C3) C	Water-Steined Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2)
VDROLOGY Nettend Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Lesturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ne required che	Water-State 1, 2, 4A Saft Crust Aquatic Im Hydrogen Oxidized R	ined Leavi 1, and 48) (B11) vertebrate Suffice Or thizosphe of Reduce	s (813) dor (C1) res along id Iron (C	Living Roo	RA (C3) (C3) (C3)	Water-Stained Leeves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Sewson Water Table (C2) Saturation Visible on Aerial Imagery (C8 Geomorphic Position (D2)
YDROLOGY Wetland Hydrology Indicators: Primery Indicators (minimum of or Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ne required, che	Water-State 1, 2, 4A Saft Crust Aquatic Im Hydrogen Oxidized R Presence of	med Leave I, and 48) (B11) vertebrate Suffice Ox thizosphe of Reduce in Reducti	s (813) dor (C1) res along id Iron (C- on in Tille	Living Roo 4) d Solla (Cl	RA (C)	Water-Stained Leaves (B9) (MLPA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C8 Seomorphic Position (D2) Shallow Aquitard (D3)
VDROLOGY  Nedland Hydrology Indicators:  Primery Indicators (minimum of or Surface Water (A1) High Water Table (A2)  Seturation (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	megery (87)	Water-State 1, 2, 4A Saft Crust Aquatic Im Hydrogen Oxidized R Presence of Recent Iro	ned Leavi A, and 4B) (B11) vertebrate Suffice Oc thizosphe of Reduce n Reduce Stressed	s (813) dor (C1) res along id fron (C- on in Tife Plants (D	Living Roo 4) d Solla (Cl	RA	Water-Stained Leaves (B9) (MLRA 1, 2, 44, and 48) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C8 Seconophic Position (D2) Shallow Aquitard (D3) AC-Neutral Test (D5)
VDROLOGY  Netiand Hydrology Indicators:  Intraev Indicators (minimum of or  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sedment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Gracks (B6)  inundation Visible on Aerial in  Sparsely Vepetated Concave	megery (87)	Water-Stat 1, 2, 44 Saft Crust Aquatic Im Hydrogen Oudized R Presence of Recent fro Stunied or	ned Leavi A, and 4B) (B11) vertebrate Suffice Oc thizosphe of Reduce n Reduce Stressed	s (813) dor (C1) res along id fron (C- on in Tife Plants (D	Living Roo 4) d Solla (Cl	RA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C8 Seconophic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) L' Saturation (A3) Water Marts (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 Field Observations:	negery (87) Surface (88)	Water-Stat 1, 2, 4A Saft Crust Aquatic Im Hydrogen Oxidized R Presence o Recent to Stunied or Other (Exp	ined Leavi, , and 48) (B11) vertebrate Suffide Or thizosphe of Reduce in Reducti Stressed olein in Re	s (813) dor (C1) res along id fron (C- on in Tife Plants (D	Living Roo 4) d Solla (Cl	RA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C8 Seconophic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) L' Saturation (A3) Water Marts (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 Field Observations:	megery (B7) Surface (B8) bsNo	Water-Stat 1, 2, 4A Saft Crust Aquatic Inn Hydrogen Oxidized R Presence o Recent fro Stunied or Other (Exp	ined Leavi, and 48) (B11) vertebrate Suffide Or thizosphe of Reduce in Reduction Red	s (813) dor (C1) res along id fron (C- on in Tife Plants (D	Living Roo 4) d Solla (Cl	RA	Water-Steined Leeves (B9) (MLRA 1, 2, 4A, and 4B) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C9 Seconophic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Reised Ant Mounds (D6) (LRR A)
VDROLOGY  Nedland Hydrology Indicators:  Primery Indicators (minimum of or Surface Water (A1)  High Water Table (A2)  L Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visable on Aerial in Sparsely Vegetated Concave (B4)  Indicators Water Present?  Veter Table Present?	megery (87) Surface (88) esNo esNo	Water-Stat 1, 2, 44 Saft Crust Aquatic Im Hydrogen Oxidized R Presence c Recent fro Situnied or Other (Exp	ined Leavi, and 48) (B11) vertebrate Suffide Or thizosphe of Reduce on Reduction Reduction in Reduction (Stressed Dein in Reduction (Stressed Dein in Reduction);	s (813) dor (C1) res along id fron (C- on in Tife Plants (D	Living Roo 4) d Soils (Cl 11) (LRR A		Water-Steined Leaves (B9) (MILRA 1, 2, 4A, and 4B) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C8) Seconorphic Position (D2) Shallow Aquitard (D3) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY  Netland Hydrology Indicators:  Primery Indicators (minimum of or  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sedment Deposits (B2)  Dirit Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Gracks (B6)  Inundation Visible on Aerial in  Sparsely Vegetated Concave  Field Observations:  Surface Water Present?  Yes  Saturation Present?  Yes  Saturation Present?	megery (87) Surface (88) esNo esNo	Water-Stat 1, 2, 4A Saft Crust Aquatic Inn Hydrogen Oxidized R Presence o Recent fro Stunied or Other (Exp	ined Leavi, and 48) (B11) vertebrate Suffide Or thizosphe of Reduce on Reduction Reduction in Reduction (Stressed olein in Reduction (Stressed olein)	s (813) dor (C1) res along id fron (C- on in Tife Plants (D	Living Roo 4) d Soils (Cl 11) (LRR A		Water-Steined Leeves (B9) (MLRA 1, 2, 4A, and 4B) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C9 Seconophic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Reised Ant Mounds (D6) (LRR A)
YDROLOGY Netland hydrology indicators: Primary indicators (minimum of or Surface Water (A1) High Water Table (A2) Lesturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Inundation Visable on Aerial in Sparsely Vegetated Concave Field Observations: Surface Water Present? Verent Table Present? Vesturation Present?	megery (87) Surface (88)  esNo esNo	Water-Stat 1, 2, 44 Sait Crust Aquatic Inn Hydrogen Oxidized R Present for Stunied or Other (Exp Depth (inc Depth (inc	ined Leavi, and 48) (B11) vertebrate Suffide Ox thizosphe of Reduce n Reduce n Reduce stressed olein in Re ches);	s (B13) dor (C1) res along at Iron (C on in Tille Plants (D maarks)	Living Ros 4) d Soils (CI 1) (LRR A		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) *Ac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY  Mediand Hydrology Indicators:  Primary (ndicasors (minimum of or Surface Water (A1)  High Water Table (A2)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Invundation Visible on Aerial In Sparsely Vegetated Concave Field Observations:  Surface Water Present?  Yet Water Table Present?  Yet Coulded Present (Patrick)  Describe Recorded Data (Stream	megery (87) Surface (88) esNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoes	Water-Stat 1, 2, 4A Sait Crust Aquatic Int Hydrogen Oxidized R Present for Stunled or Other (Exp Depth (int Depth (int) Depth (int) Depth (int)	ined Leavi, and 48) (B11) refriebrate (B11) refriebrate Stiffied Or thizosphe of Reduce in Reduc	s (B13) dor (C1) ree stong ad fron (C- orn in Title Plents (D- emerks)	Living Root 4) d Soile (Ct 11) (LRR A	RA V C.	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) 2-4A, and 4B) 2-5-4A, and 4B) 2-7-5-8-each Water Table (C2) 3-8-turation Visible on Aerial Imagery (C9 3-6-conorphic Position (D2) 3-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6
YDROLOGY  Nettand hydrology indicators:  Primary (rukastors (minimum of or surface Water (A1)  High Water Table (A2)  L 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 Spansely Vegetated Concave  Field Observations:  Surface Water Present?  Yet Water Table Present?  Yet Concided capillary fringe)  Includdee capillary fringe)  Describe Recorded Data (Stream	megery (87) Surface (88) esNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoesNoes	Water-Stat 1, 2, 4A Sait Crust Aquatic Int Hydrogen Oxidized R Present for Stunled or Other (Exp Depth (int Depth (int) Depth (int) Depth (int)	ined Leavi, and 48) (B11) refriebrate (B11) refriebrate Stiffied Or thizosphe of Reduce in Reduc	s (B13) dor (C1) ree stong ad fron (C- orn in Title Plents (D- emerks)	Living Root 4) d Soile (Ct 11) (LRR A	RA V C.	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) 2-4A, and 4B) 2-5-4A, and 4B) 2-7-5-8-each Water Table (C2) 3-8-turation Visible on Aerial Imagery (C9 3-6-conorphic Position (D2) 3-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6
VPROLOGY  Nedland Hydrology Indicators:  Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Matt or Crust (B4) Iron Deposits (B5)  Surface Soil Cracks (B6) Inundation Visable on Aerial In Sparsely Vegetated Concave Teld Observations: Surface Water Present?  Ye water Table Present?  Ye saturation Present?  Ye includee capitlary fringe) Includee capitlary fringe) Inscribe Recorded Data (Stream	megery (87) Surface (88)  esNo esNo	Water-Stat 1, 2, 4A Sait Crust Aquatic Int Hydrogen Oxidized R Present for Stunled or Other (Exp Depth (int Depth (int) Depth (int) Depth (int)	ined Leavi, and 48) (B11) refriebrate (B11) refriebrate Stiffied Or thizosphe of Reduce in Reduc	s (B13) dor (C1) ree stong ad fron (C- orn in Title Plents (D- emerks)	Living Root 4) d Soile (Ct 11) (LRR A	RA V C.	Water-Steined Leeves (B9) (MILRA 1, 2, 4A, and 4B) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C9 Seconosphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Reised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Sampling Point: .....

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: Semall Landform (hillslope, terrace, etc.): \_\_ Local ratief (concave, convex, none): \_ Subregion (LRR) NWI cleasification: Soil Map Unit Name: Are climetic / 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 (If needed, explain any answers in Remarks.) Are Vegetation \_\_\_\_\_ Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydric Soil Present? within a Wetland? Yes \_\_\_\_No\_\_\_ Wetland Hydrology Present? above Normal pain Fall -agricultual Field w/ditching + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strate: Percent of Dominant Species - Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species \_\_\_\_ = Total Cover Herb Stratum (Plot size: UPL species Column Totals: \_\_\_ Prevalence Index = B/A = \_ Hydrophytic Vegetation indicators: \_\_ Dominance Test is >50% Prevalence Index is \$3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants<sup>1</sup> Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soli and wetland hydrology must be present, unless disturbed or problematic = Total Cover Woody Vine Stratum (Plot size: \* Total Cover % Bare Ground in Herb Stratum

Depth Matrix (nches) Color (moist) %	Color (moist) % Type Loc	Texture Remarks
13 104h2/1		lan
The 1043/3		ash loan
2 20.01		
	M=Reduced Matrix, CS=Covered or Coated Sand Gr	ains <sup>2</sup> Location: PL=Pore Lining, M=Matrix
lydric Soil Indicators: (Applicable to		Indicators for Problematic Hydric Soils <sup>5</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipadon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
_ Slack Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Metrix (F2)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Matrix (F3) Redox Derk Surface (F6)	*Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problemstic.
testrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Spil Present? Yes No
Remarks:		
/DROLOGY	No when	
YDROLOGY Yetland Hydrology Indicators:	No 10000	
		Secondary Indicators (2 or more resulted)
Yetland Hydrology Indicators:		Secondary Indicators (2 or more resulted)
Vetland Hydrology Indicators: rimary indicators (minimum of one requ	ired, check all that apply)	Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1)	ired, chack all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Sait Crust (B11)	Secondary Indicators (2 or more resulted)  RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B)
Wetland Hydrology Indicators:  Trimery Indicators (minimum of one requ Surface Water (A1) High Water Table (A2)	ired, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more resided)  RA Water-Stained Leaves (89) (MR.RA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2)
Velland Hydrology Indicators: himary indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3)	ired, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Sait Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)  Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
Yelland Hydrology Indicators: himen Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1)	ired, check all that apply)  Water-Steined Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roo	Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MR.RA 1, 4A, and 48) — Drainage Patterns (810) — Dry-Season Water Table (C2) — Saturation Visible on Aerist Imagery (6 ts (C3) — Geomorphic Position (D2)
Yelland Hydrology Indicators:  himery Indicators (minimum of one requirement Indicators (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	ired, check all that apply)  Water-Steined Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffate Odor (C1) Oxidized Rhizopheres along Living Roo Presence of Reduced Iron (C4)	Secondary Indicators (2 or more resided)  RA Water-Stained Leaves (89) (MR.RA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitand (D3)
Welland Hydrology Indicators:  **Immen Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (1)  **Light Water Table (A2)  **Seturation (A3)  **Water Marks (B1)  **Sediment Deposits (B2)  **Drift Deposits (B3)  **Iron Deposits (B5)	ired, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roo  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Solis (C6)	Secondary Insicators (2 or more repaired)  RA Water-Stained Leaves (B9) (MLRA 1,
Yelland Hydrology Indicators:  himery Indicators (minimum of one resultant Indicators	ired, check all that apply)	Secondary Indicators (2 or more required)  RA Water-Stained Leeves (B9) (MR.RA 1,
Velland Hydrology Indicators:  **Immerv Indicators (minimum of one requi Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Sol Cracks (B6)  Inundation Visible on Aerial Imagery	ired, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidizad Rhizospheres along Living Roo  Presence of Raduced (nor (C4)  Racent Iron Reduction in Tillad Soils (C6)  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)	Secondary Insicators (2 or more repaired)  RA Water-Stained Leaves (B9) (MLRA 1,
Yelland Hydrology Indicators:  **Immerv Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (Table (A2)  Saturation (A3)  Water Marks (B1)  Sedimerd Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface	ired, check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidizad Rhizospheres along Living Roo  Presence of Raduced (nor (C4)  Racent Iron Reduction in Tillad Soils (C6)  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)	Secondary Indicators (2 or more required)  RA Water-Stained Leeves (B9) (MR.RA 1,
Welland Hydrology Indicators:  **Immerv Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (Table (A2)  Seturation (A3)  Wetter Marks (B1)  Sedimerd Deposits (B2)  Drift Deposits (B3)  Iron Deposits (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  Field Observations:	ired, check all that apply)  Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roo  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)	Secondary Indicators (2 or more resulted)  RA Water-Stained Leaves (B9) (MR.RA 1,
Welland Hydrology Indicators:  **Immerv Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (Table (A2)  Seturation (A3)  Wetter Marks (B1)  Sedimerd Deposits (B2)  Drift Deposits (B3)  Iron Deposits (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  Field Observations:	ired, check all that apply)  Water-Steined Leaves (B6) (except MLF 1, 2, 4A, and 4B)  Satt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roo  Presence of Reduction in Titled Soils (C6  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)  a (B8)	Secondary Indicators (2 or more resulted)  RA Water-Stained Leaves (B9) (MR.RA 1,
Velland Hydrology Indicators:  **Immerv Indicators (minimum of one requi Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B8)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Ves  Ves  Ves  Ves  Ves  Ves  Ves  Ve	ired: check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roo  Presence of Reduced (nor (C4)  Recent Iron Reducion In Tiled Solis (C6  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)  e (B8)  No Depth (Inches):	Secondary Indicators (2 or more resulted)  Water-Stained Leaves (B9) (MR.RA 1, 4A, and 48) Drainage Patterns (B10) Dry-Season Water Teble (C2) Saturation Visible on Aerist Imagery (C ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Velland Hydrology Indicators:  **Immerv Indicators (minimum of one requi  **Surface Water (A1)**  High Water Table (A2)*  **Saturation (A3)*  Water Marks (B1)*  **Sedimerd Deposits (B2)*  Drift Deposits (B3)*  Aligal Mat or Cruat (B4)*  Iron Deposits (B5)*  Surface Soil Cracks (B6)*  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  **Surface Water Present?**  Yes  Surface Water Present?*  Yes  Saturation Present?*  Yes  **Saturation Present?*  Yes  **	ired, check all that apply)  Water-Steined Leaves (B9) (except MLF 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhisospheres along Living Roo Presence of Reduced fron (C4) Recent fron Reduction in Tilled Soils (C6 Sturted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) a (B9)  No Depth (inches):  No Depth (inches):	Secondary Indicators (2 or more resulted)  RA Water-Stained Leaves (B9) (MR.RA 1,
Veiland Hydrology Indicators:  **Immerv Indicators (minimum of one requi Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Soli Cracks (B8)  Inundiation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Ves  Ves  Seturation Present?	ired: check all that apply)  Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roo  Presence of Reduced (nor (C4)  Recent Iron Reducion In Tiled Solis (C6  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)  e (B8)  No Depth (Inches):	Secondary Indicators (2 or more required)  RA
Velland Hydrology Indicators:  **Immerv Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (A2)  **Suburation (A3)  **Water Marks (B1)  **Sediment Deposits (B2)  **Drift Deposits (B3)  **Algal Mat or Crust (B4)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B7)  *	ired, check all that apply)  Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oudcland Rhizospheres along Living Roo  Presence of Reduced iron (C4)  Recent Iron Reduction in Tillad Soils (C6  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)  a (B8)  No Depth (inches):  No Depth (inches):  Wedts  Westland (B7)  Westland (B8)	Secondary Indicators (2 or more resulted)  A Water-Stained Leaves (B9) (MR.RA 1,
Velland Hydrology Indicators:  **Immerv Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (A2)  **Suburation (A3)  **Water Marks (B1)  **Sediment Deposits (B2)  **Drift Deposits (B3)  **Algal Mat or Crust (B4)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B7)  *	ired, check all that apply)  Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oudcland Rhizospheres along Living Roo  Presence of Reduced iron (C4)  Recent Iron Reduction in Tillad Soils (C6  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)  a (B8)  No Depth (inches):  No Depth (inches):  Wedts  Westland (B7)  Westland (B8)	Secondary Indicators (2 or more resulted)  A Water-Stained Leaves (B9) (MR.RA 1,
Velland Hydrology Indicators:  **Immerv Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (A2)  **Suburation (A3)  **Water Marks (B1)  **Sediment Deposits (B2)  **Drift Deposits (B3)  **Algal Mat or Crust (B4)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B7)  *	ired, check all that apply)  Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oudcland Rhizospheres along Living Roo  Presence of Reduced iron (C4)  Recent Iron Reduction in Tillad Soils (C6  Stunted or Stressed Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)  a (B8)  No Depth (inches):  No Depth (inches):  Wedts  Westland (B7)  Westland (B8)	Secondary Indicators (2 or more resulted)  A Water-Stained Leaves (B9) (MR.RA 1,
Velland Hydrology Indicators:  **Immerv Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (A2)  **Suburation (A3)  **Water Marks (B1)  **Sediment Deposits (B2)  **Drift Deposits (B3)  **Algal Mat or Crust (B4)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B5)  **Surface Soil Cracks (B6)  **Iron Deposits (B7)  *	ired: check all that apply)  Water-Steined Leaves (B9) (except MLF 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhisospheres along Living Roo  Presence of Reduced fron (C4)  Recent fron Reduced fron (C4)  Recent fron Reduced Plants (D1) (LRR A)  (B7)  Other (Explain in Remarks)  a (B8)  No  Depth (Inches):  No  Depth (inches):  Wette	Secondary Indicators (2 or more resulted)  A Water-Stained Leaves (B9) (MR.RA 1,

SOIL

Sampling Point: \_\_\_

						ntains, Valleys	-	-	21.
oject/Site:	SETW	<u> </u>	(	ChylCi	ounty:	mysulle		3-	2 P
plicant/Owner:							A Sampling P	oint	
estigatos(s):						nge:			
rdform (hillslope,	terrace, etc.):			Local	relief (concave, c	oonvex, none):		_ Slope (%)	):
region (LRR): _			Let:			_ Long:		Datum:	
Map Unit Name	):	N. 1980				NWI d	essificeton;		
climatic / hydrol	ogic conditions on I	the site typical for	this time of yes	ar? Y	36 No _	(If no, explai	in in Remarks.)		
Vegetation	, Soil, or	Hydrology	_ significantly	disturi	ped? Are "	Normal Circumstan	ices" present? Ye	10 <u>~</u> 1	No
Vegetation	Soff, or	Hydrology	_ naturally pro	blama	tic? (If ne	eded, explain any a	answers in Remar	ks.)	
HIMARY OF	FINDINGS - A	ttach site ma	o showing	8900	pling point k	ocations, trans	ects. importe	nt featur	es. et
					hand bourer				
lydrophytic Vegel		Yes	No	_	is the Sampled				
ydric Soil Preser /etland Hydrolog:		Yes	No	-	within a Wotler	nd? Yes	No		
emarks.									
	4 bove	wormal	ram	Fa	#/ A L L		1.0		
	- agricult	wel E.	ew "	w /	d, th	m + +1	14		
GETATION -	- Use scientific	c names of pl				<i>'</i>			
Circl /**	od eine:	`	Absolute	Don	inant Indicator	Dominance Test			
	ol size:	}			cies? Status	Number of Domit	nant Species ACW, or FAC;		(A)
									- /4
						Total Number of Species Across A			(8)
***************************************							_		- 1-,
				= To	al Cover	Percent of Domir That Are OBL, F/			_ (A/E
	atum (Plot size:					Prevalence Inde			-
						1	er of:	Utullinky bec	
	······································						x1:		
							x2		
							x3:		
				» To	iai Cover		x4:		
erb Stratum (Pl	ot size:	)			NT		×5		
	COTN						(A)		(B
						Ground's	Index = B/A =		
						1	getation indicato		
						Dominance			
		·				Prevalence I			
						Morphologic	al Adaptations <sup>1</sup> (P	rovide supp	orting
						deta in R	emerics or on a se	parate shee	t)
							n-Vesculer Plants		
							Hydrophytic Vege		
						'Indicators of hyd	tric soil and wetter se disturbed or pro	id hydrology blamatic	must
				= Tot	al Cover	- protein, office			
loody Vhe Strat	um (Ptot size:					1			1
						Hydrophytic Vegetation		,	
						Present?	Yes	No	
				_= Tot	al Cover	1			
Bare Ground in	Herb Stratum					1			

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Interim Version

OIL			Sampling Point:
Profile Descrip	tion: (Describe to the de	pth needed to document the indicator or confirm	the absence of indicators.)
Depth	Matrix	Redox Features	
(inches)	Color (moist) %	Color (moist) % Type Loc	Texture Remarks
12 /	042/1		
1/-	7.54/2.5/1	- Comme med debut	
-			
			10-14-14-14-14-14-14-14-14-14-14-14-14-14-
-			
			21
Type: C=Conc	centration, D=Depletion, RN	I≃Reduced Matrix, CS≃Covered or Coated Sand Gri I LRRs, unless otherwise noted.)	ains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Solls <sup>3</sup> :
Histosol (A		Sandy Redox (S5)	2 cm Muck (A10)
Histic Epip		Stripped Matrix (S6)	Red Perent Material (TF2)
Black Histi		Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen :		Loamy Gleyed Matrix (F2)	
	lelow Dark Surface (A11)	Depleted Matrix (F3)	But the state of t
	Surface (A12)	Redox Dark Surface (F6)	indicators of hydrophytic vegetation and
	ky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present, unless disturbed or problematic.
	yed Matrix (84)	Redox Depressions (F8)	изнева овилово от ртометлерс.
Restrictive La	yer (if present):		
Type:		- Table	
Depth (inche	es):		Hydric Soil Present? Yes No
YDROLOG	Υ		
	Y plogy Indicators:		
Wettend Hydro		ed, check all theil apply)	Secondary indicators (2 or more required)
Wetland Hydro Primary Indicat	ology Indicators: ors (minimum of one requir		
Wetland Hydro Primery Indicat Surface W	ology Indicators: ors (minimum of one requir ater (A1)	Water-Steined Leaves (89) (except MLR	RA Water-Stained Leaves (89) (MLRA 1,
Wetland Hydro Primary Indicat Surface W High Water	plogy Indicators: ors (minimum of one require ster (A1) r Table (A2)	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 4B)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
Wetland Hydro Primary Indicat Surface W. High Wate Saturation	plogy Indicators: ors (minimum of one requir ster (A1) r Table (A2) (A3)	Water-Stained Leaves (89) (except MLR 1, 2, 4A, end 4B) Salt Crust (B11)	RA Water-Steined Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patiens (810)
Primary Indicat Surface W High Wate Saturation Water Mark	ology Indicators: ors (minimum of one requin ster (A1) r Table (A2) (A3) ks (B1)	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, end 4B) Salt Crust (B11) Aquatic invertebrates (B13)	RA Water-Steined Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Sesson Water Table (C2)
Wetland Hydro Primary Indicat Surface W High Water Saturation Water Man Sediment I	ology Indicatora: ora (minimum of one requin ater (A1) 1 Table (A2) (A3) ka (B1) Deposits (B2)	Water-Steined Leaves (89) (except MLR 1, 2, 4A, and 4B) Salt Crust (811) Aquatic invertebrates (813) Hydrogen Suffide Odor (C1)	PA Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
Wetland Hydro Primery Indicat Surface W. High Wate Seturation Water Mart Sediment I Drift Depos	ology Indicators: ons (minimum of one requinater (A1) Table (A2) (A3) (A3) Deposits (B2) wits (B3)	Water-Steined Leaves (89) (except MLR 1, 2, 4A, and 4B) Self Crust (811) Aquetic invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo	A Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Sesson Water Table (C2) Saturation Visible on Aerial Imagery (Cas (C3) Geomorphic Position (D2)
Wetland Hydro Primery Indicat Surface W High Water Saturation Water Mar Sediment I Drift Depor	ology indicators: ors (minimum of one requin ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	Water-Steined Leaves (89) (except MLR 1, 2, 4A, and 4B) Salt Crust (811) Aquatic invertebrates (813) Hydrogen Sulfae Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4)	A Water-Steined Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitant (D3)
Wetland Hydro Primary Indicate Surface W. High Water Saturation Water Mari Sediment I Drift Dapor Algel Mat c Iron Depos	plogy indicators:  ors (minimum of one requin  ater (A1)  r Table (A2)  (A3)  ks (B1)  Deposits (B2)  sits (B3)  or Crust (B4)  sits (B5)	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 4B) Self Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduction in Tilled Soils (C6)	AA, and 48) Drainage Patterns (810) Dry-Seeson Wetter Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5)
Wetland Hydro Primary Indicate Surface W. High Water Saturation Water Mar Sediment I Sediment I Aigal Mat o Iron Depos Surface So	ology indicators:  ors (minimum of one requinater (A1)  Table (A2) (A3)  ks (B1)  Deposits (B2)  sits (B3)  or Crust (B4)  sit (B5)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solis (C6 Sturted or Stressed Plants (D1) (LRR A)	RA Water-Stained Leaves (89) (MLRA 1,
Primary Indicase Surface W. High Water Saturation Water Mar Sediment I Arigel Mat c India Mater Surface Sc Invadation	ology indicators: ors (minimum of one requin ster (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B3) it Cracks (B6) Visible on Aeriel Imagery (	Water-Steined Leaves (89) (except MLR 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Sturtled or Stressed Plants (71) (LRR A) Other (Explain in Remarks)	AA, and 48) Drainage Patterns (810) Dry-Seeson Wetter Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5)
Wetland Hydro Primary Indicas Surface W. High Water Saturation Water Mar Sediment I Depos Aigel Mat c Iron Depos Surface Sc Inundiation	ology indicators:  ors (minimum of one requinater (A1)  Table (A2) (A3)  ks (B1)  Deposits (B2)  sits (B3)  or Crust (B4)  sit (B5)	Water-Steined Leaves (89) (except MLR 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Sturtled or Stressed Plants (71) (LRR A) Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1,
Wetland Hydro Primary Indicas Surface W. High Water Saturation Water Mar Sediment I Depos Aigel Mat c Iron Depos Surface Sc Inundiation	ology Indicators: ors (minimum of one requin ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) of Crust (B6) Visible on Aeriel Imagery ( legetated Concave Surface	Water-Steined Leaves (89) (except MLR 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Sturtled or Stressed Plants (71) (LRR A) Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1,
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US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Interim Version

ect/Site:	itus_	Cit	y/County: Ma	vysulle	Sampling Date: 3-21
licant/Owner:				State: WA	Sampling Point: >P
stigetor(s):	d Sew	<u>all</u> s.	ction, Township, Ras	1ge:	
dform (hillslope, terre					Slope (%):
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Map Unit Name:				NWI classifica	
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-	oil, or Hydrology			eded, explain any answer	
	,			* *	
MMARY OF FINI	DINGS - Attach si	te map showing s	ampling point l	ocations, transects,	, important features, et
drophytic Vegetation	Present? Yes				
dric Soil Present?	Yes		is the Sampled		No
stland Hydrology Pres		No	within a Wedan	IG? 195	~
merks. a	bove worn	/	= 11		***************************************
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JETATION - Us	e scientific names				
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oling/Shrub Stratum	(Plot size:			Prevalence Index worl	
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rb Stratum (Plot size				UPL species	x5=
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				Hydrophytic Vegetatio	
	<u> </u>			Dominance Test is	
			<del></del>	Prevalence Index is	
					ptetions' (Provide supporting
				data in Remerks	s or on a separate sheet)
				Wetland Non-Vesc	
					phytic Vegetation1 (Explain)
· <del></del>				indicators of hydric soil be present, unless dista	l and wetland hydrology must
***************************************			Total Cover	Po bioseiir Alless Gat	INVESTIGATION OF THE PROPERTY
ody Vine Stratum (	Plot size:	<u> </u>		1	
				Hydrophytic Vecetation	
				Present? Yes	s No
Bare Ground in Herb		72.	Total Cover		

Depth Matrix (Inches) Color (moist) %	Redox Features Color (moist) % Type Loc	Texture Remarks
12 1074312	- E E E	3-5
16 101k3/2		
		AND THE PROPERTY OF THE PROPER
Type: C=Concentration, D=Depletion, RM lydric Soll Indicators: (Applicable to all	=Reduced Matrix, CS=Covered or Coated Sand Gri	ains <sup>2</sup> Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Soils <sup>2</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
_ Sinck Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	30. at
Thick Dark Surface (A12)	Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and wetland hydrology must be present,
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7) Redox Depressions (F8)	watand nydrology must de present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4) lestrictive Layer (If present):	Traday Debieseignis (Lo)	anness seconded of processings.
Туре:		
	Surding-	Hydric Soli Present? Yes No No
Depth (inches):		11/42/2 4041 11232127 1102
YDROLOGY		
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Vetland Hydrology Indicators:	nd, check ell that apply)	
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Veitland Hydrology Indicators:  httmerv Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soit Cracks (B6) Inundation Visable on Aerial Imagery (E Sparsely Vegetated Concave Surface Feld Observations: Surface Water Present? Water Table Present? Ves Saturation Present? Yes	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suifide Odor (C1) Ouddzed Rhizospheras along Living Roo Presence of Reduced Iron (C4) Racent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (inches): No Dopth (inches): Wette	4A, and 4B)  Drainage Patterns (B10)  Dry-Seeson Water Table (C2)  Saturation Visible on Aerial Imagery (Cas)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No

SOIL

Sampling Point:

# WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: Sewall Section, Township, Range: investigatoria): Local relief (concave, convex, none): \_\_\_ Subregion (LRR) MWt dessification Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ No \_\_\_\_\_ (if no, explain in Remarks.) Are Vegetation \_\_\_\_\_ Soit \_\_\_\_ or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes 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? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? above vormal raintall - agricultual Field which they + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stretum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: \_ Total Number of Dominant Species Across All Strata: Percent of Dominant Species # Total Cover That Are OBL, FACW, or FAC: Seoling/Shrub Stretum (Plot size: Prevalence index worksheet: Total % Cover of: FAC species \_\_\_\_ FACU species = Total Cover Herb Stratum (Plot size: UPL species \_\_\_\_ Corn Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.0° .... Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants Problematic Hydrophytic Vegetation (Explain) indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. \_= Total Cover Woody Vine Stratum (Plot size: Vegetation Present? \_ \* Total Cover % Bare Ground in Herb Stratum

Depth	Matrix		Redox Features	7	ure Remarks
(inches)	Color (moist)		Color (moist) % Type Lo		*
9	10 ynz	<u> </u>		20007	<u> </u>
16	INYES	/3	,		
	**************************************				
Type: C=Cc	oncentration. D≈D	epletion, RM=Re	duced Matrix, CS=Covered or Costed Se	nd Grains	<sup>2</sup> Location: Pt=Pore Lining, M=Matrix.
			ts, unless otherwise noted.)	In	dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Redox (S5)		2 cm Muck (A10)
	oipadon (A2)		Stripped Matrix (S8)		Red Parent Material (TF2)
Black His			Loamy Mucky Mineral (F1) (except MLF	RA 1)	Other (Explain in Remarks)
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		
	Below Dark Surf		Depleted Metrix (F3)		
Thick Da	urk Surface (A12)	-	Redox Dark Surface (F6)	316	ndicators of hydrophytic vegetation and
Sandy M	lucky Mineral (81)	)	Depleted Dark Surface (F7)		watiand hydrology must be present.
Sandy G	Heyed Matrix (S4)		Redox Depressions (F8)		unless disturbed or problematic.
testrictive i	Layer (if present)	:			
Type:			•	1	_
				Hydri	ic Soil Present? Yes No
Depth (inc	ches):				
Remarks.			No Indi	ul.	5
Remarks.  YDROLO	GY		No India	ed.	\$
YDROLO	GY drology indicator			ul.	
YOROLO Wetland Hyr	GY drology Indicator astors (minimum o		neck all that supply).		Secondary Indicators (2 or more required)
YDROLO  Wetland Hy  Primery India  Surface	GY drology Indicator astors (minimum o Water (A1)		neck all that sophy)		Secondary Indicators (2 or more required  Water-Stained Leaves (89) (MLRA 1,
VDROLO Wetland Hyr Primery India Surface High Wa	GY drology Indicator palors (minimum o Water (A1) ster Table (A2)		neck all thet apply)		Secondary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
YDROLO Metiand Hyr Primery India Surface High Wa Saturatic	GY drology Indicator sators (minimum s Water (A1) ater Table (A2) on (A3)		neck all that apply)  Water-Stained Leaves (89) (excep Salt Crust (811)		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10)
VDROLO Westand Hyr Primery India Surface High Wa Saturatk Water M	GY drology indicator astors (minimum of Water (A1) ster (A2) on (A3) larks (B1)		peck all that suply)  Water-Stained Leaves (89) (excep  1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)		Secondary Indicators (2 or more required)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterns (810)  Dry-Seeson Water Table (C2)
YDROLO Wetland Hyd Primery India Surface High Wa Saturatk Water M Sedimer	GY drology indicator salors (minimum g Water (A1) ster Table (A2) on (A3) nt (B8)		yeck all that sophy).  Water-Steined Leaves (89) (excep 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)	r MLRA	Secondary Indicators (2 or more required  Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patierns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
YDROLO Wetant Hyv Primery trafic Surface High Wat Seturate Seturate Drift Des	GY drology indicator seors (minimum s Water (A1) ster Table (A2) on (A3) sterks (B1) nd Deposits (B2) posits (B3)		neck all that apply)  Water-Stathed Leaves (89) (excep 1, 2, 4A, and 4B)  Salt Crust (811)  Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living	r MLRA	Secondary Indicators (2 or more required: Water-Steined Leaves (89) (MR.RA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)
YDROLO Wetant Hyv Primery trafic Surface High Wat Seturate Seturate Drift Des	GY drology indicator salors (minimum g Water (A1) ster Table (A2) on (A3) nt (B8)		yeck all that sophy).  Water-Steined Leaves (89) (excep 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)	r MLRA	Secondary Indicators (2 or more required Wister-States Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shaflow Aquitate (D3)
YDROLO Westand Hyr Primery Insis Surface High Wa Saturant Wester M Sedimer Drift Des	GY drology indicatos astors (minimum s Water (A1) water (A1) ster Table (A2) on (A3) larks (B1) nl Deposits (B2) posits (B3) at or Crust (B4)		neck all that apply)  Water-Stathed Leaves (89) (excep 1, 2, 4A, and 4B)  Salt Crust (811)  Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living	t MLRA	Secondary Indicators (2 or more required: Water-Steined Leaves (89) (MR.RA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)
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VDROLO Wetland Hyr Primery Insik Surface High Was Seturalk Weter M Sedimer Ont Des	GY drology indicator zators (minimum o Water (A1) ster Table (A2) on (A3) sarks (B1) nl Deposits (B3) st or Crust (B4) posits (B3)	done required; cl	water-Stained Leaves (89) (excep 1, 2, 4A, errd 48) Saft Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhixospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soli	g Roots (C3)	Secondary Indicators (2 or more required)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Pation (D2) Shaflow Aquitard (D3) FAC-Neutral Tast (D5)
YDROLO Wetand Hyv Primery Indik Surface High Wa Saturant Weter M Sedimer Onth Dep Algal Me Iron Dep Surface Inundati	GY drology indicator zators (minimum s Water (A1) ster Table (A2) on (A3) nl Deposits (B2) posits (B3) st or Crust (B4) Soil Cracks (B6)	d one required, of	neck all that sophy).  Water-Stained Leaves (89) (exception 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhixospheras along Living  Presence of Reduced Iron (C4)  Raccent Iron Reduction in Tilled Soil  Stunied or Stressed Plants (D1) (L1)	g Roots (C3)	Secondary Indicators (2 or more required:  Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patierns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shaflow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
POROLO Wedand Hy Primery Instit Surface High We Seturate Weder M Sedmer Sedmer Junio	GY drology indicator astors (minimum o Water (A1) Water (A1) ster Table (A2) on (A3) larks (B1) nl Deposits (B2) posits (B3) st or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Asni <sub>Y</sub> Vegetated Conco	d one required, of	neck all that sophy).  Water-Stained Leaves (89) (exception 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhixospheras along Living  Presence of Reduced Iron (C4)  Raccent Iron Reduction in Tilled Soil  Stunied or Stressed Plants (D1) (L1)	g Roots (C3)	Secondary Indicators (2 or more required:  Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patierns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shaflow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Wetland Hy Primery trisk Surface High Wa Sedimer Drift Des Agel Ma Iron Des Surface Inundati Sparse) Field Obser	GY drology indicator zators (minimum o water (A1) ster Table (A2) on (A3) sterks (B1) nl Deposits (B3) storks (B3) storks (B5) Soil Cracks (B5) Soil Cracks (B6) y Vegetated Concivetions:	d one required, of al Imagery (87) ave Surface (88)	water-Stained Leaves (89) (excep 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduction in Tilled Soil Stunted or Stressed Plants (D1) (L1 Other (Explain in Remarks)	g Roots (C3)	Secondary Indicators (2 or more required:  Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patierns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shaflow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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VDROLO Westand Hys Primery Insik Surface High Water M Sedimer Drift Deg Algel Me Iron Deg Inundati Surface Inundati Sparseh Fleid Obser Surface Water M Surface Vestand Vestan	GY drology Indicator salors (minimum 9 Water (A1) ster Table (A2) on (A3) sarks (B1) nl Deposits (B2) posits (B3) at or Crust (B4) posits (B6) Soil Cracks (B6) on Visible on Aeric y Vegetated Conco vestions: er Present?	al Imagery (87) ave Surface (88) YesNo YesNo	Deck all that apply)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphens along Living Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soil  Stunied or Stressed Plents (D1) (Li  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	g Roots (C3) is (C6)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MR.RA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IVDROLO Wetland Hy Primery trisk Surface High We Seturatik Water M Sedimer Onli Des Surface Inundati Sparse Sparse Field Obser Surface Wet Water Table Saturation	GY drology indicator zators (minimum o water (A1) ster Table (A2) on (A3) starks (B1) nl Deposits (B3) at or Crust (B4) posits (B5) Soil Cracks (B5) Soil Cracks (B6) on Visible on Aeni y Vegetated Concustions: er Present?	al Imagery (87) ave Surface (88) YesNo YesNo	Deck all that apply)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphens along Living Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soil  Stunied or Stressed Plents (D1) (Li  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	g Roots (C3) is (C6)	Secondary Indicators (2 or more required:  Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patierns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shaflow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
VDROLO Westand Hy Primery Instit Surface High Wa Sedimer Only Deg Algal Me Iron Deg Algal Me Iron Deg Algal Me Iron Deg Surface Inundati Sparsely Field Obser Surface Water Table Saturation pa	GY drology indicator sators (minimum g Water (A1) ster Table (A2) on (A3) ster Table (A2) on (A3) sterks (B1) nl Deposits (B2) posits (B3) st or Crust (B4) posits (B6) soli Cracks (B6) on Visible on Asri- y Vegetated Conc	at Imagery (87) ave Surface (88) YesNo YesNo	Deck all that apply)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphens along Living Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled Soil  Stunied or Stressed Plents (D1) (Li  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	g Roots (C3) is (C6) RR A)	Secondary Indicators (2 or more required Water-States Leaves (89) (MR.RA 1 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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VDROLO Westand Hy Primery Instit Surface High Wa Sedimer Only Deg Algal Me Iron Deg Algal Me Iron Deg Algal Me Iron Deg Surface Inundati Sparsely Field Obser Surface Water Table Saturation pa	GY drology indicator sators (minimum g Water (A1) ster Table (A2) on (A3) ster Table (A2) on (A3) sterks (B1) nl Deposits (B2) posits (B3) st or Crust (B4) posits (B6) soli Cracks (B6) on Visible on Asri- y Vegetated Conc	al Imagery (87) al Imagery (87) ave Surface (88) YesNo YesNo am gauge, monito	Water-Statned Leaves (89) (excep 1, 2, 4A, end 4B) Salt Crust (811) Aquetic Invertebrates (813) Hydrogen Suffide Odor (C1) Oxidized Rhizosphens along Living Presence of Reduced Iron (C4) Racent Iron Reduction in Titled Soil Stunied or Stressed Plents (D1) (Li Other (Explain in Remarks)  Depth (Inches): Depth (Inches):	g Roots (C3) is (C6) RR A) Wetland Hyc	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MR.RA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLO Wedand Hyr Primery India Surface High Wa Saturative Weter M Sedimer Onth Des Alignia Iron Des Surface Inundati Sparsely Field Obsers Surface Wete Weter Table Saturation P Includes cas Describe Re	GY drology indicator sators (minimum g Water (A1) ster Table (A2) on (A3) ster Table (A2) on (A3) sterks (B1) nl Deposits (B2) posits (B3) st or Crust (B4) posits (B6) soli Cracks (B6) on Visible on Asri- y Vegetated Conc	al Imagery (87) al Imagery (87) ave Surface (88) YesNo YesNo am gauge, monito	Peck all that apply)  Water-Stained Leaves (89) (except 1, 2, 4A, end 4B)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphens along Living Presence of Reduced Iron (C4)  Racent Iron Reduction in Tiled Soil  Stunied or Stressed Plents (D1) (Li  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	g Roots (C3) is (C6) RR A) Wetland Hyc	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MR.RA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

SOIL

	ETLAND DETE						-	
ject/Site:	Sith	△		City/County: _	Ma	rysulle	Sampling Dat	<u>اے ک</u>
icant/Owner: _						State: W	A Sampling Poi	# DP7
stigator(s):	Za s	<u>ie wal</u>	<u> </u>	Section, Town	ship, Ram	ye:		
lform (hillslope	, terrace, etc ):			Local relief (c	oncava, co	onvex, none):		Slope (%):
egion (LRR): _			Lat:			Long:	a	atum:
Map Unit Name	o:					NWI cles	sification:	
climatic / hydro	logic conditions on t	the site typical fo	or this time of ye	ar? Yes	No -	(If no, explain	in Remarks.)	
	Sofi or				Are N	ionnal Circumstanc	es present? Yes	/ No
	Soil or					ided, explain any an		
						•		
MMAKT OF	FINDINGS - A	Mach site in	nap snowing	sampling	point io	cations, transe	cts, important	reatures, et
drophytic Vege	station Present?	Yes	No V		Sampled A	<b>4</b>		A STATE OF THE STA
rdric Sail Preser	nt?	Yes			s Wetland		No 1	
etland Hydrolog	y Present?	Yes	No	Within	P PROCESSIO			
emarks.	above.	Necos	1 rain	Fall				
	- agricult		المرامل	w/d,	hah .	u + ti	le	
	- Use scientific				,	7		,,,,
				Dominant In	dicator	Dominance Test	vorksheet:	
	lot size:	)	% Cover	Species?	datus	Number of Domina		
		****				That Are OBL, FAC	XW, or FAC:	(A)
						Total Number of Di		
						Species Across Alf	Strata:	(B)
						Percent of Domina		
olina/Shrub Str	atum (Plot size:			_ = Total Cove	·	That Are OBL, FAC	CW, or FAC:	(A/E
						Prevalence Index	worksheet:	
						Total % Cover	of: Mu	tiply by:
W						OBL species	,x1≠_	
						FACW species	x2=_	
		· · · · · · · · · · · · · · · · · · ·					x3¤_	
unin Oteratuma (Di	fat aiva-		***************************************	_ = Total Cove	·	FACU species		
C	fot size:		100		14		x5*_	
						Column Totals:	(A) _	(6)
						Prevalence In	ndex = B/A =	
					P		tation indicators:	
						Dominance Te	at is >50%	
						Prevalence Inc		
						Morphological	Adaptations (Prov	ide supporting
						Wetland Non-\	narios or on a separ	are siner)
							vascular mants ydrophytic Vegetali	on (Evoluio)
·							yorophyur, vegetan c soli and watiand l	
·					[	be present, unless	disturbed or proble	matic.
nortu Mina Strat	um (Plot size:	i		_= Total Cover	ŀ			
	TIUI (LIOI 2059:				- 1	Hydrophytic		1
	<u>-</u>	<del></del>		· <del></del>		Vegetation		A CONTRACTOR OF THE PARTY OF TH
				* Total Cover		Present?	Yes No	
					1			
Bare Ground in	Herb Stratum				1			

9 1010-173		Texture Remarks
	For For Fort	Sela Leo
	Technology	<del></del>
	-	
ype: C=Concentration, D=Depletion, RI ydric Solf Indicators: (Applicable to a		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)
Slock Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4) Depleted Below Derk Surface (A11)	Loamy Gleyed Metrix (F2)  Depleted Matrix (F3)	
Depleted Selow Denk Surface (A11) Thick Dank Surface (A12)	Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wattand hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
estrictive Layer (if present):		1
Type:		
Depth (inches):		Hydric Soil Present? Yes No
emarks:		1
DROLOGY		
fetland Hydrology Indicators:		
fetland Hydrology Indicatora: rimary Indicators (minimum of one requi		Secondary indicators (2 or more resultation
retiand Hydrology Indicatora: rimary Indicators (minimum of one requi Surface Water (A1)	Water-Stained Leaves (89) (except MLI	RA Water-Steined Leaves (89) (MLRA 1,
retland Hydrology Indicatora: rimery Indicators (minimum of one nequi Surface Water (A1) _ High Water Table (A2)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 48)	RAWater-Stained Leaves (89) (MLRA 1, 1 4A, and 4B)
retiand Hydrology Indicators: rimary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except Mil.1 1, 2, 4A, and 4B) Salt Crust (B11)	RA Water-Steined Leaves (89) (MLRA 1, 2 4A, and 4B) Drainage Patiens (810)
retiand Hydrology Indicators: rimery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B1?) Aquatic invertebrates (B13)	RA Water-Steined Leaves (89) (MLRA 1, 2 4A, and 4B) Drainage Patierns (810) Dry-Seeson Water Table (C2)
retiand Hydrology Indicators: rimery indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except Mil.1 1, 2, 4A, and 4B) Salt Crust (B1?) Aquatic invertebrates (B13) Hydrogen Suffide Odor (C1)	RA Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
retiand Hydrology Indicators: rimery indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Saft Crust (B11) Aquetic invertebrates (B13) Hydrogen Suitide Odor (C1) Oxidized Rhizospheres along Living Roc	RA Water-Stained Leaves (89) (MLRA 1, 2 4A, and 4B)  Drainage Patterns (810)  Dry-Seeson Water Table (C2)  Saturation Visible on Aerial Imagery (C ots (C3)  Geomorphic Position (D2)
retiand Hydrology Indicators: rimery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidizad Rhitospheres along Living Roc Presence of Reduced Iron (C4)	RA Water-Steined Leaves (89) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Gos (C3) Geomorphic Position (D2) Shallow Aquitant (D3)
retiand Hydrology Indicatora: rimery Indicators (minimum of one requir 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)	Water-Stained Leaves (B9) (except ML1 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidizad Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C5)	RA Water-Stained Leaves (B9) (MLRA 1, 2 44, and 48) Drainage Patterns (B10) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C ots (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5)
retiand Hydrology Indicatora: rimery Indicatora (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B1!) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Osadizad Rhizospheras along Living Roc Presence of Reduction in Tilled Soils (C6 Stunied or Stressed Plents (D1) (LRR A	RA Water-Stained Leaves (B9) (MLRA 1, 2 44, and 48) Drainage Patterns (B10) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C ots (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5)
retiand Hydrology Indicatora: rimery Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B11) Aquetic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Stunied or Stressed Plants (D1) (LRR A	RA Water-Stained Leaves (89) (MLRA 1, 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C cos (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
retiand Hydrology Indicatora: rimery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Crosks (B6) Involation Visable on Aerial Imagery Sparsely Vegetated Coricave Surface	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B1?) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oaddzad Rhizospheras along Living Roc Presence of Reduction in Titled Soils (C6 Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1, 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C cos (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
retiand Hydrology Indicators: rimery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sedment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soli Cracks (B6) Inundation Visible on Aerial Imagery ( Sparsely Vegetated Concave Surface leid Observations:	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B1?) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oaddzad Rhizospheras along Living Roc Presence of Reduction in Titled Soils (C6 Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1, 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C cos (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Fetland Hydrology Indicatora: Intern Indicatora (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marka (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Intundation Viable on Aerial Imagery (Sparsey) Vegetated Concave Surface leid Observations: Inface Water Present? Yes	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B1!) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidizad Rhizospheras along Living Roc Presence of Reduction in Tilled Soils (C6 Stunied or Stressed Plents (D1) (LRR A Other (Exptain in Remarks)  No Depth (Inohes):	RA Water-Stained Leaves (89) (MLRA 1, 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C cos (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
retland Hydrology Indicatora:  rimary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery ( Sparsely Vegetated Concave Surface Idid Observations: urface Water Table Present? Veter Table Present?	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B1?) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduction in Tilled Soils (C6 Stunied or Stressed Plents (D1) (LRR A Other (Explain in Remarks)  No Depth (isothes): No	RA Water-Stained Leaves (89) (MLRA 1, 1 4A, and 48) Drainege Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial imagery (C cos (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Vetland Hydrology Indicators:  Immery Indicators (minimum of one requi 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 Soli Cracks (B6) Invindation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Idel Observations: Indica Water Present? Veter Table Present? Veter Indicated Capitary Vindey	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B1?) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduction in Tilled Soils (C6 Stunied or Stressed Plents (D1) (LRR A Other (Explain in Remarks)  No Depth (isothes): No	RA Water-Stained Leaves (89) (MLRA 1, 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C costs (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Welland Hydrology Indicators: Immery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Invudation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Ield Observations: Surface Water Present? Ves Vester Table Present? Ves Ves Vester Table Present? Ves Vester Table Vester Ves	Water-Stained Leaves (BS) (except MLI 1, 2, 4A, and 4B) Salt Crust (B1!) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oadizad Rhizospheras along Living Roc Presence of Reduction in Tilled Soils (C6 Stunied or Stressed Plents (D1) (LRR A Other (Exptain in Remarks)  No Depth (Inches): No Depth (Inches): Wett	RA Water-Stained Leaves (89) (MLRA 1, 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C costs (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery i Sparsely Vegetated Concave Surface Ield Observations: Iurface Water Present? Veter Table Present? Veter Table Present? Yes Industed Confider Vindeo Veter Table Present? Veter Table Present? Veter Table Present?	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B)  Salt Crust (B1!)  Aquatic invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidizad Rhizospheras along Living Roc Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6  Stunted or Stressed Plants (D1) (LRR A  Dother (Explain in Remarks)  No Depth (inches):  No Depth (inches): Wett  monitoring wett, serial photos, previous inspections),	RA Water-Stained Leaves (B9) (MLRA 1, 1 4A, and 4B) Drainage Patterns (B10) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (C cots (C3) Geomorphic Position (D2) Shallow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
Welland Hydrology Indicators: Immery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Invudation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Ield Observations: Surface Water Present? Ves Vester Table Present? Ves Ves Vester Table Present? Ves Vester Table Vester Ves	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B)  Salt Crust (B1!)  Aquatic invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidizad Rhizospheras along Living Roc Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6  Stunted or Stressed Plants (D1) (LRR A  Dother (Explain in Remarks)  No Depth (inches):  No Depth (inches): Wett  monitoring wett, serial photos, previous inspections),	RA Water-Stained Leaves (89) (MLRA 1, 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C costs (C3) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

oject/Site: Sctt	<u> </u>	City/Co	unty: Mar	450,1/4	_ Sampling Date: 3-	21
plicant/Owner:		·		State: WA	Sampling Point	) P:
estigator(s): Zd :	<u>Sewall</u>	Section	n, Township, Range			
idform (killslope, terrace, etc.):	-	Local	elief (concave, con	vex, none):	Slope (%)	r
oregion (LRR)						
Map Unit Name:					ication:	
climetic / hydrologic conditions on		me of year? Ye	No /			
Vegetation, Soil	er Hudenlanu - siar	nifferentiu eliaberh	ed? Are 'No		present? Yes	de.
Vegetation Soft				ed, explain any answ		
					,	
IMMARY OF FINDINGS -	Attach site map sh	owing sam	pling point loc	ations, transect	s, importent featuri	16, 91
lydrophytic Vegetation Present?	Yes No		is the Sempled Ar		_	
ydric Sall Present?	Yes No		n the sampled Ar within a Wetland?		No /	
lettand Hydrology Present?	Yes No_					
emarks. above	Normal 1	am Fa	//	_		
	mal Field	1 "	al Hahm	, + tild	د	
		····	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/	·····	
GETATION - Use scientif		Usolute Domi	naci Indicata 1 A	ominance Tast wor	inhant-	,
ee Strekum (Plot size:		6 Cover Spec	nad Olean	tumber of Dominant 8		
			Y		or FAC:	. (A)
			i	otal Number of Domi	nant	
<del></del>	************			pecies Across All Str		(B)
			,	ercent of Dominant S	ineries.	
pling/Shrub Stratum (Plot size:	, -	= Tota	Cover T	hat Are OBL, FACW,	or FAC:	(A/E
ANTONIO SUMONI (FICE SIZE.			<u> </u>	revalence Index wo	rksheet:	
	-				Multiply by:	
			( .		x1=	
					x2 =	
				AC species	x3¤	_
_		- Tot	d Cover F	ACU species	x4=	-
erb Stratum (Plot size:		w	VII U	PL species	×5*	
			<u> </u>	alumn Totals:	(A)	(8
· · · · · · · · · · · · · · · · · · ·				Prevalence Inde	x = B/A =	
			——	ydrophytic Vegetat		
				_ Dominance Test is		
**************************************				_ Prevalence Index		
				Morphological Ad	aptations <sup>1</sup> (Provide suppo	eting
					ks or on a separate sheet	)
			-	Wetland Non-Vas		
			-		ophytic Vegetation (Expl	
·				ncicinors of nyoric so e present, unless dis	oll and wetland hydrology furbed or problematic.	tainag
marks Mara Chamber Miles -1-		- Tota				
oody Vine Stratum (Plot size:	)		1	hidaada.d-		,
			V	lydrophytic egetation	,	/
		≈ Tota	P		85 No	
	-		- CONTE			
Bare Ground in Herb Stratum			- 1			

Depth Matrix (Inches) Color (moist) %	Color (moist) % Type Loc'	Texture Remarks
13 10/h 2/Z		
16 104R 4/6		my lon
Day On Company of the De Carletina City	Reduced Matrix, CS=Covered or Coated Send Gr	rains. <sup>2</sup> Location: Pt=Pore Lining, M=Matrix,
ydric Soli indicators: (Applicable to all		Indicators for Problematic Hydric Soils
	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
	Loamy Gleyed Metrix (F2)	
Depleted Selow Dark Surface (A11) Thick Dark Surface (A12)	Depleted Metrix (F3) Redox Derk Surface (F6)	*Indicators of hydrophytic vegetation and
1 mck Dark Surrace (A12) Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F6)	unless disturbed or problematic.
estrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
	No indicates	
/DROLOGY retland Hydrology Indicators:		
FDROLOGY  Jetiand Hydrology Indicators:  rimary indicators (minimum of one require)	d check all that apply)	Secondary Indicators (2 or more require
FDROLOGY  Petiand Hydrology Indicators:  rimery indicators (minimum of one require)  Surface Water (A1)	d check all that apply)  Water-Stained Leaves (89) (except MLI	RA Water-Stained Leaves (89) (MLRA
FDROŁOGY  retiand Hydrology Indicatora:  rimery indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)	d: check all that apply)	RA Water-Stained Leaves (89) (MILRA 4A, and 4B)
FDROLOGY  retland Hydrology Indicatora:  rimery indicators (milinum of one requires  Surface Water (A1)  High Water Table (A2)  Seturation (A3)	d check all that apply)  Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4E) Sall Crust (B11)	RAWater-Stained Leaves (89) (MLRA 4A, and 4B) Drainage Patterns (810)
/DROLOGY  fetiand Hydrology Indicators: rimery indicators (minimum of one requires Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	d. check ell that apply)  Water-Steined Leaves (89) (except MLI 1, 2, 4A, and 4B) Sall Crust (B11) Aquetic Invertebrates (B13)	RA Water-Stained Leaves (89) (MR.PA 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2)
FDROLOGY  Additional Hydrology Indicators: Finany Indicators (minimum of one required Stufface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	d. check all that acoty)	RA Water-Steined Leaves (B9) (MLPA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagen
FOROLOGY  retiand Hydrology Indicatora:  rimery indicators (minimum of one require)  Sufface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	d: check all that apply)  Water-Steined Leaves (89) (except MLI 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffice Odor (C1)  Oxidized Rhizospheres along Living Roc	RA Water-Stained Leavee (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagen ots (C3) Geomorphic Position (D2)
rDROLOGY  retiand Hydrology Indicatora: rimer (selicitors (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	d. check all that apply)  Water-Steined Leaves (89) (except MLI 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)	RA Water-Stated Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Vester Table (C2) Saturation Visible on Aerial Imagen ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
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/DROL.OGY  retaind Hydrology Indicators: rimery indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sedimeni Deposits (B2)  Drift Deposits (B3)  Agai Mat of Crust (B4)  Iron Deposits (B5)  Surface Soil Crecks (B6)  Invandation Visible on Aerial Imagery (B  Sparsely Vigetated Concave Surface (I	d. check all that apply)  Water-Steined Leaves (B9) (except MLI 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C5 Stunied or Stressed Plants (D1) (LRR A 7) Other (Explain in Remarks)	RA Water-Steined Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagen ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
FDROLOGY  rimary indicators: rimary indicators: rimary indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Net or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Viable on Aerial Imagery (B  Sparsely Vegetated Concave Surface (Ield Observations:	d. check all that apoly)  Water-Steined Leaves (89) (except MLI 1, 2, 4A, and 4B)  Sell Crust (811)  Aquestic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Solis (C6  Stunied or Stressed Plants (D1) (LRR A  Other (Explain in Remarks)	RA Water-Steined Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagen ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
FOROLOGY  retiand Hydrology Indicators:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Soil Crecks (B6)  Inundation Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (Ield Observations:  urface Water Present?	d. check all that apoly)  Water-Steined Leaves (89) (except MELT 1, 2, 4A, and 4E)  Salt Crust (B11)  Aquasic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Recent from Reduction in Tilled Soils (C6  Sturiled or Stressed Pfants (D1) (LRR A Other (Explain in Remarks)  B8)	RA Water-Steined Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagen ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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FOROLOGY  retiand Hydrology Indicatora:  rimery indicators (minimum of one requires  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Soil Crecks (B6)  Inundation Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (I  isld Observations:  urface Water Present?  Ves  sturation Present?  Yes  advarion Present?  Yes  Induces water free.	d. check all that apply)  Water-Steined Leaves (B9) (except MLI 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living Rod  Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Soils (C5  Sturried or Stressed Pfants (D1) (LRR A  7)  Other (Explain in Remarks)  B8)	RA Water-Steined Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagen yts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
FDROLOGY  Vettand Hydrology Indicators:  rimary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mato Crust (B4)  Iron Deposits (B5)  Surface Soil Crecks (B6)  Insurfaction Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (I  laid Observations:  Furface Water Present? Yes  Vester Table Present? Yes  Saturation Present? Yes  Seturation P	d. check all that apply)  Water-Steined Leaves (B9) (except MLI 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc  Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Soils (Cf Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  B8)  No Diepth (Inches):  Depth (Inches):  West	RA Water-Steined Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagen yts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
VDROLOGY  Vestand Hydrology Indicatora:  'minery indicators (minimum of one required  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 Crecks (B6)  Insudation Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (I  leid Observations:  urface Water Present?  Yes  Saturation Present?  Yes  Inductos Present?	d. check all that apply)  Water-Steined Leaves (89) (except MLI 1, 2, 4A, and 4B)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheras along Living Roc  Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Solis (C6 Stunied or Stressed Plants (D1) (LRR A  7)  Other (Explain in Remarks)  88)  No  Depth (inches):  No  Depth (inches):  Watt	AA Water-Stained Leaves (B9) (MLRA 4A), and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager ots (C3) Geomorphic Position (D2) Shallow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrotogy Present? Yas No
FDROLOGY  Vettand Hydrology Indicators:  rimary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mato Crust (B4)  Iron Deposits (B5)  Surface Soil Crecks (B6)  Insurfaction Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (I  laid Observations:  Furface Water Present? Yes  Vester Table Present? Yes  Saturation Present? Yes  Seturation P	d. check all that apply)  Water-Steined Leaves (B9) (except MLI 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc  Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Soils (Cf Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  B8)  No Diepth (Inches):  Depth (Inches):  West	AA Water-Stained Leaves (B9) (MLRA 4A), and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager ots (C3) Geomorphic Position (D2) Shallow Aquitant (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrotogy Present? Yas No

SOIL

Sampling Point: \_\_\_\_

ject/Site:	SLY	hr.		City/Cor	<sub>inty:</sub> <u>M</u>	arysville	Sampling Date:	3-21.
nicant/Owner:						State: W	A Sampling Point	
stigatos(s):	- N	Sema	LI	Section	Township, R	ange:		
							Sa	ope (%):
							Dat	
Map Unit Name:							saification;	*****
						(If no, explair		
					NO.	(ii no, expear	ST PORTER (S.)	No
		_, or Hydrology					es present? Yes	NO
Vegetation	Sow	_, or Hydrology	naturally	problemab	C7 (31 F	reeded, explain any s	nswers in Kemarks.)	
MMARY OF	FINDINGS -	- Attach site	map showi	ng samp	ling point	locations, trans	ects, important f	eatures, etc
draphytic Veget	ntion Dectarity	V	No U		***************************************			
dric Sail Present			No		s the Sample			
stland Hydrology			No	<b>-</b>	vithin a Wetl	and? Yes	No	<del></del>
marks.		L Norma					A	
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	~)~~	71.0.0		<u> </u>	airm	my + 1.	• ~	
BETATION -	- Use scien	itific names of	plants.					
- 01-1					went Indicator	ſ		
e Stratum (Plo					es? Stentue		ant Species CW, or FAC:	(A)
								VV
						Total Number of D Species Across Al		(8)
		*************************						
				Tota	Cover	Percent of Domina That Are OBL, FA		(A/B)
plino/Shrub Stra	<u>ıtum</u> (Plot size	e:	)					
						Prevalence Index		
							ret:Mulli	
							x1 =	
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nto Stratum: (Pic	M size.	1	************	= Tota	Cover		×4= ×5=	
C	~ ~		100	D'	M	UPL species	(A)	
			Constitution of the consti			1 -		
						Prevalence l	ndex * B/A =	
						Hydrophytic Veg	etation indicators:	
						Dominance T		
*************						Prevalence in		
						Morphologica	l Adaptations' (Provid marks or on a separat	e supporting
						Wetland Non-		no contract
							lydrophytic Vegetation	n' (Explain)
					<del></del>		ic soil and wetland by	
·						- be present, unless	disturbed or problem	atic
note Wha Strate	um /Plot size:			# Total	Cover	T		
		·				Hydrophytic		_
						Vegetation	Yes No	
						Present?		
				Total	Cover	Lianeiri	104RO_	

Depth							
(inches)	Color (moist)	<u>*</u>	Color (moist)	76 Type	Loc	exture	Remarks
14	104m 3	13		-	ance	1-	_
		. P					
							<del></del>
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<b></b> 0.0-			duced Matrix, CS=C		Cand Grains	71.	ocation: PL=Pore Lining, M=Matrix.
			Rs, unless otherwis		Sailo Grania		ers for Problematic Hydric Soils:
•				a mana			
Histosol			Sandy Redox (85)				m Muck (A10)
	ipedon (A2)		Stripped Matrix (S6				d Parent Material (TF2)
Black His			Loamy Mucky Mine		VILRA 1)	OH	her (Explain in Remarks)
Hydroger	n Sulfide (A4)		Loamy Gleyed Mate				
Depleted	Below Dark Surfac	• (A11)	Depleted Matrix (F3	3)		_	
Thick De	irk Surface (A12)		Redox Dark Surface	• (F6)			tors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted Dark Surf	ace (F7)			and hydrology must be present,
	leyed Matrix (S4)		Redox Depressions	(F8)		unia	as disturbed or problematic.
Restrictive L	Ayer (if present):						
Туре:					1		
			•		i		ii Present? Yes No
Depth (inc	hes):		-		111	yonc so	il Present? YesNo
Remarks:							
		ar quantitati de la companio de la c		vo,	ndi	فراسم سے	to
YDROLO				vo,	ndi	وسوح	te i
YDROLO	GY Irology Indicators:	ar og saftraggrup og saftrafskaren en se sa Languag grandegigt er sagtrafskaren særske		No,	ndi		
YDROLO:	trology indicators:		neck all that apply)		ndi		For ,
YDROLOG Wetland Hyd Primary Indig	trology indicators: ators (minimum of c		heck all that soply)			Sec	ondary indicators (2 or more required)
YDROLON Methand Hyd Primery Indig Surface	trology indicators: ators (minimum of s Water (A1)		heck all that apply)	Leaves (89) (ex		Sec	ondary indicators (2 or more required)
YDROLO Wetland Hyd Primary Indic Surface I High Wa	trology indicators: ators (minimum of s Water (A1) ter Table (A2)		neck all that sophy) Water-Stained 1, 2, 4A, ar	Leaves (89) (ex		Seg	ondary Indicators (2.or more required) Water-Steined Leaves (89) (MLRA 1, 4A, and 4B)
YDROLO Wetland Hyd Primary Indig Surface I High Wa Saturatio	trology indicators: ators (minimum of s Water (A1) ter Table (A2) on (A3)		heck all that sophy) Water-Slained 1, 2, 4A, ar Salt Crust (B1	I Leaves (89) (ex nd 48) ?)		. Sex	ondary Indicators (2 or more required) Water-Steined Leaves (89) (MLRA 1, 4A, and 4B) Orainage Patterns (810)
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YDROLO Wetland Hyd Primery (ndig Surface \ High Wa Saturatio Water M Sedimen	drology indicators: astors (minimum of s Water (A1) ter Table (A2) on (A3) arks (B1) ti Deposits (B2)		water-Stained 1, 2, 4A, ar Salt Crust (B1 Aquatic Inverte Hydrogen Sull	I Leaves (B9) (ex nd 4B) 1) ebrates (B13) fide Odor (C1)	cept MLRA	\$600 	ondary Indicators (2 or more required) Water-Steined Leaves (89) (MLRA 1, 4A, and 48) Drainege Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (4
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YDROLON Wethand Hyd Primery (notice Surface V High Was Seturatio Waster M Sedimen Drift Dep	drology indicators: astors (minimum of s Water (A1) ter Table (A2) on (A3) arks (B1) ti Deposits (B2)		water-Stained 1, 2, 4A, ar Salt Crust (B1 Aquetic Inverte Hydrogen Sult Oxidized Rhize	I Leaves (B9) (ex nd 4B) 1) ebrates (B13) fide Odor (C1)	cept MLRA	Sec	ondary Indicators (2 or more required) Water-Steined Leaves (89) (MLRA 1, 4A, and 48) Drainege Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (4
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YDROLOO Wethand Hyd Primery Indic Surface I High Was Saturable Water Mi Sedimen Ont Dep Alget Me Iron Dep Surface I	riciogy indicators: asters (minimum of s Water (A1) ter Table (A2) on (A3) arks (B1) ti Deposits (B2) ouits (B3) to r Crust (B4) ouits (B6) Soil Cracks (B6)	one required c	water-Stained 1, 2, 4A, ar Salt Crust (B1 Aquatic Inverte Hydrogen Sult Oxidized Rhiz Presence of R Recent fron R Stunted or Sta	I Leaves (B9) (ex nd 4B) †) ebrates (B13) fide Odor (C1) ospheres stong L aduced fron (C4) caduced fron (C4)	cept MLRA riving Roots (CS)	23)	ondary Indicators (2 or more required) Water-Steined Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial finagery (6 Geomorphic Position (D2) Shafow Aquitard (D3) FAC-Neutral Test (D5) (LRR A)
YDROLO Wethard Hye Primery India Surface I High Wa Seturation Water Ma Sedimen Drift Dep Algel Me Iron Dep Surface Se Inundation	ricingy indicators: sators (minimum of c water (A1) ter Table (A2) or (A3) ariks (B1) si Deposits (B2) sosits (B3) at or Crust (B4) sosits (B5) on Vasite on Aerial	one required: c	water-Stained 1, 2, 4A, as Selt Crust (B1 Aquatic Inverte Hydrogen Sult Ondizzed Rhig Presence of R Recent Iron R	I Leaves (B9) (ex nd 4B) †) ebrates (B13) fide Odor (C1) ospheres stong L aduced fron (C4) caduced fron (C4)	cept MLRA riving Roots (CS)	23)	prodery indicators (2.0: more required) Water-Steined Leaves (89) (MLRA 1, 44, and 48) Dry-Season Water Table (C2) Seturation Visible on Agriel Imagery (6 Geomorphic Position (D2) Shatiow Aquitated (D3) FAC-Neutral Test (D5)
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YDROLOG Primery Indig Surface High Wa Saturatic High Wa Saturatic Water Mi Sedimen Drift Dep Algel Me Iron Dep Surface Inundatic Sparsely Field Observat Water Table Saturatics Pal	riology Indicators: astors (minimum of s Water (A1) ter Table (A2) on (A3) arks (B1) st Deposits (B2) sosits (B3) et or Crust (B4) sosits (B5) Soil Cracks (B6) on Visible on Aerial v Vegetated Concav restions: ar Present? Present? Visible on	imagery (87) e Surface (88) fesNo	water-Stained 1, 2, 4A, er Salt Crust (81 Aquetic Invent Hydrogen Sull Oxidized Rhizo Presence of R Recent fron R Sturtled or Sta Other (Explain	I Leaves (89) (ex nd 48)  1) bhates (813) fide Odor (C1) ospheres along L aduced Iron (C4) eduction in Tilled escade Plants (01) in Remarks)  a):  a):  a):	cept MLRA rving Roots (t Scrits (C6) (LRR A)	Secondary Second	ondary Indicators (2 or more required) Water-Steined Leavee (89) (MLRA 1, 4A, and 4B) Orainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (6 Geomorphic Position (D2) Shaslow Aquitard (D3) FAC-Neutral Test (D5) Raised Art Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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YDROLO Wethard Hyd Primery Indio Surface i High Wa Seturatio Water M Sedimen Drift Dee Juriace i Iron Dep Surface i Inundatic Sparsely Field Obsern Surface Wate Water Table Saturation Princludes cap Describe Rec	riology Indicators: astors (minimum of s Water (A1) ter Table (A2) on (A3) arks (B1) st Deposits (B2) sosits (B3) et or Crust (B4) sosits (B5) Soil Cracks (B6) on Visible on Aerial v Vegetated Concav restions: ar Present? Present? Visible on	imagery (87) e Surface (88) fesNo	water-Stained 1, 2, 4A, ar Salt Crust (81 Aquatic Invent Hydrogen Sult Oxidized Rhiz Presence of R Recent fron R Stunted or Sta Other (Explain Depth (inches	I Leaves (B9) (ex nd 4B) 1) ebrates (B13) fide Odor (C1) ospheres slong L teduced Iron (C4) eduction in Tilled eduction in Remarks) in Remarks)  a):  a):  a):  (a): (b): (b): (c): (c): (c): (c): (d): (d): (d): (d): (ex): (	cept MLRA rving Roots (t Soils (C6) (LRR A)  Wetland	Sez	ondary Indicators (2 or more required) Water-Steined Leaves (89) (MLRA 1, 4A, and 4B) Orainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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oject/Site:	SLH	ur_		City/County:	Marys	J.1/2	Samolin	c Date:	3-21
plicant/Owner:				,,		tate: W			
estigator(s):	20	Sewa	11	Section Town	hin Ranna				
								Clos	- 1963-
			Lac		Long:				
Map Unit Name	***************************************					NWI cles			
		on the site typical			-			- 8	
		or Hydrology			Are 'Normal	Circumstance	s" present?	Yes	No
Vegetation	Sof	or Hydrology	naturally p	roblematic?	(If needed, e	xplain any am	wers in Rem	arks.)	
IMMARY OF	FINDINGS -	Attach site	map showin	g sampling (	oint locatio	ns, transe	cts, impo	tant for	stures, el
ydrophytic Vegel	tation Present?	Yes	No -						
ydric Soil Presen			No	_	ampled Area			_	
etland Hydrolog:	y Present?	Yes	No	- WHITTEN	Wetland?	145	No		
emarks.	ahove	Norma	1	EII		····	<del></del>		
-	4500	INAL F		w/d,	hd	- +:1	4		
				4/01	,	, , , ,			······································
GETATION -	- Use scienti	ific names of		Dominant inc	r	nence Test w			
es Strature (Pie	ot size:			Species? S		nence Test w er of Dominar			
					Tentino	ve OBL, FAC			(A)
					i	Number of Do			
					Specie	as Across All	rnomen Stratu:		(B)
						nt of Dominan	a Constitut		
				_ * Total Cover		ve OBL, FAC			(A/E
			)		Barrier	lence Index	undahaati		
						otel % Cover		Madinha	hu
					,	pecies			
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				~		pecies			
				= Total Cover		species			
ind Stratum (Pl	ot size:				UPLs	pecies	x	5 =	
					Colum	n Totals:	(A	)	(8
						Prevalence (n ophytic Veget			
						ominance Tel		DOPE:	
						revalence ind			
				-		orphological /		(Provide :	supportion
					-"		entre or on a		
					w	fetland Non-V	escular Plan	s'	
					1	robiematic Hy	, -	-	
					¹Indica	nors of hydric	soli and wet	and hydro	ology must
				= Total Cover	pre pre	marit, Uriness (	mentono or p	n GORBIT (BI)	Ni.
oody Vine Stratu	m (Plot size: _	)	~		ļ				
					Hydro	phytic			
					Veget Prese		Yes	No	_
				_= Total Cover	1				
Barn Ground in	Herb Stretum			1041 0014	- 1				

Depth				
(inches)	Color (moist) %	Color (moist) % Type Loc	Texture	Remarks
7	10472/2			
		-	S-1	
11.	10 W 313	•	Duly in	~
				······································
			<del></del>	<del></del>
Type: C#Con	centration, D=Depletion.	RM=Reduced Matrix, CS=Covered or Coated Sand G	Irains. <sup>2</sup> Locati	on: PL=Pore Lining, M=Matrix.
		sii LRRs, unless otherwise noted.)		for Problematic Hydric Soils <sup>3</sup> :
-			2 cm N	
Histosot (A		Sandy Redox (S5)		
Hielic Epip	redon (A2)	Stripped Matrix (S6)		arent Material (TF2)
Black Hist	ic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	) Other (	(Explain in Remarks)
Hydrogen	Sulfide (A4)	Loamy Gleyed Matrix (F2)		
	Below Dark Surface (A11			
	k Surface (A12)	Redox Dark Surface (F6)	Hadicatore	of hydrophytic vegetation and
	cky Mineral (81)	Depleted Dark Surface (F7)		hydrology must be present.
	yed Matrix (S4)	Redox Depressions (F8)	uniess (	listurbed or problematic.
testrictive La	yer (if present):		1	
Туре:			1	
		W. W	1	
Depth (inch	es):	tion and the same of the same	Hydric Soil Pr	esent? Yes No
lemerks:				
		No indicate	<i>-</i>	
YDROLOG		NO Indicate	5	
	:Y plogy indicators:	NO Indiana		
Wetland Hydr	ology indicators:	Wied, check ell that apply)		ary Indicators (2 or more required
Vetland Hydr Timery Indica	plogy indicators: tors (minimum of one rec	ju(red; sheck eff that assory)	Seconda	
Vetland Hydr Timery Indica Surface W	plogy indicators: tors (minimum of one rec later (A1)	quired, check eff that apoly)	Seconda RA Wat	er-Steined Leaves (89) (MILRA 1
Netland Hydr Yimery Indica Surface W High Wate	plogy indicators: tors (minimum of one rec later (A1) or Table (A2)	tuired, check eff that apply).  Water-Stehed Leaves (89) (except ML  1, 2, 4A, and 48)	Seconds	er-Sizined Leaves (B9) (MLRA 1 (A, and 48)
Vetland Hydr Timery Indica Surface W	plogy indicators: tors (minimum of one rec later (A1) or Table (A2)	quired, check eff that apoly)	Seconds	er-Steined Leaves (89) (MLRA 1
Netland Hydr Yimery Indica Surface W High Wate	stogy indicators: tors (minimum of one rec rater (A1) or Table (A2)	tuired, check eff that apply).  Water-Stehed Leaves (89) (except ML  1, 2, 4A, and 48)	Seconds RA Wat 4 Drai	er-Sizined Leaves (B9) (MLRA 1 (A, and 48)
Vetland Hydr Timery Indica Surface W High Wate Saturation Water Mac	plogy indicators: tors (minimum of one rec rater (A1) or Table (A2) (A3) rks (B1)	uured; check ell that apoly)  Water-Steined Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)	Seconds RA Wat Orai Dry-	er-Stained Lesves (B9) (MLRA 1 IA, and 4B) nage Patierns (B10) Season Water Table (C2)
Vetland Hydr Timery indica Surface W High Wate Saturation Water Mac Sediment	nlogy indicators: tors (minimum of one rec hater (A1) sr Table (A2) (A3) rks (B1) Deposits (B2)	uvired, check eff that apoly).  Water-Sleined Leaves (89) (except ML.  1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)	Seconds  RA Wat  Drai  Dry  Satu	er-Steined Lesves (B9) (MLRA 1 IA, and 48) nage Petierns (B10) Season Water Table (C2) Iration Visible on Aerial Imagery (
Vetland Hydr Timerx indicat Surface W High Wate Saturation Water Mad Sediment Dritt Dapo	ology indicators: sors (minimum of one recitater (A1) or Table (A2) or (A3) to (A3) Deposits (B2) eits (B3)	tuired; check eff that apoly).  Water-Stehed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic (811)  Hydrogen Sulfide Odor (CI)  Oxidized Rhizospheres along Living Ro	Seconds  RA Wat  Drai  Satu	er-Stained Leaves (B9) (MLRA 1 IA, and 4B) nage Patterns (B10) Season Water Table (C2) tration Visible on Aerial Imagery ( morphic Position (D2)
Vetland Hydr Timerx indicat Surface W High Wate Saturation Water Mad Sediment Dritt Dapo	nlogy indicators: tors (minimum of one rec hater (A1) sr Table (A2) (A3) rks (B1) Deposits (B2)	uvired, check eff that apoly).  Water-Sleined Leaves (89) (except ML.  1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)	Seconds  RA Was  Drai  Drai  Dry  Saturn  Sha	er-Steined Leaves (B9) (MLRA 1 IA, and 4B) nage Patterns (B10) Seeson Water Table (C2) tration Visible on Aerial Imagery ( enorphic Position (D2) flow Aquitand (D3)
Vetland Hydr Timery Indice Surface W High Wate Saturation Water Man Sediment Drift Depo	ology indicators: tors (minimum of one rec rater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) elist (B3) or Crust (B4)	tuired; check eff that apoly).  Water-Stehed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic (811)  Hydrogen Sulfide Odor (CI)  Oxidized Rhizospheres along Living Ro	Seconds  RA Was  Drai  Dry  Saturations (C3) Gas  Sha	er-Stained Leaves (B9) (MLRA 1 IA, and 4B) nage Patterns (B10) Season Water Table (C2) tration Visible on Aerial Imagery ( morphic Position (D2)
Wetland Hydr Trimery Indicas Surface W High Water Saturation Water Mac Sediment Drift Depo Algel Mat Iron Depor	oslogy findicators: sors (minimum of one rec rater (A1) er Table (A2) e(A3) rics (B1) Deposits (B2) ests (B3) or Crust (B4) sits (B6)	uired, check att that apoly).  Water-Steined Leaves (89) (except ML.  1, 2, 4A, and 48)  Satt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres atong Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C)	Seconds RA Wat	er-Stained Leaves (B9) (MLRA 1 A, and 48) nage Patierns (B10) Season Water Table (C2) tration Visible on Aerial Imagery ( enorphic Position (D2) (low Aquitant (D3) Neutral Test (D5)
Wetland Hydr Timery Indicas Surface W High Water Saturation Water Mac Sedistient Drift Depo Algel Mat Iron Depor Surface Si	rology Indicators:  sors (minimum of one recitater (A1)  ir Table (A2)  i (A3)  rks (B1)  Deposits (B2)  ests (B3)  or Crust (B4)  sits (B5)  oil Cracks (B6)	usired, check aft that apoly).  Water-Steined Leaves (89) (except ML.  1, 2, 4A, and 48)  Self Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction In Tilled Soils (C  Stunted or Stressed Plants (D1) (LRR A	Seconds RA Wat  Dry  Satu  Stots (C3) Geo  Sha  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra	er-Stained Leaves (B9) (MILRA 1 A, and 4B) nage Patierns (B10) Seeson Water Table (C2) iration Visible on Aerial Imagery I irrorphic Position (D2) slow Aquitand (D3) -Neutral Test (D5) red Arit Mounds (D6) (LRR A)
retiand Hydr Timery Indica Surface W High Water Saturation Water Max Sedistent Drift Depo Algel Mat Iron Depo Surface Si Inundation	ology indicators: tors (minimum of one rec later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) ests (B3) or Crust (B4) eits (B5) oil Cracks (B6) v Visible on Aerial Imagei	tuired, check eff that apoly).  Water-Stahmed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (CI)  Oxidized Rhizospheres along Living Ro  Presence of Reduced fron (C4)  Recent fron Reduction in Tilled Soils (CI  Sturtled or Stressed Plants (D1) (LRR A	Seconds RA Wat  Dry  Satu  Stots (C3) Geo  Sha  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra	er-Stained Leaves (B9) (MLRA 1 A, and 4B) nage Patierns (B10) Season Water Table (C2) tration Visible on Aerial Imagery i enorphic Position (D2) flow Aquitant (D3) Neutral Test (D5)
Notiand Hydro Primary Indica Surface W High Water Saturation Water Max Sediment Linch Depo Algal Mat Linch Depo Surface S Inundation	rology Indicators:  sors (minimum of one recitater (A1)  ir Table (A2)  i (A3)  rks (B1)  Deposits (B2)  ests (B3)  or Crust (B4)  sits (B5)  oil Cracks (B6)	tuired, check eff that apoly).  Water-Stahmed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (CI)  Oxidized Rhizospheres along Living Ro  Presence of Reduced fron (C4)  Recent fron Reduction in Tilled Soils (CI  Sturtled or Stressed Plants (D1) (LRR A	Seconds RA Wat  Dry  Satu  Stots (C3) Geo  Sha  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra	er-Stained Leaves (B9) (MILRA 1 A, and 4B) nage Patierns (B10) Seeson Water Table (C2) iration Visible on Aerial Imagery I irrorphic Position (D2) slow Aquitand (D3) -Neutral Test (D5) red Arit Mounds (D6) (LRR A)
Notiand Hydro Primary Indica Surface W High Water Saturation Water Max Sediment Linch Depo Algal Mat Linch Depo Surface S Inundation	oslogy findicators:  sors (minimum of one resister (A1)  or Table (A2)  of (A3)  rics (B1)  Deposits (B2)  ests (B3)  or Crust (B4)  eits (B6)  oil Cracks (B6)  Visible on Aerial Imager  Vegetalsed Concave Surfa	usired, sheck aft that apoly).  Water-Steined Leavee (89) (except ML.  1, 2, 4A, and 48)  Selt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunfed or Stressed Plants (D1) (LRR A  (P) (87)  Other (Explain in Remarks)  toce (88)	Seconds RA Wat  Dry  Satu  Stots (C3) Geo  Sha  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra	er-Stained Leaves (B9) (MILRA 1 A, and 4B) nage Patierns (B10) Seeson Water Table (C2) iration Visible on Aerial Imagery I irrorphic Position (D2) slow Aquitand (D3) -Neutral Test (D5) red Arit Mounds (D6) (LRR A)
Methand Hydr Primary Indical Surface W High Water Saturation Water Mad Sediment Drift Depo Algel Mat Iron Depot Surface So Inundation Sparsely \	oslogy findicators:  sors (minimum of one resister (A1)  or Table (A2)  of (A3)  rics (B1)  Deposits (B2)  ests (B3)  or Crust (B4)  eits (B6)  oil Cracks (B6)  Visible on Aerial Imager  Vegetalsed Concave Surfa	usired, sheck aft that apoly).  Water-Steined Leavee (89) (except ML.  1, 2, 4A, and 48)  Selt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunfed or Stressed Plants (D1) (LRR A  (P) (87)  Other (Explain in Remarks)  toce (88)	Seconds RA Wat  Dry  Satu  Stots (C3) Geo  Sha  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra	er-Stained Leaves (B9) (MLRA 1 A, and 4B) nage Patierns (B10) Seeson Water Table (C2) iration Visible on Aerial Imagery ( irrorphic Position (D2) slow Aquitard (D3) -Neutral Test (D5) red Arit Mounds (D6) (LRR A)
Notiand Hydr Primery Indicate Surface W High Wate Saturation Water Mac Sediment Drift Depo Algel Mat Iron Depo Surface Si Invudation Springersely V	ology indicators: tors (minimum of one reclater (A1) or Table (A2) or (A3) rks (B1) Deposits (B2) ests (B3) or Crust (B4) ests (B5) oil Cracks (B6) oil Visible on Aerial Imagel Vegetated Concave Surfs titions: Present? Yes	usired, sheck eff that apoly).  Water-Sleihed Leavee (89) (except ML.  1, 2, 4A, and 48)  Self Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunfed or Stressed Plants (D1) (LRR A  (97) Other (Explain in Remarks)  Loca (88)	Seconds RA Wat  Dry  Satu  Stots (C3) Geo  Sha  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra  Ra	er-Stained Leaves (B9) (MLRA 1 A, and 4B) nage Patierns (B10) Seeson Water Table (C2) iration Visible on Aerial Imagery ( irrorphic Position (D2) slow Aquitard (D3) -Neutral Test (D5) red Arit Mounds (D6) (LRR A)
Notiand Hydr Primery Indicate Surface W. High Water Saturation Water Mac Sediment Drift Depo Algal Mat Iron Depo Surface Si Invadation Sparsely V Field Observe Surface Water Water Table P	ology indicators: tors (minimum of one reclater (A1) or Table (A2) (A3) riks (B1) Deposits (B2) sets (B3) or Crust (B4) sits (B5) of Crust (B6) of Visible on Aerial Imagel Vegetad Concave Surfit steones: Present? Yes	tuired, check eti that acoly)  Water-Stehed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunded or Stressed Plants (D1) (LRR A  (y (87) Other (Explain in Remarks)  total (88)  No Degib (inches):	Seconds RA Wat  Dray  Saturn  State  Sha  Sha  FAA  Rais  Fros	er-Stained Leaves (B9) (MLRA 1 A, and 4B) nage Patierns (B10) Seeson Water Table (C2) iration Visible on Aerial Imagery ( irrorphic Position (D2) slow Aquitard (D3) -Neutral Test (D5) and Arit Mounds (D6) (LRR A) it-Heave Hummocks (D7)
Notland Hydr Primery Indicate Surface W High Water Has Water Mad Sediment Driff Depo Adgel Metri Iron Depod Surface Si Invadation Sparsely \ Pleid Observe Water Water	instagy indicators:  tors (minimum of one recipite (A1)  or Table (A2)  (A3)  rks (B1)  Deposits (B2)  eits (B3)  or Crust (B4)  eits (B5)  oil Cracks (B6)  Visible on Aerial Imager /egetated Concave Surfitions:  Present?  Yes  yes  sent?  Yes  yes  yes  yes  yes  yes  yes  yes	uured, check eft that acody)  — Water-Sleihed Leaves (89) (except ML  1, 2, 4A, and 48) — Satt Crust (811) — Aquatic Invertebrates (813) — Hydrogen Suifide Cdor (C1) — Oxidized Rhizospheres along Living Ro — Presence of Reduced fron (C4) — Rocent Iron Reduction in Tilled Soils (C5) — Stunted or Stressed Plants (01) (LRR A  Other (Explain in Remarks)  toc (88)  No — Degib (inches):	Seconds RA Wat  Dray  Saturn  State  Sha  Sha  FAA  Rais  Fros	er-Stained Leaves (B9) (MLRA 1 A, and 4B) nage Patierns (B10) Seeson Water Table (C2) iration Visible on Aerial Imagery ( irrorphic Position (D2) slow Aquitard (D3) -Neutral Test (D5) red Arit Mounds (D6) (LRR A)
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Nedland Hydr Primery Indicate Surface W. High Wate Saturation Water Mac Sediment Drift Depo Algel Mart Iron Depo Surface S. Invadation Sparsely V. Teld Observa- surface Water Vater Table P. Individue Capital	usingly indicators: tors (minimum of one reclater (A1) or Table (A2) or (A3) or Crust (B4) or Crust (B4) or Crust (B6) or Urable on Aerial Imager (regetated Concave Surfa stions: Present? yes	tuired, check eti that acoly)  Water-Stehed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunded or Stressed Plants (D1) (LRR A  (y (87) Other (Explain in Remarks)  total (88)  No Degib (inches):	Seconds RA Wat	er-Stained Leaves (B9) (MILRA 1 A, and 4B) nage Patierns (B10) Seeson Water Table (C2) iration Visible on Aerial Imagery I irrorphic Position (D2) slow Aquitand (D3) -Neutral Test (D5) red Arit Mounds (D6) (LRR A) It-Heave Hummocks (D7)
Nedland Hydr Primery Indicate Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mart Iron Depo Surface Si Invadation Sparsely V Field Observe Surface Water Water Table P Saturation Pre- includes capit	usingly indicators: tors (minimum of one reclater (A1) or Table (A2) or (A3) or Crust (B4) or Crust (B4) or Crust (B6) or Urable on Aerial Imager (regetated Concave Surfa stions: Present? yes	tuired, check eti that acoly)  Water-Stehed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunded or Stressed Plants (D1) (LRR A  Other (Explain in Remarks)  too (88)  No Degib (inches):  No Degib (inches):  Wett	Seconds  RA Was  Dray Dray Satul Sha Sha Sha FAC  Frot	er-Stained Leaves (B9) (MLRA 1 A, and 4B) A, and 4B) Seeson Water Table (C2) Iration Visible on Aerial Imagery ( Iration Visible O3) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D7) -Neu
Nedland Hydr Primery Indicate Surface W. High Wate Saturation Water Mac Sediment Drift Depo Algel Mart Iron Depo Surface S. Invadation Sparsely V. Teld Observa- surface Water Vater Table P. Individue Capital	usingly indicators: tors (minimum of one reclater (A1) or Table (A2) or (A3) or Crust (B4) or Crust (B4) or Crust (B6) or Urable on Aerial Imager (regetated Concave Surfa stions: Present? yes	tuired, check eti that acoly)  Water-Stehed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunded or Stressed Plants (D1) (LRR A  Other (Explain in Remarks)  too (88)  No Degib (inches):  No Degib (inches):  Wett	Seconds  RA Was  Dray Dray Satul Sha Sha Sha FAC  Frot	er-Stained Leaves (B9) (MLRA 1 A, and 4B) A, and 4B) Seeson Water Table (C2) Iration Visible on Aerial Imagery ( Iration Visible O3) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D7) -Neu
Nedland Hydr Primery Indicate Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mart Iron Depo Surface Si Invadation Sparsely V Field Observe Surface Water Water Table P Saturation Pre- includes capit	usingly indicators: tors (minimum of one reclater (A1) or Table (A2) or (A3) or Crust (B4) or Crust (B4) or Crust (B6) or Urable on Aerial Imager (regetated Concave Surfa stions: Present? yes	utired, check aft that apoly).  Water-Steined Leavee (89) (except ML 1, 2, 4A, and 48)  Satt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunted or Stressed Plants (D1) (LRR A  Other (Explain in Remarks)  to Bepth (inches):  No Depth (inches):  Wett	Seconds  RA Was  Dray Dray Satul Sha Sha Sha FAC  Frot	er-Stained Leaves (B9) (MLRA 1 A, and 4B) A, and 4B) Seeson Water Table (C2) Iration Visible on Aerial Imagery ( Iration Visible O3) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D7) -Neu
Nedland Hydr Primery Indicate Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mart Iron Depo Surface Si Invadation Sparsely V Field Observe Surface Water Water Table P Saturation Pre- includes capit	usingly indicators: tors (minimum of one reclater (A1) or Table (A2) or (A3) or Crust (B4) or Crust (B4) or Crust (B6) or Urable on Aerial Imager (regetated Concave Surfa stions: Present? yes	tuired, check eti that acoly)  Water-Stehed Leaves (89) (except ML 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres along Living Ro  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C  Stunded or Stressed Plants (D1) (LRR A  Other (Explain in Remarks)  too (88)  No Degib (inches):  No Degib (inches):  Wett	Seconds  RA Was  Dray Dray Satul Sha Sha Sha FAC  Frot	er-Stained Leaves (B9) (MLRA 1 A, and 4B) A, and 4B) Seeson Water Table (C2) Iration Visible on Aerial Imagery ( Iration Visible O3) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D5) -Neutral Test (D7) -Neu

Sampling Point: \_\_\_

oject/Site;	SITL	<u>u</u>		City/County:	Marysville		
plicant/Owner:			'		State:	NA Sample	ng Point DP
estigator(s):	Zd 5	Sewal		Section, Towns	hip, Range:		
dform (hilbstone	terrace etc.)			Local relief (co.	icave, convex, none):		Sione (%):
					Long:		
	):					clessification:	
					No (If no, exp	-	
	, <del>S</del> oli o				Are "Nonnal Circumst	,	
Vegetation	Soit, c	r Hydrology	naturally pro	oblematic?	(If needed, explain an	y amwers in Re	marks.)
MMARY OF	FINDINGS -	Attach site n	nap showing	sampling p	oint locations, trai	nsects, impo	ortant features, et
edmahelic Vene	tation Present?	Yes	No /				
dric Soil Preser		Yes		_1	Impled Area	98 N	. /
etland Hydrolog	y Present?	Yes		within #	Wetland? Y	9\$ ri	°
emarke.	above	W=0==	1	511			
-	- agricul	mal E	المراجد		Johns + +	ile	
				2/21	, mry 7 /		
JETATION .	- Use scientifi	c names of					
ee Stratum (Pi	ot size:			Dominant Ind Species? St			
					I LACTURATE OF PART		(A)
					Total Number of		
					Species Across		(B)
					Percent of Don	in and Canadian	
				= Total Cover		FACW, or FAC:	(A/E
	atum (Plot size:_	<del></del> )			Bancolanaa In	iex worksheet:	
							Multiply by:
							x 1 =
							x2=
							x 3 =
				= Total Cover	FACU species		x 4 =
nt Stratum (Pi	ot size:			_	UPL species	***************************************	x 5 *
	٠~~			·	Column Totals		A)(B)
	····						
	<del></del>					e index = B/A egetation indic	
							ancore.
						e Index is \$3.0°	
							(Provide supporting
<del></del>		<del></del>			data in	Remarks or on	separate sheet)
						on-Vascular Pla	
							egetation <sup>1</sup> (Explain)
· <del></del>					¹Indicators of h	ydric soli and w esa disturbed o	etland hydrology must
				= Total Cover	De present, Uni	are districted of	PIOURING
	um (Plot size:				1		
······································					Hydrophytic		/
					Vegetation Present?	Yes	No
				≈ Total Cover	1		
Dom Ground :	Herb Stratum		~~~~~~		1		

Depth _	Matrix		Red.	ox Features	2						
(inches)	Color (moist)	%	Color (moist)	*	Type	Loc	Textur	<u> </u>		Remarks	
8	1012 7										
16	1041-3	13	·····				3 mls	, 1-			
		-									
	·								·····		
-											
									******		······································
Type: C=Con	centration. D=Dep	etion, RM=Re	duced Matrix, C	S=Covered	d or Coah	ed Sand G	irains.			ore Lining, h	
tydric Soll in	dicators: (Applic	able to all LRI	Ra, unless oth	rwise note	ed.)		indi	cators fo	r Proble	matic Hyde	ric Soils':
Histosol (/	M1)		Sandy Redox					2 cm Mu			
Histic Epig	sedon (A2)		Stripped Matri					Red Pare			
Black Hist			Loamy Mucky			HMLRA 1	)	Other (E)	xplain in	Remarks)	
Hydrogen			Loamy Glayed		)						
	Below Dark Surfec		Depleted Matr				<b>1</b>				
	K Surface (A12)		Redox Dark S							ytic vegetat	
	cky Mineral (81)	-	Depleted Dark		7)					must be pre	
	yed Matrix (S4)		Redox Depres	eions (F6)			<u></u>	#11656 CIS	mag 0	r problemeb	Ç.
	yer (if present):						1				
Type: Depth (inch	es):		<b>-</b>				Hydric	Soll Pres	unt?	Yes	No
			N	01	A.	vee!	55				
YDROLOG	;Y		N	0 1	rd.	vec!	6 g				
YDROLOG				****	' ed .	veel		econdary	fredicate	ors (2 or mo	re required
YDROLOG	ology Indicators tors (minimum of			dy)			S			ors (2 or mo	
YDROLOG Wetland Hydr Primary Indica Surface W	ology Indicators: tors (minimum of s later (A1)		neck all that acc	dy)	es (B9) (c		S	Water-		Leaves (89	
YDROLOG Vetland Hydr Frimery Indica Surface W High Wate	ology Indicators: tors (minimum of s /ater (A1) or Table (A2)		neck all that acc	ily) nined Leave A, end 48)	es (B9) (c		S	Water-	Stained , and 48	Leaves (89	
YDROLOG Veband Hydr himary indice Surface W High Wate Saturation	ology Indicators: tors (minimum of stater (A1) or Table (A2) (A3)		water-St	ily) sined Lesvi A, end 48) I (811)	es (B9) (e		S	Water- 4A, Draina	-Stained , and 48 ige Patic	Leaves (89 )	) (MLRA 1
VOROLOG Vetland Hydr himary indica Surface W High Wate Saturation Water Max	ology Indicators: tors (minimum of stater (A1) or Table (A2) (A3) rks (B1)		water-St.  Water-St. f, 2, 4 Salt Crus Aquetic is	ily) ained Leavi A, and 48) I (B11) ivertebrate	es (B9) (c ) es (B13)		S	Water- 4A, Draina Dry-S4	Stained , and 48 ige Patic leson W	Leeves (89 i) kns (810)	) (MLRA 1 C2)
YDROLOG  Wetland Hydringer  Trimery Indica  Surface W  High Water  Saturation  Water Mac  Sediment	ology Indicators: tors (minimum of c /ater (A1) or Table (A2) i (A3) rks (B1) Deposits (B2)		water-St 1, 2, 4 Sait Crus Aquatic II Hydroger	aly) A, and 48) I (811) Invertebrate I Sutfide Oc	es (89) (c ) ne (B13) dor (C1)	вхсерт М.	S	Water- 4A, Draina Dry-Se Satura	Stained , and 48 ige Patte leson W ition Visi	Leaves (89 i) inna (810) later Table ( ble on Aeria	(MLRA 1 C2) I Imagery
YDROLOG Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma: Sediment Drift Depo	relogy indicators: fors (minimum of classification) of the control of the contro		Water-St 1, 2, 4 Sait Crus Aquatic li Hydroger Oxidizad	alv) A, end 48) I (B11) nvertebrate I Sutfide Ot	es (89) (4 ) es (813) dor (C1)	except ML	RA	Water- 4A, Draina Dry-Se Satura Geome	Stained , and 48 ige Patte lesson W ition Visi orphic P	Leaves (89 i) inna (810) ister Table ( ble on Aeria osition (D2)	) (MLRA 1 C2) I imagery :
YDROLOG Wetland Hydr himary Indica Surface W High Water Saturation Water Man Drift Depo Algal Mat	relogy indicators: fore (minimum of classification) of the control of the control of classification o		water-St Yater-St 1, 2, 4 Salt Crus Aquetic li Hydroger Oxidized Presence	nly) alhed Leave A, and 48) ( (B11) nvertebrate s Sulfide Oc Rhizosphei of Reduce	es (B9) (c) ) es (B13) dor (C1) res along ad iron (C	except ML Living Ro 4)	RA _	Water- 4A, Draina Dry-Se Satura Geom Shallor	Stained, and 48 age Patte seson Water Vision Vision Waquite Waquite	Leaves (89 i) intra (810) later Table ( ble on Aeria osition (D2) and (D3)	) (MLRA 1 C2) I imagery :
YDROLOG Wetland Hydr rrimary Indica Surface W High Water Seturation Water Ma Sedment Drift Depo Algal Mat	relogy indicators:  tgrs (minimum of clater (A1) or Table (A2) or (A3) rica (B1) Deposits (B2) ests (B3) or Crust (B4) ests (B5)		water-St. 1, 2, 4 Salt Crus Aquatic li Hydroger Oresence Recent Ir	nly)  A, end 48)  (B11)  rvertebrate:  Sulfide Or  Rhizosphei  of Reduce  on Reduction	es (B9) (c ) es (B13) dor (C1) res along dd iron (C on in Tille	except ML Living Ro 4) ad Soils (C	RA	Water- 4A, Draina Dry-Se Satura Geom Shallor FAC-N	Stained, and 48 age Patte seson Water Vision Vision Pw Aquite teutral T	Leaves (B9 i) inns (B10) ster Table ( ble on Aeris osition (D2) and (D3) est (D5)	(MLRA 1 C2) Itmagery
YDROLOG Vetland Hydr rimery Indicas Surface W High Wate Seturation Water Ma: Sediment Drift Depo Algal Mat Iron Depo Surface S	reliegy findicators: sors (minimum of c /ater (A1) or Table (A2) or (A3) rick (B1) Deposits (B2) selfs (B3) or Crust (B4) sits (B5) oil Cracks (B6)	ane required d	heck all that app Water-Si 1, 2, 4 Salt Crus Aqualic li Hydroger Oxidized Presence Raccent ir Stunted o	aly) alned Leave A, and 48) ((B11) nvertebrate: Sulfide Oc Rhizospher of Reduce on Reduction	es (89) (4 ) es (813) der (C1) res along ed fron (Coon in Tille Plants (E	except ML Living Ro 4) ad Soils (C	RA	Water- 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raisee	Stained, and 48 age Patte season Wation Vision Orghic Park Aquita to Ant Mo	Leaves (89 i) irms (810) later Table ( ble on Aeria osition (D2) and (D3) est (D5) unds (D6) (	(MLRA 1 C2) Integery LRR A)
YDROLOG Welland Hydr rinsery Indica Surface W High Wate Seturation Water Ma Sedment Drift Depo Algal Mat Iron Depo Surface S Insndation	ology indicators: sgre (minimum of stater (A1) or Table (A2) of (A3) fints (B1) Deposits (B2) elfs (B3) or Crust (B4) sits (B5) oil Cracks (B6)	ane required; cl	water-St. 1, 2, 4 Salt Crus Aquatic li Hydroged Oresence Recent Ir	aly) alned Leave A, and 48) ((B11) nvertebrate: Sulfide Oc Rhizospher of Reduce on Reduction	es (89) (4 ) es (813) der (C1) res along ed fron (Coon in Tille Plants (E	except ML Living Ro 4) ad Soils (C	RA	Water- 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raisee	Stained, and 48 age Patte season Wation Vision Orghic Park Aquita to Ant Mo	Leaves (B9 i) inns (B10) ster Table ( ble on Aeris osition (D2) and (D3) est (D5)	(MLRA 1 C2) Integery LRR A)
YDROLOG Wetland Hydr himsev Indica Surface W High Water Seturation Water Mai Sediment Drift Depo Algal Mat iron Depo Surface S invadation Spersely \( \)	otogy indicators: sors (minimum of clater (A1) or Table (A2) ((A3) rise (B1) Deposits (B2) esits (B2) esits (B5) or Crust (B4) esits (B5) oil Cracks (B6) (Valotic on Aerial /egetsted Concav	ane required; cl	heck all that app Water-Si 1, 2, 4 Salt Crus Aqualic li Hydroger Oxidized Presence Raccent ir Stunted o	aly) alned Leave A, and 48) ((B11) nvertebrate: Sulfide Oc Rhizospher of Reduce on Reduction	es (89) (4 ) es (813) der (C1) res along ed fron (Coon in Tille Plants (E	except ML Living Ro 4) ad Soils (C	RA	Water- 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raisee	Stained, and 48 age Patte season Wation Vision Orghic Park Aquita to Ant Mo	Leaves (89 i) irms (810) later Table ( ble on Aeria osition (D2) and (D3) est (D5) unds (D6) (	(MLRA 1 C2) Integery LRR A)
YDROLOG Welland Hydr Frimerv Indias Surface W High Wate Saturation Drift Depo Algai Met Iron Depo Surface S Invadation Sparae S Jornaletion Sparae S Jornale	ology Indicators: sgrs (minimum of claster (A1) or Table (A2) of (A3) rks (B1) Deposits (B2) ests (B3) oil Cracks (B4) sits (B5) oil Cracks (B6) Vigotated Concavitions:	ane required. cl Imagery (87) e Surface (98)	beck all that app Water-Si 1, 2, 4 Sait Crus Aqualic ii Hydroger Oxidized Presence Racent ir Stunted to Other (E)	aly) alned Leave A, end 4B) (B11) nvertebrate Suffide Oc Rhizospher of Reduce on Reduction is Stressed spieln in Re	es (89) (4 ) es (813) der (C1) res along ed fron (Coon in Tille Plants (E	except ML Living Ro 4) ad Soils (C	RA	Water- 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raisee	Stained, and 48 age Patte season Wation Vision Orghic Park Aquita to Ant Mo	Leaves (89 i) irms (810) later Table ( ble on Aeria osition (D2) and (D3) est (D5) unds (D6) (	(MLRA 1 C2) Integery LRR A)
YDROLOG Wetland Hydr himery Indica Sufface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Invadation Spersely V Teld Observely Union	ology Indicators: sors (minimum of crater (A1) rater (A1) r(A3) rks (B1) Deposits (B2) rites (B5) Deposits (B2) rites (B6) Deposits (B6) Di Cracta (B6) Di Cracta (B6) Visible on Aerial Vegetated Concavitions: Present?	imagery (87) e Surface (98)	beck all that app Water-Si 1, 2, 4 Sait Crus Aquelic li Hydroger Oxidized Presence Stunted to Other (E)	aly) alned Leave A, end 48) I (B11) rvertebrate of Reduce on Reducti or Stressed opiain in Re	es (89) (4 ) es (813) der (C1) res along ed fron (Coon in Tille Plants (E	except ML Living Ro 4) ad Soils (C	RA	Water- 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raisee	Stained, and 48 age Patte season Wation Vision Orghic Park Aquita to Ant Mo	Leaves (89 i) irms (810) later Table ( ble on Aeria osition (D2) and (D3) est (D5) unds (D6) (	(MLRA 1 C2) Integery LRR A)
YDROLOG Wetland Hydr Primery Indice Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Spersey V Idel Observe Surface Water Water Table P	ology indicators: sors (minimum of of stater (A1) or Table (A2) (A3) rise (B1) Deposits (B2) ests (B3) or Crust (B4) ests (B3) or Crust (B4) ests (B6) of Visible on Aerial Vegetated Concav titions: Present?	imagery (87) e Surface (88) fes No	Mater St. 1, 2, 4 Salt Crus Aquatic II Hydrogen Oxidized Presence Recent Ir Stunded Cother (E) Depth (II	ally) A, and 48) ((81) A, and 48) ((81) A end 48) ((81) A end 48) Sulfide Oc Rhizospher of Reduce of Reduc	es (89) (4 ) es (813) der (C1) res along ed fron (Coon in Tille Plants (E	except ML   Living Ro 4) ad Soile (C 01) (LRR #	RA	Water 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raisec Frost-H	Stained, and 48 age Patte seson Wilson Vision Vision Per Waguite Seutral Talant Market Hasse H	Leeves (89 i) kms (810) ster Table ( ble on Aeris osition (D2) and (D3) est (D5) unds (D6) ( ummocks (1	(MLRA 1 C2) Il imagery LRR A)
YDROLOG Westand Hydr Primer Indice Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparasely N Endd Observes Surface Water Water Table P Saturation Pre Includes capit	ology Indicators: sors (minimum of of stater (A1) stater (A1) strable (A2) (A3) rise (B1) Deposits (B2) ests (B3) or Crust (B4) ests (B5) or Crust (B4) ests (B5) or Crust (B6) or Crust	Imagery (87) e Surface (88) fes No fes No	water-Si Yater-Si 1, 2, 4 Sait Crus Aquelic ii Hydroger Oxidized Presence Recent ir Stunied ii Other (E)	aly)  A, end 48)  ((B11)  ((B12)  (CB12)  (CB13)  (CB1	es (B9) (c) ) se (B13) dor (C1) res along d fron (C on in Title Plants (D emarks)	Except ML  Living Ro  4) ad Soils (C  71) (LRR /	S.RA	Water 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raiset Frost-I	Stained, and 48 age Patte seson Wilson Vision Vision Per Waguite Seutral Talant Market Hasse H	Leeves (89 i) kms (810) ster Table ( ble on Aeris osition (D2) and (D3) est (D5) unds (D6) ( ummocks (1	(MLRA 1 C2) Integery LRR A)
YDROLOG Westand Hydr Primer Indice Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparasely N Endd Observes Surface Water Water Table P Saturation Pre Includes capit	ology indicators: sors (minimum of claster (A1) or Table (A2) (A3) risa (B1) Deposits (B2) eits (B5) or Crust (B4) eits (B5) ol Cracks (B6) 1 Viable on Aerial /egetsted Concavitions: Present? 1	Imagery (87) e Surface (88) fes No fes No	water-Si Yater-Si 1, 2, 4 Sait Crus Aquelic ii Hydroger Oxidized Presence Recent ir Stunied ii Other (E)	aly)  A, end 48)  ((B11)  ((B12)  (CB12)  (CB13)  (CB1	es (B9) (c) ) se (B13) dor (C1) res along d fron (C on in Title Plants (D emarks)	Except ML  Living Ro  4) ad Soils (C  71) (LRR /	S.RA	Water 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raiset Frost-I	Stained, and 48 age Patte seson Wilson Vision Vision Per Waguite Seutral Talant Market Hasse H	Leeves (89 i) kms (810) ster Table ( ble on Aeris osition (D2) and (D3) est (D5) unds (D6) ( ummocks (1	(MLRA 1 C2) Il imagery ( LRR A) D7)
Primary Indicate Surface W High Wata Saturation Water Ma Sediment Drift Depo Algai Mat Iron Depo Surface S Invadation Sparsely \ Field Observir Surface Water Water Table P Saturation Pre Includes capital	ology Indicators: sors (minimum of of stater (A1) stater (A1) strable (A2) (A3) rise (B1) Deposits (B2) ests (B3) or Crust (B4) ests (B5) or Crust (B4) ests (B5) or Crust (B6) or Crust	Imagery (87) e Surface (88) fes No fes No	Mater-Si Water-Si 1, 2, 4 Saft Crus Aquatic li Hydrogen Oxidized Presence Recent ir Stunted to Other (E) Depth (i) Depth (i) Dorpth (ii)	aly) almed Leave A, and 48) (1811) wertebrate Sulfide Or Reduce of Reduce on Reducti or Stressed optain in Re nohes): nohes): photos, pri	es (B9) (e) es (B13) der (C1) mes slong del Iron (C on in Tille Plants (E marks)	Exving Ro 4) It in the second of the second	RA	Water 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raiset Frost-I	Stained, and 48 age Patte seson Wilson Vision Vision Per Waguite Seutral Talant Market Hasse H	Leeves (89 i) kms (810) ster Table ( ble on Aeris osition (D2) and (D3) est (D5) unds (D6) ( ummocks (1	(MLRA 1 C2) Il imagery LRR A)
YDROLOG Wetland Hydr Primary Indica Surface W High Wate Sediment Drift Depo Surface S Innufation Innufation Sparsely Field Observa Surface Water Water Alay Surface S Field Observa S Field Ob	ology indicators: sors (minimum of of stater (A1) sor Table (A2) (A3) rise (B1) Deposits (B2) ests (B3) or Crust (B4) ests (B3) or Crust (B4) ests (B5) i Visible on Aerial Vegetated Concavitions: Present?	Imagery (87) e Surface (88) fes No fes No	Mater-Si Water-Si 1, 2, 4 Saft Crus Aquatic li Hydrogen Oxidized Presence Recent ir Stunted to Other (E) Depth (i) Depth (i) Dorpth (ii)	aly)  A, end 48)  ((B11)  ((B12)  (CB12)  (CB13)  (CB1	es (B9) (e) es (B13) der (C1) mes slong del Iron (C on in Tille Plants (E marks)	Exving Ro 4) It in the second of the second	RA	Water 4A, Draina Dry-Se Satura Geom Shallor FAC-N Raiset Frost-I	Stained, and 48 age Patte seson Wilson Vision Vision Per Waguite Seutral Talant Market Hasse H	Leeves (89 i) kms (810) ster Table ( ble on Aeris osition (D2) and (D3) est (D5) unds (D6) ( ummocks (1	(MLRA 1 C2) Il imagery ( LRR A) D7)

SOIL

Sampling Point: \_\_\_

pleat/Site: S.H.	<u> </u>		ilty/County: )	larusville	Sampling Date: 3-21
picant/Owner:			Ryrodkity.	Steen LUA	Sampling Point DP
estigator(s): Zd	S 1	1 .	Section Township	Range:	E continued Louis
dform (hillslope, terrsce, etc.):		***************************************	end refer (common		Clane (9L):
region (LRR)					
					fication;
Map Unit Name:					
climatic / hydrologic conditions o					/
Vegetation, Soil		-			present? Yes No
Vegetation Soil	or Hydrology	naturally prol	olematic? (If	needed, explain any ansv	wers in Remarks.)
MMARY OF FINDINGS -	Attach site m	ap showing	sampling poin	t locations, transec	ts, important features, e
drophylic Vegetation Present?	Yes	No			
rdric Soil Present?	Yes		is the Samp within a Wel		No
etland Hydrology Present?		No	Within a vier	18007 185	RU
emarks. above	Norma	1 1000	FJI	_	
- agricu		، الحام	J'dild	hm + til	e
GETATION - Use scienti	fic names of				
·····		Absolute	Dominant Indicate		rksheet:
es Stretum (Plot size:			Species? Status	- I LACHEDAL OF PARTITIONS	Species V. or FAC; (A)
				_	
				Total Number of Don Species Across All S	
			= Total Cover	Percent of Dominant That Are OBL, FACV	
olino/Shrub Stratum (Plot size:				Prevalence Index w	
				Total % Cover of	
					x1=
				-	x2=
					x3=
			≈ Total Cover	FACU species	
rb Stratum (Plot size:				7 UPL species	x5*
20 ~~				- Column Totals:	(A) (B
				Bravatanca Ind	ex = B/A =
**************************************				Hydrophytic Vegeta	
				Dominance Test	
			**************************************	Prevalence inde	
				Morphological A	daptations' (Provide supporting
				data in Rema	rics or on a separate sheet)
				Wetland Non-Va	
					rophytic Vegetation (Explain)
				<ul> <li>Indicators of hydric s</li> <li>be present, unless di</li> </ul>	soil and wetland hydrology must sturbed or problematic.
and the Cambridge Page 1			" Total Cover		
cody Vine Stratum (Plot size:				thurses at a	,
				_ Hydrophytic Vegetation	
			Total Cover	Present?	Yes No
Bare Ground in Herb Stratum			, oral (1) 404		

hardle Pagardade			o area were week to a contraction of
		pth needed to document the indicator or confirm	
Depth inches) Co	Metrix stor (moist) %	Redox Features Color (moist) % Type Loc	Texture Remarks
		MINING THE TOTAL	
Zi Zi	>4n2/2		5/y m
		Land of Control of Control of Control	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix,
		I=Reduced Matrix, CS=Covered or Coated Sand Gi II LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
•	iora: (Mphucson io s		
Histosal (A1)	- 44.04	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipado		Stripped Matrix (S6)	Red Parent Material (TF2)
_ Black Histic (A		Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulf		Loamy Gleyed Metrix (F2)	
	w Dark Surface (A11)	Depleted Matrix (F3)	36 . E
Thick Dark Su		Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
Sandy Mucky I		Depleted Dark Surface (F7)	wattend hydrology must be present.
Sandy Gleyed		Redox Depressions (F8)	unless disturbed or problematic.
lestrictive Layer	(if present):		1
Туре:			
Depth (inches):			Hydric Soil Present? Yes No
lemerks:		no ud.	ich 3
		No ird	ich 3
YDROLOGY	y Indicatora:	no id	
VDROLOGY Vetland Hydrolog	-	NO IND.	
VDROLOGY Vetland Hydrolog	(minimum of one requir		Secondary Indicators (2 or more required
VDROLOGY Vettand Hydrolog himary Indicators Surface Water	(minimum of one requir (A1)	nd, check all that apply?	Secondary Indicators (2 or more required
VDROLOGY Vettand Hydrolog himary Indicators Surface Water	(minimum of one requir (A1) ble (A2)	ed. check all that apply)  Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 4B)	Secondary Indicators (2 or more resulted  RA Water-Stained Leaves (89) (MLRA 1
/DROLOGY /ottand Hydrolog /mary Indicators Surface Water High Water Ta Saturation (A3	(minimum of one requir (A1) ble (A2) )	ed, check all that apply)  Water-Salmod Leaves (B9) (except MLI 1, 2, 4A, end 4B) Salt Crust (B11)	Secondary Indicators (2 or more required  RA Water-Steined Leaves (89) (MLRA 1  4A, and 48) Drainage Patterns (810)
YDROLOGY retland Hydrolog rimery Indicators Surface Water Ta High Water Ta Saturation (A3 Water Marks (I	(minimum of one requir (A1) ble (A2) ) B1)	ad, check all that apoly)  Water-Stained Leaves (89) (except ML. 1, 2, 4A, end 48) Sall Crust (811) Aquatic invertebrates (813)	Secondary Indicators (2 or more required  RA
YDROLOGY  Vetland Hydrolog  Immary Indicators  Surface Water  High Water 1a  Saturation (A3  Water Marks (I)  Sediment Dep	(Minimum of one requir (A1) ble (A2) ) B1) oshs (B2)	ed, check all that apply)	Secondary Indicators (2 or more required  RA Water-Stained Leaves (89) (MLPA 1  4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (
/DROLOGY retainst Hydrolog timary Indicase Surface Water High Water Ta Seturation (A3 Water Marks (I) Sediment Deposits :	(Minimum of one requir (A1) ble (A2) ) B1) oshis (B2) (B3)	ed, check all that apply)	Secondary Indicators (2 or more required  RA
/DROLOGY retland Hydrolog rimery Indigetors. Surface Water High Water Ta Seturation (A3 Water Marks (I) Sediment Dep Drift Deposits of Algel Mat or C	Minimum of one requir (A1) ble (A2) ) B1) osits (B2) (B3) rust (B4)	ed_check_eit that apply)	Secondary Indicators (2 or more required  RA
/DROLOGY /ediand flydrolog /mary Indicators. Surface Water High Water Ta Seburation (A3 Water Marks (6 Sediment Dep Drift Deposits ( Algel Mat or C Iron Deposits (	(A1) ble (A2) ) B1) oshis (B2) (B3) rust (B4) B5)	ad, check ell that apoly)  Water-Stained Leaves (89) (except ML. 1, 2, 4A, end 48)  Salt Crust (811)  Aquatic invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidizad Rhizospheres along Living Rot  Presence of Reduction in Tilled Solis (Ct.)	Secondary Indicators (2 or more resulted  RA
FDROLOGY Wedand Hydrolog Wedand Hydrolog Water Surface Water High Water Ta Seturation (A3 Water Marka (I Sediment Dep Drift Deposits ( Algel Mat or C Iron Deposits ( Surface Soil C	- Continuum of one receder (A1) ble (A2) ) B1) B1) points (B2) (B3) racks (B6)	ed, check all that apply)  Water-Stained Leaves (B0) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Rod  Presence of Reduction in Tiled Soits (Cl  Stunied or Stressed Plants (D1) (LRR A	Secondary Indicators (2 or more required  RA
/DROLOGY /retand Hydrolog /mary Indicate / Surface Water High Water Ta Seturation (A3 Water Marks (I) Sediment Deposits (A) // Apple Mart or C Iron Deposits (Iron Iron Iron Iron Iron Iron Iron Iron	- Continimum of one require (A1) ble (A2) ble (A2) B1) B1) B2) (B3) cust (B4) B5) cust (B4) bbie on Aerial Imagery (	nd. check all that apoly)	Secondary Indicators (2 or more required  RA Water-Stained Leaves (99) (MLRA 1  4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) Geomorphic Position (D2) Shallow Aquitant (D3) FAC-Neutral Test (D5)
FOROLOGY Wetland Hydrolog himary Insignators. Surface Water High Water Ta Seturation (AS Water Marks (I) Sediment Deposits ( Iron Deposits ( Iron Deposits ( Iron Markes Oil C Iron Markes Oil C Iron Markes Oil C Inundation Vis Sparsely Vege	- minimum of one requiring (A1) (A1) ble (A2) b) B1) oatis (B2) (B3) rust (B4) B5) racks (B6) ble on Aerial Imagery (tated Concave Surface	nd. check all that apoly)	Secondary Indicators (2 or more required  RA
FOROLOGY Wetland Hydrolog himary Insignators. Surface Water High Water Ta Seturation (AS Water Marks (I) Sediment Deposits ( Iron Deposits ( Iron Deposits ( Iron Markes Oil C Iron Markes Oil C Iron Markes Oil C Inundation Vis Sparsely Vege	- minimum of one requiring (A1) (A1) ble (A2) b) B1) oatis (B2) (B3) rust (B4) B5) racks (B6) ble on Aerial Imagery (tated Concave Surface	ed. check ell that apolly)	Secondary Indicators (2 or more required  RA Water-Stained Leaves (89) (MLRA 1  4A, and 4B)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY Vedand flydrolog rhimary inskators. Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits ( Algal Mat or C Iron Deposits ( Surface Soil C Inundation Vis. Sparsey Vege field Observation	minimum of one required (A1)  ble (A2) )  B1)  beits (B2) (B3)  rust (B4)  B5)  racks (B6) ble on Aerial Imagery ( tated Concaive Surface  s:	ed. check ell that apolly)	Secondary Indicators (2 or more required  RA
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YDROLOGY Vetland flydrolog Vetland flydrolog Surface Water High Water Ta Saturation (A3 Water Marks (I) Sediment Deposits (A) Algel Mat or C Iron Deposits (A) Surface Soil C Invadation Vis Sparsety Vege Teld Observation Furface Water Pre- Veter Table Prese staturation Pressen includes capitary	Intinimum of one reculir (A1) ble (A2) ble (A2) B1) beits (B2) (B3) recks (B6) B6) recks (B6) ble on Aerial Imagery ( taled Concave Surface s: sent? Yes	Ad. check all that apoly)  — Water-Stained Leaves (89) (except ML 1, 2, 4A, and 48) — Salt Crust (811) — Aquatic Invertebrates (813) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres along Living Ros — Presence of Reduced Iron (C4) — Recent Iron Reduction in Titled Soils (C4 — Stunied or Stressed Plents (D1) (LRR A  87) — Other (Explain in Remarks)  No — Bepth (Inches): — No — Depth (Inches): — West	Secondary Indicators (2 or more required  Water-Steined Leaves (89) (MLRA 1  4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Vitolle on Aerial Imagery ( ots (C3) Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
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oject/Site;	SLYN	u_		City/C	ounty:	Ma	~45v.1/e	Sampli	ng Date: _3	-21
dicant/Owner:							State: U	VA Sampli		
estigator(s):	2d S	5e wa	Li	Section	n. Town	ship. Ran	ge:			
dform (Milislope, te	rrace, etc.):			Local	relief (c	Oricave, c	onvex. none).		Slope (9	b):
region (LRR)										
Map Unit Name:								lessification.		
climetic / hydrolog		the site bolical	for this time of w	V		No.		in in Remarks.		
Vegetation							Vormel Circumsta			Ale
Vegetation							eded, explain any			
						•				
MMARY OF F	INDINGS - A	Attach site	map showing	g sam	pling	point le	cations, trans	sects, impo	rtant featu	res, et
ydrophytic Vegetati	ion Present?	Yes	No		la Hea	Sampled	A			
ydric Soil Present?		Yes	No			a Wetlan		s No	./	
letland Hydrology F	resent?	Yes	No						/	
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	agricult	mel 5	· eld	w]	d	- John	4+ +1	ile		
GETATION - I	Use scientific	c names of	plants.				- <b>J</b>	******		*************
			Absolute				Dominance Tes	t worksheet:	<del></del>	******
es Streken (Plot :			% Cove			1	Number of Domi That Are OBL, F.	nant Species		/Ax
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							Total Number of Species Across			/B)
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• • • • • • • • • • • • • • • • • • • •							OBL species	erof:		
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erb Stratum (Plot	size:	)								
CONIN			100	. <del> </del>		101	Column Totals:		A)	(B)
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							Dominance			
							Morphologic		(Provide exer	neline
							data in R	emerice or on a	separate she	rt)
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l							Problematic			
							Indicators of hyd be present, unles	dric soil and we	dand hydrolog	y must
				_ = Tota	I Cover		na breseur mie:	ae mainibed of	PI-OCHE REIC	
oody Vine Stratum			-							
							Hydrophytic Vegetation			/
							Present?	Yes	_ No	
						. ,				
Bare Ground in He	erb Stratum			_= 1011	ii Cover	1				

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>3</sup>Location: PL=Pore Lining, M=Matrix cable to all LRRs, unless otherwise Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ 2 cm Muck (A10) \_\_\_ Histosol (A1) \_\_\_ Sandy Redox (S5) \_\_\_ Stripped Matrix (S6) Histic Epipedon (A2) \_\_\_ Red Parent Material (TF2) \_\_\_ Loamy Mucky Mineral (F1) (except MLRA 1) \_\_\_ Other (Explain in Remarks) Black Histic (A3) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wattand hydrology must be present. unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Hydric Soil Present? Yes Depth (inches): Remarks: No indicators HYDROLOGY Wetland Hydrology Indicators: Primary indicators (minimum of one required, check all that apply). Secondary Indicators (2 or more required) \_\_\_ Water-Stained Leaves (B9) (except MLRA Surface Water (A1) \_\_\_ Water-Stained Leeves (B9) (MLRA 1, 2, 4A, and 48) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) \_\_\_ Dry-Seeson Water Table (C2) \_\_\_ Water Marks (B1) \_\_\_ Aquatic Invertebrates (B13) \_\_\_ Saturation Visible on Aerial Imagery (C9) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots (C3) \_\_\_ Geomorphic Position (D2) Drift Deposits (B3) \_\_\_ Shallow Aquitard (D3) \_\_\_ Aigs! Met or Crust (B4) Presence of Reduced Iron (C4) \_\_\_ FAC-Neutral Test (D5) Iron Deposits (B5) Recent fron Reduction in Tilled Soils (C6) \_\_ Surface Soil Cracks (B6) \_\_\_ Stunied or Stressed 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 (88) Field Observations: Surface Water Present? Water Table Present? Depth (inches): Depth (inches): Saturation Present? (includes capitary fringe)
Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available Remarks: No inductes

% Type Loc Texture

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Interim Version

US Army Corps of Engineers

10/12/1

Western Mountains, Valleys, and Coast - Interim Version

Sampling Point:

### WEYLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: Sewall Section, Township, Range: Landform (hillslope, terrace, etc.): \_\_\_\_ Local relief (concave, convex, none): \_\_\_ Slope (%): \_ Subregion (LRR) Soil Map Unit Name: NWI classification: 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 \_\_\_ Are Vegetation \_\_\_\_\_, Soit \_\_\_\_\_, 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? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? above normal ramfall - agricultual Field w/dithing + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species \_ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Total % Cover of: Multiply by: FACW species ..... \_\_ x3=\_ FAC species \_\_\_\_\_ FACU species . x4= .. ≈ Total Cover Herb Stratum (Plot size: UPL species \_\_\_\_x5=\_\_\_ CONK Column Totals: \_\_\_\_\_(A) Prevalence Index = B/A = . Hydrophytic Vegetation Indicators \_\_ Dominance Yest is >50% Prevalence Index is \$3.0 Morphotogical Adaptations (Provide supporting data in Remarks or on a securate sheet) Wetland Non-Vescular Plants<sup>1</sup> Problematic Hydrophytic Vegetation1 (Explain) <sup>1</sup>Indicators of hydric soil and watland hydrology must be present, unless disturbed or problematic. . # Total Cover Woody Vine Stratum (Plot size: Hydrophytic Vegetation \_\_\_\_ = Total Cover % Bare Ground in Herb Stratum

Type: C-Concentration, D-Depletion, RM-Raduced Matrix, CS-Covered or Costed Sand Grains   Type: C-Concentration, D-Depletion, RM-Raduced Matrix, CS-Covered or Costed Sand Grains   Type: C-Concentration, D-Depletion, RM-Raduced Matrix, CS-Covered or Costed Sand Grains   Type: C-Concentration		Texture Remarks	Color (moist) % Type Loc	(inches) Color (moist) %
Type: C-Concentration, D-Desietion, RM-Reduced Matrix, CS-Covered or Ceated Sand Grains  **Location: PL=Pore Lining ritydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histoso (A)		10in		8 10 m 2/1
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains.  7-Location: PL-Pore Lining Hydric Soil Indicators: (Applicable te all LRRs, unless otherwise noted.)  1-Histoco (A1)		754		10 104N313
hydric Soil Indicators: (Applicable te all LRRs, unless otherwise noted.)  Histosol (A1)  Halto Epipedon (A2)  Stepted Matrix (SS)  Steck Histo: (A3)  Loamy Mucky Mineral (F1) (except MLRA 1)  Depleted Selow Derk Stufface (A1)  Depleted Selow Derk Stufface (A1)  Sandy Mucky Mineral (F2)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  *Indicators of hydrophytic veget water on hydrophytic veget water of hydrophytic veget water of hydrophytic veget water (F8)  Restrictive Layer (if present):  Type:  Depth (inches):  Prinser Indicators (Intimum of one required; check at that sophy)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Aquatic Invertebrates (B13)  Drainage Patterns (B10)  Sediment Deposits (B2)  Hydropen Sutfide Odor (C1)  Surface Soil Cracks (B6)  Involated or Stressed Plents (D1) (LRR A)  Raised Ant Mounts (D8  Final Observations:  Surface Soil Cracks (B6)  Involation Visible on Aerial Imagery (B7)  Spaturation Vester or Aerial Imagery (B7)  Spaturation Present?  Yes  No  Depth (inches):  Wetternation Present?  Yes  No  Depth (inches):  Wetternation Present?  Yes  No  Depth (inches):  Wetternations  Wetternation Present?  Yes  No  Depth (inches):  Wetternations  Wetterna		/m	Saly	14 104212
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Stepped Matrix (S8)  Seleck Histor (A3)  Hydrogen Sutfice (A4)  Loamy Mucky Mineral (F1) (except MLRA 1)  Depleted Selecw Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Peace of Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Sandy Regoved Matrix (S4)  Redox Depressions (F8)  Wetlend hydrology must be ;  unless disturbed or problem  Nestrictive Layer (if present):  Type:  Depth (inches):  Hydric Soil Present? Yes  Water-Stained Leaves (B9) (except MLRA  High Water Table (A2)  1, 2, 4A, and 4B)  4A, and 4B)  Drainage Patterns (B10)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Sulface Water (A1)  Agail Met or Grust (B4)  Iron Deposits (B3)  Agail Met or Grust (B4)  Iron Deposits (B6)  Resent from Reduction in Tilled Soils (C6)  Shallow Aquitand (D3)  Spurface Soil Cracks (B8)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Wetland Hydrology Present? Yes  No Depth (inches):  Wetland Hydrology Present? Yes  No Depth (inches):  Wetland Hydrology Present? Yes  Saturation Present? Yes  No Depth (inches):  Wetland Hydrology Present? Yes  Saturation Present? Yes  No Depth (inches):  Describe Rescorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.				
hydric Solf Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10)  Histosol (A1) Surped Matrix (S8) Red Perent Material (F7)  Steck Histo: (A3) Loamy Mucky Mineral (F1) (except MLRA 1)  Depleted Selow Derk Surface (A11)  Thick Derk Surface (A12) Perent Matrix (S8)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F8)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F7)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F8)  Sandy Gleyd Matrix (S4) Redox Depressions (F8)  Indicators of hydrophytic veget wattend hydrology must be received to the surface (F7) and surface (F7)  Sandy Gleyd Matrix (S4) Redox Depressions (F8)  Indicators of hydrophytic veget wattend hydrology must be received for problem testrictive Layer (if present):  Type:  Depth (inches):  VPROLOGY  Nestend Hydrology Indicators:  Hydric Solf Present? Yes Matrix (S4)  High Water (A1) Water-Stained Leaves (B9) (except MLRA 4A, and 4B)  High Water Table (A2) 1, 2, 4A, and 4B)  Sufface Water (A1) Aquatic Invertebrates (B13) Drainage Patterns (B10)  Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10)  Drift Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Assistantion			And the second s	
hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Surpod Matrix (S8) Red Perent Material (F7) Steck Histo: (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Derk Surface (F8) Sandy Mucky Mineral (S1) Depleted Dark Surface (F8) Sandy Mucky Mineral (S1) Depleted Dark Surface (F8) Sandy Mucky Mineral (S1) Depleted Dark Surface (F8) Sandy Gleyed Matrix (S4) Redox Derk Surface (F7) Sandy Gleyed Matrix (S4) Redox Derk Surface (F8) Indicators of hydrophytic veget wattend hydrology must be a unless disturbed or problem testrictive Layer (if present): Type: Depth (inches):  VPROLOGY Vestand Hydrology Indicators: Intervinded Causes (R9) (except MLRA (A, and 48) (except MLRA (A				
hydric Solf Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10)  Histosol (A1) Surped Matrix (S8) Red Perent Material (F7)  Steck Histo: (A3) Loamy Mucky Mineral (F1) (except MLRA 1)  Depleted Selow Derk Surface (A11)  Thick Derk Surface (A12) Perent Matrix (S8)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F8)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F7)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F8)  Sandy Gleyd Matrix (S4) Redox Depressions (F8)  Indicators of hydrophytic veget wattend hydrology must be received to the surface (F7) and surface (F7)  Sandy Gleyd Matrix (S4) Redox Depressions (F8)  Indicators of hydrophytic veget wattend hydrology must be received for problem testrictive Layer (if present):  Type:  Depth (inches):  VPROLOGY  Nestend Hydrology Indicators:  Hydric Solf Present? Yes Matrix (S4)  High Water (A1) Water-Stained Leaves (B9) (except MLRA 4A, and 4B)  High Water Table (A2) 1, 2, 4A, and 4B)  Sufface Water (A1) Aquatic Invertebrates (B13) Drainage Patterns (B10)  Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10)  Drift Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Assistantion				Management of the control of the con
hydric Solf Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10)  Histosol (A1) Surped Matrix (S8) Red Perent Material (F7)  Steck Histo: (A3) Loamy Mucky Mineral (F1) (except MLRA 1)  Depleted Selow Derk Surface (A11)  Thick Derk Surface (A12) Perent Matrix (S8)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F8)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F7)  Sandy Mucky Mineral (S1) Depleted Derk Surface (F8)  Sandy Gleyd Matrix (S4) Redox Depressions (F8)  Indicators of hydrophytic veget wattend hydrology must be received to the surface (F7) and surface (F7)  Sandy Gleyd Matrix (S4) Redox Depressions (F8)  Indicators of hydrophytic veget wattend hydrology must be received for problem testrictive Layer (if present):  Type:  Depth (inches):  VPROLOGY  Nestend Hydrology Indicators:  Hydric Solf Present? Yes Matrix (S4)  High Water (A1) Water-Stained Leaves (B9) (except MLRA 4A, and 4B)  High Water Table (A2) 1, 2, 4A, and 4B)  Sufface Water (A1) Aquatic Invertebrates (B13) Drainage Patterns (B10)  Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10)  Drift Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Assistantion				
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histo Epipedon (A2) Stripped Matrix (S8) Red Parent Material (TF2) Steck Histor (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks Hydrogen Suffice (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) "Indicators of hydrophytic veget watland hydrology must be a unless disturbed or problem bestrictive Layer (if present): Type: Depth (inches): D				
Histic Epipedon (A2) Stripped Matrix (S5) Bleck Histic (A3) Loamy Micky Mineral (F1) (except MLRA 1) Defice (Explain in Remarks Hydrogen Sulfide (A4) Depleted Below Derk Surface (A11) Depleted Metrix (F3) Thick Derk Surface (A12) Redox Derk Surface (F5) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Derk Surface (F7) Western (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F6) Wastern (F7) Western (F7) Wes	ydric Soils':	Indicators for Problematic Hydric		
Steck Histic (A3)				
Hydrogen Sutifice (A4)  Depleted Metrix (F2)  Depleted Selow Derit Surface (A11)  Depleted Metrix (F3)  Thick Derit Surface (A12)  Sandy Mucky Mineral (S1)  Sendy Mucky Mineral (S1)  Sendy Gleyed Matrix (S4)  Redox Depressions (F8)  Redox Depressions (F8)  Wetland Hydrology must be if unless disturbed or problem bestrictive Layer (if present):  Type:  Depth (inches):  Depth (inches):  Secondary Indicators (minerum of one required; check all thet apply)  Settler (A2)  Surface Water (A1)  High Water Table (A2)  Settler Marks (B1)  Settler Marks (B1)  Settler Marks (B1)  Depth (proposition (B2)  Dirit Depositis (B3)  Algal Met or Crust (B4)  Fresence of Reduced Iron (C4)  Surface (B6)  Surface (B6)  Surface (B6)  Surface (B6)  Surface (B6)  Fresence of Reduced Iron (C4)  Spansely Vegetated Concave Surface (B9)  Frost-Heave Hummocks  Depth (inches):  Surface (B6)  Surface (B6)  Frost-Heave Hummocks  Frost-Heave Hummocks  Wetland Hydrology Present? Yes No Depth (inches):  Settler Table Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Settler Table Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  W				
Depleted Below Derk Surface (A11) Depleted Metitix (F3) Thick Derk Surface (A12) Redox Derk Surface (F5) Sandy Mucky Mineral (S1) Depleted Derk Surface (F7) Wetland (S1) Depleted Derk Surface (F7) Wetland (S4) Redox Depressions (F8) Wetland hydrology must be a unless disturbed or problem testrictive Layer (if present): Type: Depth (inches): Wetland hydrology andicetora: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Steined Leaves (B9) (except MLRA Water-Steined Leaves (H9) (except MLRA High Water Table (A2) Saturation (A3) Set Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (S2) Drift Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Ae Drift Deposits (B3) Recent from Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Intro Deposits (B6) Recent from Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Spurface Soil Cracks (B6) Stunded or Stressed Plents (D1) (LRR A) Raised Ant Minunds (D6) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Wetland Hydrology Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):	4	Other (Explain in Remarks)		
Thick Dark Surface (A12) Redox Deth Surface (F6) *Indicators of hydrophytic veget Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be ; sondy Gleyed Matrix (S4) Redox Depressions (F6) unless disturbed or problem testrictive Layer (if present):  Type:  Depth (inches):  WPDROLOGY  *VEROLOGY  *Vestand Hydrology Indicators:  **Injury Indicators (minimum of one required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 4A, and 4B)  High Water Table (A2) 1, 2, 4A, and 4B)  Water Marks (B1) Aquatic invertebrates (B13) Drainage Patterns (B10)  Drift Deposits (B3) Dark (B11) Drainage Patterns (B10)  Algal Met or Crust (B4) Present (C4) Present (C4) Saturation Visible on Aquatic Invertebrates (B10)  Iron Deposits (B3) Chalded Rhizosphemes along Living Roots (C3) Geomorphic Position (D Sturled or Stressed Plents (D1) (LRR A) Raised Ant Mounts (D6)  Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)  Prosent (C5) Proc. Heaver Hummocks  Sparsoly Vegetated Concave Surface (B8)  Isld Observatione:  Vester Table Present? Yes No Depth (inches):  Veste				
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetlend hydrology must be runless disturbed or problem bestrictive Layer (if present):  Type: Depth (inches): Depth (inche				
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problem testrictive Layer (if present):  Type: Depth (Inches): Hydric Soli Present? Yes  Nemarks:  VPROLOGY  Welsend Prydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Suturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Secondary Indicators (2 or 0 Water-Steined Leaves (B9) (except MLRA 4A, and 4B) Orainage Patterns (B10) Drainage Patterns (B10) Sediment Deposits (B2) Hydrogen Suffide Odor (C1) Saturation Visible on Ae Algel Met or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquator (O3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C5) Surface Soil Cracks (B6) Iron Deposits (B5) Surface Soil Cracks (B6) Iron Deposits (B5) Surface Soil Cracks (B6) Iron Deposits (B7) Other (Explain in Remarks) Prost-Heave Hummocks				
Pythology  Word Solf Present? Yes  Internates:  Word (inches):  Westernates:  Word (inches):  Westernates:  Word (inches):  Wo		wetland hydrology must be pres		
Type: Depth (inches):	iatic.	unless disturbed or problematic	Redox Depressions (F8)	
PROLOGY  Wetland Hydrology Indicators:  **Imparv Indicators (minimum of one required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Set Crust (B11)  Sediment Deposits (B2)  Dirit Deposits (B3)  Aquatic invertebrates (B13)  Dirit Deposits (B3)  Algel Met or Crust (B4)  Fresence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent from Reduction in Tilled Soils (C5)  FAC-Neutral Test (D5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Fresence of Plants (D1) (LRR A)  Raised Ant Minunds (D6  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydro				• • •
/DROLOGY  Notified Hydrology Indicators:  Interv Indicators (Intimum of one required, check all that apply)  Surface Water (A1)  Surface Water (A1)  High Water Table (A2)  Sultrace Water (A1)  Water-Steined Leaves (B9) (except MLRA  High Water Table (A2)  Sultrace (B1)  Water Marks (B1)  Water Marks (B1)  Aquatic Invertebrates (B13)  DriP Deposits (B2)  DriP Deposits (B3)  Algel Mat or Crust (B4)  Presence of Reduced fron (C4)  Iron Deposits (B3)  Sulface Soil Cracks (B6)  Recent fron Reduction in Tilled Soils (C5)  FAC-Neutral Test (D5)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Frost-Heave Hummocks  Spansely Vegetated Concave Surface (B8)  Isid Observations:  unface Water Present?  Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Present P			<b></b>	Туре:
// Vesters Hydrology Indicators: // Indiany Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or n // Impary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B1)  Water Stahed Leaves (B9) (except MLRA  Water-Stahed Leaves (B4, and 4B)  Aquatic Invertebrates (B13)  Sediment Deposits (B1)  Sediment Deposits (B2)  Drift Deposits (B2)  Drift Deposits (B3)  Oxidized Rhizospherae along Living Roots (C3)  Algat Met or Crust (B4)  Presence of Reduced Iron (C4)  Sinuface Soil Cracks (B6)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Spansely Vegetated Concave Surface (B8)  India Observations:  urface Water Present?  Yes No Depth (inches):  Vester Table Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present Yes No Dept	No	Hydric Soil Present? Yes		Depth (inches):
Interv Indicators (minimum of one required: check all that apoly)  Surface Water (A1)  Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B)  Seturation (A3)  Set Crist (B11)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Augustic Invertebrates (B13)  Drift Deposits (B3)  Algel Met or Crust (B4)  Iron Deposits (B5)  Recent fron Reduction in Tilled Soils (C6)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Spansely Vegetated Concave Surface (B8)  leid Observations:  under Table Present?  Yes No Depth (inches):  wetland Hydrology Present?  Yes No Depth (inches):  wetland Hydrology Present?  Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Depth (inches):  wetland Hydrology Present? Yes No Present Pre				
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High Water Table (A2)  Seturation (A3)  Seti Crust (B11)  Seturation (A3)  Seti Crust (B11)  Seti Crust (B13)  Drainage Patterns (B10)  Setimation Versite Code (C1)  Setimation Visible on Assistance (B1)  Inundation Visible on Aerial Imagery (B7)  Separately Vegetated Concave Surface (B8)  Inundation Visible on Aerial Imagery (B7)  Separately Vegetated Concave Surface (B8)  Inundation Visible on Aerial Imagery (B7)  Separately Vegetated Concave Surface (B8)  Inundation Visible on Aerial Imagery (B7)  Separately Vegetated Concave Surface (B8)  Inundation Visible on Aerial Imagery (B7)  Depth (inches):  Veter Table Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  Includes capitally fringe)  Wetland Hydrology Present? Yes  Includes capitally fringe)  Includes Capital Cap				
Saturation (A3) Sati Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table Drift Deposits (B2) Dry-Season Water Table Presence of Reduced Iron (C4) Saturation Visible on Ae Jaget Met or Crust (B4) Presence of Reduced Iron (C4) Saturation (D3) Iron Deposits (B5) Recent Iron Reduction in Titled Soils (C5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Stunted or Stressed Pfants (D1) (LRR A) Raised Ant Mounds (D6 Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks Uniface Water Present? Ves No Depth (inches): Valet Table Present? Ves No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):				
Water Marks (B1)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B3)  Drift Deposits (B3)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D  Algel Met or Crust (B4)  Fresence of Reduced Iron (C4)  Shaflow Aquistrd (D3)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Stunted or Stressed Plants (D1) (LRR A)  Raised Ant Mounds (D6  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Frost-Heave Hummocks  Sparsely Vegletated Concave Surface (B8)  Islid Observations:  Furface Water Present?  Yes  No  Depth (Inches):  Veter Table Present?  Yes  No  Depth (inches):  Wetland Hydrology Present?  Yes  No  Depth (inches):  Vescribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	(mm) factors at a s	4A, 200 45)	Water-Stained Leaves (B9) (except MLR	Surface Water (A1)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Ae Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D Algal Met or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C5) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6 Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks Sparsely Vegetated Concave Surface (B8) Indid Observations: Indid Observations: Veter Table Present? Yes No Depth (Inches): Seturation Present? Yes No Depth (Inches): Wetland Hydrology Present? Yes No Depth (Inches): Securibe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:			Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 48)	Surface Water (A1) High Water Table (A2)
Drift Depoelts (B3) Chiddzed Rhizospheres along Living Roots (C3) Geomorphic Position (D Algal Met or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Depoelts (B5) Recent Iron Reduction in Tilled Solis (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Sturface Soil Cracks (B6) Sturface or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6 Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks Sparrasely Vegetated Concave Surface (B8) Ield Observations: urface Whater Present? Yes No Depth (inches): valer Table Present? Yes No Depth (inches): where Table Present? Yes No Depth (inches): white Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes Secribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available.	)	Drainage Patterns (B10)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11)	Surface Water (A1) High Water Table (A2) Saturation (A3)
Algel Met or Crust (84) Presence of Reduced Iron (C4) Shallow Aquatard (D3) Iron Deposits (B6) Recent fron Reduction in Tilled Soils (C5) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plents (D1) (LRR A) Raised Ant Mounds (D6 inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks Surface (B8) Isled Observations: urface Water Present? Yes No Depth (inches): Valer Table Present? Yes No Depth (inches): Wetland Hydrology Present?	)) le (C2)	Dry-Sesson Water Table (C	Water-Slained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic invertebrates (B13)	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)
iron Deposits (BG) Recent fron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6 inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks Spansely Vegetated Concave Surface (88) ield Observations: unface Water Present? Yes No Depth (inches): valuer Table Present? Yes No Depth (inches): sturation Present? Yes No Depth (inches): where Table Present? Yes No Depth (inches):	i) le (C2) mal imagery (	Dry-Season Water Table (C Saturation Visible on Aerial	Water-Slained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic invertebrates (B13)	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6 inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D6 inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D6 inundation Remarks) Frost-Heave Hummocks (D6 inundation Remarks) Frost-Heave Hummocks (D7 inundation Remarks) Frost-Heave Hummocks (D7 inundation Remarks) Frost-Heave Hummocks (D7 inundation Remarks) Frost-Heave Hummocks (D8 inundation Remarks) Frost-Heave Hummocks (D7 inundation Remarks) Frost-Heave Hummocks (D8 inundation Remar	i) le (C2) mal imagery (	Dry-Season Water Table (C Saturation Visible on Aerial	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 4B) Selt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)
Inundation Visible on Aerial Imagery (87) Other (Explain in Remarks) Frost-Heave Hummocks Sparsely Vegetated Concave Surface (88)  Islad Observations: urface Whiter Present? Yes No Depth (inches): Valer Table Present? Yes No Depth (inches): shuration Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): white Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Pepth (inches): Wetland Hydrology Present? Yes No Pepth (inches):	i) le (C2) mal imagery (	Dry-Season Water Table (C Saturation Visible on Aerial s (C3) Geomorphic Position (D2)	Water-Steined Lesses (B9) (except MLR 1, 2, 4A, and 4B) Self Crust (B11) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drik Deposits (B3)
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Smills Beaudation. (Basedha to the death gooded to decreased the indicator as conflict the absence of indicators )

SOIL.

Sampling Point: \_\_

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site Section, Township, Range investigators) Landform (hillstope, terrace, etc.): \_ Local relief (concave, convex, none): Slope (%): \_ Subregion #LRR1: Soil Man Unit Name MWA classification: Are climetic / hydrologic conditions on the site typical for this time of year? Yes \_\_ No (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soft \_\_\_\_\_ or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_ Are Vegetation , Soit , 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. Fiverpotytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? above normal rainfall - agricultual Field wildstohm + tile VEGETATION - Use scientific names of plants. olube Cominent Indicator Dominance Test worksheet: Tree Strakem (Plot size: % Cover Species? Status Number of Commant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species ■ Total Cover That Are OBL, FACW, or FAC: Septimo/Shrub Stratum (Plot size: Prevalence index worksheet: Total % Cover of: OBL species x1= FACW species FAC species = Total Cover FACU species \_\_\_\_ Herb Stratum (Plot size UPL species Con Column Totals: Prevalence Index = B/A = . Hydrophytic Vegetation Indicators: \_ Dominance Test is >50% Prevalence Index is s3.0 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Woody Vine Stratum (Plot size: \* Total Cover % Bare Ground in Herb Stratum

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) \_\_\_ 2 cm Muck (A10) Histosol (A1) \_\_ Sandy Redox (S5) \_\_\_ Red Parent Material (TF2) \_\_\_ Stripped Matrix (S6) Histic Epipadon (A2) Loamy Mucky Mineral (F1) (except MLRA 1) \_\_\_ Other (Explain in Remarks) Riger Histic (A3) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Suiface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) indicators of hydrophytic vegetation and Thick Dark Surface (A12) Depleted Dark Surface (F7) wetland hydrology must be present. Sandy Mucky Mineral (81) Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type: Hydric Soil Present? Yes Depth (inches): HYDROLOGY Wetland Hydrology Indicators: Secondary indicators (2 or more required) Primary indicators (minimum of one required; check all that apply) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (89) (MLRA 1, 2, Surface Water (A1) High Water Table (A2) 1, 2, 4A, and 4B) 4A, and 4B) Drainage Patterns (B10) Salt Crust (B11) Saturation (A3) \_\_\_ Aquatic Invertebrates (B13) \_\_\_ Dry-Seeson Water Table (C2) Water Marks (B1) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Drift Deposits (B3) Aigal Met or Crust (84) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (86) Recent fron Reduction in Titled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed 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 Venetated Concave Surface (B8) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_\_Depth (inches); Saturation Present? (includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, seriel photos, previous inspections), if available Remarks: to be munitions

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Redox Features
Color (mount) % Type

From For Fout

SOIL

Matrix Color (moist)

10-12 2/2

Sampling Point:

# WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: Applicant/Owner: Sewall Section, Township, Range: \_\_ Local relief (concave, convex, none): \_\_ Landform (hillslope, terrace, etc.): \_\_ Subregion (LRR) Are climatic / hydrotogic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) 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? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? above vormal rainfall - agricultual Field w/difthing + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator % Cover Species? Status Irea Stratum (Plot size: Number of Dominant Species That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species \* Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: \_ x2=\_ FACW species FAC species \_\_ x3 = \_. FACU species \_\_\_\_\_ x 4 = \_\_\_ = Total Cover Herb Stratum (Plot size: UPL species \_\_\_\_\_ x5 = \_\_ 1. Com Column Totals: \_\_\_\_\_(A) Prevalence Index = B/A = \_\_ Hydrophytic Vegetation Indicators: \_\_\_ Dominance Test is >50% Prevalence Index is \$3.0° \_\_ Morphological Adaptations (Provide supporting data in Remerks or on a separate sheet) Wetland Non-Vescular Plants' \_\_ Problematic Hydrophytic Vegetation¹ (Explain) <sup>1</sup>Indicators of hydric soil and wetlend hydrology must be present, unless disturbed or problematic. # Total Cover Woody Vine Stratum (Plot size: ▼ Total Cover % Bare Ground in Herb Stratum

inches) Color (moist) %	Color (moist) %	Type.	Loc	Texture	Remarks
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Type: C=Concentration, D=Depletion, RI	Andread Market Conference		. e e		cation: PL=Pore Lining, M=Matrix,
lydric Solf Indicators: (Applicable to a			John Gr		rs for Problematic Hydric Soils:
Histosol (A1)	Sandy Redox (S5)	,		2 cr	n Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)				Perent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1		MLRA 1)	Oth	er (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2	2)			
Depleted Below Dark Surface (A11)	Depleted Matrix (F3) Redox Dark Surface (F6)			Madiente	ors of hydrophytic vegetation and
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depleted Dark Surface (F				and hydrology must be present.
Sendy Gleyed Matrix (S4)	Redox Depressions (F8)	.,			is disturbed or problematic.
testrictive Layer (if present):				T	
Type:				l	
Depth (inches):				Hydric Soil	Present? Yes No
Remarks:	THE RESERVE OF THE PARTY OF THE			L	
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YDROLOGY		~ 	16.00		<i></i>
YDROLOGY Vetland Hydrology Indicators:		~ 	1 1		ndary indicators (2 or more required
YDROLOGY Netland Hydrology Indicators: https:// indicators (minimum of one requir	ed, check aff that apply)			\$400	
YDROLOGY Vetland Hydrology Indicators:		ps (B9) (ex		\$400	ndery indicators (2 or more resulted
YDROLOGY Welland Hydrology Indicators: Primery Indicators (minimum of one requi Surface Water (A1)	ed, check eff that apply) Water-Stelhed Leav	ps (B9) (ex		\$ecc	ndery indicators (2 or more resulted
YDROLOGY  Fettland Hydrology Indicators:  Phinery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2)	ed, check off that apphy) Water-Stahed Leav 1, 2, 4A, and 4B	ps (89) (ex		\$ess	ndary indicalors (2 or more required Vater-Stained Leavee (89) (MLRA 1 4A, and 4B)
YDROLOGY Welland Hydrology Indicators: "https://tokscy.com/infrum.of.gne.requir Surface Water (A1) High Water Table (A2) Seturation (A3)	ed, check eff that apphy)  Water-Stahed Leav  1, 2, 4A, and 48  Saft Crust (B11)	res (189) (ex ) ne (1813)		Secondary V	ndary indicators (2 or more required Vater-Stained Leaves (89) (MLRA 1 4A, and 4B) trainage Patierra (810) ny-Seeson Water Table (C2) taturation Visible on Aerial Imagery (
YDROLOGY  Weband Mydrology Indicators:  **Primery indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  **Saturation (A3)  Water Marks (B1)	ed: check aff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B Saft Crust (B11) Aquatic Invertebrate	ss (89) (ex ) ns (813) dor (C1)	cept MLF	Sego VA V C S ts (C3) C	ndary indicators (2 or more required Vater-Stained Leaves (89) (MLRA 1 4A, and 4B) trainage Patierra (810) bry-Seeson Water Table (C2) saturation Visible on Aerial Imagery (Secreophile Position (D2)
YDROLOGY Welland Hydrology Indicators: "https://tribex/unicators.tminimum of one required Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ed. check eff that apphy)  Water-Stahed Leav  1, 2, 4A, and 48  Saft Crust (B11)  Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	res (B9) (ex ) is (B13) dor (C1) ires along L ad Iron (C4)	icept MLF	Secondary V	ndary indicalors (2 or more resulted Vater-Stained Leaves (89) (MLRA 1 4A, and 48) brainage Patterns (810) hy-Season Water Table (C2) sturation Visible on Aerial Imagery (securation Visible Position (D2) shellow Aquitard (D3)
YDROLOGY Netland Hydrology Indicatora: Primery indicators (minimum of one requirement of the control of the con	ed; check all that apply)  Water-Stahed Leav  1, 2, 4A, and 4B;  Salt Crust (B11)  Aquatic Invertebrate  Hydrogen Sulfide Or  Oxidized Rhizosphe  Presence of Reduce  Recent fron Reduct	es (B9) (ex ) es (B13) dor (C1) eres along L ad Iron (C4) ion in Tilled	icept MLF	Secondary C	ndary Indicators (2 or more required Vater-Stained Leaves (B9) (MLPA 1 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (secretary) (D2) indicators (D3) AC-Neutral Test (D5)
YDROLOGY  Wettland Hydrology Indicators:  "Interev Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	ed. check aff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B; Salf Crust (811) Aquatic Invertebrate Hydrogen Suffee Or Oxidized Rhizosphe Presence of Reduce Racent fron Reducti Stunled or Stressed	es (B9) (ex ) es (B13) dor (C1) eres along L dd fron (C4) ion in Tilled Plents (D1	icept MLF	Second VA V V Second VA Second V	ndary Indicators (2.or more required Vater-Statned Leaves (89) (MLRA 1 4A, and 4B) trainage Patterns (810) hy-Seeson Water Table (C2) saturation Visible on Aerial Imagery (Secrophic Position (O2) theflow Aquitard (O3) (AC-Noutral Test (D5) Izaised Ant Mounds (D6) (LRR A)
YDROLOGY  Westland Hydrology Indicators:  httnerv indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Cruz (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (	ed. check eff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B Saft Crust (B11) Aquatic Invertebrate Hydrogen Suffee Or Oxidized Rhizosphe Presence of Reduce Recent fron Reduct Stunted or Stressed B7) Other (Explain in Re	es (B9) (ex ) es (B13) dor (C1) eres along L dd fron (C4) ion in Tilled Plents (D1	icept MLF	Second VA V V Second VA Second V	ndary Indicators (2 or more required Vater-Stained Leaves (B9) (MLPA 1 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (secretary) (D2) indicators (D3) AC-Neutral Test (D5)
YDROLOGY Wethand Hydrology Indicators: hytmany Indicators (minimum of one required for the control of the contr	ed. check eff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B Saft Crust (B11) Aquatic Invertebrate Hydrogen Suffee Or Oxidized Rhizosphe Presence of Reduce Recent fron Reduct Stunted or Stressed B7) Other (Explain in Re	es (B9) (ex ) es (B13) dor (C1) eres along L dd fron (C4) ion in Tilled Plents (D1	icept MLF	Second VA V V Second VA Second V	ndary Indicators (2.or more required Vater-Statned Leaves (89) (MLRA 1 4A, and 4B) trainage Patterns (810) hy-Seeson Water Table (C2) saturation Visible on Aerial Imagery (Secrophic Position (O2) theflow Aquitard (O3) (AC-Noutral Test (D5) Izaised Ant Mounds (D6) (LRR A)
YDROLOGY Wettand Hydrology Indicators: https://indicators/minery.i	ed. check eff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B; Salt Crust (811) Aquatic Invertebrate Hydrogen Sulfide Or Oxidized Rhizosphe Presence of Reduce Recent fron Reducti Stunted or Stressed 87) Other (Expisin in Re	es (B9) (ex ) es (B13) dor (C1) eres along L dd fron (C4) ion in Tilled Plents (D1	icept MLF	Second VA V V Second VA Second V	ndary Indicators (2.or more required Vater-Statned Leaves (89) (MLRA 1 4A, and 4B) trainage Patterns (810) hy-Seeson Water Table (C2) saturation Visible on Aerial Imagery (Secrophic Position (O2) theflow Aquitard (O3) (AC-Noutral Test (D5) Izaised Ant Mounds (D6) (LRR A)
YDROLOGY  Westland Hydrology Indicators:  Primery Indicators (minimum of one required to the control of the con	witcheck eff that apphy)  Water-Stahed Leav 1, 2, 4A, and 4B, Salt Crust (811) Aquatic Invertebrate Hydrogen Suffee Or Oxidized Rhizosphe Presence of Reduce Recent fron Reduce Stunted or Stressed B7) Other (Explain in Re	es (B9) (ex ) is (B13) dor (C1) dor (C1) ad iron (C4) don in Tilled ion in Tilled Plants (D1 marks)	iving Roo ) Solls (C6	Second VA V V Second VA Second V	ndary Indicators (2.or more required Vater-Statned Leaves (89) (MLRA 1 4A, and 4B) trainage Patterns (810) hy-Seeson Water Table (C2) saturation Visible on Aerial Imagery (Secrophic Position (O2) theflow Aquitard (O3) (AC-Noutral Test (D5) Izaised Ant Mounds (D6) (LRR A)
YDROLOGY  Fetiland Hydrology Indicators:  Primery Indicators (minimum of one requir  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 Imagery (  Sparsely Vegetated Concave Surface (Feld Observations:  Surface Water Present? Yes  Water Table Present? Yes	wind check eff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B Salt Crust (B1) Aquatic invertebrate Hydrogen Suffee Or Oxidized Rhizosphe Presence of Reduce Recent fron Reduce Stunded or Stressed B7) Other (Explain in Re (B8) No Depth (inches): No Depth (inches):	es (B9) (ex ) is (B13) dor (C1) dor (C1) ad iron (C4) don in Tilled ion in Tilled Plants (D1 marks)	iving Roc ) Solia (C6	Second V	ndary indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) trainage Patterns (B10) (by-Seeson Water Table (C2) staturation Visible on Aerial Imagery (Secrnorphic Position (D2) indicon Aquitard (D3) (AC-Neutral Test (D5) Laised Ant Mounds (D6) (LRR A) inost-Heave Hummocks (D7)
YDROLOGY  Westland Hydrology Indicators:  Primery Indicators (minimum of one required to the control of the con	wind check eff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebrate Hydrogen Suffee Or Oxidized Rhizosphe Presence of Reduce Recent fron Reduce Stunted or Stressed B7) Other (Explain in Re (B8) No Depth (inches): No Depth (inches):	se (B9) (ex ) is (B13) dor (C1) ires along I dd Iron (C4) on in Tilled Plants (D1 smarks)	iving Roo )   Soils (C6  ) (LRR A)	Second   V	ndary Indicators (2.or more required Vater-Statned Leaves (89) (MLRA 1 4A, and 4B) trainage Patterns (810) hy-Seeson Water Table (C2) saturation Visible on Aerial Imagery (Secrophic Position (O2) theflow Aquitard (O3) (AC-Noutral Test (D5) Izaised Ant Mounds (D6) (LRR A)
YDROLOGY  Welland Hydrology Indicators:  **himsex indicators (minimum of one required for the control of the co	wind check eff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebrate Hydrogen Suffee Or Oxidized Rhizosphe Presence of Reduce Recent fron Reduce Stunted or Stressed B7) Other (Explain in Re (B8) No Depth (inches): No Depth (inches):	se (B9) (ex ) is (B13) dor (C1) ires along I dd Iron (C4) on in Tilled Plants (D1 smarks)	iving Roo )   Soils (C6  ) (LRR A)	Second   V	ndary indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) trainage Patterns (B10) (by-Seeson Water Table (C2) staturation Visible on Aerial Imagery (Secrnorphic Position (D2) indicon Aquitard (D3) (AC-Neutral Test (D5) Laised Ant Mounds (D6) (LRR A) inost-Heave Hummocks (D7)
YDROLOGY  Fetiland Hydrology Indicators:  Primery Indicators (minimum of one requir  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 Imagery (  Sparsely Vegetated Concave Surface (Id4) Observations:  Surface Water Present?  Ves  Saturation Present?  Ves  Saturation Present?  Yes  Saturation Present?	ed. check eff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B, Salt Crust (811) Aquatic Invertebrate Hydrogen Suffee Or Osalized Rhizosphe Presence of Reduce Recent fron Reduce Stunted or Stressed Stunied or Stressed Other (Explain in Re (88)  No Depth (inches): No Depth (inches): No Depth (inches): nonitoring well, serial photos, pr	se (B9) (ex.) is (B13) dor (C1) ires along t dd fron (C4 orn in Tilled Plants (D1 emarks)	Living Roo ) Soile (C6 ) (LRR A	Segoo  A  V  C  C  Sts (C3) C  F  F  A  F  A  F  A  A  A  A  A  A  A	Indery Indicators (2 or more required Vater-Statned Leaves (89) (MLRA 1 4A, and 48) realises Patients (810) (MLRA 1 1 4A, and 48) realises Patients (810) (20) saturation Visible on Asrial Imagery (accomplic Position (02) haslow Aquitard (03) AC-Neutral Test (05) (LRR A) rost-Heave Hummocks (07)
YDROLOGY  Welland Hydrology Indicators:  **himsex indicators (minimum of one required for the control of the co	ed. check eff that apply)  Water-Stahed Leav 1, 2, 4A, and 4B, Salt Crust (811) Aquatic Invertebrate Hydrogen Suffee Or Osalized Rhizosphe Presence of Reduce Recent fron Reduce Stunted or Stressed Stunied or Stressed Other (Explain in Re (88)  No Depth (inches): No Depth (inches): No Depth (inches): monitoring well, serial photos, pr	se (B9) (ex.) is (B13) dor (C1) ires along t dd fron (C4 orn in Tilled Plants (D1 emarks)	Living Roo ) Soile (C6 ) (LRR A	Second   V	Indery Indicators (2 or more required Vater-Statned Leaves (89) (MLRA 1 4A, and 48) realises Patients (810) (MLRA 1 1 4A, and 48) realises Patients (810) (20) saturation Visible on Asrial Imagery (accomplic Position (02) haslow Aquitard (03) AC-Neutral Test (05) (LRR A) rost-Heave Hummocks (07)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

SOIL

Sampling Point: \_

ect/Site: 3 L LUX	City/County: M	arysulle Sampling Data 3-21
licent/Owner:		State: WA Sampling Point: D&
	Section, Township, R	atro
		convex, none) Slope (%):
		Long: Datum:
	_ Lac	
Map Unit Name:	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	NWI classification:
climatic / hydrologic conditions on the site typical for thi		
Vegetation Soil or Hydrology		"Normal Circumstances" present? Yes No
Vegetation, Soil, or Hydrology	naturally problematic? (If r	needed, explain any answers in Remarks.)
MMARY OF FINDINGS - Attach site man	showing sampling point	locations, transects, important features, et
drophytic Vegetation Present? Yes		nd Area
dric Soil Present? Yes		end? Yes No
etland Hydrology Present? Yes h		
MOOVE Normal	ramfall.	
- agricultual File	w/dital	my + tile
SETATION - Use scientific names of plan	<del></del>	
	Absolute Dominant Indicator	Dominance Test worksheet:
es Stratum (Plot size:)	% Cover Species? Status	- I Mainte of Constant Spacies
		That Are OBL, FACW, or FAC:(A)
		- Total Number of Dominant
		Species Across Alf Strate: (B)
		Percent of Dominant Species
Stand Milliands Chinakina - Millad nina.	= Total Cover	That Are OBL, FACW, or FAC: (A/S
ing/Shrub Stratum (Plot size:)		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
		OBL species x1 =
		FACW species x2=
		FAC species x3 =
	= Total Cover	FACU species X4 =
to Stratum (Plot size:)		1100
(2.~	100 14	Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
		Prevalence Index is s3.01
		Morphological Adaptations (Provide supporting
		data in Remarks or on a separate sheet)
		Wetland Non-Vascular Plants
		Problematic Hydrophytic Vegetation (Explain)
		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
		in the desired of the control of the property of the control of th
	= Total Cover	
	* Total Cover	
ody Vine Stratum (Plot size:)	= Total Cover	- Hydrophytic
ody Vine Stratum (Plot size:)	S estatemental degeneración comunicación	Hydrophytic Vegetation Present? Yes No

Depth Matrix	Redox Features			
(inches) Color (moist)	% Color (moist) % Type	106	exture	Remarks
12 10 AU 5/2				
14 7.54K	2.5/3	2000	br	
	-			
				**************************************
<del></del>				
				·
Type: C=Concentration, D=Daplet	ion, RM=Reduced Matrix, CS=Covered or Costed	Sand Grains		n: PL=Pore Lining, M=Matrix.
lydric Soit Indicators: (Applicab	ie to ali LRRs, unises otherwise noted.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)		2 cm Me	
Histic Epipedon (A2)	Stripped Matrix (S6)		-	rent Material (TF2)
Bleck Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (except I Loamy Gleyed Matrix (F2)	mura 1)	Other (b	Explain in Remarks)
Prydrogen Suince (A4) Depleted Below Derk Suiface (				
Thick Dark Surface (A12)	Redox Dark Surface (F6)		<sup>3</sup> Indicators o	f hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)			ydrology must be present.
Sandy Gleyed Matrix (S4)	Redax Depressions (F8)		unless di	sturbed or problematic.
lestrictive Layer (if present):				
Туре:		1		
		H	ydric Soli Pre	sent? Yes No
Depth (inches):				
	No	ind i	udr	<b>-</b>
emarks:	No	irdi	udr	3
emarks:  FDROLOGY  Fetland Hydrology Indicators:		irdi		y indicators (2 or more required
emarks: FDROLOGY Fetland Hydrology Indicators: timery Indicators (minimum of one	required, chack all that apply)		Secondar	y Indicators (2 or more required
emarks:  FDROLOGY  Fetland Hydrology Indicators:	required, check all that apply) Water-Steined Leaves (B9) (ex		Secondar Wate	
PDROLOGY  Votland Hydrology Indicators:  timer: Indicators (minimum of one  Surface Weter (A1)	required, chack all that apply)		Secondar Wate	y Indicators (2 or more required r-Stained Leaves (89) (MLRA 1
FDROLOGY  Friedrick Hydrology Indicators:  Friedrick Hydrology Indicators:  Friedrick Hydrology Indicators:  Friedrick Hydrology Indicators:  Surface Water (A1)  High Water Table (A2)	required, check all that apply)  Water-Steined Leaves (89) (ex 1, 2, 4A, and 4B)		Secondar Wate Orain	y indicators (2 or more required r-Stained Leaves (89) (MLRA 1 L, and 48)
FDROLOGY  reteand Hydrology Indicators:  rimery indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	required, check all that apply)  Water-Steined Leaves (B9) (ex 1.2, 4A, end 4B)  Sait Crust (B11)		Secondar Wate 4/ Drain Dry-S	y indicators (2 or more required r-Stained Leaves (89) (MLRA 1 l, and 48) age Patterns (810) beacon Water Table (C2) ation Visible on Aerial Imagery (
POROLOGY  Weldland Phydrology Indicators:  Timery Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	required, check all that apply)  Water-Steined Leaves (B9) (ex 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L	iving Roots (C	Secondar  Wate 4/ Orain  Dry-5 Satur 3) Georg	y indicators (2 or more required r-Stained Leaves (B9) (MLRA 1 ), and 48) spe Patterns (B10) teason Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2)
FDROLOGY  Fortand Hydrology Indicators:  timery Indicators (minimum of one  Stuface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (61)  Sediment Deposits (B2)	required, check all that apply)  Water-Steined Leaves (B9) (ex 1, 2, 4A, end 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffice Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)	oupt MLRA	Secondar  Wate 4/ Orain  Dry-5 Satur  Satur  Shall	y Indicators (2 or more required re-Stained Leaves (89) (MLRA 1 , send 48) age Patterns (810) leason Water Table (C2) ation Visible on Aerial Imagery (norphic Position (D2) ow Aquitard (D3)
POROLOGY  Vetland Hydrology indicators: timery Indicators (minimum of one Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B2) Indicator Crust (B4) Iron Deposits (B5)	e required: check all that apply)  Water-Stalmed Leaves (89) (ex 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled	iving Roots (CS)	Secondar Wate 4/ Orain Dry-S Satur Stall FAC-	y indicators (2 or more required r-Stained Leaves (89) (MLRA 1 , and 48) age Patterns (810) leason Water Table (C2) aften Visible on Aerial tragery ( norphic Position (D2) ow Aquitard (D3) Neutral Test (D5)
PROLOGY  Fortand Hydrology Indicators:  timery Indicators (minimum of one  Sturface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Merks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	required: check all that apply)  Water-Stained Leaves (89) (ex 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  Stunied or Stressed Plants (D1	iving Roots (CS)	Secondar Wate 4/ Drain Dry-S Satur Shall FAC- Raise	y Indicators (2 or more required r-Stained Leaves (89) (MLRA 1 h, and 48) age Patterns (810) Seeson Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2) we Aquistrd (D3) Neutral Test (D6) of Ant Mounds (D6) (LRR A)
POROLOGY  Wetland Hydrology Indicators: timery 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 (B6) Inundation Visible on Aerial Inu	required, check all that apply)  Water-Steined Leaves (89) (ax 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  Stunied or Stressed Plants (D1  agery (B7)  Other (Explain in Remarks)	iving Roots (CS)	Secondar Wate 4/ Drain Dry-S Satur Shall FAC- Raise	y indicators (2 or more required r-Stained Leaves (89) (MLRA 1 , and 48) age Patterns (810) leason Water Table (C2) aften Visible on Aerial tragery ( norphic Position (D2) ow Aquitard (D3) Neutral Test (D5)
VDROLOGY  Votland Hydrology Indicators:  Inner Indicators (ininimum of one Surface Water (A1) High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drit Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soit Cracks (B6)  Inurdistion Visible on Aeriel Imu Sparsely Vegetated Concave S	required, check all that apply)  Water-Steined Leaves (89) (ax 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  Stunied or Stressed Plants (D1  agery (B7)  Other (Explain in Remarks)	iving Roots (CS)	Secondar Wate 4/ Drain Dry-S Satur Shall FAC- Raise	y Indicators (2 or more required r-Stained Leaves (89) (MLRA 1 h, and 48) age Patterns (810) Seeson Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2) we Aquistrd (D3) Neutral Test (D6) of Ant Mounds (D6) (LRR A)
PDROLOGY  retiane Hydrology indicators:  timery indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (81)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Intelligence Spansely Vegetated Concave Sield Observations:	e required: check all that apply)  Water-Stalmed Leaves (89) (ex 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled  Stunted or Stressed Plants (D1  agery (87)  Other (Explain in Remarks)	iving Roots (CS)	Secondar Wate 4/ Drain Dry-S Satur Shall FAC- Raise	y Indicators (2 or more required r-Stained Leaves (89) (MLRA 1 h, and 48) age Patterns (810) Seeson Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2) we Aquistrd (D3) Neutral Test (D6) of Ant Mounds (D6) (LRR A)
FDROLOGY  Wetland Hydrology Indicators: timery Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dirk Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imu Sparsely Vegetated Concave S leid Observations: furface Water Present? Yes	required: check all that apply)  Water-Stained Leaves (89) (ex 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled  Stunied or Stressed Plants (D1  other (Explain in Remarks)  No  Depth (inohee):	iving Roots (CS)	Secondar Wate 4/ Drain Dry-S Satur Shall FAC- Raise	y Indicators (2 or more required r-Stained Leaves (89) (MLRA 1 h, and 48) age Patterns (810) Seeson Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2) we Aquistrd (D3) Neutral Test (D6) of Ant Mounds (D6) (LRR A)
VDROLOGY  Vettand Hydrology Indicators:  Interv Indicators (minimum of one Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Inturdation Visible Observations:  Veter Table Present? Yes	required, check all that apply)  Water-Stained Leaves (89) (ax 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduced Iron (C4)  Recent Iron Reduced Iron (C4)  Sturfied or Stressed (Plants (D1)  Surface (B8)  No  Depth (inches):	cept MLRA iving Roots (C Soils (CS) ) (LRR A)	Seconsial Wate 44 Drain Dry-5 Satur 33) Georg FAG- Rais Frost	y Indicators (2 or more required r-Stained Leaves (B9) (MLRA 1 ), and 48) age Patietra (B10) season Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ad Ant Mounds (D6) (LRR A) -Heave Hummocks (D7)
VDROLOGY  Wetland Hydrology Indicators:  rimary Indicators (ininimum of one Surface Water (A1) High Water Table (A2) Seturation (A3)  Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Cruat (B4) Iron Deposits (B5) Surface Soit Cracks (B6) Inundation Visible on Aeriel Im Sparsely Vegetated Concave S leid Observations:  urtace Water Present? Yes saturation Present? Yes	wequired_check all that apply)  Water-Stained Leaves (B9) (ex 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxicized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Stunied or Stressed Plants (D1  Gerry (B7)  Other (Explain in Remarks)  Surface (B8)  No  Depth (inches):	cept MLRA iving Roots (C Soils (CS) ) (LRR A)	Seconsial Wate 44 Drain Dry-S Satur Shalla FAG- Rais Frost	y Indicators (2 or more required r-Stained Leaves (89) (MLRA 1 h, and 48) age Patterns (810) Seeson Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2) we Aquistrd (D3) Neutral Test (D6) of Ant Mounds (D6) (LRR A)
VDROLOGY  Vetland Prydrology Indicatora:  **Minery Indicatora (minimum of one Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (61)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Sol Cracks (B6)  Inundation Visible on Aerial Imus Sparsely Vegetated Concave Sided Observations:  Full Observations:  Veter Table Present?  Yes  Veter Table Present?  Yes  Veter Table Present?  Yes  Inductes explishy fringe)	required, check all that apply)  Water-Stained Leaves (89) (ax 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduced Iron (C4)  Recent Iron Reduced Iron (C4)  Sturfied or Stressed (Plants (D1)  Surface (B8)  No  Depth (inches):	iving Roots (C Soils (CS) ) (LRR A)	Seconsial  Wate  Urain  Dry- Satur  Satur  Shall  FAC- Raise  Frost	y Indicators (2 or more required r-Stained Leaves (B9) (MLRA 1 ), and 48) age Patietra (B10) season Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ad Ant Mounds (D6) (LRR A) -Heave Hummocks (D7)
VPROLOGY  Wetland Hydrology Indicators:  Intimery Indicators (ininimum of one Surface Water (A1) High Water Table (A2) Seturation (A3)  Weter Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inno Deposits (B3) Invariation Visible on Aerial Imi Sparsely Vegetated Concave Sield Observations: Vester Table Present?  Vester Present?  Vester Table Present?	required, check all that apply)  Water-Steined Leaves (89) (ex 1, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)  Oxicized Rhizospheres along L  Presence of Reduced Inor (C4)  Recent Iron Reduction in Tilled Stunied or Stressed Plants (01  Sturface (88)  No  Depth (inchee):  No  Depth (inchee):	iving Roots (C Soils (CS) ) (LRR A)	Seconsial  Wate  Urain  Dry- Satur  Satur  Shall  FAC- Raise  Frost	y Indicators (2 or more required r-Stained Leaves (B9) (MLRA 1 ), and 48) age Patietra (B10) season Water Table (C2) ation Visible on Aerial Imagery ( norphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ad Ant Mounds (D6) (LRR A) -Heave Hummocks (D7)
VDROLOGY  Vetland Prydrology Indicatora:  **Minery Indicatora (minimum of one Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (61)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Sol Cracks (B6)  Inundation Visible on Aerial Imus Sparsely Vegetated Concave Sided Observations:  Full Observations:  Veter Table Present?  Yes  Veter Table Present?  Yes  Veter Table Present?  Yes  Inductes explishy fringe)	required, check all that apply)	iving Roots (C Soils (C6) ) (LRR A) ————————————————————————————————————	Seconsial  Well  Drain  Dry-S  Satur  Selon  Shall  FAC  Raise  Frost	y Indicators (2 or more required r-Stained Leaves (89) (MLRA 1 h, and 48) ape Patterns (810) seeson Water Table (C2) atton Visible on Aerial Imagery ( norphic Position (D2) ownerst (D3) Neutral (D3) Neutral Test (D6) at Ant Mounds (D6) (LRR A) -Heave Hummocks (D7)
VPROLOGY  Wetland Hydrology Indicators:  Intimery Indicators (ininimum of one Surface Water (A1) High Water Table (A2) Seturation (A3)  Weter Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inno Deposits (B3) Invariation Visible on Aerial Imi Sparsely Vegetated Concave Sield Observations: Vester Table Present?  Vester Present?  Vester Table Present?	required, check all that apply)	iving Roots (C Soils (C6) ) (LRR A) ————————————————————————————————————	Seconsial  Wate  Urain  Dry- Satur  Satur  Shall  FAC- Raise  Frost	y Indicators (2 or more required r-Stained Leaves (89) (MLRA 1 h, and 48) ape Patterns (810) seeson Water Table (C2) atton Visible on Aerial Imagery ( norphic Position (D2) ownerst (D3) Neutral (D3) Neutral Test (D6) at Ant Mounds (D6) (LRR A) -Heave Hummocks (D7)

SOIL

Sampling Point: \_\_\_\_

# WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site; Applicant/Owner: Sewall Slope (%): Landform (hillsloop, terrace, etc.): Local relief (concave, convex, none); Subregion (LRR) NWI classification: Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_ Soit \_\_\_\_\_ 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? above normal ramfall - agricultal Field w/ditching + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stretum (Plot size: \_\_\_ % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: That Are OBL, FAGW, or FAC: Sapling/Shrub Stratum (Plot size: \_ FAC species FACU species ⇒ Total Cover Herb Stratum (Plot size: UPL species \_\_ Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.01 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants<sup>1</sup> Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic # Total Cover Woody Vine Stratum (Plot size: Hydrophytic \_\* Total Cover % Bare Ground in Herb Stratum Remarks:

6 7.54R 2.5	73	guy he
Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sand Gr	ains *Location: PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable to al		indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Hietic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
_ Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present.
_ Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
estrictive Layer (if present):		1
Туре:	- Maryan Artistan	
Depth (inches):		Hydric Soil Present? Yes No
/DROLOGY		
/DROLOGY  felland flydrology Indicators:	rd, check all that apply)	Secondary Indicators (2 or more required)
fetland Hydrology Indicators: rimary Indicators (minimum of one require	nd: check ell that apoly)  Water-Stathed Leaves (B0) (except ML)	·
retiand Hydrology Indicators: nimary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLI	·
fetiand Hydrology Indicators: himsry Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
retiend Hydrotogy Indicators: himary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Salt Crust (B11)	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B)
Feltand Hydrology Indicators: nimen Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic invertebrates (B13)	RA Water-Stained Leaves (59) (MLRA 1, 4A, and 4B) Drainage Patterns (510) Dry-Season Water Table (C2)
retiand Hydrology Indicators:  many Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic invertebrates (813) Hydrogen Sulfide Odor (C1)	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Draineye Patterns (810) Dry-Seeson Weter Table (C2) Seturation Visible on Aerial Imagery (1
retiend Hydrotogy Indicators:  many indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sedment Deposits (B2)  Drift Deposits (B3)	Water-Statned Leaves (80) (except MLI 1, 2, 4A, and 4B) Saft Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) — Drainage Patterns (B10) — Dry-Season Weter Table (C2) — Saturation Visible on Aerial Imagery (6) obs (C3) — Geomorphic Position (D2)
rettenet Prydrotogy Indicetors: immer/ Indicetors (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dirk Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres atong Living Rod Presence of Reduced Iron (C4)	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1 Geomorphic Position (D2) Shallow Aquitand (D3)
reitane Hydrology Indicators: https://doi.org/10.1007/	Water-Statued Leaves (B9) (except MELI 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solis (C5)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Seturation Visible on Aerial finagery (Ca) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
retiand Hydrology Indicators: immerv indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dirit Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Steined Leaves (89) (except MLI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Rod Presence of Reduction in Titled Soils (C6 Stunted or Stressed Plants (D1) (LRR A	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainege Patterns (810) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
retians Prydrology Indicators: timary Indicators (minimum of one require 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 Imagery (B	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Saft Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Titled Solls (C5 Sturiled or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Seturation Visible on Aerial finagery (Ca) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
reitans Hydrology Indicators: https://document.org/colors/	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Saft Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Titled Solls (C5 Sturiled or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainege Patterns (810) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
reitand Hydrology Indicators: https://doi.org/10.1007/	Water-Steined Leaves (89) (except MLI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roz Presence of Reduction in Titled Soils (Ct Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainege Patterns (810) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (1 Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
retiand Hydrology Indicators: https://doi.org/10.1007/	Water-Steined Leaves (89) (except MELI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Titled Soils (C6 Stunted or Stressed Plants (D1) (LRR A Other (Exptein in Remarks)  No Depth (Inohes):	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainege Patterns (810) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
retiand Hydrology Indicators: https://doi.org/10.1007/	Water-Steined Leaves (89) (except MELI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Rod Presence of Reduction in Titled Soils (C6 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  No Depth (Inches):	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainege Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
retians Hydrology Indicators: https://document.org/indicators/file	Water-Steined Leaves (89) (except MELI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Rod Presence of Reduction in Titled Soils (C6 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  No Depth (Inches):	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainege Patterns (810) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
retiand Prydrology Indicators:  timery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dirit Deposits (B3) Algal Mat or Crusk (B4) Iron Deposits (B5) Surface Sold (B5) Inundation Viable on Aenal Imagery (B Sparsely Vegetated Concave Surface Ield Observations: urface Water Present? Vater Table Present? Yes Inductor Surface Inductor Surface Ield Observations: urface Water Present? Yes Inductor Surface Ield Observations: Indicator Present? Yes Inductor Surface Ield Observations Indicator Present? Yes Inductor Surface Ield Indicator Indic	Water-Steined Leaves (89) (except MELI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Rod Presence of Reduction in Titled Soils (C6 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  No Depth (Inches):	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
retiand Prydrotogy Indicators:  many Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Durit Deposits (B3) Algal Mat or Crust (B4) Inno Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Spansely Vegetated Concave Surface Ield Observations: Luface Water Present? Yes saturation Present? Yes saturation Present? Yes saturation Present? Yes learned Present? Yes saturation Present? Yes saturation Present? Yes learned Present? Yes learned Present? Yes saturation Present? Yes	Water-Steined Leaves (B9) (except MELI 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduction in Titled Soils (Ct Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  No Depth (Inches): No Depth (inches): Wett	RA Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
retiand Prydrology Indicators:  timery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dirit Deposits (B3) Algal Mat or Crusk (B4) Iron Deposits (B5) Surface Sold (B5) Inundation Viable on Aenal Imagery (B Sparsely Vegetated Concave Surface Ield Observations: urface Water Present? Vater Table Present? Yes Inductor Surface Inductor Surface Ield Observations: urface Water Present? Yes Inductor Surface Ield Observations: Indicator Present? Yes Inductor Surface Ield Observations Indicator Present? Yes Inductor Surface Ield Indicator Indic	Water-Steined Leaves (89) (except MELI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Titled Solls (C6 Sturled or Stressed Plants (D1) (LRR A Other (Explain in Remarks) (88)  No Depth (inches): No Depth (inches): Wett	Water-Stained Leaves (69) (MLRA 1, 4A, and 4B)  — Drainage Patterns (B10)  — Dry-Season Water Table (C2)  — Seturation Visible on Aerial Imagery (to 1)  — Shafow Aquistar (D3)  — FAC-Neutral Test (D5)  — Raised Ant Mounds (D6) (LRR A)  — Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
retiand Prydrotogy Indicators:  many Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Durit Deposits (B3) Algal Mat or Crust (B4) Inno Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Spansely Vegetated Concave Surface Ield Observations: Luface Water Present? Yes saturation Present? Yes saturation Present? Yes saturation Present? Yes learned Present? Yes saturation Present? Yes saturation Present? Yes learned Present? Yes learned Present? Yes saturation Present? Yes	Water-Steined Leaves (89) (except MELI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Titled Solls (C6 Sturled or Stressed Plants (D1) (LRR A Other (Explain in Remarks) (88)  No Depth (inches): No Depth (inches): Wett	4A, and 4B)  Drainage Patterns (B10)  Dry-Sesson Wester Table (C2)  Seturation Visible on Aerist Imagery (C2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Redox Features
% Color (moist) % Type 1.00 Texture

SOIL

Depth

(inches)

Sampling Point: \_

roject/Sile: Styl	City/County:	arysuile sampling Date: 3-21
pplicant/Owner:		State: WA Sampling Point: DP
rvestigator(s): <u>Zd Sewal</u>	Section, Township, Ra	inge:
		convex, none): Slope (%):
ubregion (LRR):	Lat:	Long: Deturn:
oil Map Unit Name:		NWI clessification:
re climatic / hydrologic conditions on the site typical f	or this time of year? Yes No _	(If no, explain in Remarks.)
rs Vegetation, Soil or Hydrology	significantly disturbed? Are	"Normal Circumstances" present? Yes No
re Vegetation Soil or Hydrology	naturally problematic? (If no	seded, explein any answers in Remarks.)
UMMARY OF FINDINGS - Attach site in	nao showing sampling noint l	ocations, transects, important features, et
Hydrophytic Vegetation Present? Yes		I Area
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No within a Wetlan	nd? Yes No
MOOVE NOTA	1 cam Fay	114
-agricultual F	ield w/ditah	my + Till
EGETATION - Use scientific names of	plants.	•
Tona Cleature (Florida	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
l		}
		Total Number of Dominant Species Across All Strata: (B)
(		1-7
	* Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/E
Saplino/Shrub Stratum (Plot size:)		Prevalence index worksheet:
k		Total % Cover of: Multiply by:
		OBL species x1 =
1		FACW species x2=
		FAC species x3=
	- Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)	100 ~I	UPL species x 5 =
		Column Totals: (A) (B
3.		Prevalence Index = B/A =
i.		Hydrophytic Vegetation Indicators:
).		Dominance Test is >50%
>		Prevalence Index is \$3.01
		Morphological Adaptations' (Provide supporting
		data in Remarks or on a separate sheet)  Wetland Non-Vascular Plants <sup>1</sup>
l.		Problematic Hydrophytic Vegetation¹ (Explain)
O		*Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic
Noody Vine Stratum (Plot size:)	a Total Cover	
The state of the s		Hydrophytic
l,		Vegetation
		Anderstown
	* Total Cover	Present? YesNo

roffle Description: (Describe to the	depth needed to document the indicator or co	rifirm the absence of indicators.)
Depth Matrix	Redox Features	
inches) Color (moist) %	Color (moist) % Type to	c <sup>2</sup> Texture Remarks
12 /0/22/2	and the state of t	
		- 3th to
14 104K31	2	
<del></del>		
Tune: CaConcentration Dathenistinn	RM=Reduced Matrix, CS=Covered or Coated Se	nd Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to		Indicators for Problematic Hydric Soils:
• • • • • • • • • • • • • • • • • • • •	,	2 cm Muck (A10)
Histosol (A1)	Sandy Redox (S5) Stripped Matrix (S6)	Red Parent Material (TF2)
Histic Epipadon (A2) Black Histic (A3)		
	Loamy Mucky Mineral (F1) (except MLF	CA 1) Other (Explain st Remarks)
	Loamy Gleyed Metrix (F2)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Deploted Matrix (F3) Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
		watiend hydrology must be present.
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wessend nysrology must se present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	where disturbed of problement.
lestrictive Layer (if present):		1
Туре:	Name of the state	•
Depth (inches):		Hydric Soil Present? Yes No
lemarks:		
	Non	liestes.
VDROLOGY	Non	lists.
YDROLOGY Votland Hydrology Indicators:	No 10	lists
Vetland Hydrology Indicators:		Secondary Indicators (2 or more required
Vetland Hydrology Indicators: Himary indicators (minimum of one req	uined, check all that apply)	Secondary Indicators (2 or more regulted
Vetland Hydrology Indicators: himary indicators (minimum of one requ Surface Water (A1)	uired, check all that apply) Water-Stahod Leaves (B9) (excep	Secondary Indicators (2 or more required t MLRAWater-Stained Leaves (89) (MLRA 1
Vetland Hydrology Indicators: himery indicators (minimum of one req Surface Water (A1) High Water Table (A2)	uired, check all that apply)  Water-Stained Leaves (B9) (exception 1, 2, 4A, and 4B)	Secondary Indicators (2 or more required t MLRA Water-Stated Leaves (89) (MLRA 1 44, and 48)
Vetland Hydrology Indicators: himsry indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3)	uired check all that apply)  Water-Stained Leaves (B9) (exception 1, 2, 4A, and 4B)  Sait Crust (B11)	Secondary Indicators (2 or more required t MLRA
Vedland Hydrology Indicators: himary indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	uined, check all that apply)	Secondary Indicators (2 or more required t MLRA
Vetland Hydrology Indicators: htmany Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	wind, check all that apply)  Water-Stained Leaves (B9) (exception of the check all that apply)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	Secondary Inticators (2 or more required t MLRA
Vetland Hydrology Indicators: htmary indicators (minimum of one requestry for the state (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sedment Deposits (B2) Drift Deposits (B3)	uired, check aft that appty)  Water-Stahed Leaves (B9) (exception of the control	Secondary Indicators (2 or more regulated t MLRA Water-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterns (810) Dry-Sesson Water Table (C2) Saturation Visible on Aerial tinagery ( g Roots (C3) Geomorphic Position (02)
Vedland Hydrology Indicators:  **Immerv Indicators (minimum of one rece  **Surface Water (A1)  High Water Table (A2)  **Saturation (A3)  Water Marks (B1)  **Sediment Deposits (B2)  **Drift Deposits (B3)  **Algel Mark or Crust (B4)	uind, check all that apply)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)	Secondary Indicators (2 or more regulated  Water-Stained Leaves (B9) (MLRA 1  4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)  Shallow Aquitard (D3)
Vedland Hydrology Indicators:  Inmary Indicators (minimum of one requirement Indicators (Minimum of Indicators (	wind, check all that apply)  Water-Stalmed Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Cdor (C1)  Oxidized Rhizzosphere along Livin;  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Sol	Secondary Indicators (2 or more required  Water-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Sesson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shatlow Aquiterd (D3) Is (C6) FAC-Neutral Test (D5)
Vedland Hydrology Indicators:  **Immerv Indicators (minimum of one rece  **Surface Water (A1)  High Water Table (A2)  **Saturation (A3)  Water Marks (B1)  **Sediment Deposits (B2)  **Drift Deposits (B3)  **Algel Mark or Crust (B4)	uind, check all that apply)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required  Water-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Sesson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shatlow Aquiterd (D3) Is (C6) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: htmany Indicators (minimum of one requirement Indicators (minimum of one requirement Indicators (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)	uired, check all that apphy)  Water-Stahed Leaves (B9) (exception of the composition of t	Secondary Indicators (2 or more required  Water-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Sesson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shatlow Aquiterd (D3) Is (C6) FAC-Neutral Test (D5)
Veiland Hydrology Indicators:  **Imarv Indicators (minimum of one requestry for the control of t	uired, check all that apply)  Water-Stained Leaves (B9) (exception of the composition of	Secondary Indicators (2 or more required t MLRA
retiand Hydrology Indicators:  https://dicators.com/inimum.gf.gne.rso/ 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 (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagen Sparsely Vegetated Concave Surface	uired, check all that apply)  Water-Stained Leaves (B9) (except 1, 2, 4A, end 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulficle Odor (C1)  Oxidized Rhizospheres along Livin,  Presence of Reduced Iron (C4)  Racent fron Reduction in Tilled Soli  Stunied or Stressed Plants (D1) (L)  (B7)  Other (Explain in Remarks)  ox (B8)	Secondary Indicators (2 or more required t MLRA
retiand Hydrology Indicators:  https://dicators.com/inimum.gf.gne.rso/ 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 (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagen Sparsely Vegetated Concave Surface	uired, check all that apply)  Water-Stained Leaves (B9) (except 1, 2, 4A, end 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulficle Odor (C1)  Oxidized Rhizospheres along Livin,  Presence of Reduced Iron (C4)  Racent fron Reduction in Tilled Soli  Stunied or Stressed Plants (D1) (L)  (B7)  Other (Explain in Remarks)  ox (B8)	Secondary Indicators (2 or more required t MLRA
retiand Hydrology Indicators:  https://dicators.com/inimum.gf.gne.rso/ 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 (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagen Sparsely Vegetated Concave Surface	uired, check all that apply)  Water-Stained Leaves (B9) (except 1, 2, 4A, end 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulficle Odor (C1)  Oxidized Rhizospheres along Livin,  Presence of Reduced Iron (C4)  Racent fron Reduction in Tilled Soli  Stunied or Stressed Plants (D1) (L)  (B7)  Other (Explain in Remarks)  ox (B8)	Secondary Indicators (2 or more required t MLRA
Veiland Hydrology Indicators:  **Imarv Indicators (minimum of one requestry indicators (minimum of one requestry indicators (minimum of one requestry indicators (A1)  - Sedment Marks (B1)  - Sedment Deposits (B2)  - Drift Deposits (B3)  - Algel Met or Crust (B4)  - Irron Deposits (B6)  - Inundiction (Visible on Aerial Imagen - Sparsely Vegetated Concave Surfaceld Observations:  - Landow Water Present?  - Ves  -	wired, check all that appty)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin,  Presence of Reduced fron (C4)  Recent fron Reduction in Tilled Solis  Situnied or Stressed Plants (D1) (L)  (B7)  Other (Explain in Remarks)  ce (B8)  No petit (inches):	t MLRA  Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)  Shatow Aquiterd (D3)  Is (C6)  FAC-Neutral Test (D5)  Raised Ant Mounts (D6) (LRR A)  Frost-Heave Hummocks (D7)
rediand Hydrology Indicators:  **Immerv Indicators (minimum of one received for the control of t	wired, check all that appty)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin,  Presence of Reduced fron (C4)  Recent fron Reduction in Tilled Solis  Situnied or Stressed Plants (D1) (L)  (B7)  Other (Explain in Remarks)  ce (B8)  No petit (inches):	Secondary Indicators (2 or more required t MLRA
Veiland Hydrology Indicators:  **Trimery Indicators (minimum of one requestry indicators (minimum of one requestry indicators (minimum of one requestry indicators (A1)  - Sedment Deposits (A2)  - Sedment Deposits (B2)  - Drift Deposits (B3)  - Algel Met or Crust (B4)  - Irron Deposits (B6)  - Inundation Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Observations:  - United Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Viable Present? Yes - Valet Table Present? Yes - Sparsely Vegetated V	uired, check all that appty)  Water-Stahed Leaves (B9) (exception of the control	Secondary Indicators (2 or more reputed the MLRA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (9 Geomorphic Position (D2)  Shallow Aquiterd (D3)  Is (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Wetland Hydrology Present? Yes
Veiland Hydrology Indicators:  **Trimery Indicators (minimum of one requestry indicators (minimum of one requestry indicators (minimum of one requestry indicators (A1)  - Sedment Deposits (A2)  - Sedment Deposits (B2)  - Drift Deposits (B3)  - Algel Met or Crust (B4)  - Irron Deposits (B6)  - Inundation Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Observations:  - United Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Viable Present? Yes - Valet Table Present? Yes - Sparsely Vegetated V	wired, check all that appty)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin,  Presence of Reduced fron (C4)  Recent fron Reduction in Tilled Solis  Situnied or Stressed Plants (D1) (L)  (B7)  Other (Explain in Remarks)  ce (B8)  No petit (inches):	Secondary Indicators (2 or more reputed the MLRA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (9 Geomorphic Position (D2)  Shallow Aquiterd (D3)  Is (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Wetland Hydrology Present? Yes
Veiland Hydrology Indicators:  **Trimery Indicators (minimum of one requestry indicators (minimum of one requestry indicators (minimum of one requestry indicators (A1)  - Sedment Deposits (A2)  - Sedment Deposits (B2)  - Drift Deposits (B3)  - Algel Met or Crust (B4)  - Irron Deposits (B6)  - Inundation Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Observations:  - United Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Viable Present? Yes - Valet Table Present? Yes - Sparsely Vegetated V	uired, check all that appty)  Water-Stahed Leaves (B9) (exception of the control	Secondary Indicators (2 or more reputed the MLRA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (9 Geomorphic Position (D2)  Shallow Aquiterd (D3)  Is (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Wetland Hydrology Present? Yes
Veiland Hydrology Indicators:  **Trimery Indicators (minimum of one requestry indicators (minimum of one requestry indicators (minimum of one requestry indicators (A1)  - Sedment Deposits (A2)  - Sedment Deposits (B2)  - Drift Deposits (B3)  - Algel Met or Crust (B4)  - Irron Deposits (B6)  - Inundation Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Observations:  - United Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Viable on Aerial Imagen - Sparsely Vegetated Concave Surfacel Observations:  - United Viable Present? Yes - Valet Table Present? Yes - Sparsely Vegetated V	uired, check all that appty)  Water-Stahed Leaves (B9) (exception of the control	Secondary Indicators (2 or more reputed the MLRA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (9 Geomorphic Position (D2)  Shallow Aquiterd (D3)  Is (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Wetland Hydrology Present? Yes
rediand Hydrology Indicators:  https://dicators.com/inimum.gf.gne.rsg/ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Met or Crust (B4) Iron Deposits (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagen Sparsely Vegetated Concave Surfa- redict Observations: Interface Water Present? Vest Table Vest Table Vest Table Present Vest Table Present Vest Table Present Vest Table Vest Table Present Vest Table Vest Table Present Vest Table Vest Table Vest Table Present Vest Table Vest Tab	uired, check all that apply)  Water-Stained Leaves (B9) (exception of the content	Secondary Intecetors (2 or more required t MLRA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (9 Geomorphic Position (02)  Shallow Aquitand (D3)  Is (C6)  FAC-Neutral Test (D5)  RR A)  Frost-Heave Hummocks (D7)  Wetland Hydrotogy Present? Yes No
rediand Hydrology Indicators:  https://dicators.com/inimum.gf.gne.rsg/ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Met or Crust (B4) Iron Deposits (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagen Sparsely Vegetated Concave Surfa- redict Observations: Interface Water Present? Vest Table Vest Table Vest Table Present Vest Table Present Vest Table Present Vest Table Vest Table Present Vest Table Vest Table Present Vest Table Vest Table Vest Table Present Vest Table Vest Tab	uired, check all that appty)  Water-Stahed Leaves (B9) (exception of the control	Secondary Intecetors (2 or more required t MLRA Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (9 Geomorphic Position (02)  Shallow Aquitand (D3)  Is (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Wetland Hydrotogy Present? Yes No

ject/Site: Styl	City/County:	larysuile Sampling Date: 3-21-
dicant/Owner:	•	State: WA Sampling Point: DP
ostigator(a): 2d Sewal	Section, Township,	Range:
		e, convex, none):Slope (%):
region (LRR)		
Map Unit Name:		NWI clessification:
climetic / hydrologic conditions on the site typical fo	or this time of year? Yes No	(If no, explain in Remarks.)
Vegetalion, Soil, or Hydrology	significantly disturbed? A	e "Normel Circumstarices" present? Yes No
Vegetation Soil or Hydrology		needed, explain any answers in Remarks.)
		•
MMAKT OF FINDINGS - Atlach site in	up showing sampling poin	t locations, transects, important features, etc
rdrophylic Vegetation Present? Yes	No is the Samp	and Arma
rdric Sall Present? Yes	- No within a Wint	
	_ No	
emerks. above worms	I ramfall .	4.
- agricultural F	ield w/dild	hm + tile
SETATION - Use scientific names of a	olants.	
	Absolute Dominant Indicate	r Dominance Test worksheet:
es Stratum (Piot size:)	% Cover Species? Status	
		That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant
		Species Across All Strata: (B)
	- Total Cover	Percent of Dominant Species
lling/Shrub Stratum (Pict size:)	- 10ta COVer	That Are OBL, FACW, or FAC: (A/B)
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
		OBL species ×1=
		FACW species ×2 =
<del></del>	= Total Cover	FACU species x 3 d x 4 d d d d d d d d d d d d d d d d d
nb Stratum (Plot size:)		UPL species ×5=
CONN	<u> 100                                  </u>	Column Totals: (A) (B)
		-
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
		Prevalence Index is s3.0
		Prevalence Index is \$3.01  Morphological Adaptations' (Provide supporting
		Prevalence Index is 3.0"  Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Wetserd Non-Veacular Plants'  Problematic Hydrophytic Vegetation' (Explain)
		Prevalence Index is 33.0' Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wettend Non-Veacular Plants' Problematic Hydrophytic Vegetation' (Explain) Indicators of rydric soil and wet
		Prevalence Index is 3.0"  Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Wetserd Non-Veacular Plants'  Problematic Hydrophytic Vegetation' (Explain)
ody Vine Stratum (Plot size:)		Prevalence Index is 3.0.1  Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Wetsend Non-Veacular Plants'  Problematic Hydrophytic Vegetation' (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
		Prevalence Index is 3.0."  Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Wetserd Non-Vescular Plants'  Problematic Hydrophytic Vegetation' (Explain)  Indicators of hydric soil and wetsend hydrology must be present, unless disturbed or problematic  Hydrophytic
ody Vine Stratum (Plot size:)		Prevalence Index is 3.0.1  Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Wetsend Non-Veacular Plants'  Problematic Hydrophytic Vegetation' (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

(inches) Color (moist)	%		
TORSINGS		Color (moist) % Type Lo	oc' Texture Remarks
13 104M3	14		
11. 701123	73		Sohn long
			7
Type: C=Concentration. D=E	epietion, RM=Re	duced Matrix, CS=Covered or Coated Sa	and Grains.   Location: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Soils.
-		Rs, unless otherwise noted.)	· · · · · · · · · · · · · · · ·
Histosol (A1)		Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipadon (A2)		Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Mineral (F1) (except ML)	RA 1) Other (Explain in Remarks)
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)	
Depleted Below Dark Sur		Depleted Matrix (F3)	30 m . 1
Thick Dark Surface (A12)		Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1		Deplated Dark Surface (F7)	wetland hydrology must be present.
Sandy Gleyed Matrix (S4)		Redox Depressions (F6)	unless disturbed or problematic.
testrictive Layer (if present	):		
Type:		<del>-</del>	
Depth (inches):		_	Hydric Soil Present? Yes No
Remarks:			
vomerks.		No Islic.	hs
YDROLOGY		No Islic.	hes
YDROLOGY Netland Hydrology Indicato			
YDROLOGY Netland Hydrology Indicato Primary Indicators (minimum o		beck all that apply)	Secondary Indicators (2 or more required)
YDROLOGY Netland Hydrology Indicato		heck all that apply) Water-Stained Leaves (89) (excep	Secondary Indicators (2 or more resulted) pt MLRA Water-Stained Leaves (89) (MLRA 1,
YDROLOGY Netland Hydrology Indicato Primary Indicators (minimum o		beck all that apply)	Secondary Indicators (2 or more required)
YDROLOGY Netland Hydrology Indicato Primery Indicators (minimum o		heck all that apply) Water-Stained Leaves (89) (excep	Secondary Indicators (2 or more resulted) pt MLRA Water-Stained Leaves (89) (MLRA 1,
YDROLOGY Weltand Hydrology Indicato Frinary Indicaton (minimum of the control of		heck all that apphy)  Water-Stained Leaves (89) (excep  1, 2, 4A, and 4B)	Secondary Indicators (2 or more requited) pt MLRA
YDROLOGY Netland Hydrology Indicato Prinsey Indicatos Surface Water (A1) High Water Table (A2) Seturation (A3)		heck all that apphy)  Water-Steined Leaves (89) (except, 2, 44, and 48)  Salt Crust (811)	Secondary Indicators (2 or more resulted) pt MLRA
YDROLOGY Netland Hydrology Indicato Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		beck aft that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Saft Crust (B1)  Aquetic Invertebrates (B13)  Hydrogen Suffide Odor (C1)	Secondary Indicators (2 or more resulted) pt MLRA
YDROLOGY Netland Hydrology Indicato Primary Indicators (minimum or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		beck aft that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Saft Crust (B1)  Aquetic Invertebrates (B13)  Hydrogen Suffide Odor (C1)	pt MLRA Water-Stained Leaves (39) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1)
YDROLOGY Netland Hydrology Indicato Primery Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		heck all that apply)  Water-Stained Leaves (89) (except 1, 2, 4A, erst 4B)  Salt Crust (811)  Aquetic Invertebrates (813) Hydrogen Suffice Ordor (C1)  Oxidized Rhizospheres along Livin	Secondary Indicators (2 or more resulted) pt MLRA
YDROLOGY Netland Hydrology Indicato Primary Indicators (minimum - Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		heck all that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhinospheres along Livin  Presence of Reduced fron (C4)  Recent Iron Reduction in Tilled So	Secondary Indicators (2 or more resulted) pt MLRA  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (1) 10 Geomorphic Position (D2)  Shatlow Aquistrd (D3) 10 (C6)  FAC-Neutral Test (D5)
YDROLOGY  Wettenet Hydrology Indicator  Frinary Indicators (minimum of the control of the contro	of ane required; cl	beck aft that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Saft Crust (B1)  Aquetic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)  Racent Iron Reduction in Tilled S5  Stunied or Stressed Plants (D1) (L	pt MLRA  Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterna (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial fragery (1)  Geomorphic Position (D2)  Stellow Aquitard (D3)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY Nettand Prydrology Indicato Prinery Indicator (minimum o 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 Aeri	of one required: cl	heck all that apply)  Water-Stained Leaves (89) (except 1, 2, 4A, erst 4B)  Salt Crust (811)  Aquetic Invertebrates (813) Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced fron (C4)  Recent Iron Reduction in Tilled So Sturtled or Stressed Plants (D1) (L  Other (Explain in Remarks)	Secondary Indicators (2 or more result ed) pt MLRA  Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Seturation Visible on Aerial Imagery (1) 10 Geomorphic Position (D2)  Shallow Aquistrd (D3) sils (C6)  FAC-Neutral Test (D5)
YDROLOGY Netband Hydrology Indicato Primary Indicators (minimum of 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 Crocks (B6) Inundation Visible on Aeri Sparsely Vegetated Conc	of one required: cl	heck all that apply)  Water-Stained Leaves (89) (except 1, 2, 4A, erst 4B)  Salt Crust (811)  Aquetic Invertebrates (813) Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced fron (C4)  Recent Iron Reduction in Tilled So Sturtled or Stressed Plants (D1) (L  Other (Explain in Remarks)	pt MLRA  Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterna (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial fragery (1)  Geomorphic Position (D2)  Stellow Aquitard (D3)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY Netland Hydrology Indicator Primary Indicators (minimum - Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Crecks (B6) Inundation Visible on Aeri Sparsely Vegetated Conditions:	of one required; of iel Imagery (B7) ave Surface (B8)	heck all that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, ernst 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhinospheres along Livin  Presence of Reduced fron (C4)  Recent iron Reduction in Tilled So  Sturited or Stressed Plants (D1) (L  Other (Explain in Remarks)	pt MLRA  Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterna (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial fragery (1)  Geomorphic Position (D2)  Stellow Aquitard (D3)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY Nettand Hydrology Indicato Frinary Indicator (Mnimum source) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Veglatard Conc Field Observations: Surface Water Present?	of one required; of one	beck all that apphy)  Water-Slained Leaves (B9) (except 1, 2, 4A, and 4B)  Sait Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sutfide Odor (C1)  Oxidizad Rhinospheras along Livin  Presence of Reduced Iron (C4)  Racent Iron Reduced Iron (D1)  Other (Explain in Remarks)	pt MLRA  Secondary Indicators (2 or more required)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterna (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (6 Geomorphic Position (D2)  Stellow Aquitand (D3)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY Nettand Hydrology Indicato Frinary Indicator (Mnimum source) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Veglatard Conc Field Observations: Surface Water Present?	of one required; of lesi Imagery (B7) lave Surface (B8) YesNo YesNo	beck aff that apply)  Water-Steined Leaves (B9) (except 1, 2, 4A, and 4B)  Saft Crust (B11)  Aquetic Invertebrates (B13)  Hydrogen Sutfide Order (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)  Recent from Reduction in Tilled So  Stunied or Stressed Plants (D1) (L  Other (Explain in Remarks)	Secondary Indicators (2 or more requited)  pt MLRA
YDROLOGY Nettand Rydrology Indicato Primary Indicators (Indinumo, Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mart or Cruat (B4) Iron Deposits (B5) Surface Soil Creaks (B6) Inundation Viable on Aeri Sparsely Vegetated Conc Field Observations: Surface Water Present? Neter Table Present?	of one required; of one	beck aft that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Sait Crust (B11)  Aquetic Invertebrates (B13)  Hydrogen Suffice Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced fron (C4)  Recent from Reduction in Tilled So  Stunied or Stressed Plants (D1) (L  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	pt MLRA  Secondary Indicators (2 or more required)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterna (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (6 Geomorphic Position (D2)  Stellow Aquitand (D3)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOGY  Nestand Hydrology Indicato  Frimary Indicator (minimum,  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Sparsely Vegetated Conc  Field Observations:  Surface Water Present?  Nater Table Present?  Saturation Present?	isi Imagery (B7) ave Surface (B8) Yes No Yes No	beck aft that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Saft Crust (B1)  Aquetic Invertebrates (B13)  Hydrogen Suffice Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)  Racent Iron Reduccion in Tilled So  Stunied or Stressed Plants (D1) (L  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	pt MLRA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterna (B10) Drainage Patterna (B10) Drainages (C3) Geomorphic Position (D2) Saturation Visible on Aerial fraegery (C3) Geomorphic Position (D2) Shellow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Neutral Test (D7)  Wetland Hydrology Present? Yes No
YDROLOGY  Nestand Hydrology Indicato  Frimary Indicator (minimum,  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Sparsely Vegetated Conc  Field Observations:  Surface Water Present?  Nater Table Present?  Saturation Present?	isi Imagery (B7) ave Surface (B8) Yes No Yes No	beck aff that apply)  Water-Steined Leaves (B9) (except 1, 2, 4A, and 4B)  Saft Crust (B11)  Aquetic Invertebrates (B13)  Hydrogen Sutfide Order (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)  Recent from Reduction in Tilled So  Stunied or Stressed Plants (D1) (L  Other (Explain in Remarks)	pt MLRA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterna (B10) Drainage Patterna (B10) Drainages (C3) Geomorphic Position (D2) Saturation Visible on Aerial fraegery (C3) Geomorphic Position (D2) Shellow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Neutral Test (D7)  Wetland Hydrology Present? Yes No
YDROLOGY Netland Rydrology Indicato Primary Indicators (minimum - Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Crocks (B6) Inundation Visible on Aeri Sparsely Vegetated Conc Field Observations: Surface Water Present? Nater Table Present? Saturation Present? includes capillary fringe) Describe Recorded Data (stre	isi Imagery (B7) ave Surface (B8) Yes No Yes No	beck aft that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Saft Crust (B1)  Aquetic Invertebrates (B13)  Hydrogen Suffice Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)  Racent Iron Reduccion in Tilled So  Stunied or Stressed Plants (D1) (L  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	pt MLRA Water-Stained Leaves (39) (MLRA 1, 4A, and 48)
YDROLOGY  Westerned Rydrology Indicator  Primery Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Sparsely Vegetated Conc  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?	isi Imagery (B7) ave Surface (B8) Yes No Yes No	heck all that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin Presence of Reduced fron (C4)  Recent iron Reduction in Tilled So  Stunied or Stressed Plants (D1) (L  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):  Depth (sinches):	Secondary Indicators (2 or more required)  pt MLRA
YDROLOGY  Wettand Rydrology Indicato Primary Indicators (Indiremony Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mart or Cruar (B4) Iron Deposits (B5) Surface Soil Crocks (B6) Inundation Visible on Aeri Sparsely Vegetated Conc Field Observations: Surface Water Present? Water Table Present? Saturation Present? includes capillary fringe) Describe Recorded Data (stre	isi Imagery (B7) ave Surface (B8) Yes No Yes No	heck all that apphy)  Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin Presence of Reduced fron (C4)  Recent iron Reduction in Tilled So  Stunied or Stressed Plants (D1) (L  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):  Depth (sinches):	pt MLRA Water-Stained Leaves (39) (MLRA 1, 4A, and 48)

Sampling Point: \_\_\_\_

Dject/Site: S. Th	1		City/County:	Marysuile Sampling Date	3-21
plicant/Owner:				State: WA Sampling Point	DA
	Sewall	<u> </u>	Section Towns	hip, Range:	
				ncaye, convex, none):S	
		Lat:		Long: Da	
Il Map Unit Name:	<del></del>	**************************************		NWI classification:	
climatic / hydrologic conditions on				No (If no, explain in Remarks.)	
Vegetation, Soil, c	or Hydrology	significantly	disturbed?	Are 'Normal Circumstances' present? Yes	No
Vegetation Soft c	r Hydrology	naturally pro	blematic?	(If needed, explain any answers in Remarks.)	
MMARY OF FINDINGS	Attach site ma	n showing	samnling r	oint locations, transects, important t	lantures, el
		ib anomara	omishing b	one reserves, autorous, important	
lydrophytic Vegetation Present?	Yes	No	Is the S	ampled Area	
ydric Soll Present?	Yes	No	within a	Wetland? Yes No	
etland Hydrology Present?	Yes				<del></del>
emerks. above	Normal	ram	Fall		
- agricul	wel F.	وألصاء	w/di	them + tibe	
GETATION - Use scientifi				<i></i>	
OLIATION - Ope Scientis	ic italites of pa		Dominant Inc	icatar   Dominance Test worksheet:	
ee Stratum (Plot size:	)		Species? S		
					(A)
				Total Number of Dominant	
-			-	Species Across All Strata:	(8)
				Percent of Dominant Species	
			□ Total Cover	That Are OBL, FACW, or FAC:	(A/E
olino/Shrub Stratum (Plot size:_	)			Prevalence Index worksheet:	
				Total % Cover of: Multi	nk. b.c
**************************************				OBL species x1 =	
			-	FACW species x2 = x2 = x	
				FAC species x3 =	
<del></del>	<del></del>		= Total Cover	FACU species x4=	
rb Stratum (Plot size:			-	UPL species x5=	
COR		100	·	Column Totals:(A)	
-			***************************************		·
				Prevalence Index = B/A =	
-				Hydrophytic Vegetation indicators:	
				Dominance Test is >50%	
· · · · · · · · · · · · · · · · · · ·					
				Morphological Adaptations' (Provid	le supporting to sheet)
				Wetland Non-Vescular Plants'	- Clast
				Problematic Hydrophytic Vegetation	n' (Explain)
				Indicators of hydric soli and wetland hy	
				be present, unless disturbed or problem	atic.
` <del></del>			_= Total Cover		
` <del></del>	,			1	
` <del></del>				Literatura de la compansa del compansa de la compansa del compansa de la compansa	1
oody Vine Stratum (Plot size:			<del></del>	Hydrophytic Vegetation	/
` <del></del>			* Total Cover	Hydrophytic Vegetation Present? YesNo	_

OIL		Sampling Point:
Profile Description: (Describe to the de	oth needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix	Redox Fontures	
(inches) Cotor (moist) %	Color (moist) % Type Loc	Texture Remarks
12 104/2 2/2		
16 104314		ede be
		/
The CoConcentration Defination Of	=Reduced Matrix, CS=Covered or Coated Sand G	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
hydric Soit Indicators: (Applicable to al		Indicators for Problematic Hydric Soils:
• • • • • • • • • • • • • • • • • • • •	•	
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)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	_
Thick Dark Surface (A12)	Redox Derk Surface (F6)	findicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	watland hydrology must be present.
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problemetic.
Restrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soll Present? Yes No
Remarks:		Hydric don Flassik) 108 RO
	No judi	6000 ·
YDROLOGY	700 7750	
Welland Hydrology Indicators:		
Welland Hydrology Indicators: Primary indicators (minimum of one require	d, check ell that apply)	Secondary Indicators (2 or more resulted)
Welland Hydrology Indicators:		Secondary Indicators (2 or more resulted)  RAWater-Stained Leaves (B9) (MLRA 1,
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	d, check ell that apply)	Secondary Indicators (2 or more resulted)
Webland Hydrology Indicators: Primary Indicators (minimum of one requirs Surface Water (A1)	d. check all that apply)	Secondary Indicators (2 or more resulted)  RAWater-Stained Leaves (B9) (MLRA 1,
Weltend Hydrology Indicators: Primery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3)	vd. check all that apply)  Water-Steined Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B1)	Secondary Indicators (2 or more required)  """  """  """  """  """  """  """
Welsand Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	d; check all that apply)	Secondary Indicators (2 or more required)  RA
Welsand Hydrology Indicators:  Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2)	d. check aft that apply)  Water-Stained Leaves (B9) (except Mt. 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2.0r more required)  RA
Welsand Hydrology Indicators:  Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	vd. check all that apply)  Water-Stained Leaves (B9) (except ML1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizrospheres along Living Ror	Secondary Indicators (2 or more resultest)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (6 obs (C3))  Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mat or Crust (B4)	d. check all that apply)  Water-Stained Leaves (B9) (except ME 1, 2, 4A, and 4B)  Sait Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror  Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (0  Geomorphic Position (02)  Shatow Aquitard (03)
Nethand Hydrology Indicators:  Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mart or Crust (B4) Iron Deposite (B5)	d. check all that apply)  Water-Steined Leaves (B9) (except ME: 1, 2, 4, and 48)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Rot  Presence of Reduced inon (C4)  Racent fron Reduction in Tillad Solis (Ci	Secondary Indicators (2 or more resulted)  RA
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mat or Crust (B4)	d. check all that apply)  Water-Stained Leaves (B9) (except ME 1, 2, 4A, and 4B)  Sait Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror  Presence of Reduced Iron (C4)	Secondary Indicators (2.0r more required)  RA
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mart or Crust (B4)  Iron Deposits (B5)	d. check all that apply)  Water-Stained Leaves (B9) (except ML-1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ros  Presence of Reduced Iron (C4)  Racent fron Reduction in Tilled Soils (Cl  Stunied or Stressed Plants (D1) (LRR A	Secondary Indicators (2 or more resulted)  RA
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	wid. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ros  Presence of Reduced Iron (C4)  Racent Iron Reduction in Taled Soils (CI  Stunied or Stressed Plents (D1) (LRR A  Other (Explain in Remarks)	Secondary Indicators (2.or more resulted)  RA
Wethand Hydrology Indicators:  Primery Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mart or Crust (B4) Iron Deposits (B6) Surface Soil Cracks (B6) Invandation Visable on Aerial Imagery (E Sparsely Vegetated Concave Surface	wid. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ros  Presence of Reduced Iron (C4)  Racent Iron Reduction in Taled Soils (CI  Stunied or Stressed Plents (D1) (LRR A  Other (Explain in Remarks)	Secondary Indicators (2.or more resulted)  RA
Wethand Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Seturation (A3) Weter Marks (B1) Sediment Deposits (B2) Orift Deposits (B3) Aigel Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Immdation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface (B6) Field Observations:	d. check all that apply)  Water-Steined Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror  Presence of Reduced Iron (C4)  Racent fron Reduction in Tilled Solis (Cil  Stunfed or Stressed Plants (D1) (LRR A)  Other (Explain in Remarks)	Secondary Indicators (2.or more resulted)  RA
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Cruz (B4) Indicator Soil Cracks (B6) Imundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface (Field Observations)	M. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhiztospheres along Living Ror  Presence of Reduced Inn (C4)  Racent fron Reduction in Titled Solls (Cl  Stunfed or Stressed Plants (D1) (LRR A  Other (Explain in Remarks)  R8  NoDepth (Inohee):	Secondary Indicators (2 or more resulted)  RA
Welsand Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aigel Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface : Field Observations: Surface Water Present? Water Table Present? Yes Water Table Present?	M. check all that apply)  Water-Steinhed Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ros Presence of Reduced Iron (C4)  Racent Iron Reduction in Titled Soils (Cl Stunied or Stressed Plents (D1) (LRR A  Other (Explain in Remarks)  No Depth (Inches):	Secondary Indicators (2 or more reduted)  — Water-Stained Leaves (89) (MLRA 1, 4A, and 48) — Drainage Patterns (810) — Dry-Season Water Table (C2) — Saturation Visible on Aerial Imagery (C ots (C3) — Geomorphic Position (D2) — Shasow Aquitard (D3) — FAC-Neutral Test (D5) — Raised Ant Mounds (D6) (LRR A) — Frost-Heave Hummocks (D7)
Wethand Hydrology Indicators:  Primery Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mart or Crust (B4) Iron Deposits (B5) Surface Soil Crecks (B6) Inundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present?	M. check all that apply)  Water-Steinhed Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ros Presence of Reduced Iron (C4)  Racent Iron Reduction in Titled Soils (Cl Stunied or Stressed Plents (D1) (LRR A  Other (Explain in Remarks)  No Depth (Inches):	Secondary Indicators (2.or more resulted)  RA
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sodiment Deposits (B2) Drift Deposits (B3) Aigel Mart or Cruzt (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Imundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface (B1) Field Observations: Surface Water Present? Water Table Present? Water Table Present? Yes Saturation Present? Yes Indiudes capitary fringe)	M. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror Presence of Reduced inn (C4) Racent fron Reduction in Tilled Soils (Cl Sturied or Stressed Plents (D1) (LRR A Other (Explain in Remarks)  No Depth (Inches):  No Depth (Inches):  West	Secondary Indicators (2.or more resulted)  RA
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sodiment Deposits (B2) Drift Deposits (B3) Aigel Mart or Cruzt (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Imundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface (B1) Field Observations: Surface Water Present? Water Table Present? Water Table Present? Yes Saturation Present? Yes Indiudes capitary fringe)	M. check all that apply)  Water-Steinhed Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ros Presence of Reduced Iron (C4)  Racent Iron Reduction in Titled Soils (Cl Stunied or Stressed Plents (D1) (LRR A  Other (Explain in Remarks)  No Depth (Inches):	Secondary Indicators (2 or more resulted)  Water-Stained Leaves (B9) (MLRA 1, 4A, and 48)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (6 cts (C3) Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
Weband Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Invandation Visible on Aerial Imagery (E Spansely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Caturation Present? Yes Describe Recorded Data (stream gauge, m	M. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror Presence of Reduced inn (C4) Racent fron Reduction in Tilled Soils (Cl Sturied or Stressed Plents (D1) (LRR A Other (Explain in Remarks)  No Depth (Inches):  No Depth (Inches):  West	Secondary Indicators (2.or more resulted)  RA
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sodiment Deposits (B2) Drift Deposits (B3) Aigel Mart or Cruzt (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Imundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface (B1) Field Observations: Surface Water Present? Water Table Present? Ves Saturation Present? Yes Indiudes capitary fringe)	d. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror  Presence of Reduced Iron (C4)  Racent fron Reduction in Taled Solis (Ci  Stunied or Stressed Plents (D1) (LRR A  Other (Explain in Remarks)  No Depth (Inches):  No Depth (inches):  Wett	Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C C3)  Geomorphic Position (D2)  Shatow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  land Hydrology Present? Yes No  if available:
Weband Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Invandation Visible on Aerial Imagery (E Spansely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Caturation Present? Yes Describe Recorded Data (stream gauge, m	d. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror  Presence of Reduced Iron (C4)  Racent fron Reduction in Taled Solis (Ci  Stunied or Stressed Plents (D1) (LRR A  Other (Explain in Remarks)  No Depth (Inches):  No Depth (inches):  Wett	Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C C3)  Geomorphic Position (D2)  Shatow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  land Hydrology Present? Yes No  if available:
Weband Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Invandation Visible on Aerial Imagery (E Spansely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Caturation Present? Yes Describe Recorded Data (stream gauge, m	M. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror Presence of Reduced inn (C4) Racent fron Reduction in Tilled Soils (Cl Sturied or Stressed Plents (D1) (LRR A Other (Explain in Remarks)  No Depth (Inches):  No Depth (Inches):  West	Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C2)  Shation Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  land Hydrology Present? Yes No
Weband Hydrology Indicators:  Primary Indicators (minimum of one requirs Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Invandation Visible on Aerial Imagery (E Spansely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Caturation Present? Yes Describe Recorded Data (stream gauge, m	d. check all that apply)  Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Ror  Presence of Reduced Iron (C4)  Racent fron Reduction in Taled Solis (Ci  Stunied or Stressed Plents (D1) (LRR A  Other (Explain in Remarks)  No Depth (Inches):  No Depth (inches):  Wett	Secondary Indicators (2 or more resulted)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C2)  Shation Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  land Hydrology Present? Yes No

Project/Site: S.thu	City/County:	arysuile sampling Date 3-21-17
Applicant/Owner:		State: WA Sampling Point DP#
investigatoria: Zd Sewal	Section, Township, R	ange:
		. convex, none) Slape (%):
		Long: Datum:
Soil Map Unit Name:		NWI clessification:
Are climatic / hydrotogic conditions on the site typical fo	r this time of year? Yes No	
Are Vegetation, 8oil, or Hydrology	minufferents distributed?	"Normal Circumstances" present? Yes No
Are Vegetation Soit or Hydrology		needed, explain any answers in Remarks.)
		locations, transects, important features, etc.
SOMMUNT OF FINDINGS - Attich site in	sh suowing sambing bour	iocations, (ransacts, important restures, etc.
Hydrophytic Vegetation Present? Yes		ad Arma
Hydric Soil Present? Yes	No Newsia a Martin	/
	_ No	
Remarks. above worms	I ram Fall .	
- agricultual F.	ield w/dital	m+tile
VEGETATION - Use scientific names of p		
	Absolute Dominant Indicator	Dominance Test worksheet:
Irea Stratum (Plot size:)	% Cover Species? Stetus	
1.		That Are OBL, FACW, or FAC:(A)
2.		Total Number of Dominant
3.		Species Across All Strata: (B)
4.		Percent of Dominant Species
Secting/Shrub Stratum (Plot size:	- Total Cover	That Are OBL, FACW, or FAC: (A/B)
1.		Prevalence Index worksheet:
2.		Total % Cover of: Multiply by:
3.		OBL species x1 =
4.		FACW species x2 =
5.		FAC species x3 =
Herb Stratum (Plot size:)	> Total Cover	FACU species x 4 =
Herb Stratum (Plot size:) 1	IN NI	UPL species x5=
3		Column Totals: (A) (B)
3	indirektion brokensermenteelist skuurentiiselesteerin tähteevastuurentii	Prevalence Index = B/A =
4.		Hydrophytic Vegetation Indicators:
5.		Dominance Test is >50%
6		Prevalence Index is s3.0*
7.		Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
8		Wetland Non-Vescular Plants <sup>1</sup>
		Problematic Hydrophytic Vegetation¹ (Explain)
9		
10.		Indicators of hydric soil and wattand hydrology must
		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
11.	- Total Cover	
		be present, unless disturbed or problematic
10	= Total Cover	be present, unless disturbed or problematic  Hydrophytic Vegetation
11.	= Total Cover	be present, unless disturbed or problematic  Hydrophytic

halla Dissalation, (Nasadia ta 11 - 1	oth needed to document the indicator or confir	m the physics of inches
	• • • • • • • • • • • • • • • • • • • •	us rue eraeuce or marcelote")
Depth Matrix (Inches) Color (moist) %	Redox Festures Color (maist) % Type Loc	Texture Remarks
374 <u>119</u> 71	Color (moist) % Type 1 Loc2	
13 104n312		
16 1043/3		de com
and the same of th		
		_ <del></del>
	A=Reduced Matrix, CS=Covered or Coated Sand (	
lydric Soil Indicators: (Applicable to a	il 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	1) Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	•
Depleted Below Derk Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present.
Sandy Gleyed Matrix (S4)	Redax Depressions (F8)	unless disturbed or problematic.
testrictive Layer (if present):	The second of the second secon	The state of the s
Туре:	to-tropping.	1
Depth (inches):		Hydric Soil Present? Yes No
	No	indialos
YDROLOGY	No	indialos
YDROLOGY Netland Hydrology Indicators:	No	indicates
Velland Hydrology Indicators:		Secondary Indicators (2 or more required
Netland Hydrology trollostors: rimary Indicators (minimum of one requir Surface Water (A1)	ed. check eff that apply) Water-Steined Leaves (89) (except Mi	Secondary Indicators (2 or more required  LRA Water-Stained Leaves (69) (MLRA 1
Netland Hydrology Indicators:  Timers Indicators (minimum of one requir  Surface Water (A1)  High Water Table (A2)	ed. check all that apply)  —— Water-Stained Leaves (B9) (except Mi —— 1, 2, 4A, and 4B)	Secondary Indicators (2 or more required  LRAWater-Stained Leaves (89) (MLRA 1  4A, and 48)
Netland Hydrology Indicators:  Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3)	ed. check all that apply)  Water-Stained Leaves (B9) (except Mil 2, 4A, and 4B) Salt Crust (B11)	Secondary Indicators (2 or more required  Water-Stained Leaves (89) (MLRA 1  4A, and 48)
Neisand Hydrology Indicators: himary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ed. check aft that apply)  Water-Stahed Leaves (B9) (except Mf 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required  Water-Stained Leaves (89) (MLRA 1  4A, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)
Neitland Hydrology Indicators:  htmany Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	ed. check all that acpir)  Water-Stained Leaves (B9) (except Mf 1, 2, 4A, and 48)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)	Secondary Indicators (2 or more required  LRA Water-Steined Leaves (89) (MLRA 1 4A), and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (
Neisand Hydrology Indicators:  htmany indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	ed. check all that apply)  Water-Stained Leaves (89) (except Mills, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living Re	Secondary Invicators (2 or more required  LRA Water-Steined Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Weter Table (C2) Saturation Visible on Aerial Imagery ( oots (C3) Geomorphic Position (O2)
Neisand Hydrology Indicators:  Primery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aigal Mat or Crust (B4)	ed. check all that apply)  Water-Stained Leaves (B9) (except Mil. 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffice Odor (C1)  Oxidized Rhizospheres along Living Rill  Presence of Reduced Iron (C4)	Secondary Indicators I2 or more required  4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)  Shaflow Aquiterd (D3)
Neisand Hydrology Indicators:  htmany indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	ed. check all that apply)  Water-Stained Leaves (89) (except Mills, 2, 4A, and 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living Re	Secondary Indicators I2 or more required  4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)  Shaflow Aquiterd (D3)
Neisand Hydrology Indicators:  Primery Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aigal Mat or Crust (B4)	ed. check all that apply)  Water-Stained Leaves (B9) (except Mil. 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffice Odor (C1)  Oxidized Rhizospheres along Living Rill  Presence of Reduced Iron (C4)	Secondary Indicators I2 or more required  Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( oots (C3)  Geomorphic Position (D2)  Shallow Aquistrd (D3)  FAC-Neutral Test (D5)
Neitland Hydrology Indicators:  htmany Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drik Deposits (B3) Algel Mat or Crust (B4) Iron Deposits (B5)	ed. check all that apply)  Water-Stalhed Leaves (B9) (except Mf 1, 2, 4A, and 48)  Salt Crust (B1)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living Re Presence of Reduced fron (C4)  Racent fron Reducion in Tillad Soils (C	Secondary Indicators I2 or more required  Water-Stained Leaves (89) (MLRA 1 4A, and 4B)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery ( oots (C3)  Geomorphic Position (D2)  Shallow Aquistrd (D3)  FAC-Neutral Test (D5)
Neitland Hydrology Indicatora:  htmary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	ed. check aft that apply)  Water-Stained Leaves (B9) (except Mf 1, 2, 4A, and 48)  Satt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheras along Living R  Presence of Reduced Iron (C4)  Recent fron Reduction in Titled Soils (C Sturtled or Stressed Plants (D1) (LRR B7)  Other (Explain in Remarks)	Secondary Indicators I2 or more required  LRA Water-Stained Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( oots (C3) Geomorphic Position (D2) Shallow Aquitand (D3) C8) FAC-Noutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Neilland Hydrology Indicatora:  htmarv Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Afgel Mat or Crust (B4) Iron Deposits (B5) Surface Soil Crucks (B6) Inundation Viebte on Aerial Imagery ( Sparsely Vegetated Concave Surface	ed. check aft that apply)  Water-Stained Leaves (B9) (except Mf 1, 2, 4A, and 48)  Satt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheras along Living R  Presence of Reduced Iron (C4)  Recent fron Reduction in Titled Soils (C Sturtled or Stressed Plants (D1) (LRR B7)  Other (Explain in Remarks)	Secondary Indicators I2 or more required  LRA Water-Stained Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( oots (C3) Geomorphic Position (D2) Shallow Aquitand (D3) C8) FAC-Noutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Neitland Hydrology Indicators:  htmany Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Viable on Aerial Imagery ( Sparsely Vegetated Concave Surface Field Observations:	ed. check all that apply)  Water-Stained Leaves (B9) (except Mf 1, 2, 4A, and 4B)  Salt Crust (B1)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Re Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C 5)  Sturtled or Stressed Plants (D1) (LRR B7)  Other (Explain in Remarks)	Secondary Indicators I2 or more required  LRA Water-Stained Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( oots (C3) Geomorphic Position (D2) Shallow Aquitand (D3) C8) FAC-Noutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Neitland Hydrology Indicators:  htmary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Dirit Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B8)  Inundation Vielde on Aerial Imagery (  Sparsely Vegetated Concave Surface (Bd)  Isolado Observations:  Surface Water Present?	ed. check all that apply)  Water-Stained Leaves (B9) (except Mf 1, 2, 4A, and 4B)  Salt Crust (B1)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Re Presence of Reduced Iron (C4)  Recent Iron Reducion in Tilled Soils (C  Sturded or Stressed Plants (D1) (LRR  B7)  Other (Explain in Remarks)	Secondary Indicators (2 or more required LRA Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( oots (C3) Geomorphic Position (D2) Shaflow Aquitant (D3) C8) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Neisand Hydrology Indicatora:  **Primary Indicators (minimum of one requir  **Surface Water (A1)**  **High Water Table (A2)*  **Saturation (A3)*  **Water Marks (B1)*  **Sediment Deposits (B2)*  **Drift Deposits (B3)*  **Algel Mat or Crust (B4)*  **Iron Deposits (B5)*  **Surface Soil Cracks (B6)*  **Inundation Visible on Aerial Imagery (  **Sparsely Vegetated Concave Surface (B6)*  **Indid Observations:  **Surface Stater Present?**  **Vester Table Present?**  **Yes	ed. check aft that apply)  Water-Stained Leaves (B9) (except Mf 1, 2, 4A, and 48)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living Rt  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C Sturiled or Stressed Plants (D1) (LRR B7)  Other (Explain in Remarks)  No Depth (Inches):	Secondary Insticutors (2 or more required LRA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visite on Aerial Imagery ( oots (C3) Geomorphic Position (D2) Shallow Aquitant (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Neisand Hydrology Indicators:  **Inimary Indicators (minimum of one requir  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Viebte on Aerial Imagery ( Sparsely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Yes  Saturation Present?  Yes	ed. check all that apply)  Water-Stained Leaves (B9) (except Mingle 1, 2, 4A, and 48)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living Represence of Reduced Iron (C4)  Recent Iron Reduction in Titled Soils (C5)  Sturtled or Stressed Plants (D1) (LRR D1)  B7)  Other (Explain in Remarks)  No Depth (inches):	Secondary Indicators I2 or more required  LRA Water-Stained Leaves (89) (MLRA 1 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( oots (C3) Geomorphic Position (D2) Shallow Aquitand (D3) C8) FAC-Noutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Neisand Hydrology Indicatora:  **Primary Indicators (minimum of one requir  **Surface Water (A1)**  **High Water Table (A2)*  **Saturation (A3)*  **Water Marks (B1)*  **Sediment Deposits (B2)*  **Drift Deposits (B3)*  **Aigel Mat or Crust (B4)*  **Iron Deposits (B5)*  **Surface Soil Cracks (B6)*  **Inundation Viable on Aerial Imagery (  **Sparsely Vegetated Concave Surface*  **Isld Observations:  **Uniface Water Present?**  **Vester Table Present?*  **Vester Table Pre	ed. check all that apply)  Water-Stained Leaves (B9) (except Mills, Augustic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Re Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Sturded or Stressed Plants (D1) (LRR B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches): We	Secondary Indicators I2 or more required  LRA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( oots (C3) Geomorphic Position (D2) Shallow Aquistard (D3) C8) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  Wland Hydrology Present? Yes No
Neisand Hydrology Indicatora:  **Primary Indicators (minimum of one requir  **Surface Water (A1)**  **High Water Table (A2)*  **Saturation (A3)*  **Water Marks (B1)*  **Sediment Deposits (B2)*  **Drift Deposits (B3)*  **Aigel Mat or Crust (B4)*  **Iron Deposits (B5)*  **Surface Soil Cracks (B6)*  **Inundation Viable on Aerial Imagery (  **Sparsely Vegetated Concave Surface*  **Isld Observations:  **Uniface Water Present?**  **Vester Table Present?*  **Vester Table Pre	ed. check all that apply)  Water-Stained Leaves (B9) (except Mingle 1, 2, 4A, and 48)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Living Represence of Reduced Iron (C4)  Recent Iron Reduction in Titled Soils (C5)  Sturtled or Stressed Plants (D1) (LRR D1)  B7)  Other (Explain in Remarks)  No Depth (inches):	Secondary Indicators I2 or more required  LRA Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( oots (C3) Geomorphic Position (D2) Shallow Aquistard (D3) C8) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  Wland Hydrology Present? Yes No
Neisand Hydrology Indicatora:  **Primary Indicators (minimum of one requir  **Surface Water (A1)**  **High Water Table (A2)*  **Saturation (A3)*  **Water Marks (B1)*  **Sediment Deposits (B2)*  **Drift Deposits (B3)*  **Aigel Mat or Crust (B4)*  **Iron Deposits (B5)*  **Surface Soil Cracks (B6)*  **Inundation Viable on Aerial Imagery (  **Sparsely Vegetated Concave Surface*  **Isld Observations:  **Uniface Water Present?**  **Vester Table Present?*  **Vester Table Pre	ed. check all that apply)  Water-Stained Leaves (B9) (except Mf 1, 2, 4A, and 48)  Satt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheras along Living Right (C4)  Recent fron Reduction in Titled Soils (C Sturted or Stressed Plants (D1) (LRR B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  We monitoring well, serial photos, previous inspections	Secondary Invicators (2 or more required  LRA
Neisand Hydrology Indicators:  **Primery Indicators (minimum of one requir  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 Visable on Aerial Imagery ( Sparsely Vegetated Concave Surface  Field Observations:  Vater Table Present?	ed. check all that apply)  Water-Stained Leaves (B9) (except Mf 1, 2, 4A, and 48)  Satt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheras along Living Right (C4)  Recent fron Reduction in Titled Soils (C Sturted or Stressed Plants (D1) (LRR B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  We monitoring well, serial photos, previous inspections	Secondary Invicators (2 or more required  LRA
Neisand Hydrology Indicators:  **Primery Indicators (minimum of one requir  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 Visable on Aerial Imagery ( Sparsely Vegetated Concave Surface  Field Observations:  Vater Table Present?	ed. check all that apply)  Water-Stained Leaves (B9) (except Mills, Augustic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Living Re Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Sturded or Stressed Plants (D1) (LRR B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches): We	Secondary Insticutors (2 or more resulted LRA

### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: Section, Township, Range: Investigator(e): Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR) Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_\_, Soit \_\_\_\_\_\_, 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? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes\_\_\_\_ No\_\_\_ above wormal rainfall - agricultural Field w/difding + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Strakem (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL. FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species a Total Cover That Are OBL, FACW, or FAC: Saplino/Shrub Stratum (Plot size: Prevalence index worksheet: Total % Cover of: Multiply by: OBL species x1= FACW species FAC species \_\_\_\_ » Total Cover FACU species \_\_\_ Herb Stratum (Plot size: UPL species \_\_\_\_ Column Totals: \_\_\_ Prevalence Index \* B/A = Hydrophytic Vegetation Indicators Dominance Test is >50% Prevelence Index is \$3.0° Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants<sup>1</sup> Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic \* Total Cover Woody Vine Stratum (Plot size: Hydrophytic = Total Cover % Bare Ground in Herb Stratum

Depth Matrix		Redox Features		
(inches) Color (moist)	% (		oc Textu	Remarks
	77-			
10 /2/2				
16 109h 3.	17		500	y an
				<del>/</del>
Type: C=Concentration, D=D	epletion, RM=Re	duced Matrix, CS=Covered or Costed Si	and Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix,
Hydric Soll Indicators: (Appl	licable to all LRF	ts, unless otherwise noted.)	ind	icators for Problemetic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Redox (S5)		2 cm Muck (A10)
Histic Epipadon (A2)		Stripped Matrix (S6)		Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Mineral (F1) (except ML	DA 41	Other (Explain in Remarks)
		Loamy Gleved Metrix (F2)	JAN 1)	Owner (Explain in Nectioning)
Hydrogen Sulfide (A4)				
Depleted Below Dark Surf		Depleted Matrix (F3)	<b>3</b>	
Thick Dark Surface (A12)		Redox Derk Surface (F6)		Scators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)		Depleted Dark Surface (F7)		wattend hydrology must be present,
Sandy Gleyed Matrix (S4)		Redax Depressions (F6)	1	unless disturbed or problematic.
Restrictive Layer (if present)	:		1	
Туре:			1	
Depth (inches):			Mudde	Soil Present? Yes No
Remarks:				
YDROLOGY				
Wetland Hydrology Indicator	<b>19.</b> :			
Primary Indicators (minimum o	fone required; cf	seck all that apply)	5	Secondary indicators (2 or more required)
Surface Water (A1)		Water-Stained Leaves (B9) (excep	ot MLRA	Water-Stained Leaves (89) (MLRA 1,
High Water Table (A2)		1, 2, 4A, and 4B)		4A, and 4B)
Saturation (A3)		Salt Crust (B17)		Drainage Patterns (810)
			-	
Water Marks (B1)		Aquatic invertebrates (B13)	-	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Hydrogen Sulfide Odor (C1)	_	Saturation Visible on Aerial Imagery (C
Drift Deposits (B3)		Oxidized Rhizospheres along Livin	ng Roots (C3)	Geomorphic Position (D2)
Algel Met or Crust (B4)		Presence of Reduced Iron (C4)	_	Shallow Aquitard (D3)
Iron Deposits (B5)		Recent Iron Reduction in Tilled So		FAC-Neutral Test (D5)
Surface Soil Cracks (B6)		Sturnled or Stressed Plants (D1) (I		Raised Ant Mounds (D6) (LRR A)
	al language (D*)	Other (Explain in Remarks)		Frost-Heave Hummocks (D7)
Inundation Visible on Aeris		oner (caperu in sceneras)	-	cirecustra cuminoda (D1)
Sparsely Vegetated Concr	rve Surface (B8)			
Field Observations:				
Surface Water Present?	Yes No	Depth (inches):		
Water Table Present?	Yes No			
Saturation Present?	Yes No		Marines House	ology Present? Yes No
Securation Present? Includes capitary fringe)	105	Debtu (siciles);	THE LIBITIO PLYOT	CODY Present: 183 NO
Describe Recorded Data (stres	em gauge, monito	oring well, serial photos, previous inspec	tions), if available	<b>*</b> :
Describe Recorded Data (stree	sm gauge, monito	oring well, serial photos, previous inspec	tions), if available	•:
	am gauge, monito	ning well, serial photos, previous inspec	tions). if evallabl	
	sm gauge, monito			
	am gauge, monito	oring well, serial photos, previous inspect		
	sm gauge, monito			
	sm gauge, monito			
Describe Recorded Data (stree	am gauge, monito			

Sampling Point: \_\_\_

	E I LAND DE IE	: KMINA I KUN I	JA I A FURI		untains, Valleys, and Coast Region
roject/Site:	Sith	<u> </u>		City/County: <u>M</u>	arysuile sampling Date: 3-21
plicant/Owner: _					State: WA Sampling Point DY
restigator(s):	20 S	<u>sewall</u>	L	Section, Township, Ra	ange:
ndform (hillstope	, terrace, etc ):			Local relief (concave,	convex, none): Slope (%):
					Long: Detum:
li Map Unit Nam	e:				NWI clessification:
climatic / hydro	dogic conditions on	the site typical for	this time of ve	nr? Yes No	(If no, explain in Remarks.)
	8oil o				"Normel Circumstances" present? Yes No
	Soil o				eeded, explain any answers in Remarks.)
UMMAKY OF	FINDINGS - /	attach site ma	p snowing	sampling point	locations, transects, important features, et
łydrophytic Vege	etation Present?		No	is the Sample	d Arma
tydric Sail Prese		Yes		within a Worla	
Vetland Hydrolog			No		
Remerks.	above	Normal	ram	Fall.	. •.
-	- agriculi	wel E.	، کما ہ	aldita	m + tile
EGETATION	- Use scientifi	c names of ol	ants.		
				Dominant Indicator	Dominance Test worksheet:
,	lot size:			Species? Status	I regrider of Commant Spaces
					That Are OBL, FACW, or FAC: (A)
					Total Number of Dominant
				***************************************	Species Acroes All Strata: (B)
·		···········		= Total Cover	Percent of Dominant Species
apling/Shrub Str	ratum (Plot size:_		***************************************	- Loren Cones	That Are OBL, FACW, or FAC: (A/B
					Prevalence Index worksheet:
·					Total % Cover of: Multiply by:
·				-	OSL species x1 =
· <del></del>					FACW species x2 =
· <del></del>					FAC species ×3 =
lerb Stratum (P	lot size:	1	************	= Total Cover	FACU species x4=
Co	~~		100	MI	UPL species x 5 = (B)
	······································	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Column Totals: (A)
					Prevalence Index = B/A =
					Hydrophytic Vegetation Indicators:
					Dominance Test is >50%
					Prevalence Index is \$3.0
					Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
	·				Wettend Non-Vescular Plants
					Problematic Hydrophytic Vegetation¹ (Explain)
					Indicators of hydric soil and watland hydrology must
I				# Total Cover	be present, unless disturbed or problematic.
loody Vine Strat	um (Plot size:			- IOSE COAR	
					Hydrophytic
					Vegetation
·					
·	Herb Stratum			* Total Cover	Present? Yes No

Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Mucky Mineral (S1) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F6) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No placetes **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) (except MLRA Water-Stained Leaves (89) (MLRA 1, 2, 4A, and 4B) \_\_\_ High Water Table (A2) 1, 2, 4A, and 4B) Salt Crust (B11) Drainage Patterns (810) Saturation (A3) Water Marks (B1) \_\_\_ Aquatic invertebrates (B13) \_\_ Dry-Seuson Water Table (C2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Sediment Denosits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) \_\_\_ Geomorphic Position (D2) Algal Mat or Crust (84) Presence of Reduced Iron (C4) Shallow Aquitard (D3) \_\_ FAC-Neutral Test (D5) Recent fron Reduction in Tilled Soils (C6) Iron Deposits (B5) Sturnled or Stressed Plants (D1) (LRR A) \_\_\_ Raised Ant Mounds (D6) (LRR A) Surface Soil Cracks (B6) \_\_ Frost-Heave Hummocks (D7) Inundation Visible on Asrial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (98) Field Observations: Surface Water Present? Water Table Present? soth (inches) Saturation Present? Depth (inches): Wetland Hydrology Present? Yes (includes capillary fringe)
Describe Recorded Data (st sem gauge, monitoring well, serial photos, previous inspections), if available. Remarks: No Industris Western Mountains, Valleys, and Coast - Interim Version US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Type: C=Concentration. D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

\_\_\_ Sandy Redox (S5)

\_\_\_ Stripped Matrix (S6)

Loamy Gleyed Matrix (F2)

Depleted Matrix (F3)

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Redox Features

Color (moist) % Type Loc Texture

Loamy Mucky Mineral (F1) (except MLRA 1)

Matrix

Color (moist)

12 10-12/2

Histosol (A1)

Histic Epipedon (A2)

Hydrogen Sulfide (A4)
Depleted Below Derk Surface (A11)

Black Histic (A3)

Sampling Point:

<sup>2</sup>Location: PL=Pore Lining, M=Matrix, leators for Problematic Hydric Soils<sup>3</sup>:

indicators for Proble \_\_\_ 2 cm Muck (A10)

\_\_\_ Red Parent Material (TF2)

\_\_\_ Other (Explain in Remarks)

US Army Corps of Engineers Western Mountains, Valleys, and Coast - Interim Version

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: Sewall Section, Township, Range: investigator(s): \_\_\_ Landform (hillslope, terrace, etc.): \_\_\_ Local relief (concave, convex, none): Subregion (LRR) Soil Map Unit Name: NWI cleasification: No \_\_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_ Are Vegetation \_\_\_\_\_, Soli \_\_\_\_\_, or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_ Are Vegetation \_\_\_\_\_ Soit \_\_\_\_\_ 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? No \_\_\_\_ is the Sampled Area Hydric Soil Present? Yes \_\_\_\_ No \_\_ within a Wetland? Wetland Hydrology Present? Remarks. above wormal ramfall - agricultural Field w/diffung + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: \* Total Cover Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x1 = \_\_ FACW species FAC species a Total Cover FACU species \_\_\_\_ Herb Stratum (Plot size: UPL species \_\_\_\_ Column Totals: \_\_ Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevelence Index is \$3.01 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants<sup>1</sup> Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic a Total Cover Woody Vine Stratum (Plot size:

# Total Cover

Vegetation
Present?
Yes \_\_\_\_\_\_No \_\_\_\_

Western Mountains, Valleys, and Coast - Interim Version

Profile Description: (Describe to the de	th needed to document the indicator or confirm	the absence of indicators.)
Depth Metrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type Loc	Texture Remarks
11 1042/2		
1. 1044 312	Few Five Foot	
16 2012312		
		Andrewson and the second secon
Type: C=Concentration, D=Depletion, RM	⇒Reduced Matrix, CS≍Covered or Coated Sand Gr	sins. <sup>2</sup> Location: Pt=Pore Lining, M=Matrix,
tydric Soil Indicators: (Applicable to al		Indicators for Problematic Hydric Soils <sup>5</sup> :
Histosof (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)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loany Glayed Matrix (F2)	Color (Copies) in Notice (Co)
Depleted Below Derk Surface (A11)	Depleted Matrix (F3)	
	Redox Derk Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	wetland hydrology must be present.
Sandy Mucky Mineral (S1)		
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:	The water of	
Depth (inches):		Hydric Soil Present? Yes No No
YDROLOGY		
IYDROLOGY Wellend Hydrology Indicetors:		
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	, ,	
IYDROLOGY Wellend Hydrology Indicetors:	rd, check all that accely) Water-Steined Leaves (89) (except ME.F	Secondary indicators (2 or more required)  Water-Stained Leaves (89) (MLRA 1,
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	, ,	
YDROLOGY Wetland Hydrology Indicators: Primery Indicators (minimum of one requirs Surface Water (A1)	Water-Stained Leaves (B9) (except MLF	Mater-Stained Leaves (89) (MLRA 1,
YDROLOGY Weitland Hydrology Indicators: Primery Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)	tA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
YDROLOGY Wetland Hydrology Indicators: Primery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11)	LA Water-Steined Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
PDROLOGY Wethend Hydrology Indicators: Primery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A5) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1)
YDROLOGY Weltend Hydrology Indicators: Primer Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (89) (except MLR 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo	LA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1 ts (C3) Geomorphic Position (D2)
YDROLOGY Wetland Hydrology Indicators: Primer Instigators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drit Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (89) (except MLR 1, 2, 4A, and 4B) Saft Crust (B11) Aquatic (B11) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4)	LA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) — Drainage Patterns (810) — Dry-Season Water Table (C2) — Saturation Visible on Aerial Imagery ( 5s (C3) — Geomorphic Position (D2) — Shallow Aquitant (D3)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requirs 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)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduction in Tilled Soils (C6)	AA, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitant (D3) FAC-Neutral Test (D5)
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YDROLOGY  Wetherd Hydrology Indicators:  Primery Indicators (minimum of one require Surface Water (A1)  High Water Table (A2) Seturation (A3)  Water Marks (B1) Sediment Deposits (B2)  Dritt Deposits (B3)  Algal Mat or Crust (84)  tron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (E	Water-Stained Leaves (89) (except MLR 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C8 Stunied or Stressed Plants (01) (LRR A) Other (Explain in Remarks)	AA, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitant (D3) FAC-Neutral Test (D5)
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IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Sparasely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No Depth (Inches):	tA Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( 65 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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IYDROLOGY Wettand Hydrology Indicatora: Primers Indicatora: (minimum of one require 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 Viable on Aerial Imagery (E Sparsety Vegetated Concave Surface Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, m	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Solia (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (inches): No Doth (inches): Wette	AA, and 48) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (c) Science Saturation (C2) Scheller Position (D2) Scheller Aguitard (D3) FAC-Noutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IYDROLOGY Wethand Hydrology Indicatora: Primery Indicators: (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Weter Marks (B1) Sediment Deposits (B2) Drik Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Asrial Imagery (B Sparsely Vegetsted Concave Surface Fleid Observations: Surface Water Present? Yes Saluration Present? Yes Saluration Present? Yes Gniculdee capillary fringe) Describe Recorded Date (stream gauge, m	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C8 Stunled or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (Inches): No Depth (inches): Wetts onlitoring well, serial photos, previous inspections).	Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (case) Stained Annual Color (C3) FAC-Noutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
IYDROLOGY Wethand Hydrology Indicators: Primery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drik Deposits (B3) Algal Mart or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Viable on Aarial Imagery (B Sparsely Vegetsted Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saluration Present? Yes Saluration Present? (Includee capillary fringe) Describe Recorded Date (stream gauge, m	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tillad Solia (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (inches): No Doth (inches): Wette	Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (case) Stained Annual Color (C3) FAC-Noutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No

% Bare Ground in Herb Stratum

## WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: \_ Section, Township, Range: Local relief (concave, convex, none): Subregion (LRR) NWI classification: Soil Map Unit Name: No \_\_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ Are Vegetation \_\_\_\_\_\_ Soil \_\_\_\_\_ or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes 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? is the Sampled Area Hydric Soll Present? within a Wetland? Wetland Hydrology Present? Yes\_\_\_\_No\_\_\_ above vormal rain Fall - agricultural Field w/difthing + tile VEGETATION - Use acientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Strekm (Plot size: % Cover Species? Status Number of Dominant Species. That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species a Total Cover That Are OBL, FACW, or FAC: Septima/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x1 = \_\_ FACW species FAC species » Total Cover FACU species \_\_\_\_ Herb Stratum (Plot size: UPL species Column Totals: \_\_\_\_ Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Providence Index is \$3.01 Morphological Adaptations (Provide supporting data in Remerks or on a separate sheet) Wetland Non-Vascular Plants<sup>1</sup> Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators of hydric soil and watland hydrology must be present, unless disturbed or problematic # Total Cover Woody Vine Stratum (Plot size: = Total Cover % Bare Ground in Herb Stratum

Depth									
(inches)	Color (moist)		Color (moist)	_ % Ivp	195	Texture		Remarks	
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***** C-C	entration. D=Dept	ation Ditable	durant Martin CC	Parkament or C	abad Sand O	i ?s	aantlan: Ot w	Pore Lining, M	-84-1-1-
	licators: (Applica				ALGO SAIN G			iometic Hydri	
•								=	
Histosol (A	•		Sandy Redox (				om Muck (A10		
Histic Epipe			Stripped Matrix				od Parent Mai		
Black Histic			Loamy Mucky A		opt MLRA 1)	0	her (Explain i	n Remarks)	
Hydrogen 5			Loamy Gleyed						
	elow Dark Surface	(A11)	Ospleted Matrix						
	Surface (A12)	_	Redox Dark Su					ohytic vegetatio	
	ky Mineral (81)		Depleted Dark					y must be pre	
Sandy Gley	red Matrix (S4)		Redox Depress	sions (F6)		uni	ses disturbed	or problematic	
testrictive Lay	or (if present):			<del></del>		1			
Type:						1			-
Depth (inche			-			1	il Present?	Yes	No
Debat (such						11901000			
Remarks:			,						
Remarks:			,						
		nigening specialist and become	,						
YDROLOGY	-								
YDROLOG	logy Indicators:								
YDROLOGY Metianel Hydro Primary Indicate	logy Indicators: ors (minimum of o	ne required c						lors (2 or mon	
YDROLOGY	logy Indicators: ors (minimum of o	ne required c		iy) ined Leaves (89	) (except ML			dors (2 or mon	
YDROLOGY Metianel Hydro Primary Indicate	ology Indicators: ors (minimum of or oter (A1)	ne required o	Water-Sta		) (except ML			d Leaves (89)	
YDROLOG\ Metiand Rydro Primary Indicato Surface Wa	ology Indicators: ors (minimum of or ster (A1) Table (A2)	ne required c	Water-Sta	ined Leaves (B9 A, end 4B)	) (except ML	RA	Water-Staine	d Leaves (89) &)	
YDROLOGY Wetland Hydro Primacy Indicate Surface Wa High Water Saturation	ology Indicators: ors (minimum of grater (A1) Table (A2) (A3)	ne required c	Water-Sta 1, 2, 4/ Saft Crust	ined Leaves (B9 A, end 4B) (B11)		RA	Water-Staine 4A, and 4 Drainage Pal	d Leaves (59) &) derns (510)	(MLRA 1,
YDROLOGY Welland Hydro Primery Indicate Surface We High Water Saturation Water Mach	lingy Indicators: ors (minimum of or ater (A1) Table (A2) (A3) is (B1)	ne required c	Water-Sta 1, 2, 4/ Salt Crust Aquatic In	ined Leaves (B9 A, and 4B) (B11) vertebrates (B13	l)	RA	Water-Staine 4A, and 4 Drainage Pal Dry-Season	d Leaves (89) &) terns (810) Water Table (0	(MLRA 1, 2)
YDROLOGY Methand Hydro Primery Indicate Surface Wa High Water Saturation Water Mark Sediment D	ology indicators: ore (minimum of or ater (A1) Table (A2) (A3) us (B1) Deposits (B2)	ne required c	Water-Sta 1, 2, 4/ Saft Crust Aquatic In Hydrogen	ined Leaves (B9 A, end 4B) (B11) vertebrates (B13 Sulfide Odor (C	l) 1)	RA	Water-Staine 4A, and 4 Drainage Pal Dry-Sesson \ Saturation Vi	d Leaves (89) &) terns (810) Water Table (0 sible on Aerial	(MLRA 1, 2)
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YPROLOGY Primary Indicate Surface W High Water Seturation Drift Depos Aiga Met o Iron Depos Surface So inundation Sparsely V Field Observely V Field Observely V Seturation Pres Surface Foot Surface Water Invaled Privater Surface Water Invaled Privater Table Privater Surface Water Invaled Table Privater Ta	Nogy Indicators:  ors. (minimum of or  ster (A1)  Table (A2)  (A3)  as (B1)  popositis (B2)  as (B3)  or Crust (B4)  ints (B5)  Visible on Aerial in  speciated Concave  slone:  Present?  Ye  sent?  Ye  sent?  Ye  syr fringe)	magery (87) Surface (88) seNo seNo	Water-Sta 1, 2, 44 Salt Cratic Aquatic In Hydrogen Ouddzad F Present Recent for Stunied or Other (Exp	ined Leaves (89 A, end 48) (B11) (B11) (B11) Sulfide Odor (C Chizospheres also of Reduced Iron on Reduced iron on Reduced iron in Testessed Plents plain in Remarks ohes): ches);	i) i) ing Living Roc (C4) iiiled Soils (Ct s (D1) (LRR A	real costs (C3)	Water-Staine 4A, and 4 Drainage Pat Dry-Season \ Saturation \ Geomorphic Shallow Aqui FAC-Neutral Raised Ant N Frost-Heave	d Leaves (B9) &) lerns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5) tounds (D6) (L Hummocks (D	(MLRA 1, 2) Imagery (C RR A)
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YDROLOG Wetland Hydro Primary Incident Surface Wetland Hydro High Water Sediment D Drift Depos Algol Mate I ron Depos Surface So Invustation Sparsely Water Fald Observat Surface Water Invustation Sparsely Water Fald Depos	Nogy Indicators:  ors. (minimum of or  ster (A1)  Table (A2)  (A3)  as (B1)  popositis (B2)  as (B3)  or Crust (B4)  ints (B5)  Visible on Aerial in  speciated Concave  slone:  Present?  Ye  sent?  Ye  sent?  Ye  syr fringe)	magery (87) Surface (88) ssNo ssNo ssNo ssNo	Water-Sta 1, 2, 44 Salt Cratic Aquatic In Hydrogen Ouddzad F Present Recent for Stunied or Other (Exp	ined Leaves (85 A, end 48) (B11) (B11) (B12) Sulfide Odor (C Chizospheres alto of Reduced Iron on Reduced iron on Reduced iron in Remarks (ches): (ches): (ches): (ches): (photos, previous	1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	sand Hydrolo	Water-Staine 4A, and 4 Drainage Pat Dry-Season \ Saturation \ Geomorphic Shallow Aqui FAC-Neutral Raised Ant N Frost-Heave	d Leaves (B9) &) lerns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5) tounds (D6) (L Hummocks (D	(MLRA 1, 2) Imagery (C RR A)
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Sampling Point: \_

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: Sewal investigator(s): Landform (hillslope, terrace, etc.): \_\_ Local relief (concave, convex, none): \_\_\_ Subregion (LRR): Lat-Soil Map Unit Name: NWt classification: No \_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes .... Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes 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? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks. above wormal paintall - agricultual Field VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stretum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL. FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species \* Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_x1= FACW species FAC species a Total Cover FACU species \_\_\_ Herb Stratum (Plot size: UPL species Column Totals: \_\_ Prevalence Index + B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% \_ Prevalence Index is s3.01 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ~ Total Cover Woody Vine Stratum (Plot size: \* Total Cover % Bare Ground in Herb Stratum

	Reduced Matrix, CS>Covered or Costed Sand Gr	
tydric 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 Perent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Metrix (F2)	
Depleted Below Derk Surface (A11)	Depleted Matrix (F3)	_
Thick Dark Surface (A12)	Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wattand hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:	Name to the state of the state	
Depth (inches):		Hydric Soli Present? Yes No
YDROLOGY		
Notiand Hydrology Indicators:	d. check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	d. check all that apply)  Water-Stained Leaves (89) (except MLI	
Wethand Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLI	
Notiend Hydrology Indicators:  Primers Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
Wotland Hydrology Indicators: Primery Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)		RAWater-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10)
Notiand Hydrology Indicators: Primery Indicators (minimum of one require: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLI 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	RAWater-Stained Leaves (B9) (MLRA 1, 4A, and 4B)Drainage Petterns (B10)Dry-Season Water Table (C2)
Wotland Hydrology Indicators:  Primary Indicators (minimum of one require:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)Drainage Petterns (810)Dry-Season Water Table (C2)Saturation Visible on Aerial Imagery (1)
Notiand Hydrology Indicators:  Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1 tots (C3) Geomorphic Position (D2)
Notiand Hydrology Indicators:  Primary Indicators (minimum of one require: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizrospheres along Living Roc Presence of Reduced Iron (C4)	RA Weter-Stained Leaves (89) (MLRA 1, 4A, and 4B)
Notiand Hydrology Indicators:  Primery Indicators (minimum of one require:  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drik Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Steined Leaves (89) (except MLI 1, 2, 4A, end 48) Self Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solis (C6)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patients (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (I Geomorphic Position (D2) Shaflow Aquitatrd (D3) FAC-Neutral Test (D5)
Notiand Hydrology Indicators:  Primary Indicators (minimum of one require:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Met or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tillad Soils (C6 Stunted or Stressed Plants (D1) (LRR A	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Petterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1) tots (C3) Geomorphic Position (D2) Shaflow Aquitant (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
Notiand Hydrology Indicators:  Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Stunted or Stressed Plants (D1) (LRR A ) Other (Explain in Remarks)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patients (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (I Geomorphic Position (D2) Shaflow Aquitatrd (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primery Indicators (minimum of one require: 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 Aerisi Imagery (B Sparsely Vegetabed Concave Surface (B1)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Stunted or Stressed Plants (D1) (LRR A ) Other (Explain in Remarks)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Petterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1) tots (C3) Geomorphic Position (D2) Shaflow Aquitant (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
Wetsand Hydrology tedicators:  Primary Indicators (minimum of one require:  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1)  Sediment Deposts (B2)  Drift Deposts (B3)  Algat Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (Field Observations:	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduction in Tilled Solis (C6 Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks) 88)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Petterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1) tots (C3) Geomorphic Position (D2) Shaflow Aquitant (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
Wotland Hydrology tedicatora: Primary Indicators (minimum of one require: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algat Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present?	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tillad Soils (C6 Stunied or Stressed Plants (D1) (LRR A 7) Other (Explain in Remarks) 88)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Petterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1) tots (C3) Geomorphic Position (D2) Shaflow Aquitant (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
Wotland Hydrology tedicatora: Primary Indicators (minimum of one require: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algat Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present?	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduction in Tilled Solis (C6 Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks) 88)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Petterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Cas (C3) Geomorphic Position (D2) Shaflow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Feld Observations: Surface States (B6) Surface States (B6) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Feld Observations: Surface States (B6) Water Table Present? Yes Water Table Present?	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks) 88)  No Depth (inches):	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Petterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (1) tots (C3) Geomorphic Position (D2) Shaflow Aquitant (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require 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 Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Water Table Present? Water Table Present? Yes Surfuciduse capitary fringe)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tillad Soils (C6 Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks) 88)  Depth (inches): No Depth (inches): Wetl	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
Wetland Flydrology Indicators:  Primery Indicators (minimum of one require 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 Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Statistion Present? Water Table Present? Yes Saturation Present? Yes Includes capitally fringe)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks) 88)  No Depth (inches):	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require 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 Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Water Table Present? Water Table Present? Yes Surfuciduse capitary fringe)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tillad Soils (C6 Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks) 88)  Depth (inches): No Depth (inches): Wetl	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one require: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algat Mat or Cruat (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Sparsely Vegetabed Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Includes capitary fringe) Describe Recorded Data (stream gauge, me	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Solis (C6  Sturied or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  88)  No Depth (inches): Wett wett, serial photos, previous inspections)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
Wetsand Hydrology tedicators:  Primary Indicators (minimum of one require: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aligat Mat or Crust (B4) Iron Deposits (B3) Surface Soil Cracks (B6) Invudation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, me	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Solis (C6  Sturied or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  88)  No Depth (inches): Wett wett, serial photos, previous inspections)	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B)
High Water Table (A2)  Saluration (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Gracks (B6)  Inundation Visible on Aerisi Imagery (B  Sparsely Vegetated Concave Surface ( Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saluration Present?  Yes  [Includes capillary fringe)	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent fron Reduction in Tillad Soils (C6 Stunied or Stressed Plants (D1) (LRR A Other (Explain in Remarks) 88)  Depth (inches): No Depth (inches): Wetl	RA Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Petterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Obts (C3) Geomorphic Position (D2) Shaflow Aquitard (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetkand Hydrology tedicators:  Primery Indicators (minimum of one require: Surface Water (A1) High Water Table (A2) Saluration (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algat Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Oncludes capitary fringe) Describe Recorded Data (stream gauge, me	Water-Stained Leaves (89) (except MLI 1, 2, 4A, end 48)  Salt Crust (811)  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Solis (C6  Sturied or Stressed Plants (D1) (LRR A Other (Explain in Remarks)  88)  No Depth (inches): Wett wett, serial photos, previous inspections)	4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C Sastration Visible on Aerial Imagery (C Sastration Visible on Aerial Imagery (C Shallow Aquitard (D3)  FAC-Neutra Inse (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummooks (D7)

Redox Features

Color (moist) % Type Loc Texture

SOIL

Matrix

Sampling Point: \_

# WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: Annlicant/Owner Sewall Section, Township, Range: Landform (hillstope, terrace, etc.): \_\_\_\_ Local relief (concave, convex, none): Subregion (LRR) Soil Map Unit Name: NWI cleasification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soit \_\_\_\_\_ or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) Are Vegetation \_\_\_\_\_ Soit \_\_\_\_ or Hydrology \_\_\_\_\_ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydric Soll Present? within a Wetland? Wetland Hydrology Present? above wormal rainfall - agricultual Field w/ditaling + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stretum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species \_\_ (A/B) That Are OBL, FACW, or FAC: Saplino/Shrub Stratum (Plot size: FACW species FAC species ... = Total Cover FACU species \_ Herb Stratum (Plot size: UPL species \_ CON Prevalence index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.01 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants<sup>1</sup> \_ Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. # Total Cover Woody Vine Stratum (Plot size: Hydrophytic

Vegetation \_\* Total Cover % Bare Ground in Herb Stratum Western Mountains, Valleys, and Coast - Interim Version

IOIL ·		Sampling Point:
Profile Description: (Describe to the d	lepth needed to document the indicator or c	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type 1	oc Texture Remarks
12 /04n2/2		
16 10-123/3		Jun-
	M=Reduced Matrix, CS=Covered or Coated S	
tydric Solt Indicators: (Applicable to	•	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Perent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MI	JRA 1) Other (Explain in Remarks)
Hydrogen Sulfide (A4) Decleted Below Dark Surface (A11)	Loamy Gleyed Metrix (F2) Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present.
Sandy Gleyed Matrix (S4)	Redox Depressions (F6)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks.	no indica	
IYDROLOGY		
Wetland Hydrology Indicators:		
Primery Indigators (minimum of one requ	ired check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Steined Leaves (B9) (exce	
High Water Table (A2)	1, 2, 4A, and 4B)	4A. and 4B)
Saturation (A3)	Saft 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 (CI
Drift Deposits (B3)	Oxidized Rhizospheres along Livi	
Alget Met or Crust (84)	Presence of Reduced Iron (C4)	Shallow Aguitard (D3)
Iron Deposits (85)	Recent Iron Reduction in Titled S	
Surface Soil Cracks (B6)	Stunied or Stressed Plants (D1) (	
Inundation Visible on Aerial Imagery		Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surfac		
Field Observations:		Contract to the fact that the contract above the contract the contract the contract that the contra
Surface Water Present? Yes	No Sopth (mohes):	
	No Deoth (inches):	
Water Table Present? Yes Saturation Present? Yes	No Dapth (inches);	Wetland Hydrology Present? Yes No
Saturation Present? Yes (includes capillary fringe)		Metheno Mydrology Present? 195 Ho
	monitoring well, serial photos, previous inspec	ctions), if available:
Remarks:		
	נעת	indicates
		French Comment Comment

US Army Corps of Engineers

SOIL

Project/Site: St. Hun		wysulle Sampling Date: 3-21-
Applicant/Owner:		State: WA Sampling Point: DP#
nvestigator(e): Id Sewal	Section, Township, Ra	nge:
andform (hittelope, terrace, etc.):	Local relief (concave.	convex, none): Slope (%):
Subregion (LRR)	Let:	Long: Detum:
Soll Map Unit Name:		NWI classification;
Are climatic / hydrologic conditions on the site typical f	or 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 Soit, or Hydrology		reded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site n	en showing sempling point l	ocations, transects, important features, etc
Hydrophylic Vegetation Present? Yes		
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No within a Wetlan	nd? Yes No
- above worms	1 ramfall	4.1.0
- agrecolored >	iteld w/ditth	y + rice
/EGETATION - Use scientific names of	olants.	,
Tree Stratum (Plot size:)	Absolute Dominant Indicator	Dominance Test worksheet:
	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW. or FAC: (A)
2		
3		Total Number of Dominant Species Across All Strate: (B)
4.		
	■ Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)		
1.		Prevalence Index worksheet: Total % Cover of: Multiply by:
4		OBL species x1 =
3		FACW species x2 =
5.		FAC species x3 =
	- Tolei Cover	FACU species × 4 =
Herb Stretum (Plot size:)		UPL species x 5 =
1 CONN		Column Totals: (A) (B)
2		Prevalence Index = B/A =
3.		Hydrophytic Vegetation indicators:
5.		Dominance Test is >50%
6		Prevalence Index is \$3.0 <sup>1</sup>
7		Morphological Adaptations (Provide supporting
8.		data in Remarks or on a separate sheet)
9.		Wetland Non-Vascular Plants <sup>1</sup> Problem No Absorbed Vaccatation <sup>1</sup> (Europein)
1D		Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soli and wetland hydrology must
11.		be present, unless disturbed or problematic
Woody Vine Stratum (Plot size:)	# Total Cover	
1		Hydroskytic
	<del></del>	Vegetation
2		
2.	* Total Cover	Present? Yes No

	Color (moist)	%	Redox Features Color (moist) % Type* L	oc Text	He.	Remarks	
(inches)	104221			33			
13.							-
16	104F3	/3		10			
<del></del>							
					<del></del>	·····	
			4 144 AC-C		25	One lining bankar	4.
			duced Matrix, CS=Covered or Coated S Rs, unless otherwise noted.)			Pore Lining, M=Mai Nemetic Hydric So	
•				414			
Histosol (			Sandy Redox (S5)		2 cm Muck (A1		
Histic Epi			Stripped Matrix (S6)		Red Parent Ma		
Black His			Loamy Mucky Mineral (F1) (except ML	.RA 1)	_ Other (Explain i	in Remarks)	
	Sulfide (A4)		Loamy Gleyed Matrix (F2)				
	Below Dark Surfa	ce (A11)	Depleted Matrix (F3)				
	k Surface (A12)		Redox Dark Surface (F6)	าก		phytic vegetation an	d
	icky Mineral (S1)		Depleted Dark Surface (F7)			gy must be present,	
	eyed Matrix (S4)		Redex Depressions (F8)		unless disturbed	or problematic.	
Restrictive L	syer (if present):						
Type:				i			
Depth (incl	nestr			Hydri	c Soil Present?	Yes No	,
Remarks:							
		,	o indicate	5			
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SOIL

Sampling Point: \_\_\_\_

### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: Semal Investigator(s): \_\_\_ Landform (hillslope, terrace, etc.): \_\_ Local ratief (concave, convex, none): Subregion (LRR) Soil Map Unit Name: NWI classification; No (If no, explain in Remarks.) Are climatic / hydrotogic conditions on the site typical for this time of year? Yes \_\_\_\_ Are Vegetation \_\_\_\_\_, Soit \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ No \_\_ Are Vegetation \_\_\_\_\_ Soft \_\_\_\_\_ 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? Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes\_\_\_\_ No\_\_ Remarks. above wormal ram Fall - agricultual Field VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL. FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: \_ (A/B) Saoling/Shrub Stratum (Plot size: **FACW species** FAC species \_\_\_\_ FACU species \_\_ ≈ Total Cover Herb Stratum (Plot size: UPL species \_\_ CONN Column Totals: Prevalence Index = BIA = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.01 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants Problematic Hydrophytic Vegetation1 (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ... Total Cover Woody Vine Stratum (Plot size: Hydrophytic \_ \* Total Cover % Bare Ground in Herb Stratum

(inches)	Metrix Color (moist) %	Redox Features Color (moist) % Type Loc	Texture Remarks
10	10VR 3/2.		1
<del>//</del>	7 5 4 3 /2		5.h /an
	<u> </u>		
*********			
Type: C=Cc	oncentration, D=Depletion, RN	I=Reduced Matrix, CS=Covered or Costed Sand Gr	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
tydric Soil I	ndicatore: (Applicable to al	I LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Ep	ipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black His	elic (A3)	Loarny Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
	n Sulfide (A4)	Loamy Gleyed Matrix (F2)	
	Below Dark Surface (A11)	Depleted Matrix (F3)	• • • • • • • • • • • • • • • • • • •
	irk Surface (A12)	Redox Derk Surface (F6)	indicators of hydrophytic vegetation and
	lucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
	leyed Matrix (S4)	Redax Depressions (F8)	unless disturbed or problematic.
	.ayer (if present):		
Type:			
	hes):		Hydric Soil Present? Yes No
rieba (m			
Remarks:	GY	ns int.	estal
Remarks:	GY Prology Indicators:	ns int.	estas
YDROLO Wetland Hy			Secondary Indicators (2 or more resulted)
Remarks:  YDROLO  Wetland Hyd	trology Indicators:		Secondary Indicators (2 or more resulted)
YDROLO Wetland Hyd Surface	trology Indicators: ators (minimum of one require	rd, check all that apply).	Secondary Indicators (2 or more resulted)
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YDROLO Wetland Hyu Primary Indic Surface High Wa Saturatic	Prology Indicators: stors (minimum of one require Water (A1) ter Table (A2)	rd, check all that apply) Water-Stained Leaves (69) (except MLF 1, 2, 4A, end 48)	Secondary Indicators (2 or more required)  RA Water-Stained Leaves (89) (MLRA 1,  4A, and 48)
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YDROLO  Wetland Hyd  Primary India  Seturate  Weter M  Sedimer	brology indicators: maters (minimum of one require Water (A1) ter Table (A2) on (A3) arks (B1)	rd, check all that sopily)  Water-Steined Leaves (89) (except MLF 1, 2, 4A, end 48) Sait Crust (811) Aquatic invertebrates (813)	Secondary Indicators (2.or.more required)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Sesson Water Table (C2) Saturation Visible on Aerial Imagery (C
YDROLO Wetland Hyv Primery India Surface High We Seturatic Water M Sedimer Drift Dep	brology tridicators:  stors (minimum of one require  Water (A1)  ter Table (A2)  on (A3)  arks (B1)  at Deposits (B2)	rd, check all that apply).	Secondary Indicators (2.or.more required)  Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Sesson Water Table (C2) Saturation Visible on Aerial Imagery (C
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YDROLO  Wetland Hys  Primery Indic  Surface High Water M  Sedimer  Drit De  Algal Ma  Iron Depo	rology findicators: stors (minimum of one require Water (A1) ter Table (A2) on (A3) anks (B1) ti Deposits (B2) onterts (B3) ti or Crust (B4)	cd. check all that apply)  Water-Stained Leaves (B9) (except ME.F. 1, 2, 4A, end 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhixospheres along Living Roa Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)  RA Water-Steined Leaves (89) (MLRA 1, 44, and 48)  Drainage Patterns (810)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Sampling Point: \_\_

# WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner Semall Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR) Soil Map Unit Name: NWI classification Are climetic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation 8oil 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. Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks. above wormal rainfall -agricultural Field w/dithing + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Streken (Plot size: \_\_\_ % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species That Are OBL, FAGW, or FAC: Sanling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: **FACW species** FAC species FACU species = Total Cover Herb Stratum (Plot size: UPL spacies \_ Column Totals: \_ Prevalence Index = R/A = Hydrophytic Vegetation indicators: Dominance Test is >50% Prevalence Index is \$3.01 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants<sup>1</sup> Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Indicators of hydric soil and watland hydrology must be present, unless disturbed or problematic = Total Cover Woody Vine Stratum (Plot size: \* Total Cover % Bare Ground in Herb Stratum

Inches   Calor (moist)   %   Calor (moist)   %   Tuna   Lest   Testure   Remarks	Depth (	Matrix		Redox F		1-7	-		Damas*	
Constitution	inches)	Color (moist)		Join (moist)			EXTUR		Remarks	····
Page   Co-Concentration   Debetation   RM-Reduced Matrix   CS-Covered or Coated Sand Grains   **Location: PL-Pore Lining MetiMatrix   First Foot Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Solis*   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology fundators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology must be present.   Indicators of Hydrophytic vegetation and welfand hydrology fundators of Hydrophytic vegetation and welfand hydrology fundators of Hydrophytic vegetation and welfand hydrology fundators of Hydrology	12	104H31	<u> </u>				2			
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Type: C-Concentration, D-Dephetion, RM-Reduced Mistrix, CS=Covered or Costed Sand Grains   Location: PL-Pore Lining, M-Matrix, lydric Soil Indicators: (Applicable to all LRRe, unless otherwise noted.)   Indicators for Problematic Hydric Soils*; Indicators										
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Sandy Miucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present.							Indicat	are of hydro	nhytic vecetal	ion and
Sandy Gleyed Matrix (S4)	-									
PROLOGY  Wetland Hydrology Indicators:  Indicators (Indicators (Indicators))  Secondary Indicators (Indicators)  Indicato										
TOROLOGY  Torontology Indicators:  **More reliable (A2)				TOUGH DOPING		<del></del>		90 0000000		
Depth (inches): Hydric Soll Present? Yes No emerics:  **Condery** Index (spicetors (2) or more required theck sit that apply): Secondary Indicators (2) or more required (spicetors (minor (spicetors (minor (spicetors (minor (spicetors (minor (spicetors (minor (spicetors (minor (mino		cayer in prosecut.				1				
PROLOGY  Interest (policators (minimum of one required, check all that apply)  Surface Water (A1)  Surface Water (A1)  Water-Stained Leaves (B9) (except MTLRA  High Water Table (A2)  Saturation (A3)  Water (B1)  Water Marks (B1)  Sediment Deposits (B1)  Sediment Deposits (B2)  Drift Season Water (B1)  Sediment Deposits (B3)  Oxidized Rhixospheres along Living Roots (C3)  Iron Deposits (B3)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Surface Soil Cracks (B8)  Other (Explain in Remarks)  Depth (inches):  United Present?  Ves No Depth (inches):  Depth (inches):  Wetland Hydrology Present? Ves No Depth (inches):  Search Ves No Depth (inches):  Wetland Hydrology Present? Ves No Dep			<del></del>	•		l				
PDROLOGY  Hethand Hydrology Indicators: Hethand Hydrology Indicators: Hethand Hydrology Indicators: Surface Water (A1)  Secondary Indicators (Innimum of one required, check aff that apply)  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Sell Crust (B11)  Sediment Deposits (B1)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B3)  Oxidized Rhixospheres along Living Roots (C3)  Sediment Deposits (B3)  Oxidized Rhixospheres along Living Roots (C3)  Sediment Deposits (B3)  Oxidized Rhixospheres along Living Roots (C3)  Sediment Deposits (B4)  Fresence of Reduced Ino (C4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Sturtled or Stressed Plants (D1) (LRR A)  Raised Ant Mounds (D8) (LRR A)  Frost-Heave Hummocks (D7)  Self Charter Test (D5)  Surface Water Present?  Yes No Depth (Inches): Surface Water Present?  Yes No Depth (Inches): Surface Water Present?  Yes No Depth (Inches): Wetland Hydrology Present? Yes No Depth (Inches): Serial Protocology Present?  Yes No Depth (Inches): Secondary Indicators (2 or more required.  Water-Stained Leaves (B9) (IMLRA  4A, and 4B)  Vater-Stained Leaves (B9) (IMLRA  4A,	Depth (in	:hes):		•		н	rdric Sol	Present?	Yes	No
Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 4A, and 4B) Water-Stained Leaves (B9) (except MLRA 4A, and 4B) Water-Stained Leaves (B9) (except MLRA 4A, and 4B) Water-Stained Leaves (B9) (MLRA 4A, and 4B) Water-Stained Leaves (B9) Water-Marks (B1) Drainege-Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Avrial Imagery (Drift Deposits (B3) Obditional Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Iron Deposits (B5) Recent fron Reduction in Tisted Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Sturfed or Stressed 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) Surface (B8) Wetland Hydrology Present? Yes No Depth (inches):		2 V			NO 1-	ok co	he.	5	···········	
Surface Water (A1)	DROLO		B:		NO 11	nh co	h	5		
High Water Table (A2)  Seturation (A3)  Set Crust (B11)  Seturation (A3)  Set Crust (B11)  Seturation (A3)  Set Crust (B11)  Dealinege Patterns (B10)  Dry-Season Water Table (C2)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Agail Mast or Crust (B4)  Presence of Reduced Iron (C4)  Shellow Aquitant (D3)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Sturrited or Stressed Plants (D1) (LRR A)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Frost-Heave Hummocks (D7)  Self Observations:  urface Water Present?  Yes No Depth (Inches):  Depth (Inches):  Depth (Inches):  Wetland Hydrology Present? Yes No Depth (Inches):  Secrital Photos, previous inspections), if available:  erritaria:	DROLO	drology Indicator				A co			ators (2 or mo	re required
Seturation (A3) Seturation (A4) Seturation (A4	DROLO	drology Indicator ators (minimum of		eck all that apply).			Seco	ndary Indic		
Water Marks (B1)  Aquatic Invertebrates (B13)  Sediment Deposits (B2)  Hydrogen Suffice Odor (C1)  Saturation Visible on Aerial Imagery  Oxidized Rhizospheres along Living Roots (C3)  Algal Mat or Crust (B4)  Presence of Reduced Iron (C4)  Sediment Deposits (B5)  Algal Mat or Crust (B4)  Presence of Reduced Iron (C4)  Shallow Aquaterd (D3)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Surface Or Stressed Plants (D1) (LRR A)  Raised Ant Mounds (D6) (LRR A)  Other (Explain in Remarks)  Frost-Heave Hummocks (D7)  Sparsely Vegetated Concave Surface (B8)  Indiced Observations:  Unface Water Present?  Yes  No  Depth (inches):  Depth (inches):  Wetland Hydrology Present? Yes  No  Depth (inches):  Previous Inspections), if available:  emarks:	DROLO lettand Hyd drosey Indic Surface	drology Indicator ators (minimum of Water (A1)		neck all that apply)	od Leaves (B9) (ex		Seco	ndary indic	ed Leaves (89	
Sediment Deposits (B2)  Drift Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Geomorphic Position (D2)  Algal Met or Crust (B4)  Presence of Reduced Iron (C4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Other (Explain in Remarks)  Frost-Heave Hummocks (D7)  Sparsely Vegetated Concave Surface (B8)  leid Observations:  urface Water Present?  Yes No Depth (inches):  Depth (inches):  Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Surface Soil Cracks (B6)  Wetland Hydrology Present? Yes No Depth (inches):  Surface Soil Cracks (B6)  Wetland Hydrology Present? Yes No Depth (inches):  Surface Soil Cracks (B6)  Surface Surface (B6)  Wetland Hydrology Present? Yes No Depth (inches):  Surface Soil Cracks (B6)  Surface Surface (B6)  Wetland Hydrology Present? Yes No Depth (inches):  Surface Soil Cracks (B6)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Frost-Heave Hummocks (D7)  Surface Soil Cracks (B6)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Surface Soil Cracks (B6)  FAC-Neutral Test (D5)  FAC-Neut	DROLO lettand Hyr Imary Indic Surface High Wa	drology Indicators ators (minimum of Water (A1) iter Table (A2)		water-Stains	d Leaves (89) (ex		S = 92	ndary Indic Water-Stains 4A, and	ed Leaves (89 68)	
Drift Deposits (B3)  Obdized Rhizospheres along Living Roots (C3)  Algal Met or Crust (B4)  Presence of Reduced Iron (C4)  Shallow Aquater (D3)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Sturried or Stressed Plants (D1) (LRR A)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Frost-Heave Hummocks (D7)  Self Observations:  urface Water Present?  Yes No Depth (inches):  Surface Soil Cracks (B6)  Wetland Hydrology Present? Yes No Depth (inches):  Sulvations (D7)  Wetland Hydrology Present? Yes No Depth (inches):  Solides capillary fringe)  secribe Recorded Deta (stream gauge, monitoring well, serial photos, previous inspections), if available:  erriarits:	DROLO lettand Hyu limary India Surface High Wa Saturation	drology Indicators ators (minimum of Water (A1) iter Table (A2) on (A3)		weck all that apply)  Water-Staine  1, 2, 4A, i	od Leaves (89) (ex and 48)		_ Sec.	ndary Indic Vater-Stain 4A, and C Crainage Pa	ed Leaves (89 48) itterns (810)	) (MLRA 1
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	FDROLO FORMATION	drology indication alters (minimum of Water (A1) inter Table (A2) on (A3) artis (B1) al Deposits (B2) sosits (B3) of or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeria Vegetated Concavers or Present?	al kmagery (B7) ve Surface (B8) Yes No Yes No	week aff that acoty).  Water-Staine 1, 2, 44, ( Salt Crust (B Aquasic Inven Hydrogen St Oxdizzed Rhi Presence of Recent fron ( Stunted or S Other (Expla	id Leaves (89) (ex and 48) 11) 1ebrates (813) iffide Odor (C1) xospheres along L Reduced iron (C4) Reduction in Titled tressed Plants (D1 in in Remarks) es): es):	Soils (C6) ) (LRR A)  Wetland	Second Se	endary Indice Mater-Stains 4A, and Oraleage Pa Oraleage Pa Oraleage Pa Oraleage Pa Oraleage Pa Research Research Research Research Research Research Research	ed Leaves (86 48) Itlems (810) Water Table ( isible on Aeris Position (D2) Itlems (D3) I Test (D5) Mounds (D6) ( Hummocks (	(MLRA 1 C2) Il tinagery LRR A)

SOIL

Sampling Point: \_\_

# WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: Applicant/Owner: Sewall Landform (hillslope, terrace, etc.) Local relief (concave, convex, none): \_\_ Slope (%): Subregion (LRR) NWI classification: Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_\_, Soit \_\_\_\_\_\_, 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? is the Sampled Area Hydric Soi Present? within a Wetland? Yes No \_\_\_ Wetland Hydrology Present? above normal raintall - agricultal Field w/ditching + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: That Are OBL, FACW, or FAC: (A/B) Saoling/Shrub Stratum (Plot size: Prevalence index worksheet: Total % Cover of: Multiply by: FAC species FACU species \_\_\_\_ \_\_ = Total Cover Herb Stratum (Plot size: UPL species \_\_\_ 1000 Column Totals: Prevalence Index = R/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.01 Morphological Adaptations (Provide supporting data in Remerks or on a separate sheet) Wetland Non-Vescular Plants Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic \_= Total Cover Woody Vine Stratum (Plot size: \* Total Cover % Bare Ground in Herb Stratum

Depth Metrix Inches) Color (moist) 96	Color (moist) % Type Loc	Texture Remarks
14 10YR 2/15		5.4 10
14 101K3/2	Ku Fon Pon Co	
14 1000 512	Twin to	~~~~~
-		
Type: C=Concentration, D=Depletion, Rt.	#=Reduced Matrix, CS=Covered or Coated Sand Gr	ains  2Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to al		Indicators for Problematic Hydric Soils <sup>5</sup> :
Histosol (A1)	Sandy Redox (95)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
_ Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Suifide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	and the second second
_ Thick Dark Surface (A12)	Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
lestrictive Layer (if present):		
Type:		1
Depth (inches):		Hydric Soil Present? Yes No
emarka:		
remerks:  YDROLOGY  Vettand Hydrology Indicators:		
remarks:  /DROLOGY  retland Hydrology Indicators:	ed, check eli t/est socity)	Secondary indicators (2 or more resulted)
r PROLOGY  retland Hydrology Indicators: timery indicators (minimum of one requin Surface Water (A1)	ed, check all that apply) Water-Stained Leaves (86) (except MLF	·
r PROLOGY  Weltend Hydrology Indicators:  The surface Water (A1)  High Water Table (A2)		·
r PROLOGY  retland Hydrology Indicators: timery indicators (minimum of one requin Surface Water (A1)	Water-Stained Leaves (B9) (except MLF	RAWater-Stained Leaves (89) (MRLRA 1, 4A, and 4B) Drainage Patterns (810)
r PROLOGY  Weltend Hydrology Indicators:  The surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)	RAWater-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
FOROLOGY  Vettend Hydrology Indicators:  rimery indicators (minimum of one requin  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11)	AA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
PROLOGY  retiand Hydrology Indicators:  ringery indicators (minimum of one requin  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B6) (except MLF 1, 2, 4A, and 4B) Selt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roa	Mater-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Agrial Imagery (65 (C3) Geomorphic Position (D2)
PROLOGY  retland Hydrology Indicators:  timery Indicators (minimum of one requin  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	RA Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( 6s (C3) Geomorphic Position (D2) Shallow Aquitand (D3)
r/DROLOGY  reteand Hydrology Indicators:  trimery Indicators (minimum of one requin  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Selt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roo Presence of Reduction in Tilled Soils (C6)	AA Water-Stained Leaves (89) (MILRA 1, 4A, and 4B) Drainage Petterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shafow Aquitant (D3) FAC-Neutral Test (D5)
PROLOGY  reteand hydrology indicatoms:  rimary indicators: (minimum of one requin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduction in Tilled Soils (C6 Stunied or Stressed Plents (D1) (LRR A)	AA Water-Stained Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
PROLOGY  retland Hydrology Indicators:  tricery Indicators (minimum of one requin  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)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunied or Stressed Plents (D1) (LRR A)	AA Water-Stained Leaves (89) (MILRA 1, 4A, and 4B) Drainage Petterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shafow Aquitant (D3) FAC-Neutral Test (D5)
/DROLOGY  rettand Hydrology Indicators:  rimery Indicators (minimum of one requin  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C8 Stunted or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)	AA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
PROLOGY  retiand Hydrology Indicators:  rinsery indicators (minimum of one requin 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 Aarial Imagery (I Sparsely Vepetated Concave Surface	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C8 Stunted or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)	AA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
PROLOGY  retland Hydrology Indicators:  rimsry Indicators (minimum of one requin  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 Imagery (I  Sparsely Vegetated Concave Surface leid Observations:	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C8 Stunted or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)	AA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
VDROLOGY  Welland Hydrology Indicators:  **Interv Indicators: (minimum of one requin  Surface Water (A1)  High Water Table (A2)  Seturation (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 Imagery (I  Sparsely Vegetated Concave Surface  field Observations:	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Selt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roo Presence of Reduction in Tilled Soils (C6 Sturied or Strassed Pients (D1) (LRR A) Other (Explain in Remarks) (B8)	AA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
VPROLOGY  Wettand Hydrology Indicators:  **Trinserv Indicators (minimum of one requin  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algel Met or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  inundation Visible on Aerial Imagery (I  Sparsely Vegetated Concave Surface  leid Observations:  iurface Water Present?  Yes	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Selt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent fron Reducedion in Tiled Solis (C6 Stunted or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	AA Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery ( Geomorphic Position (D2) Shallow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A)
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VDROLOGY  Vettand Hydrology Indicators:  Inmary Indicators (minimum of one requin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4) Iron Deposits (B5) Surface Soit Cracks (B6) Inundation Visible on Aerial Imagery (I Sparsely Vegetated Concave Surface Ield Observations: Iurface Water Present? Veter Table Present? Veter Table Present? Ves	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Selt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent fron Reducedion in Tiled Solis (C6 Stunted or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	AA Water-Stained Leaves (89) (MLRA 1 4A, and 48)
VPROLOGY  Veltand Hydrology Indicators:  Ininary Indicators (inhimum of one requin 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 Asrial Imagery (I Spansely Vegetated Concave Surface Indicators (B4) Veset Table Present? Ves Vester Table Present? Ves Indicator Present? Ves In	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Stunled or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)  No Depth (snches): No Depth (inches): Wette Wette Wette Wette Wette Wette Nononitoring well, serial photos, previous inspections).	Water-Stained Leaves (89) (MLRA 1, 4A, and 4B) Drainage Patterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery ( S (C3) Geomorphic Position (D2) Shaflow Aquitand (D3) FAC-Neutral Tast (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrotogy Present? Yes No
VDROLOGY  Vettand Hydrology Indicators:  Inmary Indicators (minimum of one requin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algel Mat or Crust (B4) Iron Deposits (B5) Surface Soit Cracks (B6) Inundation Visible on Aerial Imagery (I Sparsely Vegetated Concave Surface Ield Observations: Iurface Water Present? Veter Table Present? Veter Table Present? Ves	Water-Stained Leaves (89) (except MLF 1, 2, 4A, and 4B) Salt Crust (811) Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Stunled or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)  No Depth (snches): No Depth (inches): Wette Wette Wette Wette Wette Wette Nononitoring well, serial photos, previous inspections).	4A, and 4B)  Drainage Patterns (B10)  Dry-Seeson Water Table (C2)  Saturation Visible on Aerial Imagery (in the control of the
VPROLOGY  Veltand Hydrology Indicators:  Ininary Indicators (inhimum of one requin 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 Asrial Imagery (I Spansely Vegetated Concave Surface Indicators (B4) Veset Table Present? Ves Vester Table Present? Ves Indicator Present? Ves In	Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No Depth (Inches): No Depth (Inches): Wetter	Water-Stained Leaves (99) (MLRA 1, 4A, and 4B) Drainage Petterns (810) Dry-Seeson Water Table (C2) Saturation Visible on Aerial Imagery ( 45 (C3) Geomorphic Position (D2) Shaflow Aquitand (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)  and Hydrotogy Present? Yes No

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Sampling Point:

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Marysuille Sampling Date: 3-21-17 Applicant/Owner Sewall Investigator(s): \_ Section, Township, Range: Landform (hillstope, terrace, etc.): Local ratiof (concave, convex, none): Sloon (%): Subregion (LRR) Soil Man Linit Name: NWI classification Are climatic / hydrologic conditions on the site hypical for this time of year? Yes \_\_ No \_\_\_\_ (if no, explain in Remarks.) Are Vegetation \_\_\_\_\_ Soil \_\_\_\_ or Hydrology \_\_\_\_ significantly disturbed? Are Vegetation \_\_\_\_\_ Soit \_\_\_\_\_, 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? is the Sampled Ares Hydric Soil Present? within a Wetland? Wetland Hydrology Present? above wormal rainfall - agricultual Field w/ditchm + tile VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominani Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Septimo/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: FAC species FACII speries = Total Cover Herb Stratum (Plot size: UPL species 100 Co~~ Prevalence Index = RIA = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.01 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic # Total Cover Woody Vine Stratum (Plot size: Hydrophytic Vegetation \* Total Cover % Bare Ground in Herb Stratum

US Army Corps of Engineers

<sup>2</sup>Location: PL=Pore Lining, M=Matrix Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ 2 cm Muck (A10) \_\_ Sandy Redox (S5) Histosol (A1) \_\_\_ Stripped Matrix (S6) \_\_\_ Red Parent Material (TF2) Histic Epipadon (A2) \_\_ Other (Explain in Remarks) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Suifide (A4) Loamy Gleyed Metrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Lifedox Dark Surface (F6) Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Mucky Mineral (S1) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Depth (inches): \_\_ Hydric Soll Present? Yes Remarks HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Steined Leaves (89) (MLRA 1, 2, Water-Stained Leaves (B9) (except MLRA Surface Water (A1) 4A, and 4B) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) \_\_\_ Dry-Sesson Water Table (C2) Water Marks (B1) ..... Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Drift Deposits (B3) Shallow Aquitard (D3) Presence of Reduced Iron (C4) Algel Met or Crust (B4) FAC-Neutral Test (D5) Iron Deposits (B5) Recent Iron Reduction in Titled Soils (C6) Raised Ant Mounds (D6) (LRR A) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) \_\_ Other (Explain in Remarks) \_\_\_ Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Marth (inches) Surface Water Present? Water Table Present? Month (inches) Saturation Present? Depth (inches): Wetland Hydrology Present? Yes (includes capitlary fringe)
Describe Recorded Data (st ream gauge, monitoring well, serial photos, previous inspections), if available: Remarks: to be mundome

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Color (moist)

US Army Corps of Engineers

1012 2/1.5

1041-312

% Type Loc Texture

Sampling Point:

Jan

50

ect/site: S-Hu		arysulle sampling Date 3-21
ficant/Owner:		State: WA Sampling Point DP
estigator(s): 2d Sew	Section, Township, R	kage:
dform (hillslope, terrace, etc.):	Local relief (concave	convex, none): Slope (%):
region (LRR)	Let	Long: Datum:
Map Unit Name:		NWI classification;
climatic / hydrologic conditions on the site ty	pical for this time of year? Yes No	(if no, explain in Remarks.)
Vegetation, Soit, or Hydrolog	v = significantly disturbed? Are	"Normal Circumstances" present? Yes No
Vegetation Soft, or Hydrolog	naturally problematic? (If r	eoded, explain any answers in Remarks.)
MMART OF FINDINGS - Attach i	ine map snowing sampling point	locations, transects, important features, et
rdrophytic Vegetation Present? Yes	is the Sample	4.4
rdric Soil Present? Yes	No within a Watte	
etland Hydrology Present? Yes	No	199 100
marks. above were	mal ramfall.	
- agricultual	Field w/ de tal	m + tile
		<del>-)</del>
GETATION – Use scientific name		···
es Strakam (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	
		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
		Total Number of Dominant Species Across All Strata: (B)
		1
	* Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Mino/Shrub Stratum (Plot size:	)	
	management results and the second sec	Prevalence index worksheet:
· · · · · · · · · · · · · · · · · · ·		Total % Cover of: Multiply by:
	Antonia de la constitución de la	OBL species
		FAC species x3=
	» Total Cover	FACU species x4 =
nb Stratum (Plot size:)		UPL species x5=
COPN		Column Totala: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
	annual an	Dominance Test is >50%
		Prevalence Index is s3.01
		Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
		Wetland Non-Vascular Plants
		Problematic Hydrophytic Vegetation¹ (Explain)
		Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
cody Vhe Stratum (Plot size:		Hydrophytic
ody Vhe Stratum (Plot size:		Vegetation
ody Vhe Stratum (Plot size:	" Total Cover	

Depth		Redox Features		
(inches)	Color (moist)	% Color (moist) % Type Loc	Texture	Remerks
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		AND THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRE		
	***************************************			
		n, RM=Reduced Matrix, CS=Covered or Coated Send G		cation: PL=Pore Lining, M=Matrix,
Hydric Soil Ind	icators: (Applicable	to all LRRs, unless otherwise noted.)	indicate	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A	1)	Sandy Redox (S5)	2 cr	n Muck (A10)
Histic Epipe	edon (A2)	Stripped Matrix (S6)	Red	Perent Material (TF2)
Black Histic	(A3)	Loamy Mucky Mineral (F1) (except MLRA 1	Oth	er (Explain in Remarks)
Hydrogen S	Sulfide (A4)	Loamy Gleyed Matrix (F2)		
Depleted B	elow Dark Surface (A			
Thick Dark	Surface (A12)	Redox Dark Surface (F6)	*Indicate	ors of hydrophytic vegetation and
Sandy Muc	ky Mineral (S1)	Depleted Dark Surface (F7)	wetis	and hydrology must be present.
Sandy Gley	red Matrix (S4)	Redox Depressions (F8)	uniet	as disturbed or problematic.
Restrictive Lay	er (if present):		1	
Type:			1	
	un's		Hydric Soil	Present? Yes No.
Donth (inche			1170110 0011	
Remarks:			in the second se	
Remarks:  IYDROLOG!  Wetland Hydro	Y logy Indicators:	required; check all that apply)	Seco	ndary indicators (2 or more required)
Remarks:  IYDROLOG!  Wettand Hydro  Primary Indicato	Y Nogy Indicators: ars (minimum of one :	rougined, check all that apply)  Water Stained Leaves (RG) (except Miles		ndary indicators (2 or more required)
Remarks.  IYDROLOG'  Welland Hydro  Primary Indicate  Surface Wa	y ology Indicatora: ars (minimum of one i ater (A1)	Water-Stained Leaves (B9) (except ML		Vater-Steined Leaves (89) (MLRA 1,
(YDROLOG) Wetland Hydro Primary Indicate Surface We High Water	y hidioatora: ars (minimum of one rater (A1) Table (A2)	Water-Stained Leaves (89) (except ML 1, 2, 4A, and 4B)	RA V	Vater-Steined Leaves (89) (MLRA 1, 1 4A, and 48)
YDROLOG\ Wetland Hydro Surface We High Water Saturation	y Nogy Indicators: ars (minimum of one : arter (A1) Table (A2) (A3)	Water-Stained Leaves (89) (except ML 1, 2, 4A, and 4B) Salt Crust (811)	RA V	Vater-Steined Leaves (89) (MLRA 1, 4A, and 4B) kainage Patterns (810)
IYDROLOGY Wetland Hydro Primary Indicate Surface We High Water Saturation of	of stopy indicators: are (minimum of one inter (A1) Table (A2) (A3) to (B1)	Weter-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	RA V	Vater-Steined Leaves (89) (MLRA 1, 4A, and 4B) Prainage Patterns (810) Dry-Season Water Table (C2)
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IYDROLOG1 Wettered Hydro Primery Indicate Surface We High Water Saturation is Sediment I Drift Depos	of planticators:  ster (A1)  Table (A2)  (A3)  to (B1)  beposits (B2)  its (B3)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 48) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suffate Odor (C1) Oxidized Rhizospheres along Living Ro	RA V C E S obs (C3) C	Nater-Steined Leaves (89) (MLRA 1, 4A, and 48) Drainage Patterns (810) Dry-Season Water Table (C2) Secretory in the California Stragery (C Secretory in the California Stragery (C Secretory in the California Stragery (C
YDROLOG' Wetterd Hydro Primery Incomes Surface Wis High Water Seturation Water Mark Drift Depos Algal Mat o	y shopy indicators: ars (minimum of one rater (A1) - Table (A2) (A3) (as (B1) - beposits (B2) its (B3) or Crust (B4)	Weter-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oadzed Rhizospheres along Living Ro Presence of Reduced Iron (C4)	RA V C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C	Vater-Steined Leaves (89) (MLRA 1, 4A, and 4B) Valinage Petterns (B10) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (C Secretorphic Position (D2) Shellow Aquiterd (D3)
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IYDROLOGY Wethard Hydro Surface We High Water Seturation Water Mark Sediment E Drift Depos Algal Mat o Iron Depos	y shopy indicators: ars (minimum of one rater (A1) - Table (A2) (A3) (as (B1) - beposits (B2) its (B3) or Crust (B4)	Weter-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oadzed Rhizospheres along Living Ro Presence of Reduced Iron (C4)	RA C C C S obs (C3) C S	Vater-Steined Leaves (89) (MLRA 1, 4A, and 4B) Valinage Petterns (B10) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (C Secretorphic Position (D2) Shellow Aquiterd (D3)
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IYDROLOGY Wetland Hydro Primary Indicate Surface We High Water Saturation Water Mark Sediment D Drift Depos Agal Mat o Iron Depos Surface So Inundation Sparsety W Field Observat Surface Water Water Table Pro Saturation Pres (includes capital Describe Recor	y stopy indicators: are (minimum of one ister (A1) Table (A2) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Weter-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B) Salt Crust (B1) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent fron Reduction in Tilled Soils (C Stunied or Stressed Plants (D1) (LRR # pery (B7) Other (Explain in Remarks) rface (B8)  No Depth (inches): No Depth (inches): Wet	RA V  CO  CO  CO  CO  CO  CO  CO  CO  CO  C	Water-Stained Leaves (89) (MLRA 1, 4A, and 48) An and 48) Dry-Seeson Water Table (C2) Seturation Visible on Aerial Imagery (C secrophic Position (D2) Shallow Aquistrat (D3) FAC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Sampling Point:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Sampling Point: \_ Project/Site: Redox Features Annicant/Dunar Jn-10/22/2 Sewall 104 3/3 volcania ash Landform (hillsloop, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR) Soil Map Unit Name: 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 \_\_\_ Are Vegetation \_\_\_\_\_ Soit \_\_\_\_\_ 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. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Hydrophytic Vegetation Present? is the Sampled Area \_\_\_ 2 cm Muck (A10) \_\_\_ Sandy Redox (S5) Hydric Sall Present? Historol (A1) within a Wetland? Red Parent Meterial (TF2) Histic Epipedon (A2) \_\_\_ Stripped Matrix (S6) Wetland Hydrology Present? \_\_\_ Loamy Mucky Mineral (F1) (except MLRA 1) \_\_\_ Other (Explain in Remarks) Black Histic (A3) Remarks above normal raintall - agricultual Field w/ditching + tile Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Depleted Below Derk Surface (A11) Declated Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wattand hydrology must be present. VEGETATION - Use scientific names of plants. unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F6) Absolute Dominant Indicator Restrictive Layer (if present): Irea Stratum (Plot size: % Cover Species? Status Mirmber of Dominant Species That Are OBL. FACW, or FAC: Depth (inches): \_\_ Total Number of Dominant Remarks Species Acroes All Strata: ulnturied due to ash ercent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: HYDROLOGY Wetland Hydrology Indicators: Primary indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) FACW species FAC species \_\_\_\_ Water-Stained Leaves (89) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) 4A. and 481 FACU species High Water Table (A2) 1, 2, 4A, and 4B) □ Total Cover ..... Drainage Patterns (B10) Saturation (A3) Salt Crust (B11) Herto Stratum (Plot size: UPL species \_\_\_ Dry-Season Water Table (C2) ノロヘイ ...... Aquatic Invertebrates (B13) Water Marks (B1) 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) Prevalence Index = B/A = \_\_\_ Shallow Aquitard (D3) Presence of Reduced Iron (C4) Hydrophytic Vegetation Indicators Algal Mat or Crust (B4) \_\_\_ FAC-Neutral Test (D5) Recent Iron Reduction in Titled Soils (CS) Iron Deposits (85) Dominance Test is >50% \_\_\_ Stunied or Stressed Plants (D1) (LRR A) \_\_\_ Raised Ant Mounds (D6) (LRR A) Surface Soil Cracks (B6) Prevalence Index is \$3.01 \_\_ Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Frost-Heave Hummocks (D7) Morphological Adaptations' (Provide supporting data in Remerks or on a separate sheet) Sparsely Vegetated Concave Surface (B8) Field Observations: Wetland Non-Vescular Plants<sup>1</sup> \_\_\_Depth (inches): Surface Winter Present? Problematic Hydrophytic Vegetation (Explain) Yes No Depth (inches): Water Yohle Present? indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Saturation Present? \_\_ Depth (inches); \_ Wetland Hydrology Present? Yes\_ # Total Cover (includes capitlary fringe)
Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available Woody Vine Stratum (Plot size: Remarks: to be manitared ≈ Total Cover % Bare Ground in Herb Stretum

### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Applicant/Owner: Investigator(s): \_\_\_ Section, Township, Range: Local relief (concave, convex, none): Subregion (LRR) NWI classification: Soil Map Unit Name: 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 Circumstarices" present? Yes \_\_ (If needed, explain any answers in Remarks.) Are Vegetation . Soil . or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? is the Sampled Area Hydric Sail Present? within a Wetland? Wetland Hydrology Present? above wormal rainfall - agricultual Field VEGETATION - Use scientific names of plants. Absolute Cominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Stetus Number of Dominant Species That Are OBL, FACW, or FAC: Yotal Number of Cominsor Species Across All Strate: Percent of Dominant Species \* Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x1 = \_ FACW species FAC apecies \_\_\_\_ = Total Cover FACU species \_\_\_ Herb Stratum (Plot size: UPL species \_\_ C-~ Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators \_\_ Dominance Test is >50% Prevalence Index is s3.01 .... Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vescular Plants<sup>1</sup> Problematic Hydrophytic Vegetation1 (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic = Total Cover Woody Vine Stratum (Plot size: \* Total Cover % Bare Ground in Herb Stratum

2 100 3/15		
	cm F	
	-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	≈Reduced Matrix, CS≈Covered or Coated Sand Gra	
ydric Soll Indicators: (Applicable to all		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipadon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
_ Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Metrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	Brack and the street of a constant of the street of the st
_ Thick Derk Surface (A12)	Redox Dark Surface (F6)	*Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (81)	Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Redux Depressions (Fo)	mines ustal bed of probettiess.
lestrictive Layer (if present):		
Туре:	**	
Depth (inches):		Hydric Soil Present? Yes No
/DROŁOGY		
/DROLOGY felland Hydrology Indicators:	dcheck all that apphy	Secondary Indicators (2 pr more required
/DROLOGY felland Hydrology Indicators:	d. check all that apply)  Water-Steined Leaves (B9) (except MLR	
FDROLOGY Fetand Hydrology Indicators: rimary indicators (minimum of one require _ Surface Water (A1)	Water-Stained Leaves (IS9) (except MLR	
FDROLOGY lettand Hydrology Indicators: rimery indicators (minimum of one require		A Water-Stained Leaves (89) (MLRA 1
FDROLOGY  retiand Hydrology Indicators:  rimary indicators (minimum of one require	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)	(A Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10)
FDROLOGY  fetland Hydrology Indicators: rimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11)	LAWater-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2)
FDROLOGY fettand Hydrology Indicators: rimary Indicators (minimum of one require _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2)		tA Water-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerist imagery (
FDROŁOGY  retland Hydrology Indicators: timery indicators (minimum of one require Surface Water (A1)  High Water Table (A2) Saturation (A3)  Weter Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 4B) Selt Crust (B11) Aquatic Invertenates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo	AA
FDROLOGY fettand Hydrology Indicators: rimary Indicators (minimum of one require _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2)		A
FDROLOGY  retaind Hydrology Indicators: rimary indicators (minimum of one require  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)	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 4B) Self Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial timagery it ts (C3) Geomorphic Position (D2) Sha9ow Aquitand (D3) FAC-Neutral Test (D5)
rDROLOGY  retiend Hydrology Indicators: mary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Met or Cruat (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 4B) Selt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced iron (C4) Recent fron Reduction in Tilled Solis (C6 Stunled or Stressed Plants (D1) (LRR A)	AA Water-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterna (810) Dry-Season Water Table (C2) Saturation Visible on Aerial tinagery is (C3) Geomorphic Position (D2) Shadow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
rDROŁOGY  retianat Hydrology Indicators: rimery Indicators (minimum of one require Surface Water (A1)  High Water Table (A2) Saturation (A3)  Weter Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Cruat (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 4B) Selt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C8 Stunied or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)	AA
/DROLOGY Interest indicators: Interest indicators: Interest indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Appal Mar of Cruat (B4) Iron Deposits (B5) Surface Soil Cracts (B6) Inundation Visible on Aerial Imagery (B Sparsely Vigetated Concave Surface (B3)	Water-Steined Leaves (B9) (except MLR 1, 2, 4A, and 4B) Selt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C8 Stunied or Stressed Plents (D1) (LRR A) Other (Explain in Remarks)	AA Water-Stained Leaves (89) (MLRA 1 4A, and 4B) Drainage Patterna (810) Dry-Season Water Table (C2) Saturation Visible on Aerial tinagery is (C3) Geomorphic Position (D2) Shadow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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SCAL

Sampling Point: \_\_

### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: Applicant/Owner: \_ Section Township Rance Investigator(a): Landform (hillstope, terrace, etc.): Local relief (concave, convex, none): Subregion # RRY Soil Map Unit Name: NWI classification; Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation 80H or Hydrology significantly disturbed? Are 'Normal Circumstances' present? Yes No Are Vegetation \_\_\_\_\_ Soit \_\_\_\_\_, 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? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes \_\_\_\_ No \_\_ above Normal rainfull - agricultual Field VEGETATION - Use scientific names of plants. Tree Stretum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species. a Total Cover That Are OBL, FACW, or FAC: (A/B) Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ \_\_\_ x1=\_ FACW species \_\_\_ FAC species \_ = Total Cover FACU species \_\_\_\_\_ x 4 = Herb Stratum (Plot size: \_ UPL species CONN Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation indicators: Dominance Test le >50% Prevalence Index is \$3.01 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants<sup>1</sup> Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators of hydric soli and wetland hydrology must be present, unless disturbed or problematic. \_= Total Cover Woody Vine Stratum (Piot size: Yes . a Total Cover % Bare Ground in Herb Stratum

Depth Matrix		Redox									
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

SOIL

Sampling Point: \_\_