

# **Sewall Wetland Consulting, Inc.**

PO Box 880 Fall City, WA 98024 Phone: 253-859-0515

October 28, 2021

Andy Schmidt 300 MissionView Drive Ellensburg, Washington 98926

RE: Critical Area Report – Schmidt Property

City of Ellensburg, Washington

SWC Job #19-194

Dear Andy,

This report describes our observations of any jurisdictional wetlands, streams and/or buffers on Parcels #12132, 12133, 958408, 536136, 956816-829, in unincorporated Kittitas County, Washington (the "site"). The site consists of 18 abutting parcels with a total area of 136.55 acres and located south of Game Farm Road within the NW ¼ of Section 32, Township 18 North, Range 19 East of the W.M.

#### **METHODOLOGY**

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site in early October of 2021. The site was reviewed using methodology described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (USACOE September 2008) as required by the US Army Corps of Engineers starting in June of 2009. This is the methodology currently recognized by the City of Ellensburg for wetland determinations and delineations. The site was also reviewed using methodology described in Soil colors were identified using the 1990 Edited and Revised Edition of the *Munsell Soil Color Charts* (Kollmorgen Instruments Corp. 1990.

Due to the season flood irrigation of the site and the regional high water levels in September at the end of the irrigation season, observations of the site were conducted in early October at the end and peak of the high water table season. All irrigation on the site had been off for several weeks prior to our site inspection.





Above: Aerial photograph from Kittitas Mapsifter website

This combination of no irrigation water on the site for several weeks, as well as the seasonal regional high water period, would give us an accurate depiction of what areas on the site had wetland hydrology with no local flood irrigation influence.

A series of 53 soil pits/data points were excavated on the site to characterize the plant, soil and hydrology conditions.

# **OBSERVATIONS**

Existing Site Documentation.

Prior to visiting the site, a review of several natural resource inventory maps was conducted. Resources reviewed included the National Wetland Inventory Map and the NRCS Soil Survey online mapping and Data, Kittitas County Taxsifter website, WADNR Fpars water type mapping and the WDFW Priority Habitats and species mapping.

# **National Wetlands Inventory (NWI)**

The NWI map depicts several emergent wetlands on the site, all of which correspond to historic and ongoing flood irrigation patterns on the site. In addition Naneum Creek is depicted to the east of the site. Irrigation ditches are also inaccurately depicted as stream type features.

The USFWS data indicates this wetland was mapped in 2017 and not field checked during the inventory. This wetland depiction appears to be the historic pattern of flood irrigation flow paths that are no longer present on the site. The Inventory mapping for Kittitas County specifically states for this area;

#### **Inventory Method:**

Wetland identification and interpretation was done "heads-up" using ArcMap versions 10.5-10.6. US Fish & Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping contractors in Portland, Oregon completed the original aerial photo interpretation and wetland mapping. Primary authors: Michael Holscher, Josh Moss, Tim O'Neill, and Rick Griffin of SWCA Environmental Consulting. QC during the mapping was provided by members of the mapping team. Regional wetland guidance, oversight and final QA for the submitted mapping project were completed by Bill Kirchner, Region 1, USFWS, NWI.

Field reconnaissance was not conducted Funding for the project was provided by the Washington Department of Ecology,

#### **Data Limitations:**

The user of the map is cautioned that, due to the limitation of mapping primarily through aerial photo interpretation, a small percentage of wetlands may have gone unidentified. Since the photography was taken during a particular time and season, there may be discrepancies between the map and current field conditions. Changes in the landscape which occurred after the photography was taken would result in such discrepancies.



Above: NWI map of the area of the site

# Soil Survey

According to the NRCS Soil Mapper website, the site is mapped as containing 10 soil types including Nanum, Nack, Manastash, Brickmill, Tahaha, Nack-Brickmill complex and Brickmill-Nanum complex soils. All of these soils are cobbly soils formed in alluvium with drainage classes from somewhat poorly drained to well drained. None of these soil series

are considered "hydric" or wetland soils according to the publication *Hydric Soils of the United States* (USDA NTCHS Pub No.1491, 1991).



Above: NRCS soil map of the site.

# **Kittitas County Mapsifter**

The Kittitas County Mapsifter website depicts three different emergent wetlands on the site, one on the west side of the site and two on the eastern side of the site.



Above: Kittitas County wetland and stream mapping of the site.

# **WDNR Fpars Stream Mapping**

According to the WDNR Fpars stream mapping website, Naneum Creek, a Type S water, is located just east of the site.

# **WDFW Priority Habitats and Species Maps**

The WDFW Priority Habitats and Species mapping for the site depicts a portion of the site as wetland somewhat similar to the NWI mapping of the site. No species specific locations of any listed species are depicted on the site.



Above: WADNR Fpars stream mapping of the site



Above: WDFW Priority habitat mapping of the area of the site.

# Field observations

The site is a large flat agricultural site used primarily as grazing lands for cattle as well as growing Timothy hay. The site has a slight slope to the south which is used to facilitate flood irrigation of the site. The site is irrigated with numerous irrigation ditches and a combination of flood irrigation from the ditches, as well as from pipe (Parcels # 958408, 12132 & 12133). This irrigation water seeps across the site from north to south and generally collects along the south side of the site bordering the Cascade Canal. Several irrigation collection pipes pass this water to the south for other users. The main irrigation ditches on the site are shown below with yellow lines;



Above: Main irrigation ditches (yellow lines) that flow across the site.

The site is characterized by a grazed plant community of a mix of weeds and various pasture grasses. The site is irrigated enough during the summer to maintain grass growth for the cattle grazing the site. As a result some wetland species have colonized the site from the irrigation water influence creating seasonal artificially wet soils. In addition, some

area of heavy flood irrigation have some evidence of hydric soils, but with the exception of the identified delineated wetlands, lack any hydrology indicators when the flood irrigation ceases.

Species noted in the pastures include tall fescue, quackgrass, timothy, sedge, Baltic rush, cheat grass, bentgrass, sedge ,thistle, aster and some knapweed and reed canard grass.

Soils on the site are very cobbly and extremely compact as a result of years of cattle grazing and the natural characteristics of the soil types found on the site. In general the soils on the site have soil chroma colors of 3 or 2 without any redoximorphic features. Portions of the site include cobbly sandy loams with similar soil colors.



Above: General location of Wetlands, A-E and Naneum Creek. Note: pale blue lines are irrelevant track lines for the gps and do not indicate any wetland or stream edge.

Areas within the irrigation channels has some wetland species and hydric soil indicators, particularly on the eastern side of the site which has numerous flood irrigation paths and ditches. However, wetland hydrology was not present during our site inspections on any of the site areas except those wetland areas identified along the south property line. The remaining area within the pastures outside the wetland delineations

are clearly irrigation features, man-made and should not be regulated as jurisdictional wetlands as they lack hydrology indicators without direct irrigation.

# Wetlands

The southern end of the site contained five separate areas which did contain soil saturation within the upper 12" during our site inspections, as well as hydric soil and hydrophytic plants. These areas were identified as wetlands. These areas all consists of grazed pasture areas at the southern border of the site along the north edge of the Cascade Canal and represent the lowest point on the site. These areas are all located within the collection points for all flood water that passes across the site. It's probable these areas maintain a higher level of soil saturation from the fact they receive all this irrigation water, as well as are located along the canal, which clearly has leaks and remains full during the entire growing season from April to October. The canal water undoubtedly raises groundwater in the areas along its sides and has influenced these areas hydrology. Below is a description of the wetlands found on the site;

# Wetland A

Wetland A consists of a grazed pasture wetland located along the south end of the site and gps located with points 181-199. This wetland is located along the tail end of an irrigation ditch as well as the edge of the canal which has a low point where water seeps.



Above: Location of Wetland A & B. Note: pale blue lines are irrelevant track lines for the gps and do not indicate any wetland or stream edge.

Species noted within the wetland include tall fescue, soft rush, reed canary grass and some cattail in the ditched portion along the canal border.

Soil pits excavated within this wetland area revealed a cobbly loam with a B-horizon soil color of 10YR 3/2 with common, medium, distinct, redoximorphic concentrations. Soils were saturated near the surface during our observation of the wetland.

Using the 2014 Washington State Department of Ecology Washington State Wetland Rating System for Eastern Washington, 2014 Update dated June 2014 Publication No. 14-06-018, and rating this wetland as a "depressional" wetland, this wetland scored a total of 13 points with 3 for habitat. This indicates a Category IV wetland. According to Kittitas County Municipal Code chapter 17A.04.020 (Buffer width requirements), Category IV wetlands over 1 acre in size have a buffer which consists of the zoning line setbacks and shall not exceed 25';

Category	Size of Wetland	Required Buffer
I	any size	50 - 200 feet
II	over 2,000 sq. ft.	25 - 100 feet
III	over 10,000 sq. ft.	20 - 80 feet
$IV^*$	43,560 sq. ft. (1 acre)	Building setbacks will be determined
by the zonir	ng lot line setbacks, but si	hall not exceed 25 feet.

<sup>\*</sup>Includes only non irrigation induced or enhanced Category IV wetlands. Irrigation water does influence ground water table elevations in Kittitas County.

# Wetland B-E

Wetland B-E consists of very similar grazed emergent wetlands in very close proximity located east of Wetland A, and like Wetland A, are located along the perimeter of the north edge of the Cascade Canal. These areas were identified by GPS points 202-214 for Wetland B, 215-226 for Wetland C, 227-239 fro Wetland D and 240-245 for Wetland E.



Above: Locations of Wetland B-E. Note: pale blue lines are irrelevant track lines for the gps and do not indicate any wetland or stream edge.

Species noted within these wetlands include tall fescue, soft rush, reed canary grass, spike rush, hard stem bulrush, smartweed, and some cattail in the ditched portion along the canal border.

Soil pits excavated within this wetland area revealed a mix of cobbly and sandy loam with a B-horizon soil color of 10YR 3/2 with common,

medium, distinct, redoximorphic concentrations. Soils saturated near the surface during our observation of the wetland.

These wetlands are so similar and in such close proximity, they were rated as one wetland using the 2014 Washington State Department of Ecology Washington State Wetland Rating System for Eastern Washington, 2014 Update dated June 2014 Publication No. 14-06-018, and rating this wetland as a "depressional" wetland, this wetland scored a total of 13 points with 3 for habitat. This indicates a Category IV wetland. According to Kittitas County Municipal Code chapter 17A.04.020 (Buffer width requirements), Category IV wetlands over 1 acre in size have a buffer which consists of the zoning line setbacks and shall not exceed 25';

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$IV^*$	43,560 sq. ft. (1 acre)	Building setbacks will be determined
by the zoni	ng lot line setbacks, but s	shall not exceed 25 feet.

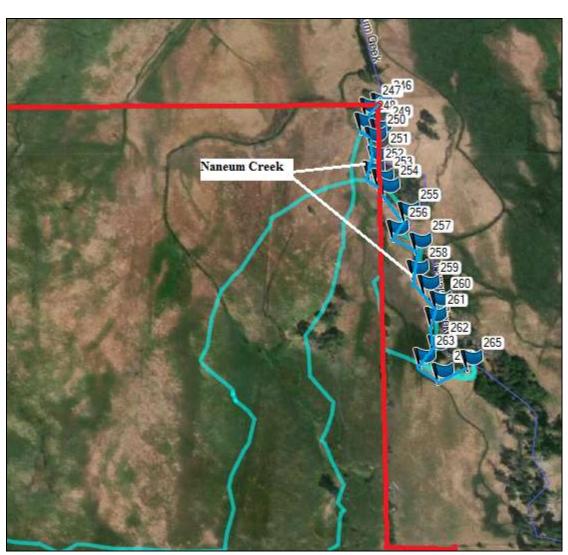
<sup>\*</sup>Includes only non irrigation induced or enhanced Category IV wetlands. Irrigation water does influence ground water table elevations in Kittitas County.

# **Streams**

Naneum Creek is located along the northeast corner of the site. The Creek is located within the Rural Conservancy zone of the shoreline. The western OHM of the creek was located on the site and within 100' of the site with gps points 246-265. Naneum Creek is designated as a Type S water or a Shoreline of the site. According to Table 17B.05.050-1 of the Kittitas County Shoreline regulations, Type S waters with a Rural Conservancy designation have a 100' buffer measured from the OHWM.

17B.05.050-1. Standard Shoreline Buffers (Type S Waters)

Shoreline Environment Designation	Type S Standard Shoreline Buffer Width (feet)
Urban Conservancy	100
Shoreline Residential	100
Rural Conservancy	100
Natural	150



Above: Naneum Creek OHWM located on the northeast corner of the site. Note: pale blue lines are irrelevant track lines for the gps and do not indicate any wetland or stream edge.

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

To Sent

Rating forms and associated exhibits



Approximate data point locations

# 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.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1. U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi.

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Munsell Color. 1988. Munsell Soil Color Charts. Kollmorgen Instruments Corp., Baltimore, Maryland.

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Reed, P., Jr. 1988. National List of Plant Species that Occur in Wetlands: Northwest (Region 9). 1988. U. S. Fish and Wildlife Service, Inland Freshwater Ecology Section, St. Petersburg, Florida.

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.

USDA NRCS & National Technical Committee for Hydric Soils, September 1995. Field Indicators of Hydric Soils in the United States - Version 2.1

	RATING SUMMARY – Eastern	Washington
	or ID#): Schullt [	_
Rated by 20	Trained by Ecology? Yes_	No. Date of training
	or Rating Deputed Unit has multiple	
	Form is not complete without the figures request arce of base aerial photo/map	ted (figures can be combined
	OVERALL WETLAND CATEG	ORY
	of wetland based on FUNCTIONS  Category I - Total score = 22 - 27  Category II - Total score = 19 - 21	Score for each function based on three ratings
	Category II - Total score = 22 - 27 Category III - Total score = 19 - 21 Category III - Total score = 16 - 18	function based on three
	Category I - Total score = 22 - 27  Category II - Total score = 19 - 21  Category III - Total score = 16 - 18  Category IV - Total score = 9 - 15  Improving Hydrologic Habitat  Water Quality	function based on three ratings (order of ratings is not important) 9 = H,H,H 8 = H,H,M
FUNCTION	Category I - Total score = 22 - 27  Category II - Total score = 19 - 21  Category III - Total score = 16 - 18  Category IV - Total score = 9 - 15  Improving Hydrologic Habitat	function based on three ratings (order of ratings is not important) 9 = H,H,H 8 = H,H,M 7 = H,H,L
FUNCTION	Category I - Total score = 22 - 27  Category II - Total score = 19 - 21  Category III - Total score = 16 - 18  Category IV - Total score = 9 - 15  Improving Hydrologic Habitat  Water Quality  Circle the appropriate ratings  H M L H M L H M	function based on three ratings (order of ratings is not important) 9 = H,H,H 8 = H,H,M
<b>FUNCTION</b> Site Potential	Category I - Total score = 22 - 27  Category II - Total score = 19 - 21  Category III - Total score = 16 - 18  Category IV - Total score = 9 - 15  Improving Hydrologic Habitat  Water Quality  Circle the appropriate ratings	function based on three ratings (order of ratings is not important) 9 = H,H,H 8 = H,H,M 7 = H,H,L 7 = H,M,M
FUNCTION Site Potential	Category I - Total score = 22 - 27  Category II - Total score = 19 - 21  Category III - Total score = 16 - 18  Category IV - Total score = 9 - 15  Improving Hydrologic Habitat  Water Quality  Circle the appropriate ratings  H M L H M L H M L  H M L H M L	function based on three ratings (order of ratings is not important)  9 = H,H,H 8 = H,H,M 7 = H,H,L 7 = H,M,M 6 = H,M,L 6 = M,M,M 5 = H,L,L
FUNCTION Site Potential Landscape Potential	Category I - Total score = 22 - 27  Category II - Total score = 19 - 21  Category III - Total score = 16 - 18  Category IV - Total score = 9 - 15  Improving Hydrologic Habitat  Water Quality  Circle the appropriate ratings  H M L H M L H M L  H M L H M L	function based on three ratings (order of ratings Is not Important) 9 = H,H, 8 = H,H,M 7 = H,H,L 7 = H,M,M 6 = H,M,L 6 = M,M,M

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY  Circle the appropriate category	
Vernal Pools	14 111	
Alakali	I	
Wetland with high conservation value	I	
Bog	1	
Old Growth or Mature Forest - slow growing	1	
Aspen Forest	1	
Old Growth or Mature Forest – fast growing	II	
Floodplain forest	11	
None of the above		

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

# Maps and figures required to answer questions correctly (Eastern Washington)

#### **Depressional Wetlands**

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2, H1.3	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D1.4	T
Boundary of 150 ft buffer (can be added to another figure)	D 2.2, D 5.2	
Polygon of area 1km from wetland edge - including polygons for accessible habitat and undisturbed habitat	H 2.1, H2.2	
Screen capture of map of 303d listed waters in basin (from Ecology web site)	D 3.1, D 3.2	
Screen capture of list of TMDL's for WRIA in which unit is found (from web)	D 3.3	
Area of open water (can be added to map of hydroperiods)	H1.3.1	

# Riverine Wetlands

Man of:	To unswer questions:	Figure #
Cowardin plant classes and classes of emergents	H 1.1, H 1.4	
Hydroperiods	H 1.2, H1.3	
Ponded depressions	R 1.1	
Boundary of 150 ft buffer (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	
Polygon of area 1km from wetland edge -including polygons for accessible habitat and undisturbed habitat	H 2.1, H2.2	
Screen capture of map of 303d listed waters in basin (from Ecology web site)	R 3.1	
Screen capture of list of TMDL's for WRIA in which unit is found (from web)	R 3.2, R 3.3	1

#### Lake-fringe Wetlands

Mark	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	L1.1, L4.1, H1.1, H1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of 150 ft buffer (can be added to another figure)	L 2.2	T
Polygon of area 1km from wetland edge (Including polygons for accessible habitat and undisturbed habitat)	H 2.1, H2.2	
Screen capture of map of 303d listed waters in basin (from Ecology web site)	L 3.1	T
Screen capture of list of TMDL's for WRIA in which unit is found (from web)	L 3.3	

#### Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	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)	\$ 2.1, \$ 5.1	
Polygon of area 1km from wetland edge (Including polygons for accessible habitat and undisturbed habitat)	H 2.1, H2.2	
Screen capture of map of 303d listed waters in basin (from Ecology web site)	S 3.1, S 3.2	
Screen capture of list of TMDL's for WRIA in which unit is found (from web)	S 3.3	



# **HGM Classification of Wetland Units in Eastern Washington**

For questions 1-4 the criteria described must apply to the entire unit being rated for it to be classified correctly.

If the hydrologic criteria listed in each greation do not apply to the entire unit being rated, you prehably have a unit with multiple HGM classes. In this case, identify which hydrologic criteris in questions 1-4 apply, and go to Question 5.

- 1. Does the entire wetland unit meet both of the following criteria?
  - \_\_The vegetated part of the wetland is on the water side of the Ordinary High Water Mark of a body of permanent open water (without any plants on the surface) that is at least 20 acres (8 ha) in size
  - \_At least 30% of the open water area is deeper than 10 ft (3 m)

NO - go to YES - The wetland class is Lake-fringe (Lacustrine Fringe)

- 2. 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. \_\_\_\_Does the water leaves the wetland without being impounded?

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 <3ft diameter and less than 1 foot deep). NO - go to 3) YES - The wetland class is Slope

- 3. 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 ten years.
  - NOTE: The riverine unit can contain depressions that are filled with water when the river is not flooding.

NO - go to 4) YES - The wetland class is Riverine

4. 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 5 (YES - The wetland class is Depressional)

5. 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. 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

Wetland Rating System for Eastern WA: 2014 Update Rating Form

Wetland name or numbe

classes present within your wetland. 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 (the riverine portion is within the boundary of depression)	Depressional
Depressional + Lake-fringe	Depressional
Riverine + Lake-fringe	Riverine

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

Wetland Rating System for Eastern WA: 2014 Update Rating Form

				1	,
Netland	name	or	number	/	

<u>DEPRESSIONAL WETLANDS</u> Water Quality Functions - Indicators that the site functions to improve water	guality.	(anity 1 scare per box)
D 1.0 Does the wetland unit have the potential to improve water quality?		Part marel
D 1.1 Characteristics of surface water flows out of the wetland unit:		
Wetland has no surface water outlet -	points = 5	
Wetland has an intermittently flowing outlet	points = 3	
Wetland has a highly constricted permanently flowing outlet	points = 3	7
Wetland has a permanently flowing surface outlet	points = 1	
D 1.2 The soil 2 inches below the surface (or duff layer) is clay or organic (use NRCS definition	is of soils)	•
YES points = 3 NO gaints = 0		
D 1.3 Characteristics of persistent vegetation (emergent, shrub, and/or forest Cowardin class	)	
Wetland has persistent, ungrazed, vegetation for > 2/3 of area	points = 5	
Wetland has persistent, ungrazed, vegetation from 1/3 to 2/3 of area	points = 3	
Wetland has persistent, ungrazed vegetation from 1/10 to < 1/3 of area	points = 1	
Wetland has persistent, ungrazed vegetation <1/10 of area	points = 0	
D 1.4 Characteristics of seasonal ponding or inundation.)		
This is the area of ponding that fluctuates every year. Do not count the area that is perma	nently ponded.	
Area seasonally ponded is > 1/2 total area of wetland	points = 3	
Area seasonally pended is % - % total area of wetland	points = 1	
Area seasonally ponded is < 1/2 total area of wetland	points = 0	حت
Total for D 1 Add the points in		$\sim$
Rating of Site Potential If score is: 12-16 = H 6-11 = M 0-5=		
Record the rating		
D 2.0 Does the landscape have the potential to support the water quality function at	the site?	
D2.1 Does the Wetland unit receive stormwater discharges?	Yes = 1 (No = 0)	G
D 2.2 is > 10% of the buffer within 150 ft of wetland unit in land uses that generate pollutants	Ves = 1 No = 0	1
D2.3 Are there are septic systems within 250 ft of the wetland unit?	Yes = 1 (No = 0)	0
D2.4 Are there are other sources of pollutants coming into the wetland that are not listed in qu	estions	び
D2.1 - D2.37 Source	Yes=1 No=0	
Total for D 2 Add the points in	the boxes above	)
	■ L on the first page	
D 3.0 is the water quality improvement provided by the site valuable to society?		
D3.1 Does the unit discharge directly (within 1 mile) to a stream, river, or lake that	is on the 303dlist? (Yes = 1) No = 0	1
D 3.2 Is the unit in a basin or sub-basin where water quality is an issue in some aquatic resource		· · · · · · · · · · · · · · · · · · ·
eutrophic lakes, problems with nuisance and toxic algae)?	Yes = 1 No = 0	
D 3.3 Has the site been identified in a watershed or local plan as important for maintaining wa	ter quality? (answer	
YES if there is a TMDL for the drainage or basin in which unit is found)	(Ver = 2 - No = 4	*13
Total for D 3 Add the points in	Yes = 2 No = 0	24
	= L ng on the first page	

Wetland name or	number	1+
DEDDESSIONA	LVARCE	AMING

DEPRESSIONAL WETLANDS Hydrologic Functions - Indicators that the site functions to reduce flooding and stream en	Points (only 1 score (osion, per box)
D 4. 0 Does the wetland unit have the <u>potential</u> to reduce flooding and erosion?	
D 4.1 Characteristics of surface water flows out of the wetland unit:	
Wetland has no surface water outlet point	ts = 8
Wetland has an intermittently flowing outlet Coint	5=6
Wetland has a highly constricted permanently flowing outlet point	
Wetland has a permanently flowing surface outlet point (If outlet is a ditch and not permanently flowing treat unit as "intermittently flowing")	s=0 4
D 4.2 Depth of storage during wet periods Estimate the height of ponding above the bottom of the outling units with no outlet measure from the surface of permanent water or deepest part (if dry).	let. For
	rts = 8
Seasonal ponding: 2 ft -< 3 ft above the lowest point in unit or the surface of permanent ponding point	ł
	its = 4
	ts = 4
	D=21
Total for D 4 Add the points in the boxes	
Rating of Site Potential If score is: 12-16 = H 6-11 = M (0-5 = L)  Record the rating on the first	t page
D 5.0 Does the landscape have the potential to support hydrologic functions at the site?	
D5.1 Does the unit receive any stormwater discharges? Yes = 1	No=0 ⊜
D5. is >10% of the land use within 150 ft of the wetland in a land uses that generates runoff? (es=)	No = 0
D 5.3 is more than 25% of the contributing basin of the wetland unit covered with intensive human land us	
Total for D 5 Add the points in the boxes above	2
Rating of Landscape Potential If score is: 3 = H 1,2 = M 0 = L	
Record the rating on the first	st page
D 6.0 Are the hydrologic functions provided by the site valuable to society?	
D 6.1 is the unit is in a landscape that has flooding problems?	
Choose the description that best matches conditions around the wetland unit being rated. Do not add point Choose the highest score if more than one condition is met.	rs.
U The wetland captures surface water that would otherwise flow downgradient into areas where flow has damaged human or natural resources (e.g. salmon redds), AND	ding
o Damage occurs in sub-basin that is immediately downgradient of unit points	s=2
o Damage occurs in a sub-basin further down-gradient points	. 1
1) The existing or potential outflow from the wetland is so constrained by human or natural conditions the water stored by the wetland cannot reach areas that flood.	that
Explain why points	= O
! There are no problems with flooding downstream of the unit. points	=0
D 6.2 Has the site has been identified as important for flood storage or flood conveyance in a regional floor control plan?  Yes = 2 No = C	
Total for D 6 Add the points in the boxes abo	<del></del>
Rating of Value If score is: 2-4 = H 1=D 0 = L	

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Record the rating on the first page

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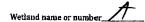
These questions apply to wetlands of HABITAT FUNCTIONS - indicators that site functions to		(only 1 score per box)
H 1. Does the wetland unit have the <u>potential</u> to provide habi		<del>teri e de la colonia de la colonia de la colonia</del>
H 1.1 Categories of vegetation structure  Check the Cowardin vegetation classes present and categories of en  category is >= % acre or >= 10% of the unit if unit is < 2.5 acres	nergent plants. Size threshold for each	
Emergent plants 0-12 in. (0 – 30 cm) high are the highest  Emergent plants >12 – 40 in.(>30 – 100cm) high are the highest la  Emergent plants > 40 in.(> 100cm) high are the highest la  Scrub/shrub (areas where shrubs have >30% cover)  Forested (areas where trees have >30% cover)	ighest layer with >30% cover	2 6
H 1.2. Is one of the vegetation types "aquatic bed?"	YES = 1 point NO = 0 points	0
H 1.3. Surface Water H 1.3.1 Does the unit have areas of "open" water (without he acre OR 10% of its area during the March to early June OR in Note: answer YES for lake-fring YES = 3 points & go to H 1.4 H 1.3.2 Does the unit have an intermittent or permanent, and boundaries, or along one side, over at least X acre or 10% of I YES = 3 points H 1.4. Richness of Plant Species	August to the end of September?  ge wetlands  NO = go to H 1.3.2  d unvegetate,d stream within Its  its area, (answer yes only if H 1.3.1 is NO)?  NO = 0 points	
Count the number of plant species in the wetland that cover at le species can be combined to meet the size threshold)  Do not include Eurasean Milfoli, reed canarygrass, purple  Conadian Thistie, Yellow-flog Iris, and Saft Cedar ITI  # of species Scoring: > 9 species = 2 points 4-9 spec	u da nat have to name the species. loosestrife, Russian Olive, Phragmites, imarisk)	
H 1.5. Interspersion of habitats Decide from the diagrams below whether interspersion between ty and unvegetated areas (open water or mudflats) is high, medium, is Use map of Cawardin plant classes prepared for questions His None = 0 points.  Low = 1 point  Mod	ow, or none.	Figure
Nigh = 3 points High = 3 points rips NOTE: If you have four or more classes or three plants classes and o	srian braided channels with 2 classes = High open water the rating is always "high".	0

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H 1.6. Special Habitat Features:  Aheck the habitat features that are present in the wetland unit. The number of checks is the score.  Loose rocks larger than 4" or large, downed, woody debris (>4in. diameter) within the area of surface ponding or in stream.  Cattalis or bulrushes are present within the unit.  Standing snags (diameter at the bottom > 4 inches) in the wetland unit or within 30 m (100ft) of the edge.  Emergent or shrub vegetation in areas that are permanently inundated/ponded.  Stable steep banks of fine material that might be used by beaver or muskrat for denning (>45 degree slope) OR signs of recent beaver activity  Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, mass/ground cover)  Maximum score possible = 6  H 1. TOTAL Score -  Add the check marks in the box above  Rating of Site Potential  H score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	
Loose rocks larger than 4" og large, downed, woody debris (>4in. diarneter) within the area of surface ponding or in stream.  Cattalis or bulrushes are present within the unit.  Standing snags (diameter at the bottom > 4 inches) in the wetland unit or within 30 m (100ft) of the edge.  Emergent or shrub vegetation in areas that are permanently inundated/ponded.  Stable steep banks of fine material that might be used by beaver or muskrat for denning (>45 degree slope) OR signs of recent beaver activity  Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, mass/ground cover)  H 1. TOTAL Score Add the check marks in the box above  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	antinopolischen
ponding or in stream.  Cattalis or bulrushes are present within the unit.  Standing snags (diameter at the bottom > 4 inches) in the wetland unit or within 30 m (100ft) of the edge.  Emergent or shrub vegetation in areas that are permanently inundated/ponded.  Stable steep banks of fine material that might be used by beaver or muskrat for denning (>45 degree slope) OR signs of recent beaver activity  Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, mass/ground cover)  H 1. TOTAL Score - Add the check marks in the box above  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	and a second section of
Cattails or bulrushes are present within the unit.  Standing snags (diameter at the bottom > 4 inches) in the wetland unit or within 30 m (100ft) of the edge.  Emergent or shrub vegetation in areas that are permanently inundated/ponded.  Stable steep banks of fine material that might be used by beaver or muskrat for denning (>45 degree slope) OR signs of recent beaver activity  Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herboceous, mass/ground cover)  H 1. TOTAL Score - Add the check marks in the box above  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	anderson desired
Standing snags (diameter at the bottom > 4 inches) in the wetland unit or within 30 m (100ft) of the edge.  Emergent or shrub vegetation in areas that are permanently inundated/ponded.  Stable steep banks of fine material that might be used by beaver or muskrat for denning (>45 degree slope) OR signs of recent beaver activity  Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaccous, mass/ground cover)  Maximum score possible = 6  H 1. TOTAL Score -  Add the check marks in the box above  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	
Emergent or shrub vegetation in areas that are permanently inundated/ponded.  Stable steep banks of fine material that might be used by beaver or muskrat for denning (>45 degree slope) OR signs of recent beaver activity  Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, mass/ground cover)  Maximum score possible = 6  H 1. TOTAL Score Add the check marks in the box above  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	•
Stable steep banks of fine material that might be used by beaver or muskrat for denning (>45 degree slope) OR signs of recent beaver activity  Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, mass/ground cover)  H 1. TOTAL Score Add the check marks in the box above  Rating of Site Potential If score is: 12 – 16 = H 6 - 11 = M 0 - 5 = L	
slope) OR signs of recent beaver activity Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, mass/ground cover)  H 1. TOTAL Score - Add the check marks in the box above  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	-
Invasive species cover less than 20% in each stratum of vegetation (conopy, sub-canopy, shrubs, herbaceous, mass/ground cover)  H 1. TOTAL Score - Add the check marks in the box above  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	
herbaceous, mass/ground cover)  H 1. TOTAL Score -  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	
H 1. TOTAL Score - Add the check marks in the box above Z  Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	
Rating of Site Potential If score is: 12 - 16 = H 6 - 11 = M 0 - 5 = L	
Record the ratin <del>g on the first d</del> age	
H 2.0. Does the landscape have the potential to support habitat at the site?	
H 2.1 Accessible habitat (only area of habitat abutting wetland unit). Colculate:	
% undisturbed habitat + [(% moderate and low intensity land uses)/2] = %	
If total accessible habitat is:	
> 1/3 (33.3%) of 1km circle (~100 hectares) points = 3	
20 - 33% of 1km circle points = 2	
10- 19% of 1km circle points = 1	
<10% of 1km circle points = 0	
H2.2 Undisturbed habitat in 1km circle around unit. If:	
Undisturbed habitat > 50% of circle points = 3	
Undisturbed habitat 10 - 50% and in 1-3 patches points = 2	
Undisturbed habitat 10 - 50% and > 3 patches points = 1	
Undisturbed habitat < 10% of circle points = 0	
H2.3 Land use intensity in 1 km circle. If:	
> 50% of circle is high intensity land use points = 1-27 - 2	
Does not meet criterion above points = 0	
The wetland unit is in an area where annual rainfall is less than 12 inches, and its water regime is not	
influenced by irrigation practices, dams, or water control structures. (Generally, this means outside	
boundaries of reclamation areas, irrigation district, or reservoirs ) points = 3	
Total for H 2 Add the points in the boxes above	
Rating of Landscape Potential If score is: 4-6 = H 1-3 = M <1=L	
Record the rating on the first page	
H 3.0 is the Habitat provided by the site valuable to society?	
H3.1Does the site provides habitat for species valued in laws, regulations or policies? (choose the highest score)	
Site meets ANY of the following criteria: points = 2	
it provides habitat for Threatened or Endangered species (any plant or animal on state or federal lists)	
It is a "priority area" for an individual WDFW species	
It is a Wetland With a High Conservation Value as determined by the Department of Natural Resources	
it has 3 or more priority habitats within 100m (see Appendix B)	
It has been categorized as an important habitat site in a local or regional comprehensive plan, in a	
Shoreline Master Plan, or in a watershed plan	
Site has 1 or 2 priority habitats within 100m (see Appendix B) points = 1	
Rating of Value If score is: 2 = H 1 = M 0 = L	
Record the rating on the first page	

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#### **CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS**

Please determine if the wetland unit meets the attributes described below and circle the appropriate Category. NOTE: A wetland may meet the criteria for more than one set of special characteristics. Record all those that apply. NOTE: All units should also be characterized based on their functions.

Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the Category when the	
appropriate criteria are met.	
SC 1.0 Vernal pools	
Is the wetland unit less than 4000 ft <sup>2</sup> , and does it meet at least two of the following	
criteria?	l
- Its only source of water is rainfall or snowmelt from a small contributing	
basin and has no groundwater input	
Wetland plants are typically present only in the spring; the summer	]
vegetation is typically upland annuals. NOTE: If you find perennial,	
"obligate", wetland plants the wetland is probably NOT a vernal pool	
— The soil in the wetland are shallow (<1ft deep (30 cm)) and is underlain by	
an impermeable layer such as basalt or clay.	
Surface water is present for less than 120 days during the "wet" season.	Ī
YES = Go to SC 1.1 NO - not a vernal pool	
SC 1.1 is the vernal pool relatively undisturbed in February and March?	į
YES = Go to SC 1.2 NO - not a vernal pool with special characteristics	
	<del> </del>
SC 1.2 Is the vernal pool in an area where there are at least 3 separate aquatic	Cat. II
resources within 0.5 miles (other wetlands, rivers, lakes etc.)?  YES = Category II  NO = Category II	Cat. III
	and the substitute of the substitute of the substitute of
SC 2.0 Alkali wetlands	
Does the wetland unit meets one of the following two criteria?	
— The wetland has a conductivity > 3.0 mS/cm.	
The wetland has a conductivity between 2.0 - 3.0 mS, and more than 50%	
of the plant cover in the wetland can be classified as "alkali" species (see	
Table 4 for list of plants found in alkali systems).	
- If the wetland is dry at the time of your field visit, the central part of the	1
area is covered with a layer of salt.	
OR does the wetland unit meets two of the following three sub-criteria?	
- Salt encrustations around more than 80% of the edge of the wetland	1
<ul> <li>More than % of the plant cover consists of species listed on Table 4</li> </ul>	
<ul> <li>A pH above 9.0. All alkali wetlands have a high pH, but please note that</li> </ul>	
some freshwater wetlands may also have a high pH. Thus, pH alone is not	
a good indicator of alkali wetlands.	6.4.1
YES = Category   NO - not an alkali wetland	Cat. I

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SC 3.0 Wetlands with High Conservation Value (WHCV)	ı
SC 2.1 Has the Department of Natural Resources updated their web site to include the list of	I
Wetlands with High Conservation Value?	
YES - Go to SC 2.2 NO - Go to SC 2.3	Cat. I
SC 2.2 is the wetland unit you are rating listed on the DNR database as having a High	
Conservation Value? YES = Category I NO = not a WHCV	i •
SC 2.3 is the wetland unit being rated in a Section/Township/Range that contains a Natural	
Heritage wetland?	
http://www1.dnr.wa.gov/nhp/refdesk/datesearch/wmhpwetlands.pdf	
YES contact WNHP/DNR and go to SC 2.4 NO = not a WHCV	i
SC 2.4 Has DNR identified the wetland within the S/T/R as a wetland with High Conservation	i
value and is listed on their web site?	i
YES = Category I NOnot an WHCV	
SC 4.0 Bogs and Calcareous Fens	<u> </u>
Does the wetland unit (or any part of the wetland unit) meet both the criteria for soils and	i
vegetation in bogs or calcareous fens. Use the key below to identify if the wetland is a bog or	i
calcareous fen. If you answer yes you will still need to rate the wetland based on its functions.	
SC 4.1. Does an area within the wetland unit have organic soil horizons (i.e. layers of organic	i
soil), either peats or mucks, that compose 16 inches or more of the first 32 inches of the	
soil profile? (See Appendix C for a field key to identify organic soils)?	i I
Yes - go to SC 4.3 No - go to SC 4.2	: !
SC 4.2. Does an area within the unit have organic soils, either peats of mucks that are less	İ
than 16 inches deep over bedrock or an impermeable hardpan such as day or volcanic	1
ash, or that are floating on top of a lake or pand??	i
Yes - go to 5C 4.3 No - Is not a bag for rating	i
SC 4.3. Does an area within the unit have more than 70% cover of mosses at ground level	İ
AND at least 30% of the total plant cover consists of species in Table 5?	i
Yes - Category I bog No - go to SC 4.4	I
 NOTE: If you are uncertain about the extent of masses in the understory you may	
 substitute that criterion by measuring the pH of the water that seeps into a hole dug at	
least 16" deep. If the pH is less than 5.0 and the plant species in Table 5 are present, the	1
wetland is a bag.	ı
SC 4.4 Is an area with peats or mucks forested (> 30% cover) with subalpine fir, western red	
cedar, western hemlock, lodgepole pine, quaking aspen, Englemann's spruce, or western	i
white pine, AND any of the species (or combination of species) listed in Table 5 provide	ı
more than 30% of the cover under the canopy	ı
Yes - Category I bog NO - go to question SC 4.5	Cat. I
5. Do the species listed in Table 6 comprise at least 20% of the total plant cover within an area of	ľ
peats and mucks?	
Yes – Is a Calcareous Fen for purpose of rating No - go to Question 6	i
6. Do the species listed in Table 6 comprise at least 10% of the total plant cover an area of peats	i
and mucks, AND one of the two following conditions is met:	i
<ul> <li>Marl deposits (calcium carbonate (CaCO3) precipitate) occur on the soil surface or plant</li> </ul>	i
stems	ı
<ul> <li>The pH of free water ≥ 6.8 AND electrical conductivity ≥ 200 uS/cm at multiple locations</li> </ul>	ı
within the wetland	Cat. I
Yes – Is a Category I calcareous fen No - Is not a calcareous fen	Cat. I



Wetland name or number

YES = Category ! NO = go to SC 5.2  SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species.  YES = Category ! NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category !! NO = go to SC 5.5		SC 5.0 Forested Wetlands
Present in question H 1.1)  The wetland is within the "100 year" floodplain of a river or stream  aspen (Populus tremuloides) represents at least 20% of the total cover of woody species  There is at least ¼ acre of trees (even in wetlands smaller than 2.5 acres) that are "mature" or "old-growth" according to the definitions for these priority habitats developed by WDFW (see definitions in question H3.1)  YES = go to SC 5.1 NO -not a forested wetland with special characteristics  SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees (see Table 7)  YES = Category I  NO = go to SC 5.2  Cat. YES = Category I  NO = go to SC 5.3  YES = Category I  NO = go to SC 5.3  YES = Category I  NO = go to SC 5.5  YES = Category II  NO = go to SC 5.5  YES = Category II  NO = go to SC 5.5	rest rooted within its boundary that meets at least	Does the wetland unit have an area
The wetland is within the "100 year" floodplain of a river or stream aspen (Populus tremuloides) represents at least 20% of the total cover of woody species  There is at least ¼ acre of trees (even in wetlands smaller than 2.5 acres) that are "mature" or "old-growth" according to the definitions for these priority habitats developed by WDFW (see definitions in question H3.1) YES = go to SC 5.1 NO -not a forested wetland with special characteristics  SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees (see Table 7) YES = Category!  NO = go to SC 5.2  Cat. SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species. YES = Category!  NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category!  NO = go to SC 5.5	Continue only if you have identified a forested class is	one of the following three crite
<ul> <li>aspen (Populus tremuloides) represents at least 20% of the total cover of woody species         <ul> <li>There is at least ¼ acre of trees (even in wetlands smaller than 2.5 acres) that are "mature" or "old-growth" according to the definitions for these priority habitats developed by WDFW (see definitions in question H3.1)</li> <li>YES = go to SC 5.1 NO -not a forested wetland with special characteristics</li> </ul> </li> <li>SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees (see Table 7)</li></ul>		present in question H 1.1)
species  There is at least % acre of trees (even in wetlands smaller than 2.5 acres) that are "mature" or "old-growth" according to the definitions for these priority habitats developed by WDFW (see definitions in question H3.1) YES = go to SC 5.1 NO —not a forested wetland with special characteristics.  SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees (see Table 7) YES = Category! NO = go to SC 5.2  SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species. YES = Category! NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category! NO = go to SC 5.5	ear" floodplain of a river or stream	<ul> <li>The wetland is within the "</li> </ul>
"mature" or "old-growth" according to the definitions for these priority habitats developed by WDFW (see definitions in question H3.1)  YES = go to SC 5.1 NO -not a forested wetland with special characteristics  SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees (see Table 7)  YES = Category I  NO = go to SC 5.2  SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species.  YES = Category I  NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category II  NO = go to SC 5.5	resents at least 20% of the total cover of woody	
developed by WDFW (see definitions in question H3.1) YES = go to SC 5.1 NO -not a forested wetland with special characteristics.  SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees (see Table 7) YES = Category I NO = go to SC 5.2  SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species. YES = Category I NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category II NO = go to SC 5.5	even in wetlands smaller than 2.5 acres) that are	— There is at least ¼ acre of to
YES = go to SC 5.1 NO -not a forested wetland with special characteristics  SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees (see Table 7) YES = Category! NO = go to SC 5.2  SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species. YES = Category! NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category!! NO = go to SC 5.5	ling to the definitions for these priority habitats	"mature" or "old-growth" a
SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees (see Table 7) YES = Category! NO = go to SC 5.2  Cat. SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species. YES = Category! NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category! NO = go to SC 5.5	tions in question H3.1)	developed by WDFW (see
cover) are slow growing native trees (see Table 7) YES = Category! NO = go to SC 5.2  SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species. YES = Category! NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category!! NO = go to SC 5.5	prested wetland with special characteristics	YES = go to SC 5.1 NO -no
YES = Category ! NO = go to SC 5.2  SC 5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species.  YES = Category ! NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category !! NO = go to SC 5.5	t canopy where more than 50% of the tree species (by	SC 5.1 Does the wetland unit have a
C5.2 Does the unit have areas where aspen (Populus tremuloides) represents at least 20% of the total cover of woody species.  YES = Category I  NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category II  NO = go to SC 5.5	(see Table 7) Cat. I	cover) are slow growing native t
the total cover of woody species.  YES = Category I  NO = go to SC 5.3  SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category II  NO = go to SC 5.5	NO = go to SC 5.2	YES = Category !
SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)  YES = Category II  NO = go to SC 5.5	pen (Populus tremuloides) represents at least 20% of Cat. I	the total cover of woody specie
species (by cover) are fast growing species. (see Table 7)  YES = Category II  NO = go to SC 5.5	NO = go to SC 5.3	YES = Category I
• • • • • • • • • • • • • • • • • • • •		
CT 6 (4 Ab a farmer of the country o	NO = go to SC 5.5	YES = Category II
6C 5.4 is the forested component of the wetland within the "100 year floodplain" of a river or stream?	retland within the "100 year floodplain" of a river or	
YES = Category II Cat. 1	Cat. H	YES = Category II
Category of wetland based on Special Characteristics	/ Characteristics	Category of wetland based on Si
Choose the "highest" rating if wetland falls into several categories.		
If you answered NO for all types enter "Not Applicable" on p.1		

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# Appendix B: WDFW Priority Habitats in Eastern Washington

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 )

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

- \_\_\_\_Blodiversity Areas and Corridors: Areas of habitat that are relatively important to various species of native fish and wildlife (full descriptions in WDFW PHS report p. 152).
- Old-growth/Mature forests: Old-growth east of Cascade crest: Stands are highly variable in tree species composition and structural characteristics due to the influence of fire, climate, and soils. In general, stands will be >150 years of age, with 25 trees/ha (10 trees/acre) that are > 53 cm (21 in) dbh, and 2.5-7.5 snags/ha (1 3 snags/acre) that are > 30-35 cm (12-14 in) diameter. Downed logs may vary from abundant to absent. Canopies may be single or multi-layered. Evidence of human-caused alterations to the stand will be absent or so slight as to not affect the ecosystem's essential structures and functions. Mature forests: Stands with average diameters exceeding 53 cm (21 in) 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 and 80 160 years old east of the Cascade crest.
- \_\_\_Oregon white Oak: Woodlands 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.
- \_\_\_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.
- \_\_\_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 7.6 m (25 ft) high and occurring below 5000 ft.

\_\_\_\_Aspen Stands: Pure or mixed stands of aspen greater than 0.4 ha (1 acre).

- \_\_\_Talus: Homogenous areas of rock rubble ranging in average size 0.15 2.0 m (0.5 6.5 ft), composed of basalt, and site, 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 > 51 cm (20 in) in western Washington and are > 2 m (6.5 ft) in height. Priority logs are > 30 cm (12 in) in diameter at the largest end, and > 6 m (20 ft) long.
- \_\_\_\_Shrub-steppe: A nonforested vegetation type consisting of one or more layers of perennial bunchgrasses and a conspicuous but discontinuous layer of shrubs (see Eastside Steppe for sites with little or no shrub cover).
- Eastside Steppe: Nonforested vegetation type dominated by broadleaf herbaceous flora (i.e., forbs), perennial bunchgrasses, or a combination of both. Bluebunch Wheatgrass (Pseudoroegneria spicata) is often the prevailing cover component along with Idaho Fescue (Festuca idahoensis), Sandberg Bluegrass (Poa secunda), Rough Fescue (F. campestris), or needlegrass (Achnatherum spp.).
- \_\_\_ Juniper Savannah: All juniper woodlands.

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

Wetland name or number		_	E
Wetiand name or number	and the same of th		

Wetlands B,C,D+E

RATING	SHIMMARY	– Factorn	Washingtor

Name of wetland (or ID #): _	wested	B	Schudt	Date of s	ite visit: 10	-7-2
Rated by 5.	т_т	rained l	y Ecology? Ye	s_No	Date of train	ing
HGM Class Used for Rating_	Dopnond	_ (	Init has multip	le HGM cla	asses?Y	N
NOTE: Form is n Source of bas	ot complete wit e aerial photo/n		e figures requ	ested (figu	ıres can be cor	nbined).

# OVERALL WETLAND CATEGORY 10

#### 1. Category of wetland based on FUNCTIONS

 _Category i - Total score = 22 - 27
 _Category II - Total score = 19 - 21
 _Category III - Total score = 16 - 18
Category IV - Total score = 9 - 15

FUNCTION		iprov ler Q	ing uality	H	ydrologic		Habit	at
		Circ	le the	a	ppropriate	rati	ngs	
Site Potential	Н	M	7	Н	M (L	3 н	М	(L)
Landscape Potential	Н (	M)	L	Н	M) L	Н	М	Q
Value (	H')	M	L	Н	M (B	Н	M	0
Score Based on Ratings		6			4	-	3	

Score for each function based on three ratings (order of ratings is not important) 9 = H,H,H 8 = H,H,M 7 = H,H,L 7 = H,M,M6 = H,M,L 6 = M,M,M5 = H,L,L 5 = M,M,L 4 = M,L,L 3 = L,L,L

1

#### 2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY Circle the appropriate category
Vernal Pools	II III
Alakali	I
Wetland with high conservation value	1
Bog	1
Old Growth or Mature Forest – slow growing	I
Aspen Forest	I
Old Growth or Mature Forest – fast growing	II
Floodplain forest	11
None of the above	

#### Maps and figures required to answer questions correctly (Eastern Washington)

#### Depressional Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2, H1.3	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D1.4	
Boundary of 150 ft buffer (can be added to another figure)	D 2.2, D 5.2	
Polygon of area 1km from wetland edge - Including polygons for accessible habitat and undisturbed habitat	H 2.1, H2.2	
Screen capture of map of 303d listed waters in basin (from Ecology web site)	D 3.1, D 3.2	
Screen capture of list of TMDL's for WRIA in which unit is found (from web)	D 3.3	
Area of open water (can be added to map of hydroperiods)	H1.3.1	

#### Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	H 1.1, H 1.4	
Hydroperiods	H 1.2, H1.3	
Ponded depressions	R 1.1	
Boundary of 150 ft buffer (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	
Polygon of area 1km from wetland edge -Including polygons for accessible habitat and undisturbed habitat	H 2.1, H2.2	
Screen capture of map of 303d listed waters in basin (from Ecology web site)	R 3.1	
Screen capture of list of TMDL's for WRIA in which unit is found (from web)	R 3.2, R 3.3	

#### Lake-fringe Wetlands

Map of:	To answer questions:	Figure#
Cowardin plant classes and classes of emergents	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of 150 ft buffer (can be added to another figure)	L 2.2	
Polygon of area 1km from wetland edge (Including polygons for accessible habitat and undisturbed habitat)	H 2.1, H2.2	
Screen capture of map of 303d listed waters in basin (from Ecology web site)	L 3.1	
Screen capture of list of TMDL's for WRIA in which unit is found (from web)	L 3.3	

#### Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	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	
Polygon of area 1km from wetland edge (Including polygons for accessible habitat and undisturbed habitat)	H 2.1, H2.2	
Screen capture of map of 303d listed waters in basin (from Ecology web site)	S 3.1, S 3.2	
Screen capture of list of TMDL's for WRIA in which unit is found (from web)	S 3.3	

			_		200
Wetland	name	or	numb	er .	معمنعتك

# **HGM Classification of Wetland Units in Eastern Washington**

For questions 1-4 the criteria described must apply to the entire unit being rated for it to be classified correctly.

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 1-4 apply, and go to Question 5.

- 1. Does the entire wetland unit meet both of the following criteria?
  - \_\_\_The vegetated part of the wetland is on the water side of the Ordinary High Water Mark of a body of permanent open water (without any plants on the surface) that is at least 20 acres (8 ha) in size

\_At least 30% of the open water area is deeper than 10 ft (3 m)

NO - go to 2 YES - The wetland class is Lake-fringe (Lacustrine Fringe)

- 2. 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. \_\_\_Does the water leaves the wetland without being impounded?

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 3ft diameter and less than 1 foot deep).

NO - go to 3 YES - The wetland class is Slope

- 3. 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 ten years.
  - NOTE: The riverine unit can contain depressions that are filled with water when the river is not flooding.

NO - go to 4 YES - The wetland class is Riverine

4. 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 5 YES - The wetland class is Depressional

5. 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. 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

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

HGM Classes within the wetland unit	HGM Class to
being rated  Slope + Riverine	Use in Rating Riverine
Slope + Depressional	Depressional
Slope + Lake-fringe	Lake-fringe
Depressional + Riverine (the riverine portion is within the boundary of depression)	Depressional
Depressional + Lake-fringe	Depressional
Riverine + Lake-fringe	Riverine

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

Depressional for the rating.

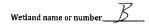
Wetland Rating System for Eastern WA: 2014 Update Rating Form

				•	
etland	name	or	number		

DEPRESSIONAL WETLANDS	(only 1 score
Water Quality Functions - Indicators that the site functions to improve water quality.	bec pox)
D 1.0 Does the wetland unit have the potential to improve water quality?	
D 1.1 Characteristics of surface water flows out of the wetland unit:	
Wetland has no surface water outlet - points ≈ 5	
Wetland has an intermittently flowing outlet points = 3	
Wetland has a highly constricted permanently flowing outlet points = 3	-
Wetland has a permanently flowing surface outlet points = 1	
D 1.2 The soil 2 inches below the surface (or duff layer) is clay or organic (use NBCS definitions of soils)	0
YES points = 3 NO (points = 0)	
D 1.3 Characteristics of persistent vegetation (emergent, shrub, and/or forest Cowardin class)	
Wetland has persistent, ungrazed, vegetation for > 2/3 of area points = 5	
Wetland has persistent, ungrazed, vegetation from 1/3 to 2/3 of area points = 3	
Wetland has persistent, ungrazed vegetation from 1/10 to < 1/3 of area points = 1	5
Wetland has persistent, ungrazed vegetation <1/10 of area points = 0	
D 1.4 Characteristics of seasonal ponding or inundation.)	
This is the area of ponding that fluctuates every year. Do not count the area that is permanently ponded.	
Area seasonally ponded is > ½ total area of wetland	
Area seasonally ponded is % - ½ total area of wetland points = 1	١,
Area seasonally ponded is < 1/2 total area of wetland points = 0	1
	<u> </u>
Rating of Site Potential If score is: $12-16 = H$ $6-11 = M$ $(0-5=L^2)$ Record the rating on the first page	
D 2.0 Does the landscape have the potential to support the water quality function at the site?	
D2.1 Does the Wetland unit receive stormwater discharges?  Yes = 1 (No = 0)	<u> </u>
D 2.2 Is > 10% of the buffer within 150 ft of wetland unit in land uses that generate pollutants   Yes = 1 No = 0	1
D2.3 Are there are septic systems within 250 ft of the wetland unit?  Yes = No = 0	<u>ت</u>
D2.4 Are there are other sources of pollutants coming into the wetland that are not listed in questions	
D2.1 – D2.3? Source Yes = 1 NO = 0	ت
Total for D 2 Add the points in the boxes above	,
Rating of Landscape Potential If score is: 3 or 4 = H 1 or 2 = M 0 = L  Record the rating on the first page	L
D 3.0 Is the water quality improvement provided by the site valuable to society?	
D3.1 Does the unit discharge directly (within 1 mile) to a stream, river, or lake that is on the 303dlist?	<u> </u>
Yes = 1 No = 0	
D 3.2 is the unit in a basin or sub-basin where water quality is an issue in some aquatic resource (303d list, eutrophic lakes, problems with nuisance and toxic algae)?	1
consolute raves) bromerus with indisques and route alkasis.	
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 drainage or basin in which unit is found)	~
Yes = 2 No = 0	
Total for D 3 Add the points in the boxes above	2
Rating of Value If score is: 2-4 = H 1 = M 0 = L	
Record the rating on the first page	

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lydrologic Functions - Indicators that the site functions to reduce flooding and stream erosion.	Points (only 1 sca per box)
4. 0 Does the wetland unit have the potential to reduce flooding and erosion?	
4.1 Characteristics of surface water flows out of the wetland unit:	
Wetland has no surface water outlet points = 8	
Wetland has an intermittently flowing outlet points = 4	
Wetland has a highly constricted permanently flowing outlet points = 4	1.
Wetland has a permanently flowing surface outlet points = 0 (If outlet is a ditch and not permanently flowing treat unit as "intermittently flowing")	9
4.2 Depth of storage during wet periods Estimate the height of ponding above the bottom of the outlet. For	
units with no outlet measure from the surface of permanent water or deepest part (if dry).	
Seasonal ponding: => 3 ft above the lowest point in unit or the surface of permanent ponding points = 8	
Seasonal ponding: 2 ft -< 3 ft above the lowest point in unit or the surface of permanent ponding points = 6	
The wetland is a "headwater" wetland" points = 4	
Seasonal ponding: 1 ft - < 2 ft points = 4	
Seasonal ponding: 6 in -< 1 ft points = 2	تت
Seasonal ponding: <6 in orr unit has only saturated soils points = 0	
otal for D 4 Add the points in the boxes above	*
Rating of Site Potential If score is: 12-16 = H 6 - 11 = M  Record the rating on the first page	
5.0 Does the landscape have the potential to support hydrologic functions at the site?	
15.1 Does the unit receive any stormwater discharges?  Yes = 1 No = 0	ر د ا
15. Is >10% of the land use within 150 ft of the wetland in a land uses that generates runoff? Yes =1 No = 0	
0.5.3 Is more than 25% of the contributing basin of the wetland unit covered with intensive human land uses?  No = 0	1
Total for D 5 Add the points in the boxes above	-
tating of Landscape Potential If score is: 3 = H 1,2 = M 0 = L  Record the rating on the first page	
6.0 Are the hydrologic functions provided by the site valuable to society?	
Observation 6.0 Are the hydrologic functions provided by the site valuable to society?  Observations of the site of the site of the site valuable is society?	
0.6.1 is the unit is in a landscape that has flooding problems?  Choose the description that best matches conditions around the wetland unit being rated. Do not add points.	
0.6.1 is the unit is in a landscape that has flooding problems?  Choose the description that best matches conditions around the wetland unit being rated. Do not add points.  Choose the highest score if more than one condition is met.	
0.6.1 is the unit is in a landscape that has flooding problems?  Choose the description that best matches conditions around the wetland unit being rated. Do not add points.  Choose the highest score if more than one condition is met.  U The wetland captures surface water that would otherwise flow downgradient into areas where flooding	
O.6.1 is the unit is in a landscape that has flooding problems?  Choose the description that best matches conditions around the wetland unit being rated. Do not add points.  Choose the highest score if more than one condition is met.  U The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g. salmon redds), AND	
Oc.1 is the unit is in a landscape that has flooding problems?  Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met.  Light The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g. salmon redds), AND  O Damage occurs in sub-basin that is immediately downgradient of unit points=2	
Oc. 1 is the unit is in a landscape that has flooding problems? Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met.  U The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g. salmon redds), AND  O Damage occurs in sub-basin that is immediately downgradient of unit points=2 O Damage occurs in a sub-basin further down-gradient  I The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood.	
10.6.1 is the unit is in a landscape that has flooding problems?  10.6.1 is the unit is in a landscape that has flooding problems?  10.6.1 is the unit is in a landscape that has flooding problems?  10.6.1 is the unit is in a landscape that has flooding around the wetland unit being rated. Do not add points. The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g. salmon redds), AND  10.0 Damage occurs in sub-basin that is immediately downgradient of unit points=2  11.0 Damage occurs in a sub-basin further down-gradient points = 1  11.1 The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood.	
Oc. 1 is the unit is in a landscape that has flooding problems? Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met.  U The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g. salmon redds), AND  O Damage occurs in sub-basin that is immediately downgradient of unit points=2 O Damage occurs in a sub-basin further down-gradient  I The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood.	a a
10.6.1 is the unit is in a landscape that has flooding problems?  Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met.  □ The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g. salmon redds), AND  □ Damage occurs in sub-basin that is immediately downgradient of unit points=2  □ Damage occurs in a sub-basin further down-gradient points = 1  □ The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood.  Explain why points = 0  □ There are no problems with flooding downstream of the unit.	<b>3</b>
10.6.1 is the unit is in a landscape that has flooding problems?  10.6.1 is the unit is in a landscape that has flooding problems?  10.6.1 is the unit is in a landscape that has flooding problems?  10.6.1 is the unit is in a landscape that has flooding around the wetland unit being rated. Do not add points. The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g. salmon redds), AND  10.0 io Damage occurs in sub-basin that is immediately downgradient of unit points=2  11.1 o Damage occurs in a sub-basin further down-gradient points = 1  11.1 The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood.  12.1 Explain why points = 0	<b>3</b>
16.1 Is the unit is in a landscape that has flooding problems?  hoose the description that best matches conditions around the wetland unit being rated. Do not add points.  hoose the highest scare if more than one condition is met.  ☐ The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g. salmon redds), AND  ○ Damage occurs in sub-basin that is immediately downgradient of unit points=2  ○ Damage occurs in a sub-basin further down-gradient points = 1  ☐ The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood.  Explain why points = 0  ☐ There are no problems with flooding downstream of the unit.  ☐ Doints = 0   J	



These questions apply to wetlands of all HGM classes.	(only 1 score		
HABITAT FUNCTIONS - Indicators that site functions to provide important habitat	per box)		
H 1. Does the wetland unit have the <u>potential</u> to provide habitat for many species?			
H 1.1 Categories of vegetation structure			
Check the Cowardin vegetation classes present and categories of emergent plants. Size threshold for each			
category is >= ¼ acre or >= 10% of the unit if unit is < 2.5 acres			
Emergent plants 0-12 in. $(0-30 \text{ cm})$ high are the highest layer and have > 30% cover			
Emergent plants >12 - 40 in.(>30 - 100cm) high are the highest layer with >30% cover			
Emergent plants > 40 in.(> 100cm) high are the highest layer with >30% cover			
Scrub/shrub (areas where shrubs have >30% cover) 4-6 checks points = 3			
Forested (areas where trees have >30% cover) 3 checks points = 2			
2 checks points = 1			
1 check points = 0			
H 1.2. is one of the vegetation types "aquatic bed?" YES = 1 point NO = 0 points			
H 1.3. <u>Surface Water</u>	<b></b>		
H 1.3.1 Does the unit have areas of "open" water (without herbaceous or shrub plants) over at least $lpha$	İ :		
acre OR 10% of its area during the March to early June OR in August to the end of September?			
Note: answer YES for Lake-fringe wetlands	1		
YES = 3 points & go to H 1.4 NO ≈ go to H 1.3.2			
H 1.3.2 Does the unit have an intermittent or permanent, and unvegetate, d stream within its boundaries, or along one side, over at least ¼ acre or 10% of its area, (answer yes only if H 1.3.1 is NO)?			
YES = 3 points NO = 0 points			
H 1.4. <u>Richness of Plant Species</u> Count the number of plant species in the wetland that cover at least 10 ft <sup>2</sup> . (different patches of the same			
species can be combined to meet the size threshold)  You do not have to name the species.			
Do not include Eurasean Milfail, reed canarygrass, purple loasestrife, Russian Olive, Phragmites,			
Canadian Thistle, Yellow-flag Iris, and Salt Cedar (Tamarisk)			
# of species Scoring: > 9 species = 2 points 4-9 species = 1 point < 4 species = 0 points			
H 1.5. Interspersion of habitats	Figure		
Decide from the diagrams below whether interspersion between types of plant structures (described in H 1.1),			
and unvegetated areas (open water or mudflats) is high, medium, low, or none.			
Use map of Cowardin plant classes prepared for questions H1.1 and map of open water from H1.3	1		
None = 0 points Low = 1 point Moderate = 2 points			
High = 3 points High = 3 points riparian braided channels with 2 classes = High			
NOTE: If you have four or more classes or three plants classes and open water the rating is always "high".			
, , , , , , , , , , , , , , , , , , , ,			

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B

Wetland name or number				
	s that are presen		t. The number of checks is the score. in. diameter) within the area of surface	
Cattails or bulrushes are p Standing snags (diameter Emergent or shrub vegeta	at the bottom > 4 ition in areas that	l inches) in the wet are permanently in	and unit or within 30 m (100ft) of the edge. nundated/ponded. her or muskrat for denning (>45 degree	
slope) OR signs of recen	t beaver activity is than 20% in eac		ation (canopy, sub-canopy, shrubs, Maximum score possible = 6	
H 1. TOTAL Score -		P	add the check marks in the box above	
Rating of Site Potential	If score is:	12 – 16 = H	6 - 11 = M 0 - 5 = L Record the rating on the first page	

	Record the rating on the first page
H 2.0. Does the landscape have the potential to supp	nabitat at the site?
H 2.1 Accessible habitat (only area of habitat abutting wetl	
% undisturbed habitat 🔷 + [(% moderate and low in	ty land uses)/2] =%
If total accessible habitat is:	
> 1/3 (33.3%) of 1km circle (~100 hectar	points = 3
20 - 33% of 1km circle	points = 2
10- 19% of 1km circle	points = 1
<10% of 1km circle	points = 0
H2.2 Undisturbed habitat in 1km circle around unit. If:	
Undisturbed habitat > 50% of circle	points = 3
Undisturbed habitat 10 - 50% and in 1-3 p	es points = 2
Undisturbed habitat 10 - 50% and > 3 pate	paints = 1
Undisturbed habitat < 10% of circle	points = 0
H2.3 Land use intensity in 1 km circle. If:	
> 50% of circle is high intensity land use	paints = (-2)
Does not meet criterion above	points = 0
The wetland unit is in an area where annual rainfa	ess than 12 inches, and its water regime is not
influenced by irrigation practices, dams, or water co	structures. (Generally, this means outside
boundaries of reclamation areas, irrigation district, o	
Total for H 2 Add the po	in the boxes above - 2

Total for H 2 Ad	d the points in th	e boxes above		- Z
Rating of Landscape Potential If score is:	4-6=H	1-3 = M Record the	<1=L e rating on the first page	,
H 3.0 Is the Habitat provided by the site valua	able to society?			
H3.1Does the site provides habitat for species value	ued in laws, regula	tions or policies?	(chaose the highest score)	
Site meets ANY of the following criteria:			points = 2	İ
_it provides habitat for Threatened or Enda _it is a "priority area" for an individual WDF _it is a Wetland With a High Conservation N _it has 3 or more priority habitats within 10 _it has been categorized as an important he Shoreline Master Plan, or in a watershee	FW species /alue as determine XOm (see Appendix abitat site in a loca	d by the Departm B)	nent of Natural Resources	
Site has 1 or 2 priority habitats within 100m (se	e Appendix B)		points = 1	
Site does not meet any of the criteria above			points = 0	
Rating of Value If score is:	2 = H	1 = M	(0 =T)	

Wetland Rating System for Eastern WA: 2014 Update Rating Form

1 = M 0 = T Record the rating on the first page



# **CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS**

Please determine if the wetland unit meets the attributes described below and circle the appropriate Category.

NOTE: A wetland may meet the criteria for more than one set of special characteristics. Record all those that apply. NOTE: All units should also be characterized based on their functions.

Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the Category when the	
appropriate criteria are met.	
SC 1.0 Vernal pools	
is the wetland unit less than 4000 ft <sup>2</sup> , and does it meet at least two of the following	
criteria?	
— Its only source of water is rainfall or snowmelt from a small contributing	
basin and has no groundwater input	
<ul> <li>Wetland plants are typically present only in the spring; the summer</li> </ul>	
vegetation is typically upland annuals. NOTE: If you find perennial,	
"obligate", wetland plants the wetland is probably NOT a vernal pool	
<ul> <li>The soil in the wetland are shallow (&lt;1ft deep (30 cm)) and is underlain by</li> </ul>	
an impermeable layer such as basalt or clay.	
<ul> <li>Surface water is present for less than 120 days during the "wet" season.</li> </ul>	
YES = Go to SC 1.1 NO - not a vernal pool	
SC 1.1 Is the vernal pool relatively undisturbed in February and March?	
YES = Go to SC 1.2 NO - not a vernal pool with special characteristics	
SC 1.2 is the vernal pool in an area where there are at least 3 separate aquatic	
resources within 0.5 miles (other wetlands, rivers, lakes etc.)?	Cat. II
YES = Category II NO = Category III	Cat. III
SC 2.0 Alkali wetlands	
Does the wetland unit meets one of the following two criteria?	
— The wetland has a conductivity > 3.0 mS/cm.	
— The wetland has a conductivity between 2.0 - 3.0 mS, and more than 50%	
of the plant cover in the wetland can be classified as "alkali" species (see	
Table 4 for list of plants found in alkali systems).	
— If the wetland is dry at the time of your field visit, the central part of the	
area is covered with a layer of salt.	
OR does the wetland unit meets two of the following three sub-criteria?	
Salt encrustations around more than 80% of the edge of the wetland	
— More than ¾ of the plant cover consists of species listed on Table 4	
A pH above 9.0. All alkali wetlands have a high pH, but please note that	
some freshwater wetlands may also have a high pH. Thus, pH alone is not	
a good indicator of alkali wetlands.  YES = Category   NO - not an alkali wetland	Cat. I
YES = Category   NO - not an alkali wetland	

Wetland Rating System for Eastern WA: 2014 Update Rating Form

etland name or number\_\_\_\_\_\_\_

SC 2.1 Has the Department of Natural Resources updated their web site to include the list of Wetlands with High Conservation-Value? YES - Go to SC 2.2 NO - Go to SC 2.3 SC 2.2 Is the wetland unit you are rating listed on the DNR database as having a High Conservation Value? YES = Category I NO = not a WHCV
Wetlands with High Conservation <del>Value?</del> YES - Go to SC 2.2  NO - Go to SC 2.3  SC 2.2 Is the wetland unit you are rating listed on the DNR database as having a High
YES - Go to SC 2.2 NO – Go to SC 2.3 Cat. I SC 2.2 Is the wetland unit you are rating listed on the DNR database as having a High
SC 2.2 Is the wetland unit you are rating listed on the DNR database as having a High
SC 2.3 Is the wetland unit being rated in a Section/Township/Range that contains a Natural
Heritage wetland?
http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf
YES — contact WNHP/DNR and go to SC 2.4 NO = not a WHCV
SC 2.4 Has DNR identified the wetland within the S/T/R as a wetland with High Conservation
value and is listed on their web site?
YES = Category I NOnot an WHCV
SC 4.0 Bogs and Calcareous Fens  Does the wetland unit' (or any part of the wetland unit) meet both the criteria for soils and
vegetation in bogs or calcareous fens. Use the key below to identify if the wetland is a bog or
calcareous fen. If you answer yes you will still need to rate the wetland based on its functions.
SC 4.1. Does an area within the wetland unit have organic soil horizons (i.e. layers of organic
soil), either peats or mucks, that compose 16 inches or more of the first 32 inches of the
soil profile? (See Appendix C for a field key to identify organic soils)?
Yes - go to SC 4.3 No - go to SC 4.2
SC 4.2. Does an area within the unit have organic soils, either peats or mucks that are less
than 16 inches deep over bedrock or an impermeable hardpan such as clay or volcanic
ash, or that are floating on top of a lake or pond??
Yes - go to SC 4.3 No - Is not a bog for rating
SC 4.3. Does an area within the unit have more than 70% cover of mosses at ground level
AND at least 30% of the total plant cover consists of species in Table 5?
Yes - Category I bog No - go to SC 4.4
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" deep. If the pH is less than 5.0 and the plant species in Table 5 are present, the
wetland is a bog.
SC 4.4 Is an area with peats or mucks forested (> 30% cover) with subalpine fir, western red
cedar, western hemlock, lodgepole pine, quaking aspen, Englemann's spruce, or western
white pine, AND any of the species (or combination of species) listed in Table 5 provide
more than 30% of the cover under the canopy
Yes - Category I bog NO - go to question SC 4.5 Cat. I
5. Do the species listed in Table 6 comprise at least 20% of the total plant cover within an area of
peats and mucks?
Yes — Is a Calcareous Fen for purpose of rating No - go to Question 6
6. Do the species listed in Table 6 comprise at least 10% of the total plant cover an area of peats
and mucks, AND one of the two following conditions is met:
Marl deposits (calcium carbonate (CaCO3) precipitate) occur on the soil surface or plant
stems
<ul> <li>The pH of free water ≥ 6.8 AND electrical conductivity ≥ 200 uS/cm at multiple locations</li> </ul>
within the wetland
Yes – Is a Category I calcareous fen No - Is not a calcareous fen Cat. I



SC 5.0 Forested Wetlands	
Does the wetland unit have an area of forest rooted within its boundary that meets at least	
one of the following three criteria? (Continue only if you have identified a forested class is	
present in question H 1.1)	
The wetland is within the "100 year" floodplain of a river or stream	
aspen (Populus tremuloides) represents at least 20% of the total cover of woody	
species	
- There is at least 1/4 acre of trees (even in wetlands smaller than 2.5 acres) that are	
"mature" or "old-growth" according to the definitions for these priority habitats	
developed by WDFW (see definitions in question H3.1)	
YES = go to SC 5.1 (NO -not a forested wetland with special characteristics)	
SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by	
cover) are slow growing native trees (see Table 7)	Cat. I
YES = Category I NO = go to SC 5.2	
SC 5.2 Does the unit have areas where aspen ( <i>Populus tremuloides</i> ) represents at least 20% of the total cover of woody species.	Cat. I
YES = Category I NO = go to SC 5.3	
SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species. (see Table 7)	Cat. II
YES = Category II NO = go to SC 5.5	
SC 5.4 Is the forested component of the wetland within the "100 year floodplain" of a river or stream?	
YES = Category II	Cat. II
Category of wetland based on Special Characteristics	MA
Choose the "highest" rating if wetland falls into several categories.  If you answered NO for all types enter "Not Applicable" on p.1	

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

### Appendix B: WDFW Priority Habitats in Eastern Washington

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)

Count how many of the following priority habitats are within 330 ft (100m) 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 0.4 ha (1 acre).
- \_\_\_Blodiversity Areas and Corridors: Areas of habitat that are relatively important to various species of native fish and wildlife (full descriptions in WDFW PHS report p. 152).
- Old-growth/Mature forests: Old-growth east of Cascade crest: Stands are highly variable in tree species composition and structural characteristics due to the influence of fire, climate, and soils. In general, stands will be >150 years of age, with 25 trees/ha (10 trees/acre) that are > 53 cm (21 in) dbh, and 2.5-7.5 snags/ha (1 3 snags/acre) that are > 30-35 cm (12-14 in) diameter. Downed logs may vary from abundant to absent. Canopies may be single or multi-layered. Evidence of human-caused alterations to the stand will be absent or so slight as to not affect the ecosystem's essential structures and functions. Mature forests: Stands with average diameters exceeding 53 cm (21 in) 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 and 80 160 years old east of the Cascade crest.
- Oregon white Oak: Woodlands 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.
- \_\_\_\_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.
- \_\_\_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 7.6 m (25 ft) high and occurring below 5000 ft.
- \_\_\_\_Talus: Homogenous areas of rock rubble ranging in average size 0.15 2.0 m (0.5 6.5 ft), 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 > 51 cm (20 in) in western Washington and are > 2 m (6.5 ft) in height. Priority logs are > 30 cm (12 in) in diameter at the largest end, and > 6 m (20 ft) long.
- \_\_\_Shrub-steppe: A nonforested vegetation type consisting of one or more layers of perennial bunchgrasses and a conspicuous but discontinuous layer of shrubs (see Eastside Steppe for sites with little or no shrub cover).
- Eastside Steppe: Nonforested vegetation type dominated by broadleaf herbaceous flora (i.e., forbs), perennial bunchgrasses, or a combination of both. Bluebunch Wheatgrass (Pseudoroegneria spicata) is often the prevailing cover component along with Idaho Fescue (Festuca idahoensis), Sandberg Bluegrass (Poa secunda), Rough Fescue (F. campestris), or needlegrass (Achnatherum spp.).
- \_\_\_ Juniper Savannah: All juniper woodlands.

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

WETLAND DETERMINATION DATA FORM - Arid West Region City/County: Kithites Sampling Date: 10-4-21 Applicant/Owner: Ed Sewill 532 T18 R17 investigator(s):\_\_ Section, Township, Range: \_\_\_\_ Landform (hillslope, terrace, etc.): \_\_ Local relief (concave, convex, none): Subregion (LRR): \_\_\_\_\_ Long: \_\_ Soil Map Unit Name: \_\_\_ NWI classification: \_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_ 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? Hydric Soil Present? Wetland Hydrology Present? 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 = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Ptot size: Prevalence index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 # \_\_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_ FACU species \_\_\_\_ x 4 = \_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_ FISHIN and Column Totals: \_\_\_\_\_ (A) \_\_\_\_ Prevalence Index = B/A = Hydrophytic Vegetation indicators: Cominance Test is >50% Prevalence Index is ≤3.01 \_\_\_ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) \_ = Total Cover Woody Vine Stratum (Plot size: 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. \_\_\_\_\_ = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum \_\_\_\_\_ % Cover of Blotic Crust \_ Yes \_\_\_\_ No \_\_\_ Remarks:

SOIL		Sampling Point:
Profile Description: (Describe to the dept	h needed to document the indicator or o	onfirm the absence of indicators.)
Depth Matrix	Redox Features	Touties Demostra
(inches) Color (moist) %	Color (maist) % Type L	.oc² Texture Remarks
11. 1044 3/2.5	cml	Cabby la
70 7007		
		2
<sup>1</sup> Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all I		and Grains. <sup>2</sup> Location: PL=Pore Lining, M=Mstrix. Indicators for Problematic Hydric Solis <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Metrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		- I
Depth (inches):		Hydric Soil Present? Yes NoNo
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary indicators (minimum of one required		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
High Water Table (A2) Saturation (A3)	Biotic Crust (B12) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)		ng Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled S	oils (C6) Saturation Visible on Aerial Imagery (C9
Inundation Visible on Aerial Imagery (B7	') Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes		
Water Table Present? Yes		
Saturation Present? Yes I (Includes capillary fringe)	NoDepth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	NO 10	lice ty

		11	
ject/Site: Schult		City/County:	Sempling Date: 10-
licant/Owner:	,		State: UVA Sampling Point:
estigetar(s): EU SewW		Section, Township, Ra	inge: <u>\$32,7/8,R/9</u>
dform (hilistope, terrace, etc.):		Local relief (concave.	convex, none): Slope (%):
region (LRR):	Lat:		Long: Datum:
Map Unit Name:			NWI classification:
climatic / hydrologic conditions on the site typical for	this time of ye	ar? Yes i No_	(If no, explain in Remarks.)
Vegetation, Soil or Hydrology			"Normal Circumstances" present? Yes No
Vegetation, Soil, or Hydrology			seded, explain any answers in Remarks.)
• • • • • • • • • • • • • • • • • • • •			• • •
IMMART UP FINDINGS - Attach site ma	b snowing	sambing bour	ocations, transects, important features, et
ydrophytic Vegetation Present? Yes	No	45 the Samples	1 4 mm
ydric Soil Present? Yes		within a Wetla	1
	No		
emarks: - grazel, 120	. ted	pashe	
9,4 20, 7,77	70.1	1	
GETATION – Use scientific names of pla	ents.		
		Dominant Indicator	Dominance Test worksheet:
se Stratum (Plot size:)		Species? Status	Number of Dominant Species /
			That Are OBL, FACW, or FAC:(A)
			Total Number of Dominant
			Species Across Ali Strata: (B)
		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B
pling/Shrub Stratum (Plot size:)		10tal C0461	That Are OBL, FACW, or FAC: (A/B
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
	_		OBL species x1 =
	_		FACW species x2 =
			FACW species x 2 = FAC species x 3 =
		= Total Cover	FACW species
r'p Stratum (Piçt size:)			FACW species
rts Stratum (Plot size:			FACW species
rb Stratum (Plot siza:			FACW species
orb Stratum (Plot siza:) Fr Shan andry	]w	= Total Cover	FACW species   x 2 =
orb Stratum (Plot siza:) Fr Shan andry	]w	= Total Cover	FACW species
srp Stratum (Plot size:	]w	= Total Cover	FACW species
srb Stretum (Plot size:	]w	= Total Cover	FACW species
srp Stratum (Plot size:	]in	= Total Cover	FACW species
se'b Stratum (Plot size:) F15742 and	]in	= Total Cover	FACW species
rip Stratum (Plot size:)  F1 5 7 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	]in	= Total Cover	FACW species x2 =  FAC species x3 =  FACU species x4 =  UPL species x5 =  Column Totals: (A) (B)  Prevalence index = B/A =  Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence index is s3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and westand Mydrology must
srb Stratum (Plot size:)  F1 5	]in	= Total Cover	FACW species
erb Stratum (Plot size:	/w	= Total Cover	FACW species x2 = FAC species x3 = FACU species x4 = UPL species x5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Cominance Test is >50% Prevalence Index is \$3.0' Morphological Adaptationa' (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain)  'Indicators of hydric soil and wotland Hydrology must be present, unless disturbed or problematic. Hydrophytic
srb Stratum (Plot size:)  F1 5		= Total Cover	FACW species x2 =  FAC species x3 =  FACU species x4 =  UPL species x5 =  Column Totals: (A) (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  Commismore Test is >50%  Prevalence Index is ≤3.0¹  Morphological Adaptationa¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and westand /fydrology must be present, unless disturbed or problematic.

SOIL.		Sampling Point:
Profile Description: (Describe to the dep	th needed to document the indicator or co	nfirm the absence of indicators.)
Denth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type' La	c Texture Remarks
3 duF		
1/2 /08/1 7/7		Cephi in
<u> </u>		
water the same of		
	Reduced Metrix, CS=Covered or Costed Sa	
Hydric Soli indicators: (Applicable to ali		indicators for Problematic Hydric Solts*:
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Metrix (F2)	Red Parent Material (TF2)
Strattfied Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	No. 1. Company of the company of the
Thick Dark Surface (A12)	Redox Depressions (F8)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Metrix (\$4)		ursess discurbed or problemedo.
Restrictive Leyer (if present):		1
Тура:	<del></del>	
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
TYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require	d chart at that anniu)	Secondary Indicators (2 or more resulted)
		Water Marks (B1) (Riverine)
Surface Water (A1)	Salt Crust (B11)	
High Water Table (A2)	Blotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Seturation (A3)	Aquatic Invertebrates (B13)	Orift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	g Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled So	is (C6) Saturation Visible on Aerial Imagery (C9)
inundation Visible on Aerial Imagery (B		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
	No. Down Oneh \	
Surface Water Present? Yes		
Water Table Present? Yes	NoDebth (inches):	
	No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)		and if a milable
Describe Recorded Data (stream gauge, mi	onitoring wall, serial photos, previous inspect	uns), ii evenione:
Remarks:		

US Army Corps of Engineers

Arid West - Version 2.0

	ID DETERMINATION		477	10.4
Project/Site: Schult	CH	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Sampling Date:	
pplicant/Owner:	<del></del>		State: UNA Sampling Point:	Dis
restigator(s): SEM	se	ection, Township, Range	: <u>\$327/8/</u>	2/7
ndform (hillslope, terrace, etc.):	u	ocal relief (concave, con	vex, none): Sic	ope (%):
oregion (LRR):	Lat:	u	ong: Date	ım:
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, Soil, or Hydrolog	gy significantly dir	sturbed? Are "No	rmai Circumstances" present? Yes 🚅	<u></u> No
Vegetation, Soil, or Hydrolo	gy naturally probl-	ematic? (if needs	ed, explain any answers in Remarks.)	
IMMARY OF FINDINGS - Attach	site mao showing s	ampling point loca	ations, transects, important fo	eatures, etc
		is the Sampled Ar within a Wetland?		-
GETATION - Use scientific name		Dominant Indicator   D	ominance Test worksheet:	
ee Stratum (Plot size:)	% Cover	Species? Status N	tumber of Dominant Species hat Are OBL, FACW, or FAC:	/(A)
			otal Number of Dominant / pecies Across Alf Strate:	/ (B)
pjing/Shrub Stretum (Plot size:	n		ercent of Dominant Species / 6 hat Are OBL, FACW, or FAC:	(A/B)
			revalence index worksheet:	
				ity by:
			BL species x1 = ACW species x2 =	
		{	AC species x3 =	
			ACU species x4 =	
arb Stratum (Plot size:)			PL species ×5=	
Festin amen	95	. // [ ]	otumn Totals:(A)	
Runex				
			Prevalence Index = B/A =	
			ydrophytic Vegetation Indicators:	
			Dominance Test is >50% Prevalence Index is ≤3.01	
			Prevelence index is \$3.0 Morphological Adaptations* (Provide	e sunnortino
			data in Ramerks or on a separate	e sheet)
		: Total Cover	Problematic Hydrophytic Vegetation	' (Explain)
oody Vine Stratum (Plot size:	)	1	ndicators of hydric soil and welland hyd	teninens muset
			e present, unless disturbed or problems	
Bare Ground in Herb Stratum		V	lydrophytic legetation vasent? Yes No	
% Bare Ground in Herb Stratum		V		

SOIL.				Sampling Point:
Profile Des	cription: (Describe to the dept	h needed to document the indicator or con	firm the absence	e of indicators.)
Depth	Metrix	Redox Features		•
(inches)	Color (moist) %	Color (moist) % Type Loc	Texture	Remarks
4	10/h3/3			
<del></del>				
14	10413/2	a mar		
i				
-				
l				
Twee Car	Innoentation DeDepletion RMs	Reduced Matrix, CS=Covered or Costed Sark	Grains 2.c	ocation: PL=Pore Lining, M=Metrix.
Mudde Sell	indicators: (Applicable to all	.RRs, unless otherwise noted.)		s for Problematic Hydric Solls <sup>2</sup> :
		Sandy Redox (S5)		Muck (A9) (LRR C)
Histoso		Stripped Matrix (S6)		Muck (A10) (LIRR B)
	pipedon (A2)			
Black H		Loanny Mucky Mineral (F1)		ced Vertic (F18) Parant Material (TF2)
	en Suifide (A4)	Loamy Gleyed Metrix (F2) Dealsted Matrix (F3)		rarem Material (172) (Explain in Remarks)
	d Layers (A5) (LRR C)	Redox Dark Surface (F6)	Other	(Exhaus in Lamenta)
	luck (A9) (LRR D)	Depleted Dark Surface (F7)		
	od Below Dark Surface (A11)	Redax Depressions (F8)	) In all and a	s of hydrophytic vegetation and
	lark Surface (A12)	Vernal Pools (F3)		i hydrology must be present,
	Mucky Mineral (\$1)	Vernai Podis (PS)		disturbed or problematic.
	Gleyed Metrix (S4) Leyer (if present):			distribution of probabilities.
1	Coyar (ir present).		1	
Type:			1	
Depth (in	nches):		Hydric So	Il Present? Yes No
Remarks:				
1				
1				
<u> </u>				
HYDROLO	OGY			
Madand M.	ydrology indicators:			
		to a boundary and all the second second		
	icators iminimum of one required			mdary indicators (2 or more required)
Surface	Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)
High W	ater Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)
Saturat	ion (A3)	Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)
Water i	Varks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
	ent Daposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
	posits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
	Soil Cracks (B6)	Recent Iron Reduction in Tilled Soils		Saturation Visible on Aerial Imagery (C9)
	tion Visible on Aerial Imagery (B)		—	Shallow Aquitard (D3)
		Queer (Explain in Remarks)		FAC-Neutral Test (D5)
	Stained Leaves (B9)	User (Explain in Remarks)		PAC-1480081 1881 (DD)
Field Obser				
Surface Wa		toEepth (Inches):		
Water Table	Present? Yes1	No Depth (Inches):		
Saturation F	Present? Yes	No Depth (inches): W	Vetland Hydrolo	gy Present? Yes No
(Includes ca	pillary fringe)			
Describe Re	ecorded Data (stream gauge, mo	nitoring well, aerial photos, pravious inspection	ns), if available:	
Remarks:				······································
		no when	10	
		and the second	1	
1		100 000	-	
		-		

	E I ERUMINA I II	ON DATA FORM	
roject/Ske: Schridt		City/County:	1 1/1/25 Sempling Date: 10-4
pplicant/Owner:			State: UNA Sampling Point: DP#
westigetor(s): Ed Sench	$\mathcal{A}$	Section, Township, R.	ange: 5327/8 R/9
andform (hillstope, terrace, etc.):			convex, none):Slope (%):
			Long: Datum:
oil Map Unit Name:			NWI dessification:
e climatic / hydrologic conditions on the site typical f	for this time of ve		
re Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No
e Vegetation, Soil, or Hydrology	• •		eeded, explain any answers in Remarks.)
	31		•
UMMARY OF FINDINGS - Attach site in	nan snowing	sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes / Hydric Soil Present? Yes / Y	No No	Is the Sample within a Wetla	
EGETATION - Use scientific names of		Dominant Indicator	Dominatice Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant
			Species Across Ali Stretta: (B)
Sepling/Shrub Stretum (Plot size:)		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
			Pravalence Index worksheet:
*			Total % Cover of: Multiply by:
*			Total % Cover of: Multiply by:  OBL species x1 =
*			Total % Cover of:         Multiply by:           OBL species         x 1 =           FACW species         x 2 =
*			Total % Cover of:         Multiply by:           OBL species         x1 =           FACW species         x2 =           FAC species         x3 =
		⇒ Total Cover	Total % Cover of:         Multiply by:           OBL species         x1 =           FACW species         x2 =           FAC species         x3 =           FACU species         x 4 =
Herb Stratum (Plat size:)			Total % Cover of: Multiply by:  OBL species
lerb Stratum (Plot size:)			Total % Cover of:         Multiply by:           OBL species         x 1 =           FACW species         x 2 =           FAC species         x 3 =           FACU species         x 4 =           UPL species         x 5 =           Column Totels:         (A)         (B)
lerb Stratum (Plot size:)  FCSTUCES Concerts 34			Total % Cover of: Multiphy by:  OBL species
lerb Stratum (Plot size:)  F(STUCE)  Contact 34	50 30		Total % Cover of:
lerb Stratum (Plot size:)  LST-UCA  Common 34	50 30		Total % Cover of:
lerb Stratum (Plot size:)  LST-UCA  Common 34	50 30		Total % Cover of:
lerb Stratum (Plot size:)  LST-UCA  Common 34	50 30		Total % Cover of:
lerb Stratum (Plot size:)  FCST CE	50		Total % Cover of:
1	50	= Total Cover	Total % Cover of:
lerb Stratum (Plot size:)  F(ST-Ces)  F(ST-Ces)  Solution   Stratum (Plot size:)	50	= Total Cover	Total % Cover of: Multiply by:  OBL species
1	50	= Total Cover	Total % Cover of:

epth Metrix	Redox Features	Tarkers Manager
notes) Cotor (moist) 9	G Color (moist) % Type 1	CODDY ( Remarks
pe: C=Concentration, D=Depletion	, RM=Reduced Matrix, CS=Covered or Costed	Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
dric Soll Indicators: (Applicable I	to all LRRs, unless otherwise noted.)	indicators for Problematic Hydric Solis <sup>3</sup> :
Histosol (A1)	Sandy Redox (\$5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loarny Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3) Redox Dark Surface (F6)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A1)		
Thick Dark Surface (A12)	Redox Depressions (F8)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Poots (F9)	wetland hydrology must be present.
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
strictive Layer (if present):		
Тура:		
Type:		Hydric Soll Present? Yes No L
Depth (inches):		Hydric Soll Present? Yes No L
Depth (Inches):		Hydric Soll Present? Yes No L
Depth (Inches):	watered schools oil that profess	
Depth (inches):  DROLOGY  ettend Hydrology indicators:  many indicators (minimum of one re-		Secondary Indicators (2 or more resulted)
Depth (inches):  DROLOGY  ettend Hydrology indicators:  mary indicators (minimum of one re  Surfece Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more resulted) Water Marks (B1) (Riverine)
Depth (inches):  DROLOGY  ettend Hydrology indicators: mary indicators (minimum of one re _ Surface Water (A1) _ High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine)
Depth (inches):  DROLOGY  ettend Hydrology indicators:  mary indicators (minimum of one re  Surface Water (A1)  High Water Table (A2)  Seturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)
Depth (inches):  DROLOGY  ettend Hydrology indicators:  imary indicators (minimum of one rs.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marics (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Dratnage Patterns (B10)
Depth (Inches):  DROLOGY  ettend Hydrology Indicators: marv Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrtverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) rine) Oxidized Rhizospheres along Lh	Secondary Indicators (2 or more resulted)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Pattems (B10) ving Roots (C3) — Dry-Season Water Table (C2)
Depth (Inches):  DROLOGY  etisend Hydrology indicators:  mary indicators (minimum of one re Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Life Presence of Reduced Iron (C4)	Secondary Indicators (2 or more resulted)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) Drahrage Patterns (B1) or Drahrage Patterns (B1)  ving Roots (C3) — Dry-Season Water Table (C2) — Crayfish Burrows (C8)
Depth (Inches):  DROLOGY  ettend Hydrology indicators: mary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sadiment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Sait Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced fron (C4) Recent Iron Reduction in Tilled S	Secondary Indicators (2 or more resuired)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ving Roots (C3) — Dry-Season Water Table (C2) — Crayflah Burrows (C8) Soils (C6) — Saturation Visible on Aerial Imagery (
Depth (Inches):  DROLOGY  Interior of the control o	Salt Crust (B11)  Biotic Crust (B12)  Aquabic Investberates (B13)  Hydrogen Suffide Odor (C1)  rine)  Oxidized Rhizospheres along Li  Presence of Reduccion In Tilled S  rry (B7)  Thin Muck Surface (C7)	Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Pattems (B10)  ving Roots (C3) — Dry-Season Water Table (C2) — Crayfish Burrows (C8)  Soils (C6) — Saturation Visible on Aerial Imagery (Shallow Aquitand (D3)
Depth (Inches):  DROLOGY  ettend Hydrology Indicators: marv Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Seturetion (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9)	Sait Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced fron (C4) Recent Iron Reduction in Tilled S	Secondary Indicators (2 or more resuired)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ving Roots (C3) — Dry-Season Water Table (C2) — Crayflah Burrows (C8) Soils (C6) — Saturation Visible on Aerial Imagery (
Depth (Inches):  DROLOGY  etfland Hydrology Indicators: many Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Durface Soit Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) slid Observations:	Selt Crust (B11) Biotic Crust (B12) Aquestic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lit Presence of Reduced Iron (C4) Recent Iron Reduction in Titled S Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  ving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Castella Surviva (C8)  Saturation Visible on Aerial Imagery (Castella Surviva (C8)  Shallow Aquiterd (D3)
Depth (Inches):  DROLOGY  Interview of the content	Salt Crust (B11)  Biotic Crust (B12)  Aquatic invertabrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Life  Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled Stry (B7)  Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  ving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Castella Surviva (C8)  Saturation Visible on Aerial Imagery (Castella Surviva (C8)  Shallow Aquiterd (D3)
Depth (Inches):  DROLOGY  interior  interior  DROLOGY  interior  interior  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sadiment Deposites (B2) (Nonriverine)  Surface Soit Cracks (B6)  Inundation Visible on Aerial Image  Water-Stained Leaves (B9)  ald Observatione:  rface Water Present?  Yes  ater Table Present?	Sait Crust (B11)  Biotic Crust (B12)  Aquatic invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Lif  Presence of Reduced Iron (C4)  Recent fron Reduction in Tilled S  rry (B7)  Other (Explain in Remarks)  No  Depth (Inches):  No  Depth (Inches):	Secondary Indicators (2 or more resuired)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) — Crayflah Burrows (C8) Soils (C6) — Saturation Visible on Aerial Imagery (1) — Shallow Aquitard (D3) — FAC-Neutral Test (D5)
Depth (Inches):  DROLOGY  ettland Hydrology indicators: imary indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sadiment Depositis (B2) (Nonriverine) Drift Depositis (B3) (Nonriverine) Surface Soit Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) aid Observations:  rface Water Present?  yes ter Table Present?  Yes turstion Present?  Yes Cudes ceptifiery fringe)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic invertabrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Lif  Presence of Reduced Iron (C4)  Recent fron Reduction in Talled S  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (Inches):  No  Depth (Inches):	Secondary Indicators (2 or more resulted)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10)  ving Roots (C3) — Dry-Season Water Table (C2) — Crayfish Burrows (C8)  Soils (C6) — Saturation Visible on Aerial Imagery (I — Shallow Aquitard (D3) — FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Depth (Inches):  DROLOGY  ettland Hydrology indicators: imary indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sadiment Depositis (B2) (Nonriverine) Drift Depositis (B3) (Nonriverine) Surface Soit Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) aid Observations:  rface Water Present?  yes ter Table Present?  Yes turstion Present?  Yes Cudes ceptifiery fringe)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Lit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled Stry (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (Inches):  No  Depth (inches):	Secondary Indicators (2 or more resulted)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10)  ving Roots (C3) — Dry-Season Water Table (C2) — Crayfish Burrows (C8)  Soils (C6) — Saturation Visible on Aerial Imagery (I — Shallow Aquitard (D3) — FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Depth (Inches):  DROLOGY  Interior of the control o	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Suffide Odor (C1)  Oxidized Rhizospheres along Lit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled Stry (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)  No  Depth (Inches):  No  Depth (inches):	Secondary Indicators (2 or more resulted)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10)  ving Roots (C3) — Dry-Season Water Table (C2) — Crayfish Burrows (C8)  Soils (C6) — Saturation Visible on Aerial Imagery (I — Shallow Aquitard (D3) — FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

	CLOMINANT	ON DATA FORM	- Mary transition
Project/Site: Schielt		City/County:	thites Sampling Date: 10-4
policant/Owner:			State: USA Sampling Point: DP
vestigator(s): Ed Senul	1	Section, Township, Ra	inge: \$327/8R/9
andform (hilislope, terrace, etc.):			convex, none): Slope (%):
			Long: Datum:
oil Map Unit Name:	wat		NWI classification:
re climatic / hydrologic conditions on the site typical for			
			"Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology re Vegetation, Soil, or Hydrology			seded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site me	p showing	sampling point i	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  9 72 24 1 177	No	<u> </u>	No. of the last of
EGETATION – Use scientific names of pl		Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1.	% Cover	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:
2.			Total Number of Dominant
·			Species Across Ali Strata: (B)
Senting/Shrub Stratum (Plot size:)		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
I			Prevalence Index workshoet:
<u></u>			
),			FACW species x 2 =
			FACW species x2 = FAC species x3 =
S		= Total Cover	FACW species
Look Charles #200 to size:		= Total Cover	FACW species x2 = FAC species x3 =
terb Stretum (Plot size:)  Fedher on why	ner	= Total Cover	FACW species
tert Stratum (Flot size:	nes	= Total Cover	FACW species
terb Stretum (Plot size:)  Fed to come and buy	nei	= Total Cover	FACW species
terb Stratum (Plot size:  Pesh con andry	nei	= Total Cover	FACW species
terb Stratum (Plot size:  Pesh con andry	nei	= Total Cover	FACW species
Herb Stratum (Plot size:  Les hermanulary  Les hermanulary  Les hermanulary  Les hermanulary	nei	= Total Cover	FACW species
4. 5. Herb Stratum (Mot size:) 1.	nee	= Total Cover	FACW species
Herb Stratum (Plot size:)  1. Feether and the period of the period	nee	= Total Cover	FACW species
Herb Stratum (Plot size:)  1. Feether and the period of the period	nee	= Total Cover	FACW species
5	nek	= Total Cover	FACW species x 2 =

OIL.					Sampling Poli	nt:
Prefile Desci	rintion: (Descri	be to the dept	needed to document the Indicator or	confirm the abi	sence of indicators.)	
	-				,	
Depth	Metrix (Selection)		Redox Features  Golor (moist) % Type	Loc <sup>2</sup> Texts	une Remarks	•
(inches)	Color (moist)		Out that		NS/19/14	
	28.4.			<del></del>		
pt 200	ربالقوالة حري فحور	3/3	Free Su Face Land	1 0.	ar both by I want	
¹Type: C=Co	ncentration. D=D	epietion, RM≃	Reduced Matrix, CS=Covered or Costed 5	Sand Grains.	<sup>2</sup> Location: PL=Pore Lining,	M=Matrix.
			.RRs, unless otherwise noted.)		ators for Problematic Hydri	
Histosol			Sandy Redox (S5)		t cm Muck (A9) (LRRC)	
			Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)	
	ipedon (A2)		Loamy Mucky Mineral (F1)		Reduced Vertic (F18)	
Black His					, ,	
	n Sulfide (A4)		Losmy Gleyed Metrix (F2)		Red Parent Material (TF2)	
	Layers (A5) (LR	R C)	Depleted Matrix (F3)	٠ '	Other (Explain in Remarks)	
	ck (A9) (LRR D)		Redox Dark Surface (F6)			
Depleted	Below Dark Sur	face (A11)	Depleted Dark Surface (F7)			
Thick Da	rk Burface (A12)		Redox Depressions (F8)		cators of hydrophytic vegetation	
Sandy M	lucky Mineral (S1	)	Vernal Poots (F9)		stland hydrology must be pres	
Sandy G	leyed Metrix (S4)	·		un	less disturbed or problematic.	
Restrictive L	ayer (if present	):				
Тура:						
Depth (Inc	hap)·			Shwiri	c Soil Present? Yes	No -
Remarks:	2 HGB /-			- I reguin	V 000011103001(1 100	
YDROLO	GY					
	trology Indicato					
Primary Indic	ators (minimum s	of one required	check all that apply)		Secondary indicators (2 or m	
Surface \	Water (A1)		Salt Crust (B11)		Water Marks (B1) (River	ine)
High We	ter Table (A2)		Biotic Crust (B12)		Sediment Deposits (B2)	(Riverine)
Saturatio	n (A3)		Aquetic invertebrates (B13)		Drift Deposits (B3) (River	rine)
	arks (81) (Nonth	vorine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)	
	t Deposits (B2) (		Oxidized Rhizospheres along Liv	ina Prote (C3)	Dry-Season Water Table	(C2)
				ing roots (os)		(02)
	osits (B3) (Nonri	(Varine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)	
	Soil Cracks (86)		Recent from Reduction in Titled S	S085 (C6)	Saturation Visible on Aer	nas imagery (CV)
Inundatio	on Visible on Aeri	ial imagery (B7	) Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Water-St	tained Leaves (B	9)	Other (Explain in Remarks)		FAC-Neutral Test (D5)	
Field Observ	vations:			<del>T</del>		
Surface Water		Yes !	lo Bepth (Inches):	1		
•				1		· sawara
Water Table			lo Depth (Inches):	1		- American
Saturation Pr		Yes 1	lo Depth (Inches):	Wetland Hyd	rology Present? Yes	No
(includes cap			hada and action	diam's 18 constitution		
Describe Rec	corcied Data (stre	em gauge, mo	nitoring well, aerial photos, pravious inspe	rcuons), it availat	DIE.	
Remarks:	· · · · · · · · · · · · · · · · · · ·					

		OH SAIA I ON	4 - Arid West Region	4 4
ect/Site: Schult		City/County:	Sittitus :	Sampling Date: 10 -
licent/Owner:			State: UNA S	Sampling Point: PP
estigetor(e): Ed Seno	a	Section, Township, F	Range: 532	718 R19
Iform (hilislope, terrace, etc.):				
egion (LRR):	l et	200010111111111111111111111111111111111	l ono:	Datum
Map Unit Name:	wat		NWI classificat	
dimatic / hydrologic conditions on the site typica				
			e "Normal Circumstances" pro	
egetation, Soll, or Hydrology _ egetation, Soll, or Hydrology _			needed, explain any answers	
-			•	-
MMARY OF FINDINGS - Attach site	map showing	sampling point	locations, transects,	important features, et
drophylic Vegetation Present? Yes	No	is the Sample	ad Aras	
dric Soil Present? Yes	No	within a Weti		No.
dand Hydrology Present? Yes	No			
marks: grazel, 11	rest of	packe		
, , , , , , , , , , , , , , , , , , , ,	. ,			
SETATION - Use scientific names o	f plants.			
		Dominant Indicator		heet:
e Stratum (Plot size:)		Species? Status	<ul> <li>Number of Dominant Spe That Are OBL, FACW, or</li> </ul>	roles (A)
	<del></del>		_}	
			Total Number of Domina Species Agross All Strate	
		= Total Cover	That Are OBL, FACW, or	
fing/Shrub Stratum (Plot size:	٠	•		
			_ Prevalence Index work	
			T. 1 - 1 04 - 5	
			Total % Cover of:	
			OBL species	x1=
			OBL species	x1=
		= Total Cover	OBL species FACW species FAC species	x1= x2= x3=
rb Stratum (Pfot size: )		= Total Cover	OBL species FACW species FAC species FACU species	x1=x2=x3=x4=x4=
b Stratum (Plot size:) Cor(x. 5.18	50	= Total Cover	OBL species FACW species FAC species FACU species UPL species	x1 = x2 = x3 = x4 = x5 =
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b Stratum (Plot size:)  Corcx = 5 ff  FESTerm burnden	50	FAC	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index	x1 =
b Stretum (Plot size:)  Corcid. Till  Festivan burndan	50 50	FAC	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetation	x1 =
to Stratum (Plot size:)  Corcx 344  FESTura burned an	50 50	FAC	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetatlor	x 1 =
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th Stratum (Plot size:) Cor (x 348 FESTarin Summlar	50 50	FAC	OBL species FACW species FACU species FACU species UPL species Column Totals: Prevalence Index: Hydrophytic Vegetation Dominence Test is > Prevalence Index is Morphological Adapt date in Remarks Problematic Hydroph	x 1 =
rb Stratum (Plot size:)  Cor (x = 548  FES fram, Samuel = 7	50	FAC	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetation Dominance Tast is > Pravalence Index is Morphological Adapt date in Remarks Problematic Hydropi  'Indicators of hydric soil	x 1 =
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epthMat		eaded to document the indicate	or or confirm the ab	sence of indicators.)
	-	Redox Features		,
nchus) Color (mols			Loc Tex	ure Remarks
1 (2) 10		Fun Fu Fin		cohny in
6 1943			<del></del>	
		duced Matrix, CS=Covered or Cos		<sup>2</sup> Location: PL=Pore Lining, M=Matrix. cators for Problematic Hydric Solis <sup>3</sup> :
	phicable to all LRP	Rs, unless otherwise noted.)		
Histosol (A1)		Sandy Redox (S5) Stripped Matrix (S6)		1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
_ Histic Epipedon (A2) _ Black Histic (A3)		Supped watrix (50) Loamy Mucky Mineral (F1)		Reduced Versic (F18)
_ Black ristic (A3) _ Hydrogen Suffice (A4)		Loamy_Gleyed Matrix (F2)		Red Perent Material (TF2)
_ Stratified Layers (A5) (L	RR C)	Depleted Matrix (F3)		Other (Explain in Remarks)
_ 1 cm Muck (A9) (LRR D		Redox Dark Surface (F6)		
Depleted Balow Dark St		Depleted Dark Surface (F7)		
Thick Dark Surface (A1:		Redox Depressions (F8)	3Ind	icators of hydrophytic vegetation and
Sandy Mucky Mineral (8	<b>5</b> 1)	Vernal Pools (F9)		etland hydrology must be present,
_ Sandy Gleyed Metrix (S			U	nless disturbed or problematic.
estrictive Layer (if preser	nt):			,
Type:	····	-		
Depth (Inches):		<del>-</del>	Hydr	ic Soli Present? Yes No
DDOLOGY		the same of the sa		
/DROLOGY				
etland Hydrology Indicat		and all that applich		Sacondary indicators (2 or more manifed)
etland Hydrology Indicat rimary Indicators (minimum				Secondary indicators (2 or more required)
lettend Hydrology Indicat rimary Indicators (minimum Surface Water (A1)		Salt Crust (B11)		Water Marks (B1) (Riverine)
etland Hydrology Indicat imary Indicators (minimum Surface Water (A1) High Water Table (A2)		Salt Crust (B11) Biotic Crust (B12)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
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ect/site: Schielt	C11.	y/County:	11/1/25 Sampling Date: 10
	Un		State: USA Sampling Point: DP #
stigator(s): EUSEWM	7	at a Tanasahia Da	state: 532 7/8 R/7
• • • • • • • • • • • • • • • • • • • •			
fform (hillstope, terrace, etc.):			convex, none); Slope (%):
	Let:		Long: Datum:
Map Unit Name:			NWI classification:
climatic / hydrologic conditions on the site typical f			
Vegetation, Soil or Hydrology			"Normal Circumstances" present? Yes No
Vegetation, Solf, or Hydrology	naturally proble	matic? (if n	eeded, explain any answers in Remarks.)
MMARY OF FINDINGS - Attach site n	nap showing s	ampling point i	ocations, transects, important features, etc
ydrophytic Vegetation Present?  ydric Soil Present?  ettand Hydrology Present?  emarks:  y ra; zel , 1	_ No	is the Samples within a Wetlan	,
GETATION – Use scientific names of	<u> </u>		
se Stratum (Plot size:)		ominant Indicator occies? Status	Dominance Test worksheet:
			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant
			Species Across All Strate: (B)
			Percent of Dominant Species
pling/Shrub Stratum (Plot size:)		Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			TOTAL 76 COVER OT: INTURDITY DY.
			OBL species X1 *
			OBL species x1 *
		Total Cover	OBL species
eb Stratum (Plot size: ).			OBL species x1 =  FACW species x2 =  FAC species x3 =  FACU species x4 =  UPL species x5 =
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ob Stratum (Pipt size:  Me un patino			OBL species x1 =  FACW species x2 =  FAC species x3 =  FACU species x4 =  UPL species x5 =
to Stratum (Plot size:  The un patinge Carea typ			OBL species       x1 =         FACW species       x2 =         FAC species       x3 =         FACU species       x4 =         UPL species       x5 =         Column Totals:       (A)
ob Stratum (Pipt size:  [New patings (and type			OBL species
ob Stratum (Pipt size:  [New patings (and type	80 70		OBL species
orb Stratum (Plot size:  Phen pathoe  Caren type	80 70		OBL species
et Stratum (Plot size:  Phen pathoe  Caren 199	80 70		DBL species
er Stratum (Plot size: Phe un primae Carea type	80 70	Total Cover	OBL species
erb Stratum (Plot size:  Phe un primal Canea type  Goody Vine Stratum (Plot size: )	80 70	Total Cover	OBL species x1 =  FAGW species x2 =  FAG species x3 =  FAGU species x4 =  UPL species x5 =  Column Totals: (A) (B)  Prevalence Index = B/A =  Hydrophylic Vegetation Indicators: Dominance Test is >50%  Prevalence index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remerks or on a separate sheet)  Problematic Hydrophylic Vegetation¹ (Explain)  Indicators of hydric soil and wellend hydrology must
Cara top	80 70	Total Cover	DBL species

Off.			Sampling Point:
votile Description: (Descri	be to the depth ne	eded to document the indicator or c	onlirm the absence of indicators.)
Depth Matri	x	Redox Features	
(inches) Color (moist		olor (moist) % Type L	oc <sup>2</sup> Texture Remarks
14 1042	71	Fash	tobby from
	<del></del>		
		uced Matrix, CS=Covered or Costed Se	and Grains. Location: PL=Pore Lining, M=Matrix.
		s, unless otherwise nated.)	indicators for Problematic Hydric Solis*:
Histosol (A1)	-	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	-	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	-	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	-	Loamy Gleyed Matrix (F2)	Red Perent Material (TF2)
Strattfied Layers (A5) (LF		Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)		*Redox Dark Surface (F6)	
Depleted Below Dark Su		Depleted Dark Surface (F7)	•
Thick Dark Surface (A12)		Redox Depressions (F8)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S		Vernal Pools (F9)	wetland hydrology must be present,
Sandy Glayed Matrix (\$4			unless disturbed or problematic.
Restrictive Layer (If present	i);		
Type:			
Type: Depth (inches): Remarks:			Hydric Sall Present? Yes No
Depth (Inches):Remarks:			Hydric Soil Present? Yes No
Depth (Inches):Remarks:			Hydric Sail Present? YesNo
Depth (Inches):			
Depth (Inches):Remarks:		eck all thet apply)	Secondary indicators (2 or more required)
Depth (Inches):		eck all that apply) Sait Crust (B11)	Secondary Indicators (2 or more required)Water Marks (B1) (Riverine)
Depth (Inches):			Secondary indicators (2 or more required)
Depth (Inches):		Sailt Crust (B11)	Secondary Indicators (2 or more required)Water Marks (B1) (Riverine)
Depth (Inches):  PDROLOGY  Wetland Hydrology Indicate  Primary Indicators (minimum.  Surface Water (A1)  High Water Table (A2)  Seturation (A3)	of one required; ch	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (Inches):	of one required; chi	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine)  — Sediment Deposits (B2) (Riverine)  — Drift Deposits (B3) (Riverine)  — Drainage Patterns (B10)
Depth (Inches):	of one required; chi iverine) (Nonriverine)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattoms (B10) ng Roots (C3) Dry-Season Water Table (C2)
Depth (Inches):  Primary Indicators (minimum: Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Month Sediment Deposits (B2) Drift Deposits (B3) (Nonth	of one required; chi iverine) (Nonriverine) riverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizosphares along Livir Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)
Depth (Inches):  PDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum. Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonth Sediment Deposits (B2) Drift Deposits (B3) (Nonth	of one required; chi iverine) (Nooriverine) itverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Titled So	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Sis (C5)  Saturation Visible on Aerial Imagery (C
Depth (Inches):  PDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum.  Surface Water (A1)  High Water Table (A2)  Seturesion (A3)  Weter Marks (B1) (Nonni Sediment Deposits (B2)  Drift Deposits (B3) (Nons  Surface Soil Cracks (B6)  Inundation Visible on Ae	of one required; chi iverine) (Nonriverine) riverine) rial imagery (B7)	Salt Crust (B11) Blotte Crust (B12) Aquatic Invertabrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced from (C4) Recent Iron Reduction in Titled So Thin Muck Surface (C7)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shatlow Aquitard (D3)
Depth (Inches):  POROLOGY  Wetland Hydrology Indicate  Primary Indicators (minimum:  Surfece Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (81) (Nonit  Sediment Deposits (82)  Drift Deposits (83) (Nonit  Surfece Soil Cracks (86)  Inundation Visible on Ae  Water-Steined Leaves (E	of one required; chi iverine) (Nonriverine) riverine) rial imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Titled So	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Sis (C5) Saturation Visible on Aerial Imagery (C
Depth (Inches):  POPROLOGY  Wetland Hydrology Indicate Primary Indicators (midmum Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (81) (Nonri Sediment Deposits (B2) Drift Deposits (B3) (Nonri Surface Soil Cracks (B6) Inundation Vielble on Aer Water-Stained Leaves (E	of one required; chi iverine) (Nonriverine) iverine) rial imagery (B7)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizosphares along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Titled So Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Intilicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrews (C8) Saturation Visible on Aerial Imagery (C Shatlow Aquiterd (D3)
Depth (Inches):  POPROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Seturetion (A3) Water Marks (B1) (Month Sediment Deposits (B2) Drift Deposits (B3) (Nonth Surface Soil Cracks (B6) Inunction Visible on Aer Water-Stalned Leeves (E Field Observations: Surface Water Present?	of one required; chi iverine) (Nonsiverine) riverine) rial imagery (B7) 99)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertabrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphares along Livir  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled So  Thirr Muck Surface (C7)  Other (Explain In Remarks)	Secondary Intilicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrews (C8) Saturation Visible on Aerial Imagery (C Shatlow Aquiterd (D3)
Depth (Inches):  POPROLOGY  Wetland Hydrology Indicate Primary Indicators (midmum Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (81) (Nonri Sediment Deposits (B2) Drift Deposits (B3) (Nonri Surface Soil Cracks (B6) Inundation Vielble on Aer Water-Stained Leaves (E	of one required; chi (Verine) (Nonsiverine) fiverine) fial imagery (B7) 99)  Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced from (C4) Recent Iron Reduction in Titled So Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrews (C8) Saturation Visible on Aerial Imagery (C Shatlow Aquiterd (D3) FAC-Neutral Test (D5)
Depth (Inches):  POROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum: Surfece Water (A1) High Water Table (A2) Seturation (A3) Weter Marks (81) (Nondicators (B2) Drft Deposits (B3) (Nondicators (B3) Inundation Visible on Ae Water-Steined Leaves (E Field Observationes: Surface Water Present? Saturation Present?	of one required; chi (Verine) (Nonsiverine) fiverine) fial imagery (B7) 99)  Yes No Yes No	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertabrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphares along Livir  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled So  Thirr Muck Surface (C7)  Other (Explain In Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrews (C8) Saturation Visible on Aerial Imagery (C Shatlow Aquiterd (D3)
Depth (Inches):  POROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum. Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonth Sediment Deposits (B2) Drift Deposits (B3) (Nonth Surface Soil Cracks (B6) Inundation Visible on Ast Water-Stained Leaves (E) Flaid Observationes: Surface Water Present? Water Table Present? Saturation Present?	of one required; chi iverine) (Nonsiverine) riverine) rial imagery (B7) 99)  Yes No Yes No Yes No	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphares along Livir  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled So Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrews (C8)  Sits (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes
Depth (Inches):  POROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum. Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonth Sediment Deposits (B2) Drift Deposits (B3) (Nonth Surface Soil Cracks (B6) Inundation Visible on Ast Water-Stained Leaves (E) Flaid Observationes: Surface Water Present? Water Table Present? Saturation Present?	of one required; chi iverine) (Nonsiverine) riverine) rial imagery (B7) 99)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced from (C4) Recent Iron Reduction in Titled So Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrews (C8)  Sits (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes
Depth (Inches):  PDROLOGY  Wetland Hydrology Indicate Primary Indicators (maidnum.  Surfece Water (A1)  High Water Table (A2)  Seturation (A3)  Weter Marks (B1) (Nonni Sediment Deposits (B2)  Drift Deposits (B3) (Nons)  Surfece Soil Cracks (B6)  Inundation Visible on Aes  Water-Stalined Leaves (E)  Field Observationes:  Water Table Present?  Water Table Present?  Saturation Present?  Saturation Present?  Describe Recorded Data (str	of one required; chi iverine) (Nonsiverine) riverine) rial imagery (B7) 99)  Yes No Yes No Yes No	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphares along Livir  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled So Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more required)
Depth (Inches):  POROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum. Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonth Sediment Deposits (B2) Drift Deposits (B3) (Nonth Surface Soil Cracks (B6) Inundation Visible on Ast Water-Stained Leaves (E) Flaid Observationes: Surface Water Present? Water Table Present? Saturation Present?	of one required; chi iverine) (Nonsiverine) riverine) rial imagery (B7) 99)  Yes No Yes No Yes No	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphares along Livir  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled So Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more required)
Depth (Inches):  PDROLOGY  Wetland Hydrology Indicate Primary Indicators (maidnum.  Surfece Water (A1)  High Water Table (A2)  Seturation (A3)  Weter Marks (B1) (Nonni Sediment Deposits (B2)  Drift Deposits (B3) (Nons)  Surfece Soil Cracks (B6)  Inundation Visible on Aes  Water-Stalined Leaves (E)  Field Observationes:  Water Table Present?  Water Table Present?  Saturation Present?  Saturation Present?  Describe Recorded Data (str	of one required; chi iverine) (Nonsiverine) riverine) rial imagery (B7) 99)  Yes No Yes No Yes No	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphares along Livir  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled So Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more required)
Depth (Inches):  PDROLOGY  Wetland Hydrology Indicate Primary Indicators (maidnum.  Surfece Water (A1)  High Water Table (A2)  Seturation (A3)  Weter Marks (B1) (Nonni Sediment Deposits (B2)  Drift Deposits (B3) (Nons)  Surfece Soil Cracks (B6)  Inundation Visible on Aes  Water-Stalined Leaves (E)  Field Observationes:  Water Table Present?  Water Table Present?  Saturation Present?  Saturation Present?  Describe Recorded Data (str	of one required; chi iverine) (Nonsiverine) riverine) rial imagery (B7) 99)  Yes No Yes No Yes No	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphares along Livir  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled So Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrews (C8)  Sits (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes
Depth (Inches):  PDROLOGY  Wetland Hydrology Indicate Primary Indicators (maidnum.  Surfece Water (A1)  High Water Table (A2)  Seturation (A3)  Weter Marks (B1) (Nonni Sediment Deposits (B2)  Drift Deposits (B3) (Nons)  Surfece Soil Cracks (B6)  Inundation Visible on Aes  Water-Stalined Leaves (E)  Field Observationes:  Water Table Present?  Water Table Present?  Saturation Present?  Saturation Present?  Describe Recorded Data (str	of one required; chi iverine) (Nonsiverine) riverine) rial imagery (B7) 99)  Yes No Yes No Yes No	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizosphares along Livir  Presence of Reduced Iron (C4)  Recent Iron Reduction in Titled So Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrews (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes

Schilt	a	. IK	thites	Sampling Date: 10
ÇV 3/16.	City/0		Marie 12 A	Sampling Point:
ent/Owner:	71		State: CV7 :	Sampling Point:
orm (hillslope, terrace, etc.):				
gion (LRR):	Let:			
lap Unit Name:			NWI classifica	
limatic / hydrologic conditions on the site typic	al for this time of year? `	YesNo _	(If no, explain in Re	marks.)
egetation, Soil or Hydrology _				ssent? Yes No
egetation, Soil or Hydrology _	naturally problem	atic? (if ne	eded, explain any anawers	in Remarks.)
MARY OF FINDINGS - Attach site	man showing sar	nolina point l	ocations, transects,	important features, et
drophytic Vegetation Present? Yes fric Soil Present? Yes	No No	Is the Sampled within a Wetlan	Area	
ETATION – Use scientific names o	of plants.		Dominance Test works	
e Stratum (Plot size:)	% Cover Sp	minant Indicator scies? Status	Number of Dominant Sp That Are OBL, FACW, or	scies /
			Total Number of Domina Species Across All Strett	
the Physic Physics Aller sine	= Ti	otal Cover	Percent of Dominant Spo That Are OBL, FACW, or	
			Prevalence Index work	sneet:
			1	sneet: Multiply by:
			Total % Cover of:	
			Total % Cover of: OBL species FACW species	
			Total % Cover of: OBL species FACW species FAC species	Multiply by:  x1 =  x2 =  x3 =
			Total % Cover of: OBL species FACW species FAC species FACU species	Multiply by:  x1 =   x2 =   x3 =   x4 =
h Strahum (Plot siza:		otal Cover	Total % Cover of: OBL species FACW species FAC species FACU species UPL species	Multiply by:  x1 =
h Strahum (Plot size:		otal Cover	Total % Cover of: OBL species FACW species FAC species FACU species UPL species	Multiply by:  x1 =   x2 =   x3 =   x4 =
o Stratum (Plot size:) FCSTICA ormali.		otal Cover	Total % Cover of: OBL species FACW species FAC species FACU species UPL species	Mutoply by:  x1 =
o Stratum (Mot size:) FESTICA armsh.		otal Cover	Total % Cover of:  OBL species FACW species FAC species FACU species UPL species Column Totals:  Prevalence Index Hydrophytic Vegetation	Multiply by:  x 1 =  x 2 =  x 3 =  x 4 =  x 5 =  (A)  (B)  EBIA =  1 indicators:
b Stratum (Plot size:  FESTICA armsh.		otal Cover	Total % Cover of:  OBL species FACW species FACU species FACU species UPL species Column Totals: Prevalence Index Hydrophydic Vegetation Dominance Test is a	Multiply by:  x 1 =  x 2 =  x 3 =  x 4 =  x 5 =  (A)  (B)  = B/A =  55%
b Stratum (Plot size:) FCSTICE armsh.		otal Cover	Total % Cover of:  OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetation Dominance Test is : Prevalence Index is	Multiply by:  x1 =  x2 =  x3 =  x4 =  x5 =  (A) (B  = B/A =  1 indicators:  50%  \$3.01
b Stratum (Plot size:) FCSTica armli		otal Cover	Total % Cover of:  OBL species FACW species FAC species UPL species Column Totals:  Prevalence Index Hydrophytic Vegetation Dominance Test is 1  Prevalence Index is Morphological Adap	Multiply by:  x 1 =  x 2 =  x 3 =  x 4 =  x 5 =  (A)  (B)  = B/A =  55%
b Stratum (Plot size:) FCSTica armli		otal Cover	Total % Cover of:  OBL species FACW species FAC species UPL species Cotumn Totals:  Prevalence Index Hydrophytic Vegetatio Dominence Test is Prevalence Index is Morphological Adap data in Remarks	Multiply by:  x 1 =  x 2 =  x 3 =  x 4 =  (A)  (B)  = B/A =  1 indicators:  50%  \$3.0'  tations' (Provide supporting
rb Stratum (Plot size:) FCS pure annulu:		otal Cover	Total % Cover of:  OBL species FACW species FACU species FACU species UPL species Column Totals:  Prevalence Index Hydrophydic Vegetation Oominance Test is a Prevalence Index is Morphological Adap data in Remerks Problematic Hydrop	Multiply by:  x 1 =  x 2 =  x 3 =  x 4 =  x 5 =  (A)  (B)  = B/A =  1 Indicators:  50%  \$3.0¹  Chrovide supporting or on a separate sheet)
rb Stratum (Plot size:) FCS TUCA anall.		otal Cover	Total % Cover of:  OBL species FACW species FACU species FACU species UPL species Column Totals:  Prevalence Index Hydrophydic Vegetation Oominance Test is a Prevalence Index is Morphological Adap data in Remerks Problematic Hydrop	Multiphy by:  x 1 =  x 2 =  x 3 =  x 4 =  (A)  (B)  = B/A =  1 indicators:  50%  \$3.0'  tations' (Provide supporting or on a separate sheet) hytic Vegetation' (Explain) and wetland hydrology must
erb Stratum (Plot size: or		otal Cover	Total % Cover of:  OBL species FACW species FAC species UPL species Column Totals:  Prevalence Index Hydrophydic Vegetation Dominance Test is a Prevalence index is Morphological Adap data in Remerks Problematic Hydrop  Indicators of hydric soil be present, unless distur Hydrophydic Vegetation	Multiphy by:  x 1 =  x 2 =  x 3 =  x 4 =  (A)  (B)  = B/A =  1 indicators:  50%  \$3.0'  tations' (Provide supporting or on a separate sheet) hytic Vegetation' (Explain) and wetland hydrology must

SOIL.		Sampling Point:
Profile Description: (Describe to the depti	needed to document the indicator or	confirm the absence of indicators.)
Depth Metrix	Redox Features	
(inches) Color (moist) %	Color (maist) % Type'	Loc <sup>2</sup> Texture Remarks
3 duff		
14 1042313		cabby Im
Type: C=Concentration, D=Depiction, RM=	Reduced Matrix, CS=Covered or Costed S	Sand Grains. 2Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L		indicators for Problematic Hydric Solis <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S8)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Metrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	•
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernai Poots (F9)	wetland hydrology must be present,
Sandy Gleyed Metrix (S4)		unless disturbed or problematic.
Restrictive Løyer (if present):		
Type:		
Depth (Inches):		Hydric Soil Present? Yes NoNo
Remarks:	· · · · · · · · · · · · · · · · · · ·	
IYDROLOGY		
Wetland Hydrology Indicators: Primary Indicators (minimum of one recuired	المراجعة المعاملة الم	Secondary indicators (2 or more required)
Surface Water (A1)	Selt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (82) (Riverise)
Seturation (A3)	Aquatic invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydragen Sulfide Odor (C1)	Drainage Patterns (810)
Sediment Deposits (B2) (Nonriverina)		ing Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonrivarine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (86)	Recent Iron Reduction in Titled S	· · · —
Inundation Visible on Aerial Imagery (B7		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain In Remarks)	FAC-Neutral Test (D5)
Field Observations:		
	loDepth (Inches):	
Water Table Present? Yes N	loDepth (Inches):	
Saturation Present? Yes N	loDepth (Inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mo	nitoring well, aenel protos, previous inspe	Cuons), it available:
Remarks:		

pplicant/Owner: State: WA Sampling Point: Dr. vestigator(s): Section, Township, Range: S327/9/R/19 Indiform (hilisiope, terrace, etc.): Local relief (concave, convex, none): Slope (%): Local relief (concave, convex, none): Slope (%): Local relief (concave, convex, none): Slope (%): Long: Datum: Datum: Datum: Simplificant (property): Datum: Dat		ID DETERMINATION DA	ATA FORM — Arid We	st Region
Section, Township, Range: State: WA Sampling Point: Development (conceve, convex, none): State: WA Sampling Point: Development (conceve, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, none): Stope (4): Debut (convex, convex, con	roject/Site: Schult	. City/Cot	unty: Kittite	Sampling Date: 10-4
setigator(s): Security Section, Township, Range: S32.776 R/9  difform (hillstops, terrace, etc.): Local relief (conceve, convex, none): Slope (%): Desture:	dicant/Owner:		State:	UNA Sampling Point: DR
Local reliad (conceive, convex, none): Slope (%): bregion (ARR): Let: Long: Datum: Bispope (%): bregion (ARR): Let: Long: Datum: Bispope (%): Datum: Bispope (%): Datum: Bispope (%): Datum: Bispope (%): Datum: Dat	estidatoris): El Sen	Section.	Township, Range:	532 T/8 R/9
Italy Unit Name:	•			
I Map Unit Name:  climate / hydrologic conditions on the ske typical for this time of year? Yee  // (In o, explain in Remarks.)  No				
Climatic / Inydrologic conditions on the site typical for this time of year? Yee No (if no, explain in Remarks.)   Vegetation   Soil	•	Lat		
Vegetation				
Vogetation   Soil				
MMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, et viciophylic Vagetation Present? Yes No within a Wettand? Yes No within a Wettand? Yes No within a Wettand? Yes No within a Wettand? Yes No within a Wettand? Yes No Modellar Dominant Brackets.  GETATION — Use scientific names of plants.  GETATION — Use scientific names of plants.  Abeclute Dominant Indicator Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) Species Across AB Strate: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) Species Across AB Strate: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) Species Across AB Strate: (B) Prevalence in Revenue of Dominant Species That Are OBL, FACW species X3 = FACW species X3 = FACW species X3 = FACW species X3 = FACW species X4 = UPL species X5 = Column Totals: (A) (B) Prevalence Index = BIA = Hydrophylic Vagetation Indicators: Dominant Create Indicator (A) Prevalence Index = BIA = Hydrophylic Vagetation (Provide supporting data in Remarks or on a separate sheet) Provider of problematic (Polyabrity) (Polyab	•			
Is the Sampled Area   within a Westend?   Yes   No   within a Westend?   Yes   No   within a Westend?   Yes   No   within a Westend?   Yes   No   within a Westend?   Yes   No   within a Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   Westend?   Yes   No     No   No   No   No   No   No	Vegetation, Soil, or Hydrolo	gy naturally problemation	c? (If needed, explain	n any answers in Remarks.)
Serior Soil Present?   Yes   No	JMMARY OF FINDINGS - Attach	site map showing samp	ling point locations,	transects, important features, etc
Absolute Systiam (Plot size:	lydric Soil Present? Yes Vetland Hydrology Present? Yes	No No	within a Watland?	Yes No
Species   Stratum   Plot size:     Species   Status			nant Indicator   Dominana	e Test worksheet:
Species Across All Stratus: (B)  Percent of Dominant Species That Are OBL, FACW, or FAC:  AND Prevalence sindex worksheet:  Total % Cover of:  Multiply by: OBL species x1 = FACW species x2 = FAC species x3 = FAC species x3 = FAC species x4 = UPL species x4 = UPL species x4 = UPL species x5 = Cotumn Totals: (A) (B)  Prevalence Index = BIA =  Hydraphytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is s3.0¹ Morphological Adaptationa¹ (Provide supporting data in Ramarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  **Roody Vine Stratum** (Plot size:  I are Total Cover  **Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  I are Total Cover  **Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  **Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  **Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  **Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  **Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  **Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric soil and welland hydrology must be present?  **Indicators of hydric	ree Stratum (Plot size:)	% Cover Specie	es? Status Number of	Dominant Species /
That Are OBL, FACW, or FAC:			Total Numi	ber of Dominant cross Ali Strate: (B)
Pravalence Index worksheet:   Total % Cover of:		= Total		
Total % Cover of:	apandroniup straum (Pick size:		Prevalenc	e ladex worksheet:
OBL species		**************************************	<del></del> ;	
FACW species				
### FAC species				
Plot size:				
## Prevalence Index = \$\frac{\text{\$\sigma}}{\text{\$(A)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(A)\$}} = \$\frac{\text{\$(B)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(B)\$}} = \$\frac{\text{\$(A)\$}}{\text{\$(A)\$}} = \$\frac{\text{\$(A)\$}}{\te		= Tote	Cover FACU spe	cles x4=
Prevalence index = B/A =  Hydraphytic Vegetation Indicators: Dominance Test is >50% Prevalence index is \$3.0¹ Morphological Adaptationa¹ (Provide supporting data in Ramarks or on a separate sheet)  = Total Cover  = Total Cover    Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  = Total Cover    Hydraphytic	erb Stratum (Plot size:)			es ×5=
Prevelence Index = BIA =  Hydraphytic Vegetation Indicators: Dominance Test is >50% Prevelence Index is \$3.0¹ Provide supporting data in Ramerics or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain)    addy Vine Stratum (Plot size:)			- Column To	xteds: (A) (B)
Hydraphytic Vegetation indicators:  Dominance Test is >50%  Prevalence index is 33.0°  Provide supporting data in Ramarks or on a separate sheet)  Toddy Vine Stratum (Ptot size:)  Todal Cover  = Total Cover    Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.    Total Cover			Orași	elence index = 9/8 =
Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationa¹ (Provide supporting data in Ramarks or on a separate sheet)				
Prevelence Index is x3.01  Morphological Adaptations (Provide supporting date in Ramerks or on a separate sheet)  — = Total Cover    Indicators of hydrochytic Vegetation (Explain)    Indicators of hydrochytic vegetation (Explain)    Indicators of hydrochytic vegetation (Indicators of hydrochytic vegetation)    dicators of hydrochytic vegetation)				
Morphological Adaptational (Provide supporting data in Ramarks or on a separate sheet)   Problematic Hydrophytic Vegetation' (Explain)				
data in Ramarks or on a separate sneal)  Problematic Hydrophytic Vegetation' (Explain)  Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.  = Total Cover  = Total Cover  + Total Cover    Problematic Hydrophytic vegetation			Morph	ological Adaptations1 (Provide supporting
Total Cover	•			
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  = Total Cover		= Total	Cover Protein	Million Library Andrews (Cabina)
Bare Ground in Herb Stratum				
Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No	·			
			Versetation	T .
Remarks:		% Cover of Bietic Crust	Present?	Yes No
	(emarks:			

roffie Description: (Describ		Dadey Festives		
Depth Metrix (inches) Color (moist)	% Cale	Redox Features or (moist) % Type	Loc <sup>2</sup> Text	ure Remarks
		A ((14)15()		<del></del>
14 10423	<u> </u>			ching in
***************************************				
		ed Metrix, CS=Covered or Cos		*Location: PL=Pore Lining, M=Metrix.
lydric Soil Indicators: (App				cators for Problematic Hydric Soils*:
Histosol (A1)		Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)		Stripped Metrix (S6)		2 cm Muck (A10) (LRR B)
Black Histic (A3)		Loamy Mucky Mineral (F1)		Reduced Vertic (F18)
Hydrogen Sulfide (A4)		Losmy Gleyed Matrix (F2)		Red Parent Material (TF2)
Stratified Layers (A5) (LRI		Depleted Matrix (F3)	*****	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)		Redox Derk Surface (F6)		
Depleted Below Dark Surf.		Depleted Dark Surface (F7)	•	
Thick Dark Surface (A12)		Redox Depressions (F8)		cators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	,	Vernal Poots (F9)		etland hydrology must be present,
Sandy Gleyed Metrix (S4)			U	nless disturbed or problematic.
lestrictive Layer (if present)	:		1	
lestrictive Layer (if present) Type:	:		-	
• • • •			Hydr	ic Soil Present? Yes No
Type: Depth (Inches): Remarks:			Hydr	ic Sail Present? Yes No
Type: Depth (Inches): Remarks:			Hydr	to Soil Present? Yes No
Type: Depth (Inches): Remarks:  YDROLOGY Vetland Hydrology Indicator	Te:		Hydr	
Type: Depth (Inches): Remarks:	Te:	t. silf that appoly)	Hydr	ic Soil Present? Yes No
Type: Depth (Inches): Remarks:  YDROLOGY Vetland Hydrology Indicator	re: f one required: check	self that spoily) _ Salt Crust (B11)	Hydr	
Type: Depth (Inches): Temerks:  YDROLOGY Wetland Hydrology Indicator Trimery Indicators (minimum o	re: if one required; check		Hydr	Secondary Indicators (2 or more required)
Type: Depth (Inches):  Permerks:  YDROLOGY  Wetland Hydrology Indicator  Trimery Indicators (minimum o  Surface Water (A1)  High Water Table (A2)	ra: f one required: check	_ Salt Crust (B11)		Secondary Indicators (2 or more required)
Type: Depth (Inches): Permarks:  YDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Seturation (A3)	ra: f one required: check	_ Salt Crust (B11) _ Biotic Crust (B12) _ Aquatic Invertebrates (B13)		Secondary Indicators (2 or more resuired) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Type: Depth (Inches): Temerks:  YDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum.o Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonriv	ra: one required: check	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		Secondary Indicators (2 or more resuited)  — Water Marks (B1) (Riverine)  — Sediment Deposits (B2) (Riverine)  — Drift Deposits (B3) (Riverine)  — Dratinage Patterns (B10)
Type: Depth (Inches): Temerks:  YDROLOGY Wetland Hydrology Indicator Frimery Indicators (minimum of the control	re:  f one required; check  refine)  Nonelverine)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor	ig Living Roots (C3)	Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine)  — Sediment Deposits (B2) (Riverine)  — Drift Deposits (B3) (Riverine)  — Drahage Patterns (B10)  — Dry-Sesson Water Table (C2)
Type: Depth (Inches): Temerks:  YDROLOGY  Wetland Hydrology Indicator Primery Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nontriv Sediment Daposits (B2) (I) Drift Deposits (B3) (Nontri	re:  f one required; check  refine)  Nonelverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (	ng Living Roots (C3)	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Dretnage Patterns (B10)  Dry-Season Water Table (C2)  Crayflah Burrowa (C8)
Type: Depth (Inchee):  VDROLOGY  Vetland Hydrology Indicator Primery Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Dapoetts (B2) (F) Drift Deposits (B3) (Nonriv Surface Soil Cracks (B6)	ra: f one required: check retine) tonstverine)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rintzospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Til	ng Living Roots (C3)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drahage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeriel Imagery (
Type: Depth (Inches): Temerks:  YDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum.o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (Nonriv Surface Soil Cracks (B6) Inundation Visible on Aeric	ra: of one required: check refine) vertine) al Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rivizospheres afor Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7)	ng Living Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drathage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aeriel Imagery ( Shallow Aquitand (D3)
Type: Depth (Inches): Temerks:  YDROLOGY  Wetland Hydrology Indicator Frimery Indicators Iminimum of Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrity Sediment Deposits (B2) (F Drift Deposits (B3) (Nonrity Surface Soil Cracks (B6) Inundation Visible on April Water-Stained Leaves (B6)	ra: of one required: check refine) vertine) al Imagery (B7)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rintzospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Til	ng Living Roots (C3)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drahage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeriel Imagery (
Type: Depth (Inches): Temerks:  YDRCLOGY  Wetland Hydrology Indicator Primery Indicators Iminimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonth Sediment Daposits (B2) (P Drift Deposits (B3) (Nonth Surface Soil Cracks (B6) Inundation Visible on Aeri Water-Steined Leaves (B5) Field Observations:	re: ( one required: check rectine) Nonriverine) verine) al imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Romans)	ng Living Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drathage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aeriel Imagery ( Shallow Aquitand (D3)
Type: Depth (Inches): Temerks:  YDROLOGY  Wetland Hydrology Indicator Frimery Indicators Iminimum of Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrity Sediment Deposits (B2) (F Drift Deposits (B3) (Nonrity Surface Soil Cracks (B6) Inundation Visible on April Water-Stained Leaves (B6)	ra: f one required: check retine) vertine) al Imagery (B7) 2)  Yes No	Salt Crust (B11) Biotic Crust (B12) Aquabic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)	ng Living Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drathage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aeriel Imagery ( Shallow Aquitand (D3)
Type: Depth (Inches): Temerks:  YDRCLOGY  Wetland Hydrology Indicator Primery Indicators Iminimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonth Sediment Daposits (B2) (P Drift Deposits (B3) (Nonth Surface Soil Cracks (B6) Inundation Visible on Aeri Water-Steined Leaves (B5) Field Observations:	ra: f one required: check retine) vertine) al Imagery (B7) 2)  Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Romans)	ng Living Roots (C3)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drathage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aeriel Imagery ( Shallow Aquitand (D3)
Type: Depth (Inches): Depth (I	re: f one required: check retine) vertine) at Imagery (B7) 2)  Yes No Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffde Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches): Depth (Inches):	ig Living Roots (C3) C4) led Solis (C6) Wetland Hy	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aeriel Imagery ( Shallow Aquiterd (D3)  FAC-Neutral Test (D5)
Type: Depth (Inches): Depth (I	re: f one required: check retine) vertine) at Imagery (B7) 2)  Yes No Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (C1) Oxidized Rivizospheres alor Presence of Reduced fron in Ta Thin Muck Surface (C7) Other (Explain in Remarks) Depth (Inches):	ig Living Roots (C3) C4) led Solis (C6) Wetland Hy	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aeriel Imagery ( Shallow Aquiterd (D3)  FAC-Neutral Test (D5)
Type: Depth (Inches): Temerks:  YDROLOGY Wetland Hydrology Indicator Primary Indigators (minimum of the control	re: f one required: check retine) vertine) at Imagery (B7) 2)  Yes No Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffde Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches): Depth (Inches):	ig Living Roots (C3) C4) led Solis (C6) Wetland Hy	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aeriel Imagery ( Shallow Aquiterd (D3)  FAC-Neutral Test (D5)
Type: Depth (Inches): Depth (I	re: f one required: check retine) vertine) at Imagery (B7) 2)  Yes No Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffde Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (Inches): Depth (Inches):	ig Living Roots (C3) C4) led Solis (C6) Wetland Hy	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aeriel Imagery ( Shallow Aquiterd (D3)  FAC-Neutral Test (D5)

low gout

WE	.,	ON DATA FOI	RM - Arid West Region
oject/Site: Schill	<i></i>	City/County:	Kithes Sempling Date: 10-4
plicant/Owner:			State: USA Sampling Point: DP
restigator(s):	senell	Section, Township	p, Range: \$327/8/2/9
ndform (hillsiope, terrace, etc.);		Local relief (cono	eve, convex, none): Slope (%):
			Long: Datum:
il Map Unit Name:			NWI classification:
		ar? Yes	No (If no, explain in Remarks.)
e Vegetation, Soli, or i			Are "Normal Circumstances" present? YesNo
e Vegetation, Soil, or I			(If needed, explain any answers in Remarks.)
			· · · · · ·
UMMARY OF FINDINGS - A			int locations, transects, important features, etc
lydrophytic Vegetation Present?	Yes No	is the Sam	
lydric Soil Present?	Yes No		retland? Yes No
Vetland Hydrology Present?	Yes No	Wellen & VI	Product 155 NO
temarks:	1 , propertied		
graze	1 1 x cigulation	prove	•
COETATION II			
GETATION - Use scientific	·	Dominant Indica	stor   Dominance Test worksheet:
ree Stratum (Plot size:		Species? State	U6 At 4 D to and D don
			That Are OBL, FACW, or FAC:(A)
			Total Number of Dominant
			Species Across All Strate: (B)
·			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Septino/Shrub Stratum (Plot size:	,	_ = Total Cover	That Are OBL, FACW, or FAC: (A/B)
· · · · · · · · · · · · · · · · · · ·	/		Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species x1=
· <u> </u>			FACW species x 2 =
·			FAC species x3 =
to the Charles of Made alone	,	_= Total Cover	FACU species x4=
ierb Stratum (Plot size: 	200 40	F3!	UPL species x5=
Comex	30	Pa	Column Totals:(A)(B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			Dominance Test le >50%
			Prevalence Index Is ≤3.0¹
!- <u> </u>			Morphological Adeptetions (Provide supporting data in Remerks or on a separate sheet)
\ <u></u>			Problematic Hydrophytic Vegetation* (Explain)
Voody Vine Stratum (Plot size:	,	_ = Total Cover	- commercial control of the control
voody vine Stratum (Prot size:			indicators of hydric soil and welland hydrology must
•			be present, unless disturbed or problematic.
1		= Total Cover	Hydrophytic
Poss Consud in Link Chak			Vegetation
6 Bare Ground in Herb Stratum			Vegetation Present? Yes No No
4 Bare Ground in Herb Stratum			

pth Matrix thres) Color (model) % Color (m  / / / / / / / / / / / / / / / / / / /	Redox Fastures solet % Type Loc	Texture Remarks
6 1042/Z F	eir fin Siet	tobby la
		· <del></del>
e: C=Concentration, D=Depletion, RM=Reduced N		
ric Soff Indicators: (Applicable to all LRRs, unle	·	Indicators for Problematic Hydric Salls <sup>3</sup> :
	ndy Redox (S5)	1 cm Muck (A9) (LRRC)
	ipped Matrix (S6)	2 cm Muck (A10) (LRR B)
	amy Mucky Mineral (F1)	Reduced Vertic (F18)
	erny Gleyed Metrix (F2)	Red Parent Material (TF2)
	pleted Matrix (F3)	Other (Explain in Remarks)
	dox Dark Surface (F6)	
	pleted Dark Surface (F7)	
	dox Depressions (F8)	3 Indicators of hydrophytic vegetation and
	mat Poots (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
krictiva Leyar (if present):		
Туре:		
Depth (Inches):		Hydric Sail Present? Yes No
DROLOGY		
tland Hydrology Indicators:		
nary indicators (minimum of one required; check all )	that spoly)	Secondary indicators (2 or more required)
Surface Water (A1) S	elt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	lotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	quetic invertebretes (B13)	Orift Deposits (B3) (Riverina)
Water Marks (B1) (Nonriverine)	ydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
	xidized Rhizospheres along Living Ro	ots (C3) Dry-Season Water Table (C2)
	resence of Reduced Iron (C4)	Cravfish Burrows (C8)
	ecent from Reduction in Titled Soils (C	
• • •	hin Muck Surface (C7)	Shallow Aguitard (D3)
	the⊁(Explain in Remarks)	FAC-Neutral Test (D5)
d Observations:	man (m-dright) at London (1911/19)	FAU-IRBUIRI (DS)
face Water Present? Yes No1	Depth (Inches):	
ter Table Present? Yes No	Septh (Inches):	
uration Present? Yes No [	Depth (inches): Wet	lland Hydrology Present? Yes No
dudes capitary fringe)		
scribe Recorded Data (streem gauge, monitoring we	II, sensi photos, previous inspections)	, if available;
marks:		
MARKS:		

WETLAND DETERMINATION DATA FORM - Arid West Region City/County: K, 14/12/5 Sempling Date: 10-4-21
State: WA Sempling Point: DU# 13 Schult Project/Site: Applicant/Owner: 532 T/8 R/9 Section, Township, Range: \_\_\_ Investigator(s): Landform (hillslope, terrace, etc.): Local relief (conceve, convex, none): Subregion (LRR): \_\_\_ \_\_\_\_ Long: \_ 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 "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, 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? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? - grazed, injected pashie 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: Sapling/Shrub Stratum (Plot size: \_\_\_ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x1 = \_\_\_\_ FACW species \_\_\_\_ \_\_\_ x2=\_ FAC species \_\_\_\_ x3= FACU species \_\_\_\_\_ x4=\_ = Total Cover Herb Stratum (Plot size: UPL species \_\_\_\_\_ x5 = \_\_\_ FAL Column Totals: \_\_\_\_\_(A) \_\_\_\_ FACE 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) \_\_\_ Problematic Hydrophytic Vegetation (Explain) ≃ Total Cover Woody Vine Stratum (Plot size: <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover \_ % Cover of Blotic Crust \_ Present? % Bare Ground in Herb Stratum Remarks:

Carrier   Contentration   Carrier			confirm the absence of indicators.)
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coeted Sand Grains. **Location: PL- prife Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problet Histocal (A1)		Color (moist) % Tune	Loc Texture Remarks
ype: C=Concentration, D=Depletion, RM=Reduced Metrix, CS=Covered or Costed Sand Grains.   - 1.coation: PL ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problet Historic (A1)			
ype: C=Concentration, D=Depiction, RM=Reduced Matrix, CS=Covered or Coeted Sand Grains.  **Location: PL- printe Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (  Histosol (A2) Stripped Matrix (S0) 2 cm Muck (A10)  Black Hater (A2) Loamy Mulcy Mineral (F1) Reduced Vertic (F1)  Hydrogen Suifide (A4) Loamy Gleyed Metrix (F2) Red Perent Mate  Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in 1 of m Muck (A9) (LRR D)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F6)  Depleted Dark Surface (F6)  Depleted Dark Surface (A12) Redox Depressions (F8) *  *Indicators of hydroph wedand hydrotogy unless disturbed or surface (F6)  Sandy Mucky Mineral (S1) Vernal Pools (F9) wedand hydrotogy unless disturbed or surface (F6)  Sandy Surface (A12) Redox Depressions (F8) *  **Indicators of hydroph wedand hydrotogy unless disturbed or surface (F6)  **DROLOGY**  effand Hydrology Indicators: marv Indicators (minimum of one required: check all that apply) unless disturbed or surface Water (A1) Secondary Indicators: marv Indicators (minimum of one required: check all that apply)  Securation (A3) Aquatic Invertistorates (B13) Dirit Deposit (B2) Seturation (A3) Aquatic Invertistorates (B13) Dirit Deposits (B2) (Nonriverine) Hydrogen Suffice Odor (C1) Drahage P3  Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish But Sufface Soil Cracks (B8) Recent Iron Reduction in Titled Soils (C6) Saturation (Inundation Vielble on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquatic Invertistion Present? Yes No Depth (Inches): Wetland Hydrology Present: story Vetland Depth (Inches): Wetland Hydrology Present: story Vetland Depth (Inches): Wetland Hydrology Present: story Vetland Depth (Inches): Wetland Hydrology Present: story Vetland Depth (Inches): Wetland Hydrology Present: story Vetland Depth (Inches): Secondary Vetland Depth (Inches): Wetland Hydrology Present: story Vetland Depth (Inches): Wetland Hydrology Present: stor	10000110		COVERN CO
ype: C=Concentration, D=Depiction, RM=Reduced Matrix, CS=Covered or Costed Sand Grains.  **Indicators for Problet Soft Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (Histosol (A2) Stripped Matrix (S0) 2 cm Muck (A40) 2 Loamy Mucky Mineral (F1) Reduced Vertic (F3) Reduced Vertic (F3) Reduced Vertic (F3) Reduced Vertic (F3) Cher (Explain in 1 cm Muck (A9) (LRR C) Depleted Matrix (F3) Cher (Explain in 1 cm Muck (A9) (LRR D) Redox Dert Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8) **Indicators of hydroph wetsend hydrotogy unless disturbed or servicid vertic (F3) Vernal Pools (F9) wetsend hydrotogy unless disturbed or servicid vertical vertica			
ype: C=Concentration, D=Depletion, RM=Reduced Metrix, CS=Covered or Coeted Sand Grains.  **Location: PL- ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) ( Histosol (A2) Stripped Metrix (S0) 2 cm Muck (A10)  Black Hates (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F3)  Hydrogen Sulfide (A4) Loamy Gleyed Metrix (F2) Red Perent Mete  Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in 1 cm Muck (A10) (LRR D)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F6)  Depleted Dark Surface (A12) Redox Depressions (F6)  **Indicators of hydroph wetand hydrology onless disturbed or Sandy Mucky Mineral (S1)  **Sandy Mucky Mineral (S1) Vernal Pools (F9) wetand hydrology unless disturbed or surface United the Leyer (If present):  Type:  Depth (Inches): Hydrogen Sulfide Odor (C1)  Seturation (A3) Aquatic Invertatorates (B13) Drift Deposit High Water Table (A2) Blobs Crust (B12) Seturation (A3)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drahage P3  Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish But Surface Soil Cracks (B8) Recent Iron Reduction in Tilled Soils (C6) Saturation (Inundation Vielbio on Aerial Imagery (B7) Thin Muck Surface (C7)  Water Astained Leaves (B0) Other (Explain in Remarks) FAC-Neutra strip of the Present? Yes No Depth (Inches): Wetland Hydrology Present returned Describer Recorded Date (stream gauge, monitoring west, serial photos, previous inspections), if available:			
ype: C=Concentration, D=Depletion, RM=Reduced Metrix, CS=Covered or Coeted Sand Grains.  **Location: PL- ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) ( Histosol (A2) Stripped Metrix (S0) 2 cm Muck (A10)  Black Hates (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F3)  Hydrogen Sulfide (A4) Loamy Gleyed Metrix (F2) Red Perent Mete  Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in 1 cm Muck (A10) (LRR D)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F6)  Depleted Dark Surface (A12) Redox Depressions (F6)  **Indicators of hydroph wetand hydrology onless disturbed or Sandy Mucky Mineral (S1)  **Sandy Mucky Mineral (S1) Vernal Pools (F9) wetand hydrology unless disturbed or surface United the Leyer (If present):  Type:  Depth (Inches): Hydrogen Sulfide Odor (C1)  Seturation (A3) Aquatic Invertatorates (B13) Drift Deposit High Water Table (A2) Blobs Crust (B12) Seturation (A3)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drahage P3  Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish But Surface Soil Cracks (B8) Recent Iron Reduction in Tilled Soils (C6) Saturation (Inundation Vielbio on Aerial Imagery (B7) Thin Muck Surface (C7)  Water Astained Leaves (B0) Other (Explain in Remarks) FAC-Neutra strip of the Present? Yes No Depth (Inches): Wetland Hydrology Present returned Describer Recorded Date (stream gauge, monitoring west, serial photos, previous inspections), if available:			
ype: C=Concentration, D=Depletion, RM=Reduced Metrix, CS=Covered or Coeted Sand Grains.  **Location: PL- ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) ( Histosol (A2) Stripped Metrix (S0) 2 cm Muck (A10)  Black Hates (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F3)  Hydrogen Sulfide (A4) Loamy Gleyed Metrix (F2) Red Perent Mete  Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in 1 cm Muck (A10) (LRR D)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F6)  Depleted Dark Surface (A12) Redox Depressions (F6)  **Indicators of hydroph wetand hydrology onless disturbed or Sandy Mucky Mineral (S1)  **Sandy Mucky Mineral (S1) Vernal Pools (F9) wetand hydrology unless disturbed or surface United the Leyer (If present):  Type:  Depth (Inches): Hydrogen Sulfide Odor (C1)  Seturation (A3) Aquatic Invertatorates (B13) Drift Deposit High Water Table (A2) Blobs Crust (B12) Seturation (A3)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drahage P3  Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish But Surface Soil Cracks (B8) Recent Iron Reduction in Tilled Soils (C6) Saturation (Inundation Vielbio on Aerial Imagery (B7) Thin Muck Surface (C7)  Water Astained Leaves (B0) Other (Explain in Remarks) FAC-Neutra strip of the Present? Yes No Depth (Inches): Wetland Hydrology Present returned Describer Recorded Date (stream gauge, monitoring west, serial photos, previous inspections), if available:			
Indicators (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problet			
Indicators (Applicable to all LRRs, unless otherwise noted.) Histose (A1) Sandy Redox (S5)			·
Indicators (Applicable to all LRRs, unless otherwise noted.) Histore (A1)			
Indicators (Applicable to all LRRs, unless otherwise noted.) Histore (A1) Sandy Redox (S5)			
Indicators (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problet			
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (Histo Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Losmy Mucky Mineral (F1) Reduced Vertic (F1) Reduced Vertic (F2) Hydrogen Suitide (A4) Losmy Mucky Mineral (F2) Red Parent Mate Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in 1 cm Muck (A9) (LRR D) Redox Dark Surface (A11) Depleted Dark Surface (F6) Depleted Batrow Dark Surface (A11) Redox Depressions (F8) Indicators of hydroph Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology sandy Gleyed Metrix (S4) unites disturbed or satrictive Leyer (if present):  Type:  Depth (inches):  Surface Water (A1) Salt Crust (B11) Water Marks  Water Marks (B1) (Nonriverine) Blobs Crust (B12) Sediment Departs (B3) Drift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Sasson Drift Deposits (B3) (Nonriverine) Presence of Reduced iron (C4) Cray/Rish But Surface Soit Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation (Val) Indicators (B4) Drift Deposits (B3) (Nonriverine) Depth (Inches):  Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Cray/Rish But Surface Soit Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation Includes College (C7) Shallow Agustion (Val) Face (C7) Shallow Agustion (Val) Face (C7) Shallow Agustion (Val) Present? Yes No Depth (Inches):  Verticator Table Present? Yes No Depth (Inches):  Verticator Table Present? Yes No Depth (Inches):  Verticator Table Present? Yes No Depth (Inches):  Verticator Table Present? Yes No Depth (Inches):  Verticator Table Present? Yes No Depth (Inches):  Verticator Table Present? Yes No Depth (Inches):  Verticator Table Present? Yes No Depth (Inches):  Verticator Table Present? Yes No Depth (Inches):  Verticator Table Present?			
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Learny Mucky Mineral (F1) Reduced Vertic (I hydrogen Sulfide (AM) Learny Mucky Mineral (F1) Red Perard Mate Hydrogen Sulfide (AM) Learny Gleyed Matrix (F2) Red Perard Mate Strattfled Leyers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Popetric Matrix (F3) Depleted Matrix (F3) Other (Explain in Popetric Matrix (F3) Depleted Matrix (F3) Processor (F7) Processor (F7) Processor (F7) Processor (F7) Processor (F8) Proces	ic Soll Indicators: (Applicable to al	i LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis <sup>3</sup> :
Black Histic (A3) Loamy Muoky Mineral (F1) Reduced Vertic (I) Hydrogen Suilide (A4) Loamy Gleyed Metrix (F2) Red Perant Mate Swrattfed Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Windicators of hydroph Mucky Mineral (S1) Persent (S1) Redox Depressions (F8) Persent (F3) Sandy Mucky Mineral (S1) Persent (F3) Wernal Pools (F9) Wedland hydrology unless disturbed or satrictive Leyer (if present):  Type:  Depth (inches): Hydric Soil Present?  Proper (Mineral (S1) Secondary Indice Crist (S1) Secondary Indice Soil Present?  Proper (Mineral (S1) Secondary Indice Crist (S1) Secondary Indice Soil Present?  Proper (Mineral (S1) Secondary Indice Crist (S1) Secondary Indice Soil Present?  Proper (Mineral (S1) (Nonriverine) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Secondary Indice Secondary Indice Secondary Indice Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondary Indice Crist (S1) Secondar	fistosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Hydrogen Sulfide (AA)  Stratified Leyers (A5) (LRR C)  Depleted Matrix (F3)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A12)  Redox Derk Surface (F6)  Depleted Below Dark Surface (A12)  Redox Derressions (F8)  Indicators of hydroph sandy Mucky Milneral (S1)  Sandy Mucky Milneral (S1)  Sandy Mucky Milneral (S1)  Sandy Surface (A12)  Redox Depressions (F8)  Indicators of hydroph wedsand hydrology wedsand hydrology unitess disturbed or estrictive Leyer (if present):  Type:  Depth (inches):  UPROLOGY  Felfand Hydrology Indicators: Inhary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (minimum of one required: check at that apply)  Secondary Indicators (B1)  Water Marks (B1) (Nonriverine)  Secondary Indicators (B11)  Water Marks (B1) (Nonriverine)  Dirit Deposits (B3) (Nonriverine)  Dirit Deposits (B3) (Nonriverine)  Dirit Deposits (B3) (Nonriverine)  Dirit Deposits (B3) (Nonriverine)  Dirit Deposits (B3) (Nonriverine)  Presence of Reduced fron (C4)  Crayfish But  Surface Soil Cracks (B6)  Recent Iron Reduction in Titled Soils (C6)  Saturation (A1)  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey  Indicators of hydrogey	fistic Epipedon (A2)		2 cm Muck (A10) (LRR B)
Serettfied Leyers (A5) (LRR C) 1 om Muck (A9) (LRR D) 2 pepted Below Dark Surface (A11) 2 pepted Below Dark Surface (A11) 3 pepted Below Dark Surface (A12) 3 per service (A12) 3 per service (A12) 3 per service (A13) 3 per service (A13) 4 per service (A14) 5 per service (A15) 5 per service (A15) 5 per service (A15) 5 per service (A15) 5 per service (A15) 5 per service (A15) 5 per service (A15) 6 per service (A15) 6 per service (A15) 6 per service (A15) 6 per service (A15) 6 per service (A15) 6 per service (A15) 6 per service (A15) 7 per service (A15) 7 per service (A15) 7 per service (A15) 7 per service (A15) 7 per service (A15) 7 per service (A15) 7 per service (A15) 7 per service (A15) 7 per service (A15) 7 per service (A15) 8 per service (A16) 8 per service (A16) 8 per service (A16) 8 per service (A17) 8 per serv	liack Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
1 cm Muck (A9) (LRR D) Redox Derk Surface (F6) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology unless disturbed or satrictive Leyer (if present): Type: Depth (inches): Hydric Soil Present?  Premarks:  DROLOGY  Total Hydrology Indicators: Imary Indicators (minimum of one required; chack all that apply) Secondary Indicators (minimum of one required; chack all that apply) Secondary Indicators (minimum of one required; chack all that apply) Secondary Indicators (minimum of one required; chack all that apply) Secondary Indicators (minimum of one required; chack all that apply) Secondary Indicators (minimum of one required; chack all that apply) Secondary Indicators (minimum of one required; chack all that apply) Secondary Indicators (minimum of one required; chack all that apply) Secondary Indicators (Male (A1)) Secondary Indicators (Male (A1)) Secondary Indicators (Male (A1)) Secondary Indicators (Male (A1)) Secondary Indicators (Male (A2)) Secondary Indicators (Male (A2)) Secondary Indicators (Male (A3)) Secondary Indicators (Male (A2)) Secondary Indicators (Male (A3))			Red Parent Material (TF2)
Depleted Bellow Dark Surface (A11) Thick Dark Burface (A12) Redox Depressions (F8) 'Indicators of hydroph Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology unless disturbed or satirctive Leyer (if present): Type: Depth (inches):  Depth (inches):  Pernarks:   //DROLOGY  Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (B1) Secondary In	Bratified Leyers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
Thick Dark Burface (A12) Redox Depressions (F8) Indicators of hydroph wedand hydrology (Sandy Mucky Mineral (S1) Vernal Pools (F9) wedand hydrology (unless disturbed or satisfactive Leyer (if present):  Type:			
Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology unless disturbed or satrictive Leyer (if present):  Type:  Depth (inches): Hydric Soil Present?  PROLOGY  refland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Selt Crust (B11) Water Mark; High Water Table (A2) Blobs Crust (B12) Sediment D. Seturation (A3) Aquatic inventents (B13) Drift Deposits Water Marks (B1) (Nonriverine) Hydrogen Suifide Odor (C1) Drainage Pt Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Drift Deposits (B3) (Nonriverine) Presence of Reduced iron (C4) Crayfish But Surface Soil Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aq. Water-Storined Leaves (B9) Other (Explain in Remarks) FAC-Neutra leid Observations: Unded Observations: Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Vater Present? Yes No Depth (inches): Vater Table Vater Present? Yes No Depth (inches): Vater Table Vater Present? Yes No Depth (inches): Vater Table Vater Present? Yes No Depth (inches): Vater Table Vater Present? Yes No Depth (inches): Vater Table Vater Present? Yes No Depth (inches): Vater Table Vater Present?			
Sendy Gleyed Metrix (S4)  unless disturbed or astrictive Layer (if present):  Type: Depth (inches): Depth (inches): Hydriq Soli Present?  finary Indicators: Inmary Indicators: Inmary Indicators: Inmary Indicators (innimum of one required: check all that apply) Secondary Indicators (innimum of one required: check all that apply) Secondary Indicators (innimum of one required: check all that apply) Secondary Indicators (innimum of one required: check all that apply) Secondary Indicators (innimum of one required: check all that apply) Secondary Indicators (inner Metric (B1)) Secondary Indicators (B1) High Water Table (A2) Seturation (A3) Seturation (A3) Seturation (A3) Seturation (R6) (Nonriverine) Dyrid Deposits (B3) (Nonriverine) Dyrid Deposits (B3) Dyrid Deposits (B3) (Nonriverine) Dyrid Deposits (B3) Dyrid Deposits (B3) (Nonriverine) Dyrid Deposits (B3) Dyrid Deposits (B3) (Nonriverine) Dyrid Deposits (B3) Dyrid Deposits (B3) (Nonriverine) Dyrid Deposits (B3) Dyrid Deposi			3Indicators of hydrophytic vegetation and
Present   Pres	Saindy Mucky Mineral (\$1)	Vernal Pools (F9)	wetland hydrology must be present,
Type:			unless disturbed or problematic.
Depth (inches): Hydric Soil Present?  PROLOGY  Testiand Hydrology Indicators: Imary Indicators (ininimum of one required: check all that apply) Secondary Indicators (ininimum of one required: check all that apply) Surface Water (A1) Sulf Crust (B11) Water Marks Suturetion (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Drift Deposits (B3) (Nonriverine) Presence of Reduced iron (C4) Crayfish But Surface Soil Cracks (B6) Recent from Reduction in Talled Soils (C6) Saturation Visible on Aerial Imagery (B7) Inim Muck Surface (C7) Water-Storined Leaves (B9) Other (Explain in Remarks) FAC-Neutra  Pater Table Present? Ves No Depth (inches): Jeter Table Present? Ves No Depth (inches): Wetland Hydrology Present? Indudes capitary thinge) escribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	rictive Løyer (if present):		1
POROLOGY  Inflant Hydrology Indicators: Inflant Indicators (minimum of one required; check all that apply)  Secondary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Sulface Water (A1)  Sulface Water (A2)  Seturation (A3)  Seturation (A3)  Water Marks (B1) (Nonriverfine)  Hydrogen Sulface Odor (C1)  Sadiment Deposits (B2) (Nonriverfine)  Drift Deposits (B3) (Nonriverfine)  Sulface Soil Cracks (B3)  Drift Deposits (B3) (Nonriverfine)  Presence of Reduced from (C4)  Cray/Shi But  Surface Soil Cracks (B6)  Inundation Viable on Aerial Imagery (B7)  Inim Muck Surface (C7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutralization Viable on Recent?  Ves  No  Depth (Inches):  Jater Table Present?  Ves  No  Depth (Inches):  Wetland Hydrology Present?  roludes capillary fringe)  scribe Recorded Data (stream gauge, monitoring wett, serial photos, previous inspections), if available:	pe:		
### Present? Yes No Depth (Inches):    **TOROLOGY**	epth (inches):		Hydric Soil Present? Yes No
Fetland Hydrology Indicators: Imary Indicators (minimum of one required: check all that apply)  Secondary Indicators (minimum of one required: check all that apply)  Seturation (A1)  High Water (A1)  Selt Crust (B11)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced iron (C4)  Surfece Soil Cracks (B6)  Recent Iron Reduction in Taled Soils (C6)  Saturation Vielble on Aerial Imagery (B7)  Inundation Vielble on Aerial Imagery (B7)  Water-Stafned Leaves (B9)  Other (Explain in Remarks)  FAC-Neutralided Observations:  Under Observations:  Vater Table Present?  Yes  No  Depth (Inches):  Seturation Present?  Yes  No  Depth (Inches):  Wetland Hydrology Present:  roductes capillary fringe)  secribe Recorded Data (stream gauge, monitoring wat, serial photos, previous inspections), if available:			
dimery indicators (minimum of one required: check all that apply)  Surface Water (A1)  Sult Crust (B11)  Water Mark: High Water Table (A2)  Selturation (A3)  Aquetic invertebrates (B13)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Titled Soils (C6)  Saturation Viable on Aerial Imagery (B7)  Inundation Viable on Aerial Imagery (B7)  Water-Storined Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Observations:  India Observations:  In	ROLOGY		
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Seturation (A3) Aquetic Invertebretes (B13) Drift Deposit Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drahnage Pt Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfist Bu Surface Soit Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation V Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aqu Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutra India Observations: Urface Water Present? Yes No Depth (Inches): Vater Table Present? Yes No Depth (Inches): Westand Hydrology Present! robudes capillary fringe) Secribe Recorded Data (stream gauge, monitoring wall, serial photos, previous inspections), if available:		nd; check all that apply)	Secondary Indicators (2 or more resulted
Seturation (A3) Aquatic Invertebretes (B13) Drift Deposit Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drahnage Pt Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Drift Deposits (B3) (Nonriverine) Presence of Reduced fron (C4) Crayfist Bu Surface Soit Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation V Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aqu Water-Stafned Leaves (B9) Other (Explain in Remarks) FAC-Neutra Initial Observations: Urface Water Present? Yes No Depth (Inches): Vater Table Present? Yes No Depth (Inches): Westand Hydrology Present? Includes capillary fringe) Vescribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	ary Indicators (minimum of one require		Secondary Indicators (2 or more required  Water Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine)	ery Indicators (minimum of one require Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Riszospheres along Living Roots (C3) Dry-Season Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) CrayNish But Surface Soit Cracks (B6) Recent Iron Reduction in Taled Soils (C6) Saturation Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aq. Water-Steined Leaves (B9) Other (Explain in Remarks) FAC-Neutra leid Observations: Urface Water Present? Yes No Depth (Inches): Staturation Present? Yes No Depth (Inches): Wetland Hydrology Present? sturation Present? Yes No Depth (Inches): Wetland Hydrology Present? roludes capillary hinge) Secribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	ery <u>Indicators (minimum of one require</u> Burfaca Water (A1) High Water Table (A2)	Salt Crust (B11) Blotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Drift Deposits (B3) (Nonrivarine) Presence of Reduced iron (C4) Crayfish Bulgsurface Soil Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation V Inundation Vielble on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aq. Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutralield Observations:  urface Water Present? Yes No Depth (Inches):  start Table Present? Yes No Depth (Inches): Westend Hydrology Present?  ncludes capillary finge)  escribe Recorded Data (stream gauge, monitoring wall, serial photos, previous inspections), if available:	ary <u>Indicators (minknum of one require</u> Surface Water (A1) digh Water Table (A2) Seturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquetic invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Surface Soil Cracks (B6) Saturation \( \) Inundation Visible on Aerial Imagery (B7) Ininduck Surface (C7) Shallow Aq. Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral of Characteristics FAC-Neutral of	ery Indicators (minimum of one require Surface Water (A1) riigh Water Table (A2) Seturation (A3) Nater Marks (B1) (Nonriverine)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertabretes (B13) Hydragen Suifide Odor (C1)	Water Merks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Inundation Vielble on Aerial Imagery (87) Thin Muck Surface (C7) Shallow Aq.  Water-Stained Leaves (89) Other (Explain in Remarks) FAC-Neutre leid Observations:  Urface Water Present? Yes No Depth (Inches):  Jeturation Present? Yes No Depth (Inches):  Jeturation Present? Yes No Depth (Inches):  Jeturation Present? Yes No Depth (Inches):  Jeturation Present? Yes No Depth (Inches):  Wetland Hydrology Present?  Rescribe Recorded Data (stream gauge, monitoring wat, serial photos, previous imspections), if available:	ery Indicators (minimum of one require Burface Water (A1) High Water Table (A2) Beturation (A3) Nater Marks (B1) (Nonriverine) Bediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drahage Patterna (B10) ing Roots (C3) Dry-Season Water Table (C2)
Water-Stained Leaves (89)  Other (Explain in Remarks)  FAC-Neutralians:  Ves No Depth (Inches):  Vestar Table Present? Yes No Depth (Inches):  Vestar Table Present? Yes No Depth (Inches):  Vestar Table Present? Yes No Depth (Inches):  Vestard Hydrology Present?  Ves No Depth (Inches):  Vestand Hydrology Present?  Vescribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	ary Indicators (minimum of one results Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nontiverine) Sediment Deposits (B2) (Nontiverine) Orth Deposits (B3) (Nontiverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertabretes (B13) Hydrogen Suffice Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drelnage Patterns (B10) ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
leid Observations:  urface Water Present?	ary Indicators (minimum of one require Burface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Burface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aguatic Invertebrates (B13) Mydrogen Suifide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drinage Patterns (B10) Drinage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Solis (C6) Saturation Visible on Aeriel Imagery (
No	ary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturelion (A3) Vater Marias (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundetion Velidio on Aerial Imagery (E	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertentes (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visable on Aeriel Imagery ( Shallow Aquiterd (D3)
Vater Table Present? Yes No Depth (Inches): Westend Hydrology Present?  Indudes capitlary fringe)  Recorded Data (stream gauge, monitoring wall, serial photos, previous inspections), if available:	ary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Nater Marks (B1) (Nonriverine) Sadiment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Vieble on Aerial Imagery (E Nater-Stafned Leaves (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertentes (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drinage Patterns (B10) Drinage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Solis (C6) Saturation Visible on Aeriel Imagery (
sturation Present? Yes No Depth (inches): Wetland Hydrology Present/ includes capillary fringe)  Prescribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	ary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Nater Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Diffi Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Vielble on Aerial Imagery (E Nater-Stained Leaves (B9)	Salt Crust (B11) Blotic Crust (B12) Agustic Invertebretes (B13) Hydrogen Suffice Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4) Recent Iron Reduction in Titled S Thin Muck Surface (C7) Other (Explain in Romarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visable on Aeriel Imagery ( Shallow Aquiterd (D3)
includes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Nater Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Diffi Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Vielble on Aerial Imagery (E Nater-Stained Leaves (B9)	Salt Crust (B11) Blotic Crust (B12) Agustic Invertebretes (B13) Hydrogen Suffice Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4) Recent Iron Reduction in Titled S Thin Muck Surface (C7) Other (Explain in Romarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visable on Aeriel Imagery ( Shallow Aquiterd (D3)
nctudes capillary fringe) lescribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	ary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturation (A3) Natar Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) nundation Vielble Aerial Imagery (E Nater-Stafmed Leaves (B9) Observations:	Salt Crust (B11) Biotic Crust (B12) Aquetic Invertebretes (B13) Hydrogen Suffice Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Exptain in Romarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visable on Aeriel Imagery ( Shallow Aquiterd (D3)
	ary Indicators (minimum of one require Surface Water (A1) Iliph Water Table (A2) Seturation (A3) Vater Marks (B1) (Nonriverine) Sediment Daposits (B2) (Nonriverine) Orth Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Viable on Aerial Imagery (E Water-Stafned Leaves (B9) Observations: Ico Water Present?  Yes  "Table Present?  Yes  "	Salt Crust (B11) Biotic Crust (B12) Aquestic Invertebretes (B13) Hydrogen Suffice Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent fron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Water Merks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drehage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aeriel Imagery ( Shallow Aquitard (D3) FAC-Neutral Test (D5)
lemarks:	ary Indicators (minimum of one require Surface Water (A1) tliph Water Table (A2) Seturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Vieble on Aerial Imagery (E Water-Steined Leaves (B9) Closervatione: CO Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Agustic Invertebretes (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Exptain in Romarks)  No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drehage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solis (C6)  Saturation Visible on Aeriel Imagery (Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
lomarks:	ary Indicators (minimum of one require Surface Water (A1) tliph Water Table (A2) Seturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Vieble on Aerial Imagery (E Water-Steined Leaves (B9) Closervatione: CO Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Agustic Invertebretes (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Exptain in Romarks)  No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drehage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solis (C6)  Saturation Visible on Aeriel Imagery (Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
	ary Indicators (minimum of one require Surface Water (A1) tliph Water Table (A2) Seturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Vieble on Aerial Imagery (E Water-Steined Leaves (B9) Closervatione: CO Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Agustic Invertebretes (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Exptain in Romarks)  No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drehage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solis (C6)  Saturation Visible on Aeriel Imagery (Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
	ary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturelion (A3) Nater Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Vielble on Aerial Imagery (E Water-Stafned Leaves (B9) Observations:  or Table Present? Yes r Table Present? Yes ration Present? Yes des capillary linge) ribe Recorded Date (stream gauge, m	Salt Crust (B11) Biotic Crust (B12) Agustic Invertebretes (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Exptain in Romarks)  No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drehage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solis (C6)  Saturation Visible on Aeriel Imagery (Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
	ary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Seturelion (A3) Nater Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) nundation Vielble on Aerial Imagery (E Water-Stafned Leaves (B9) Observations:  or Table Present? Yes r Table Present? Yes ration Present? Yes des capillary linge) ribe Recorded Date (stream gauge, m	Salt Crust (B11) Biotic Crust (B12) Agustic Invertebretes (B13) Hydrogen Suffide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Exptain in Romarks)  No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drehage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solis (C6)  Saturation Visible on Aeriel Imagery (Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

WETLAND DETERMINATION DATA FORM - Arid West Region	SOIL.	Sampling Point:
Project/Site: Schilt city/County: Kittites Sempling Date: 10-4-21	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence	ence of indicators.)
	Depth Matrix Redox Features	
Applicant/Owner: State: USA Sampling Point: DP#14 +	(inches) Color (moist) % Color (moist) % Type Loc Texture	Remarks
investigator(s): Ed Sewell Section, Township, Range: 532718219 DP#15	10 1043/3	7 1
Landform (hillslope, terrace, etc.): Local relief (conceve, convex, none): Slope (%):		
Subregion (LRR): Lat: Long:		
Soil Map Unit Name: NWI classification:		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes		
Are Vegetation, Soil, or Hydrology significantly disturbed?		
• • • • • • • • • • • • • • • • • • • •		
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.	<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Send Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydrophytic Vegetation Present? Yes No to the Samueland Association		etors for Problematic Hydric Solls <sup>3</sup> :
The time desirately rives		cm Muck (A9) (LRR C)
Wetland Hydrology Present? Yes No Within a Wetland? Yes No No		om Muck (A10) (LRR B)
		leduced Vertic (F18) led Parent Meterial (TF2)
Romarks: - y razed, injected partie		ther (Explain in Remarks)
	1 cm Muck (A9) (LRR D) Redox Derk Surface (F6)	• •
	Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
VEGETATION - Use scientific names of plants.		ators of hydrophytic vegetation and tland hydrology must be present,
Absolute Dominant Indicator Dominance Test worksheet:  Tree Stratum (Plot size:		ess disturbed or problematic.
Tree Stratum (Plot size:)	Restrictive Leyer (if present):	
	Type:	
Total Number of Dominant Species Across All Strate: (6)	Depth (Inches): Hydric	Soil Present? Yes No
	Remarks:	
4 = Total Cover		
Sapling/Shrub Stratum (Pict size:		
1. Pravalence Index worksheet:		
2	HYDROLOGY	
3. OBL species x1 = FACW species x2 =	Wetland Hydrology indicators:	
4 FAC species x2 =	· · · · · · · · · · · · · · · · · · ·	Secondary indicators (2 or more required)
	Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)
	High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Herb Stratum (Plot size: UPL species x5= Column Totals; (A) (B)	Seturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
2	Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
3. Prevalence index = B/A =	Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3)	
4. Hydrophytic Vegetation indicators:		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9
5	Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)
6 Prevalence Index le ≤3.01		FAC-Neutral Test (D5)
7. Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheel)	Field Observations:	<u> Carrier anno anno anno anno anno anno anno ann</u>
8. Problematic Hydrophytic Venetation (Evnetation)	Surface Water Present? Yes No Depart (Inches):	
Woody Vine Stratum (Plot size:	Water Table Present? Yes No Depth (Inches):	-
Woody vine Systym (Flot size:)  Indicators of hydric soil and westand hydrology must		rology Present? Yes No
be present, unless disturbed or problematic.	(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, sarial photos, previous inspections), if available	la:
= Total Cover Hydrophytic	manufacture and faramet Sousant transmission and mercent breatest breatest probabilities assured	- <del></del> -
Vegetation	Remarks:	
Remarks:		
		· · · · · · · · · · · · · · · · ·

US Army Corps of Engineers Arid West -- Version 2.0

US Army Corps of Engineers

WETLAND DETERMINATION DATA FORM — Arid West Region	SOIL	Sampling Point:
Project/Site: Schridt Chy/County: Kithtes sampling Date: 10-4-21	Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
	Depth Matrix Redox Features	
Applicant/Owner: State: U.A. Sampling Point: DP#/6	(inches) Color (moist) % Color (moist) % Type Loc	Cubb 4
nvestigetor(s): SUSENUM Section, Township, Range: S327/8/2/4	16 20n3/3	cobby in
andform (hillstope, terrace, etc.): Local relief (conosve, convex, none): Slope (%):		
Subregion (LRR): Let: Long: Datum: H/8		
soil Map Unit Name: NWI classification:		
ve climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)		
ve Vegetation Soil or Hydrology significantly disturbed?		
tre 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.	<sup>1</sup> Type: C=Concentration, D=Depiction, RM=Reduced Matrix, CS=Covered or Costed Sand Gra	
Hydrophytic Vegetation Present? Yes No is the Sampled Area	Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis <sup>3</sup> :
Hydric Soil Present? Yes No within a Wettand? Yes No	Histosol (A1) Sandy Redox (S5) Histo Epipedon (A2) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR S)
Wetland Hydrology Present? Yes No	Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Remarks: - grazed, irrighted pashie	Hydrogen Suifide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
- diagon I wilding by	Strattfied Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
	1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
	Depleted Below Dark Surface (A11)  Depleted Dark Surface (F7)	Standing to the design of the design of the standard of the st
/EGETATION - Use scientific names of plants.	Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators of hydrophytic vegetation and wetland hydrology must be present,
Absolute Dominant Indicator Dominant Comment Status  Tree Stratum (Plot size: Species Status Aumher of Comment Species 2	Sandy Gleyed Matrix (S4)	unisss disturbed or problematic.
Tree Stratum (Plot size:	Restrictive Layer (if present):	
	Type:	
Total Number of Dominant 3. Species Across All Strate: (B)	Depth (Inches):	Hydric Soil Present? Yes No
	Remarks:	
= Total Cover That Are OBL, FACW, or FAC: (A/B)		
Septing/Shrub Stratum (Plot size:)		
1. Prevalence Index worksheet:		
2	HYDROLOGY	
3 OBL species x1 =	Wetland Hydrology Indicators:	
4 FACW species x2 =	Primary Indicators (minimum of one required; check all that apply)	Secondary indicators (2 or more required)
5 FAC species x3 =	Surface Water (A1) Selt Crust (B11)	Water Marks (B1) (Riverine)
= Total Cover FACU species x4 =	High Water Table (A2) Biotic Crust (812)	Sediment Deposits (B2) (Riverine)
1. Tracus officer 30 Column Totals: (A) (B)	Seturation (A3) Aquatic invertabrates (B13)	Drift Deposits (B3) (Riverine)
2 Festion 20 FAC GOOD TO THE CONTROLL OF THE CONTROLL OF THE CONTROL OF THE CONTR	Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
3. Prevalence Index = B/A =		bs (C3) Dry-Sesson Water Table (C2)
4. Hydrogrytic Vegetation Indicators:	Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Surrows (C8)
5	Surface Soit Cracks (B6) Recent Iron Reduction in Titled Soits (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	) Saturation Visible on Aerial Imagery (C Shallow Aguitard (D3)
8Prevalence Index is ≤3.01	Water-Steined Leaves (B9)	FAC-Neutral Test (D5)
7 Morphological Adaptetions¹ (Provide supporting data in Remarks or on a separate sheet)	Field Observations:	
8. Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	Surface Water Present? Yes No Depth (Inches):	
= Total Cover	Water Table Present? Yes No Depth (Inches):	_
Woody Vine Stratum (Plot size:)  'indicators of hydric soil and wetland bydrology must		nd Hydrology Present? Yes No
1. be present, unless disturbed or projected.	(Includes capillary fringe)	
2	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), i	T BARNBOIG;
= Total Cover Hydrophytic Vagetation		
% Bare Ground in Herb Stratum	Remarks:	
Remarks:		
,		

iubregion (LRR): ioil Map Unit Name: tre climatic / hydrologic conditi	c.):	(s	ection, Township, Ra	State: WA:	Sampling Point: DP
andform (hillslope, terrace, et subregion (LRR): soil Map Unit Name: we climatic / hydrologic conditi	c.):		ection, Township, Ra	<"? >	The second of th
Subregion (LRR): Soil Map Unit Name: Are climatic / hydrologic conditi				nge:	1180 219=
Subregion (LRR): Soil Map Unit Name: Are climatic / hydrologic conditi			ocal relief (concave,	convex, none):	Slope (%):
Are climatic / hydrologic conditi					Datum:
				NWI classifica	tion:
	ions on the site typical fo	or this time of year	? YesNo	(if no, explain in Re	marks.)
re Vegetation, Soil	or Hydrology			"Normal Circumstances" pro	esent? YesNo
re Vegetation, Soil	, or Hydrology	naturally prob	ं lematic? (If ne	eded, explain any answers	in Remarks.)
SUMMARY OF FINDING	SS – Attach site m	ap showing s	sampling point l	ocations, transects,	important features, etc.
Hydrophytic Vegetation Press	ent? Yes 🛩	No			
Hydric Soil Present?	Yes		is the Sampled		
Wetland Hydrology Present?			within a Wetlar	107 Yes	No
/EGETATION – Use sc	irrig-				
COLIMION OUT BO			Dominant Indicator	Dominance Test works	hoot
Tree Stratum (Plot size:	)		Species? Status	Number of Dominant Spe	
1				That Are OBL, FACW, or	FAC: (A)
2				Total Number of Domina	
3				Species Across All Strate	a:(B)
4			Total Cover	Percent of Dominant Spe That Are OBL, FACW, or	
1				Prevalence Index works	sheet:
2.				Total % Cover of:	Multiply by:
3				OBL species	x1=
4				FACW species	
5				FAC species	
Herb Stratum (Plot size:	,		Total Cover		×4=
1. Phlen	nachos	ر الماليا	FAL		x 5 = (B)
2	7			Contain roters.	(A) (B)
3.					= B/A =
4,				Hydrophytic Vegetation	
5	<del></del>			Dominance Test is >	
6				- Prevalence Index is	
7				Morphological Adapt data in Remarks	tations' (Provide supporting or on a separate sheet)
8			Total Cover	1	nytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot si				Indicators of hydric soil a be present, unless distur	and wetland hydrology must bed or problematic.
2			Total Cover	Hydrophytic	
				Vegetation	1
% Bare Ground in Herb Stratt	um % (	Cover of Blotic Cru	ıst	Present? Yes	No '
Remarks:					

roffle Description: (Describe to the	depth needed to document the indicator or	confirm the absence of indicators.)
Depth Matrix	Redox Features	
	Color (moist) % Type1	Loc <sup>2</sup> Texture Remarks
14 1042313		c-hli 4 co
······································		<del></del>
·		
	, RM=Reduced Matrix, CS=Covered or Coated	
	o all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1)	Sandy Redox (S5)	1 cm Muck (AB) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
_ 1 cm Muck (A8) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11		
_ Thick Dark Surface (A12)	Redox Depressions (F8)	3Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
_ Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
estrictive Layer (If present):		
Тура:	***************************************	
Depth (Inches):		
emarks:		Hydric Sail Present? Yes NoNo
		Hydric Soil Present? Yes No
emarks: //DROLOGY		Hydric Soil Present? Yes No
emarks:  /DROLOGY /etland Hydrology Indicators:		
emarks: //DROLOGY		Secondary Indicators (2 or mors required)
emarks: /DROLOGY /etland Hydrology Indicatora: rmary indicators (minimum of one rec		
POROLOGY  Fetland Hydrology Indicators:  finary indicators (minimum of one results)	ouired: check all that apply)	Secondary Indicators (2 or mors required)
POROLOGY  retand Hydrology Indicators: rimary Indicators (minimum of one red Surface Water (A1) High Water Table (A2)	nuired: check all that apoly) Seit Crust (811)	Secondary Indicators (2 or more required).  — Water Marks (B1) (Riverine)
POROLOGY  retand Hydrology Indicators: rimary Indicators (minimum of one red Surface Water (A1) High Water Table (A2)	nuired; check all that apply)  Selt Crust (B11)  Biotic Crust (B12)	Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine)
emarks:  /DROLOGY /etland Hydrology Indicatora: rimary indicators (minimum of one red — Surface Water (A1) — High Water Table (A2) — Saturation (A3) — Water Marks (B1) (Nonriverine)	quired; check all that spoly)  Selt Crust (B11) Bolto (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators. (2 or more required).  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10)
PROLOGY  fedland Hydrology Indicators: timary indicators (minimum of one rec Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver	cuired; check all that spoly)  Selt Crust (B11)  Biotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1) fine)  Oxidized Rhizospheres along Li	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  ving Roots (C3)  Dry-Season Water Table (C2)
POROLOGY  retand Hydrology Indicators: rimary Indicators (minimum of one rec Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrivarine) Sediment Deposits (B2) (Nonrivarine) Drift Deposits (B3) (Nonrivarine)	nuired: check all that apply)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)  — Water Marks (B1) (Riverine) — Sediment Deposits (B2) (Riverine) — Drift Deposits (B3) (Riverine) — Drainage Patterns (B10)  tiving Roots (C3) — Dry-Season Water Table (C2) — Crayfish Burrows (C8)
PROLOGY  retand Hydrology Indicators: rimary Indicators (minimum of one rec Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	cuired: check all that apply)  Selt Crust (B11)  Biotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Li  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled	Secondary Indicators. (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  ving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Soils (C6)  Saturation Visible on Aerial Imagery (C
emarks:  **TOROLOGY**  **Toron	guired: check all that apoly)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1) Ine) Oxidized Rhizospheres along Li  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled ry (B7) Thin Muck Surface (C7)	Secondary Indicators. (2 or mors required).  Water Marks. (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table. (C2)  Crayfish Burrows (C8)  Soils (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)
emarks:  //DROLOGY  /etland Hydrology Indicators: rimary Indicators (minimum of one res Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Images Under-Stained Leaves (B9)	cuired: check all that apply)  Selt Crust (B11)  Biotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Li  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C
emarks:  /DROLOGY  /etdand Hydrology Indicators: rimary Indicators (minimum of one rec - Surface Water (A1) - High Water Table (A2) - Seturation (A3) - Water Marks (B1) (Nonriverine) - Sediment Deposits (B2) (Nonriverine) - Drift Deposits (B3) (Nonriverine) - Surface Soil Cracks (B6) - Inundation Visible on Aerial Imagei - Water-Stalned Leaves (B9)	Self Crust (B11) Self Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Soils (C6)  Saturation Visible on Aerial imagery (C  Shallow Aquitard (D3)
emarks:  //DROLOGY  /estand Hydrology Indicators: //mary Indicators (minimum of one reconstruction (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Image:  Water-Steined Leaves (B9)  leid Observations:  urface Water Present?  Yes	puired: check all that apoly)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1) Ine) Oxidized Rhizospheres along Li  Presence of Reducted fron (C4)  Recent Iron Reduction in Tilled ry (B7)  Thin Muck Surface (C7)  Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Soils (C6)  Saturation Visible on Aerial imagery (C  Shallow Aquitard (D3)
PROLOGY  Vetland Hydrology Indicators: rimary Indicators (minimum of one recomplished by the control of the con	puired: check all that apoly)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1) Ine) Oxidized Rhizospheres along Li  Presence of Reducted Iron (C4)  Recent Iron Reduction in Tilled  ry (B7) Thin Muck Surface (C7)  Other (Explain in Remarks)  No Depth (Inches): No	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
emarks:  //DROLOGY //etland Hydrology Indicators: r/mary Indicators (minimum of one reconstruction)  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Surface Soil Cracks (B6) Inundation Visible on Aerial Images  Water-Stained Leaves (B9)  Islid Observations:  urface Water Present?  Yes  attertable Present?  Yes  attertable Present?  Yes	Self Crust (B11) Self Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled ry (B7) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solis (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
emarks:  //DROLOGY  /etland Hydrology Indicators: //mary Indicators (minimum of one rest Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagel Water-Stahed Leaves (B9) Ield Observations:  urface Water Present? // Yes	suired: check all that apply)  Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled ry (B7) Other (Explain in Remarks)  No Depth (Inches): No Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solis (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
emarks:  //DROLOGY  /etland Hydrology Indicators: //mary Indicators (minimum of one rest Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagel Water-Stahed Leaves (B9) Ield Observations:  urface Water Present? // Yes	puired: check all that apoly)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1) Ine) Oxidized Rhizospheres along Li  Presence of Reducted Iron (C4)  Recent Iron Reduction in Tilled  ry (B7) Thin Muck Surface (C7)  Other (Explain in Remarks)  No Depth (Inches): No	Secondary Indicators (2 or mors required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Soils (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
PROLOGY  Vetland Hydrology Indicators: rimary Indicators (minimum of one reconstruction of the construction  suired: check all that apply)  Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled ry (B7) Other (Explain in Remarks)  No Depth (Inches): No Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Solis (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No	
emarks:  //DROLOGY  /etland Hydrology Indicators: //mary Indicators (minimum of one rest Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagel Water-Stahed Leaves (B9) Ield Observations:  urface Water Present? // Yes	suired: check all that apply)  Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled ry (B7) Other (Explain in Remarks)  No Depth (Inches): No Depth (inches):	Secondary Indicators (2 or mors required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Soils (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
PROLOGY  Vetland Hydrology Indicators: rimary Indicators (minimum of one reconstruction of the construction  suired: check all that apply)  Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled ry (B7) Other (Explain in Remarks)  No Depth (Inches): No Depth (inches):	Secondary Indicators (2 or mors required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Iving Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Soils (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No	

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DP+10> 27

Arid West - Version 2.0

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Schult Applicant/Owner: Investigator(e): Ze Schul	City/County:	Kithitas	Sampling Date: 10 - 7 - 7	4
Applicant/Owner:		State: W	A Sampling Point: DP	¥20
investigator(s): 500 Scml	Section, Tow	mship, Range: 53	1 TIBN 214 =	
Landform (hitislope, terrace, etc.):				
Subregion (LRR):	Lat:	Long:	Datum:	
Soil Map Unit Name:		NWI cle	ssification:	
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 Circumstane	ces" present? Yes No	
Are Vegetation, Soil, or Hydrology	naturally problematic?	(if needed, explain any a	nswers in Remarks.)	
SUMMARY OF FINDINGS - Attach site n	nap showing sampling	point locations, trans	ects, important features, etc.	
Hydrophytic Vegetation Present? Yes	No	Sampled Area		
Hydric Soil Present? Yes	No -	*	Na	
Wetland Hydrology Present? Yes				
Remarks: agran zeed irrig.	Il push			
,				
L				
VEGETATION - Use scientific names of	plants.			
Tree Stratum (Plot size	Absolute Dominant % Cover Species?		worksheet:	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
se Stratum (Plot size:)	% Cover	Species?	Status	
				That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant Species Across All Strate: (B)
				Species Across All Strate:(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/E
pling/Shrub Stratum (Plot size:	,	* Total Cov	/er	That Are OBL, FACW, or FAC:(A/E
				Prevalence Index worksheet:
***************************************				Total % Cover of:Multiply by:
				OBL species x1=
				FACW species x2=
				FAC species x3 =
		Total Cov	/er	FACU species x4 =
rb Stratum (Plot size:)	44.3		EAC	UPL species x5 =
Them prin	<u> </u>		<u> </u>	Column Totals: (A) (B
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				Dominance Test is >50%
				Prevalence Index is ≤3.01
				Morphological Adaptations1 (Provide supporting
				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation1 (Explain)
pody Vine Stratum (Plot size:)		- 1 DOM 1001	-	
(100				Indicators of hydric soil and wettend hydrology must
				be present, unless disturbed or preblematic.
······································		Total C-		Hydrophytic
				Vegetation
Bare Ground in Herb Stratum	& Cover of Biotic Cr.	ıst		Present? Yes No
marks:				<del></del>

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OIL.		Sampling Point
roffie Description: (Describe to the d	epth needed to document the indicator or o	onfirm the absence of indicators.)
Depth Matrix	Redox Features	
nches) Golor (moist) %	Color (maist) % Type L	oc Texture Remarks
14 /04h3/3		Coloby kin
	· ·········· ······ ······ ····· ···	·
		the same and the s
	-	
tere: CaConcentration DaDenietion D	M=Reduced Matrix, CS=Covered or Costed S	and Grains. *Location: PL=Pore Lining, M=Metrix.
ydric Soil Indicators: (Applicable to		Indicators for Problematic Hydric Soils1:
Histosoi (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A8) (LRR D)	Redox Dark Surface (F6)	
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>1</sup> Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
_ Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
estrictive Leyer (if present):		
Туре:		
Depth (Inches):		Hydric Soil Present? Yes No
lemarks:		······································
VDDOLOGV		
'DROLOGY 'etland Hydrology Indicators:	the state of the s	
· -•	كالماسية المسام والمنافعة المسامة المسامة والمسام والمسام	Marriago la Marriago 19 agressa de 19
imery indicators (minimum of one requi		Secondary indicators (2 or more recuired)
_ Surface Water (A1)	Selt Crust (B11)	Water Marks (B1) (Riverine)
_ High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
_ Seturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
_ Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
_ Sediment Deposits (B2) (Nonriverina	. —	
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
_ Surface Soil Crecks (B8)	Recent Iron Reduction in Tilled Sc	
_ Inundation Visible on Aerial Imagery		Shallow Aquitand (D3)
_ Water-Steined Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
eld Observations:		
urface Water Present? Yes	No	
/ater Table Present? Yes	No Depth (Inches):	
aturation Present? Yes	No Depth (Inches):	Wetland Hydrology Present? Yes No
ncludes capillary fringe)		
escribe Recorded Data (stream gauge,	monitoring well, aerial photos, previous inspec	tions), if available:
emarks:		

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12 From in ditch

oject/Site:	<u> </u>		11-5 Sampling Date:	
plicant/Owner:	<del>, , , , , , , , , , , , , , , , , , , </del>		State: WA Sampling Point:	
estigator(s):	<u>semell</u>	_ Section, Township, Range	532 TIBNE	19 =
ndform (hillslope, terrace, etc.); _		_ Local relief (conceve, con	vex, none);Stope	9 (%):
bregion (LRR):	Lat:	L	ong: Datum	:
il Map Unit Name:			NWI classification:	
climatic / hydrologic conditions	on the site typical for this time of y	year? YesNo	(If no, explain in Remarks.)	
Vegetation, Soil	, or Hydrologysignificent	ly disturbed? Are "No	rmal Circumstances" present? Yes	No
Vegetation Soil	, or Hydrology naturally p	roblematic? (If needs	ed, explain any answers in Remarks.)	
IMMARY OF FINDINGS -			ations, transects, important fea	tures, etc
ydrophytic Vegetation Present?	YesNo			
ydric Soil Present?	Yes No	Is the Sampled An		
/etland Hydrology Present?	Yes No -	within a Wetland?	Yes No	
	l irregulat p	) de 5 hour		
GETATION – Use scient				
ree Stratum (Piot size:		m Charling Chatter	ominance Test worksheet:	>
			lumber of Dominant Species hat Are OBL, FACW, or FAC:	(A)
		-		•
			otal Number of Dominant Species Agross All Strate:	(B)
			1	)
apling/Shrub Stratum (Plot size		= Total Cover T	ercent of Dominant Species hat Are OBL, FACW, or FAC:	(A/B)
·		P	revalence index worksheet:	
			Total % Cover of: Multiply	
			BL species x1 =	
	·····		ACW species x2 =	
· <del></del>			AC species x3 = ACU species x4 =	
erb Stratum (Plot size:	. )		PL species x5 =	
Festuren	- an und ven 50		Column Totals: (A)	
	returned 50		(A)	(0)
			Prevalence Index = B/A =	
			ydrognytic Vegetation Indicators:	
·			Dominance Test is >50%	
	<del></del>	-	Prevalence Index is ≤3.01	
		-	Morphological Adaptations <sup>1</sup> (Provide s date in Remarks or on a separate s	Upporting heat)
			Problematic Hydrophytic Vegetation <sup>1</sup> (	
Voody Vine Stratum (Plot size:	,	= Total Cover		,,,,,,
•			indicators of hydric soil and wetland hydro a present, unless disturbed or problematic	
·	<del></del>	= Total Cover H	hydrophytic	
			egetation	,
	% Cover of Blotic	Crust P	resent? Yes No	
lemarks:				

SOIL							Sa	mpling Point	
Profile Description: (Des	cribe to the depth ne	eded to docume	ent the ind	leutor or co	onfirm the al	bsence	of Indicator	re.)	
	atrix	Redox	Features						
(inches) Color (mol	st) % Co					dure	<del></del>	Remarks	
16 1043	12-	Comme.	mel	A11		Say	4, 4	1	
	•						1		
15 5.0									
<sup>1</sup> Type: C=Concentration, C Hydric Soll Indicators: (A								Pora Lining, Minate Hydric S	
	delication to an circus			.,				-	ONE.
Histosol (A1) Histosol (A2)		_ Sandy Redox Stripped Matri					uck (AB) (Li		
Black Histic (A3)	_	_ Seripped Maur _ Loamy Mucky		E41			uck (A16) (f d Vertic (F1		
Hydrogen Suifide (A4)	_	_ Loamy Steven			_		rent Materia		
Stratified Layers (A5) (	LRR C)	Depleted Mat		-,	-		Explain in R		
1 cm Muck (AS) (LRR		Redox Dark S		i)			•		
Depleted Below Dark 8	Surface (A11)	_ Depleted Dari	k Surface (	F7)					
Thick Dark Surface (At		_ Redox Depres		)	<sup>5</sup> ind	iicatora (	af hydrophyl	ic vegetation a	and
Sandy Mucky Mineral (		Vernal Pools (	(F9)					ust be present	•
Sendy Gleyed Metrix (					<u>u</u>	miess di	sturbed or p	roblematic.	
Restrictive Leyer (if prese	ent):				ŀ			_	
Туре:					1				
Depth (Inches):					Hydi	ric Soll I	Present?	Yes	No
HYDROLOGY		·	· · · · · · · · · · · · · · · · · · ·						·
Wetland Hydrology Indica	dore.				······				
Primary indicators (minimus		ale with the second column				C	dami imaliant	ors (2 or more	
Surface Water (A1)	II OI UNE IOUDIEU, DIE								
High Water Table (A2)	-	Selt Crust (8 Blotic Crust (	•					(B1) (Riverine xosits (B2) (Riv	•
Seturation (A3)	•	Stout Crust		B+9)				(B3) <b>(Riverin</b> :	
Water Marks (B1) (Nor	udverbee)	Hydrogen St					ainage Patti		•)
Sediment Deposits (B2		Oxidized Rhi			a Roots (C3)	_	-		2)
Orift Deposits (B3) (No		Presence of		-	S Lenges (cra)		ayfish Bumo		••
Surface Soil Cracks (B		Recent Iron			le (CS)			ible on Aerial I	menery (CB)
Inundation Visible on A	,	Thin Muck S			10 (00)		allow Aquit		manan (Ca)
Water-Stained Leaves		Other (Expla					C-Neutral 1		
Field Observations:	(00)			*****				- CO (LIC)	
Surface Water Present?	Yes No	Derth (mrh.	est	1					
Water Table Present?	Yes No	Defth (Inch	). 						
Saturation Present?	Yes No _=				MI-M 3 11.		D	V	w
(includes capillary fringe)	168 140	nebu (wa:	esr:		Wetland Hy	arology	Present	749	MO
Describe Recorded Data (s	tream gauge, monitorir	ig well, aerial ph	otos, previ	ous inspect	ons), if evails	able:			
Remarks:									
	Satur	h -	+ _	- 10	11				
				18					

roject/site: Schul	<b>†</b>	City/	County:	(i)titus	Sampling Date: 10-7-7
plicant/Owner:				State: WA	Sampling Point: DP#
	could	Sect	lon. Township. R	lange: S31	T18N 214 =
endform (hilfslope, terrace, etc.):					
					Datum:
oil Map Unit Name:				NWI dessific	
re climatic / hydrologic conditions on			مالأسميا ميي		
re Vegetation, Soil, or				"Normal Circumstances" p	present? Yes No.
re Vegetation, Soil, or				s Normal Circumstances"; needed, explain any answe	PESSERIC TES NO
UMMARY OF FINDINGS - /	• • • • • • • • • • • • • • • • • • • •	• •	•	• • •	•
Hydrophytic Vegetation Present?	Yes No			-4 4	
Hydric Soil Present?	Yes No _		Is the Sample within a Weti		No
Wetland Hydrology Present?	Yes No _		ANDREA AAGO	and 198	
ej ren zwel EGETATION – Use scientifi				-	
			minant Indicator		sheet:
Tree Stratum (Plot size:		Cover Spi	ecies? Status	I LANGUAGIO ON THOUSANDERS OF	
				_ That Are OBL, FACW,	or FAC: (A)
). ).				Total Number of Domin	
·				Species Across All Stra	ka:(B)
Sapling/Shrub Stratum (Plot size:		= Tı	otal Cover	Percent of Dominant S That Are OBL, FACW,	
				Prevalence Index wor	ksheet:
2				Total % Cover of:	Multiply by:
3				OBL species	x1=
k				FACW species	x2=
i				- 1	×3=
lerb Stratum (Plot size:		= T(	otal Cover		x4=
FISTURE -	The s	100	Fire	UPL species	
				Column Totals:	(A) (B)
).				Prevalence index	= B/A =
k				Hydrophytic Vegetation	on Indicators:
				eominance Test is	>50%
3				Prevalence Index i	
!. <u> </u>					ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
3				1	phytic Vegetation (Explain)
Woody Vine Stratum (Plot size:	, -	= To	otal Cover	· rowariant right	project regulations (majorate)
1				Indicators of hydric sol	Il and welland hydrology must
_				be present, unless dist	
		= T	otal Cover	Hydrophytic	
% Bare Ground in Herb Stratum	% Cover of	Blotic Crust		Vegetation Present? Ye	s / Na /
Remarks:					
S Army Corps of Engineers					Arid West - Version 2.0

SOIL			Sampling Point
Profile Desci	ription: (Describe to the dept	h needed to document the indicator or o	confirm the absence of Indicators.)
Depth	Matrix	Redox Features	
(inches)	Color (moist) %	Color (maist) % Type 1	oc Texture Remarks
16	104N 3/3		cubbles 1 mm
	*		,
	<del></del>		
			The state of the s
		Reduced Matrix, CS=Covered or Costed S .RRs, unless otherwise noted.)	
		•	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (	(A1) loedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Black His	, , ,	Supposition (Se)	Reduced Vertic (F18)
	n Suffide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
	Leyers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remerks)
	ok (A6) (LRR D)	Redox Dark Surface (F6)	
	Below Dark Surface (A11)	Depleted Dark Surface (F7)	
	rk Surface (A12)	Redox Depressions (F8)	<sup>1</sup> Indicators of hydrophytic vegetation and
	ucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
	leyed Metrix (S4)		unless disturbed or problematic.
	eyer (If present):		
Тура:		The state of the s	
Depth (Inc.	hes):	<del></del>	Hydric Soli Present? Yes No No
HYDROLOG	3Y		
	rology Indicators:		
•	ators (minimum of one required:	chark all that anniu)	Secondary indicators (2 or more required)
	Mater (A1)		
	rvater (A1) ter Table (A2)	Selt Crust (B11)	Water Marks (B1) (Riverine)
Saturatio		Blotic Crust (B12) Aquatic Invertebrates (B13)	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
	n (A3) prks (81) (Nonriverine)	Aquatic invertebrates (S13) Hydrogen Sulfide Odor (C1)	Drainage Patterns (810)
	t Deposits (B2) (Nenriverine)	Oxidized Rhizospheres along Livi	
	osits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
	Soil Cracks (B6)	Recent Iron Reduction in Tilled St	<del></del>
	n Visible on Aerial Imagery (B?		Shallow Aquitant (D3)
	sined Leaves (89)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observ			
Surface Wate		lo Depth (Inches):	
Water Table I		lo Dispth (Inches):	
Saturation Pro		lo Depth (Inches):	Wetland Hydrology Present? Yes No
(includes capi		Leper (mones):	Wetland Hydrology Present? Yes No
		nitoring well, serial photos, previous inspec	tions), if available:
Remarks:			
			l l

# WETLAND DETERMINATION DATA FORM - Arid West Region \_\_\_\_ Sampling Date: 10-7-21 State: WA Sampling Point: DP#30 Applicant/Owner: Section, Township, Range: S32 TIBN R145 Landform (hillstope, terrace, etc.): Local relief (conceve, convex, none): \_\_\_\_\_ Slope (%): \_\_\_\_ Subregion (LRR): \_\_ Long: \_\_ 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, expisin 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? VEGETATION - Lise scientific names of plants

	Absolute			Dominance Test worksh	oet:	
ree Stratum (Plot size:)		Species?		Number of Dominant Spe That Are OBL, FACW, or		_ (A)
				Total Number of Dominar Species Across Ali Strata		_ (B)
pling/Shrub Stratum (Plot size;)		= Total Cove	r	Percent of Dominant Sper That Are OBL, FACW, or		(A/E
waste and the second				Prevalence Index works	heet:	
				Total % Cover of:	Multiply by:	_
			1	OBL species	x1=	
				FACW species	x2=	
				FAC species	x3=	
		e Total Cave	, T	FACU species		-
rb Stratum (Plot size:)	F- 1 (		Car	UPL species	x5*	
Cysium orceny	- 42		FA (	Column Totals:	(A)	(8
				Prevalence Index =	B/A =	
				Hydrophytic Vegetation	indicators:	
				Cominance Test is >!	50%	
				Prevalence Index is s	3.0¹	
				Morphological Adapta		orting
		= Total Cove	r	Problematic Hydroph	ytic Vagetation <sup>†</sup> (Expl	ain)
gody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil a be present, unless disturt	nd wetland hydrology ed or problematic	must
		≂ Total Cove		Hydrophytic Vegetation	/	,
Bare Ground in Herb Stratum % Cover	OF BIORIC C			Present? Yes	No	
lemarks:						

		epth needed to document the indicator or o	
roma Desc	ription: (Describe to the de	share needed to openwieur are sudicetor or o	CONTRIBUTE REPRESENT OF MILITERIQUE.
Depth	Matrix	Redox Features	
inches)	Color (moist) %	Color (maist) % Type 1	oc <sup>2</sup> Tendure Remarks
14	10413/2		5 dy h
	,		
<del></del>			
voe: C=Co	excentration, D=Depletion, RI	M=Reduced Matrix, CS=Covered or Costed S	and Grains. *Location: PL=Pore Lining, M=Metrix.
		II LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>1</sup> :
_ Histosol	(A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
- ,	ipedon (A2)	Stripped Matrix (S8)	2 cm Muck (A10) (LRR B)
_ Black His		Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
	n Sulfide (A4)	Loamy Gleyed Metrix (F2)	Red Parent Material (TF2)
	Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
	ck (A9) (LRR D) I Below Dark Surface (A11)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	
	rk Surface (A12)	Redox Depressions (F8)	Indicators of hydrophytic vegetation and
	ucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present.
	leyed Metrix (S4)		unless disturbed or problematic.
	eyer (if present):		
Type:			
			Hydric Soil Present? Yes Ne
Type: Depth (inc			Hydric Soil Present? Yes No
Type: Depth (inc emarks:	hes):		Hydric Soil Present? Yes No
Type:	GY  Irology Indicators:		
Type:	GY  Irology Indicatora: ators (minimum of one reguli		Secondary Indicators (2 or more resuired)
Type:	GY  Frology Indicators:  ators (minimum of one require Water (A1)	Selt Crust (B11)	Secondary Indicators (2 or more resulted)
Type:	GY  Irology Indicatora: ators (minimum of one require Water (A1) ter Table (A2)	Selt Crust (B11) Blotic Crust (B12)	Secondary Indicators (2 or more resuired)
Type:	GY  Irology Indicators: ators (minimum of one require Water (A1) ter Table (A2) in (A3)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebretes (B13)	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Type:	GY irology indicatora: ators (minimum of one requir Water (A1) ter Table (A2) in (A3) arks (B1) (Noordverine)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebretes (B13) Hydrogen Suifide Odor (C1)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sedmucologis (B3) (Riverine)  Drainage Patterns (B10)
Type:	GY  frology indicators: ators (minimum of one requit Water (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrets (B13) Hydrogen Sulfide Odor (C1) Oddized Rhizospheres along Livi	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Depoelts (B2) (Riverine)  Drift Depoelts (B3) (Riverine)  Drahage Patterns (B10)  ing Roots (C3)  Dry-Season Water Table (C2)
Type:	GY Irology Indicators: ators (minimum of one require Water (A1) ter Table (A2) in (A3) to (A3) to (A3) to (A3) (Contiverine) to (A3) (Nonriverine) ooits (B3) (Nonriverine)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebretes (B13) Hydrogen Sulfide Odor (C1) Odd/zed Rhizospheres along Livi Presence of Reduced Iron (C4)	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahege Patterns (B10)  ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
Type: Depth (Inc emerks:  'DROLO' letland Hyc imary Indio High Wa Seturatio Water M Sedimen Drift Dep	GY  Irology Indicators: stors (minimum of one requirement of the Table (A2) on (A3) erks (B1) (Nonriverine) or obsessits (B2) (Nonriverine) Soil Cracks (B6)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebretes (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drahage Patterns (B10) Ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Oils (C6) Saturation Visible on Aerial Imagery (C
Type: Depth (Incemerks:  "DROLO: etland Hyc imary India High Wa Seturatio Water M. Sedimen Drift Dep Surface Inundatic	GY irology Indicatora: ators (minimum of one requir Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) soits (B3) (Nonriverine) Soil Cracks (B6) in Visible on Aerial Imagery (	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Oils (C6)  Saturation Visible on Aerial Imagery (C6)  Shallow Aquiterd (D3)
Type: Depth (Incemerks:  DROLOI Dettined Hydinary Indio Surface I High Wa Sedimen Drift Dep Surface I Inundate Water-St	GY  Irology Indicators:  ators (minimum of one requit Water (A1)  ter Table (A2)  n (A3)  arks (B1) (Nonriverine)  t Deposits (B2) (Nonriverine)  soits (B3) (Monriverine)  soit (B3) (Monriverine)  soit (B3) (Monriverine)  soit (B3) (Monriverine)  soit (B3) (Monriverine)  soit (B3) (Monriverine)  soit (B3) (Monriverine)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebretes (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drahage Patterns (B10) Ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Oils (C6) Saturation Visible on Aerial Imagery (C
Type: Depth (Incemerks:  DROLOI etland Hyd imary India Surface High Wa Seburatio Drift Dep Surface Inundatio Water Mac	GY  Irology Indicators: attors (minimum of one require water (A1) in (A3) arks (B2) (Nonriverine) soits (B3) (Monriverine) Soil Cracks (B6) in Visible on Aerial Imagery ( elited Leaves (B9)	Selt Crust (B11)  Blotic Crust (B12)  Aquetic Invertebretes (B13)  Hydrogen Suffice Odor (C1)  Oddized Rhizospheres slong Livi  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled St  Thin Muck Surface (C7)  Other/(Explain in Remarks)	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Oils (C6)  Saturation Visible on Aerial Imagery (G
Type: Depth (Incemerks:  "DROLOI lettand Hydermary India Surface High Was Sedimen Sedimen Surface Inundati Water M Water-Silet Observator Water M W Water M W Water M Water M W Water M W Water M W Water M W Water M W W W W W W W W W W W W W W W W W W W	irology Indicatora: abors (minimum of one require Water (A1) ter Table (A2) on (A3) orks (B1) (Nonriverine) soits (B3) (Nonriverine) soits (B3) (Monriverine) soit Cracks (B6) on Visible on Aerial Imagery ( selind Leaves (B9) retions:	Selt Crust (B11)  Blotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livi  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled Si  Thin Muck Surface (C7)  Othey (Exptain in Remarks)	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Oils (C6)  Saturation Visible on Aerial Imagery (C6)  Shallow Aquiterd (D3)
Type: Depth (Inc emarks:  "DROLO! letland Hyc imary India Surface   High Wa Sedimen Sedimen Drift Dep Surface   Inundatic Inundatic Water-St eld Obsern urface Water Table	GY  Irology Indicatora: ators (minimum of one requir Mater (A1) ter Table (A2) in (A3) ariss (B1) (Nonriverine) Soil Cracks (B6) in Visible on Aerial Imagery ( strict (B8) in Visible on Aerial Imag	Selt Crust (B11)  Blotic Crust (B12)  Aquetic Invertebretes (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livi  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled Si  Thin Muck Surface (C7)  Othey (Exptein in Remarks)  No  Depth (Inches):	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drahage Patterns (B10) Ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Oils (C6) Saturation Visible on Aerial Inegery (C) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Depth (Incemerks:  DROLOI etland Hyc imary Indio Surface   High Wa Seturatio Water M. Sedimen Drift Dep Surface   Inundatic Water-St eld Obserurface Water atter Table   sturration Prickudes cape	GY  Irology Indicatora: ators (minimum of one requirements) Nater (A1) ter Table (A2) in (A3) erks (B1) (Nonriverire) soil Cracks (B6) in Visible on Aerial Imagery ( shred Leaves (B9) retrosert? Yes Present? Yes esent? Yes [Hery fringe]	Selt Crust (B11)  Blotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livi  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled Si  Thin Muck Surface (C7)  Othey (Exptain in Remarks)	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Oils (C6)  Saturation Visible on Aerial Inegery (C6)  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yee  No
Type: Depth (Inc Depth (Inc Demrks:   /DROLOf fetland Hyc Imary India Surface High Wa Seturation Water M Sedimen Drift Dep Surface Inundatic Water-Si Indid Observ Urface Water fater Table aturation Princludes opp	GY  Irology Indicatora: ators (minimum of one requirements) Nater (A1) ter Table (A2) in (A3) erks (B1) (Nonriverire) soil Cracks (B6) in Visible on Aerial Imagery ( shred Leaves (B9) retrosert? Yes Present? Yes esent? Yes [Hery fringe]	Selt Crust (B11)  Blotic Crust (B12)  Aquetic Invertebretes (B13)  Hydrogen Suffice Odor (C1)  Oddized Rhizospheres slong Livi  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled St  Thin Muck Surface (C7)  Othey (Explain in Remarks)  No  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Oils (C6)  Saturation Visible on Asrial Imagery (C  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yee  No
Type: Depth (Inc.	GY  Irology Indicatora: ators (minimum of one requirements) Nater (A1) ter Table (A2) in (A3) erks (B1) (Nonriverire) soil Cracks (B6) in Visible on Aerial Imagery ( shred Leaves (B9) retrosert? Yes Present? Yes esent? Yes [Hery fringe]	Selt Crust (B11)  Blotic Crust (B12)  Aquetic Invertebretes (B13)  Hydrogen Suffice Odor (C1)  Oddized Rhizospheres slong Livi  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled St  Thin Muck Surface (C7)  Othey (Explain in Remarks)  No  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Ing Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Oils (C6)  Saturation Visible on Aerial Inegery (C6)  Shallow Aquiterd (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yee  No

#### WETLAND DETERMINATION DATA FORM - Arid West Region Kithitas Project/Site: State: WA Sampling Point: DP#3/ Applicant/Owner: Section, Township, Range: 531 TIBN 2195 investigator(s): Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%): \_\_\_ Subregion (LRR): Lang: Soil Map Unit Name: \_\_\_ NWI 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 shawing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soll Present? within a Wetland? Wetland Hydrology Present? irrigated pasher VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: % Cover , Species? Status Number of Dominant Species That Are OSL, FACW, or FAC: 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 = \_\_ FACU species \_\_\_\_\_ = Total Cover Herb Stratum (Plot size: \_ FAC UPL species \_\_\_\_ Festure an Column Totals: \_\_\_\_ Prevalence index = B/A = Hydrophytic Vegetation indicators: Dominance Test is >50% Prevalence Index is ≤3.01 \_\_ Morphological Adaptations1 (Provide supporting date in Remarks or on a separate sheat) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) \_ = Total Cover Woody Vine Stratum (Plot size: Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic \_ = Total Cover Vegetation Present?

% Cover of Biotic Crust

Yes

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Off.						Sampling Point;
rofile Descr	ption: (Describe t	o the depth	needed to document the indic	ator or confirm	the absence of	Indicators.)
epth	Matrix	•	Redox Features			ŕ
noties)	Color (moist)	_%	Color (maist) % Ty	Coc Loc	Texture	Remarks
1/2	10431	Z			9 melto	سيسفت
-						
		<del></del>				
mar CaCor	centration DeDonie	etion DM=Da	duced Matrix. CS=Covered or 0	Costed Sand Gr	sine 4 ocat	ion: PL=Pore Lining, M=Metrix.
			Rs, unless otherwise noted.)	JOSEPH CENTO CO		r Problematic Hydric Soils*:
Histosol (			Sandy Redox (S5)			ck (A9) (LRR C)
	pedon (A2)		Stripped Matrix (S8)			ck (A10) (LRR B)
Black His			Loamy Mucky Mineral (F1	<b>`</b>		Vertic (F18)
	Sulfide (A4)		Loamy Gleyed Matrix (F2)			unt Material (TF2)
	Layers (A5) (LRR C	1	Depleted Matrix (F3)	•		oplain in Remarks)
	k (AS) (LRR D)	,	Redox Dark Surface (F6)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Below Dark Surface	(A11)	Depleted Dark Surface (F)	71		
	k Surface (A12)	,	Redox Depressions (F8)	•	<sup>1</sup> Indicators of	hydrophytic vegetation and
	icky Mineral (S1)		Vernal Pools (F9)		wetland hy	drology must be present,
Sendy Gla	eyed Metrix (S4)				unless dist	urbed or problematic.
strictive La	yer (if present):			······································	T	
Тура:			_			
Depth (Inch	nes't		_		Hydric Soll Pr	resent? Yes No
DROLOG		-1	·····			4. 12.14 * 115.4
	ology Indicators:					
	tors (minimum of on	e required; c				ry Indicators (2 or more required)
Surface V	fater (A1)		Seit Crust (B11)			er Marks (B1) (Riverine)
High Wate	er Table (A2)		Biotic Crust (B12)		Sed	lment Deposits (B2) (Riverine)
Saturation	(A3)		Aquatic Invertabrates (B1	13)	Drift	Deposits (E3) (Riverine)
Water Ma	rks (81) (Monriverir	1 <b>e</b> )	Hydrogen Sulfide Odor (i	C1)	Drei	nege Patterns (B10)
Sediment	Daposits (B2) (Non	riverine)	Oxidized Rhizospheres a	dong Living Roc	ts (C3) Dry-	Season Water Table (C2)
Drift Depo	sits (B3) (Nonriveri	ne)	Presence of Reduced Iro	n (C4)	Cray	yfish Burrows (C8)
Surface 9	oii Cracks (86)		Recent Iron Reduction in	Titled Soils (C6	i) Satu	ration Visible on Aerial Imagery (C
Inundation	n Visible on Aerial In	nagery (B7)	Thin Muck Surface (C7)		Sha	llow Aquitard (D3)
Water-Sta	ined Leaves (B9)		Other (Explain in Remark	cs)	FAC	-Neutral Test (D5)
d Observ	itions:					
face Water	Present? Ye	sNo	Depth (Inches):			
ter Table P		s No				
turation Pre		s No			and Hydrology F	
turation Pre cludes capil		NO	Depar (arcries):	4190	mie ichototoda i	
		auge, monit	oring well, serial photos, previou	is inspections),	if available:	
	•	. <del>-</del>		•		
merks:						
HOUSE PLAN						

Remarks:

% Bare Ground in Herb Stratum \_

wit A

#### WETLAND DETERMINATION DATA FORM - Arid West Region

ect/Site:				ny/County:				npling Paint: _	
iticant/Owner: estigator(s):	20	Same	7		matrix Dana	SIBLE: _	· 引1 7	TIPUNG POINT: _	14 =
		<u> </u>	•		-				
	- •								
			Lett		٠ ١			Datum	·
Map Unit Name					17		VI classification		
		s on the site typical fo					oplain in Rema		/
		_, or Hydrology					stances" prese		∠ No
-		, or Hydrology	-			-	any answers in	· ·	
MMARY OF	FINDINGS	- Attach site m		sampling	point loc	ations, tr	ansects, in	portant fea	tures, etc.
ydrophytic Veget	ation Present	? Yas	No		Sampled A				
rdric Soil Presen	t7	Yes	No	1	n a Wetlend?		Yes	No.	
atland Hydrology	Present?	Yes Z	_ No	-	II & WOULING			NO	
	rec Zas		LL p-	. 5/		w			,
GEIAIION -	- USG SCIES	ntific names of p		Dominant	Indicator 1 F	laminana.	Test workshe		
se Stratum (Plo	rt size:	)		Species?			ominant Speci		
							., FACW, or F	آد:	(A)
						Cotal Number	r of Dominant	****	,
					i		es Ali Streta:		(B)
					<sub>F</sub>	Percent of Do	aminant Specie	M / .	
ding/Shruh Stra	utum (Pinteis	:0:)	, , , , , , , , , , , , , , , , , , ,	= Total Cov			, FACW, or F	AC: / 6	(A/B)
					-	revalence i	ndex worksh	et:	
						Total % (	Cover of:	Multiply	by:
								_ x1=	
								_ x2=	
								_ x3=	
rb Stratum (Pic				= Total Cov				_ x4=	
E SUBOUN FOR	Shen	auchana	. <b>&amp;</b> O	,				_ x5*	
		AFFE			thing	Column Total	s:	_ (A)	(B)
				·		Pravalg	nce Index = E	/A ≈	
							Vegetation in		
						Dominan	ice Test is >50	%	
					-		ce Index is ≤3		
						Morphole	ogical Adaptati	ons¹ (Provide s on a separate :	upporting
								on a separate : Ic Vegetation 1	
adu Maa Greek	na (Otat el	:		= Total Cov	rer -	CIUCIONIII	and myuruphlyt	r +añarang;	
ody Vine Stratu					,	Indicators of	hydric soil and	d wetland bytin	loav must
								d or problemati	
	·	· <del>-</del> ···································		= Total Cov	/er   t	fydrophytic		/	
Bass Charms In	Llaub Ctant	<b></b>			1	egetation	_		,
Bare Ground in imarks:	ment Stratum		Liover of Blotic Ci	V81		Present?	Y#5	No	
iiidi ko.									1

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SOIL.			Sampling Point:
Profile Des	cription: (Describe to the dept	h needed to document the indicator or c	onfirm the absence of indicators.)
Depth	Matrix	Redox Features	
(inches)	Color (moist) %	Color (maist) % Type L	oc <sup>2</sup> Texture Remarks
16	10 n 3/2	cnd_	
		Reduced Matrix, CS=Covered or Costed Si	
iydric Soll	indicators: (Applicable to all L	.RRs, unless otherwise noted.)	indicators for Problematic Hydric Solls <sup>1</sup> :
Histosoi		Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
	pipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
	istic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
	d Layers (A5) (LRR C) uck (A9) (LRR D)	Depleted Matrix (F3) Redox Dark Surface (F6)	Other (Explain in Remarks)
	d Below Dark Surface (A11)	Depleted Dark Surface (F7)	
	ark Surface (A12)	Redox Depressions (F6)	Indicators of hydrophytic vegetation and
	Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present.
	Sleved Metrix (S4)		unises disturbed or problematic.
	Leyer (If present):		
Турв:			
Depth (In	chest		Hydric Soli Present? Yes No
YDROLO	GY		
-	drology indicators:		
	cators (minimum of one required:	check all that apply)	Secondary indicators (2 or more required)
Surface	Water (A1)	Selt Crust (B11)	Water Marks (B1) (Riverine)
High W	eter Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturati	on (A3)	Aquatic Invertabrates (B13)	Drift Deposits (B3) (Riverine)
Water N	larks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sedime	nt Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Dry-Season Water Table (C2)
Drift De	posits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface	Soil Cracks (B6)	Recent Iron Reduction in Tilled So	ils (C6) Saturation Visible on Aerial Imagery (C9
Inundati	ion Visible on Aerial imagery (B7)	) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-8	Steined Leaves (69)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Fleid Obser	vations:	,	
Surface Wel	ter Present? Yes N	loDepth (Inches):	
Water Table	Present? YesN	lo Depth (inches):	
Saturation P	resent? YesN	io Depth (Inches):	Wetland Hydrology Present? Yes No
	pillery fringe)		
Describe Re	corded Lieta (stream gauge, mor	nitoring well, serial photos, previous inspec	ions), if available:
,			
Remarks:			

wet A

Arid West - Version 2.0

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Schmilt	City/County: K	. ++ ++5 Sampling Date: 10-7-21
Applicant/Owner:		State: WA Sampling Point: DANG
		inge: 532 TIBN 2195
Landform (hillstope, terrace, etc.):	•	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 UNO	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" present? YesNo
re Vegetation Soil or Hydrology		eeded, explain any answers in Remarks.)
		ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	Au	
Hydric Soil Present? Yes	No la the Sampled	
Wetland Hydrology Present? Yes	No la the Sampled within a Wedan	nd? Yes No
	and pashe	
EGETATION - Use scientific names of	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stretum (Plot size:) 1.	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2		Total Number of Dominant
).		Species Across All Strate: (B)
4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
1	J	Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
		OBL species x1 =
		FACW species x 2 =
}		FAC species x3=
Herb Stratum (Plot size:	= Total Cover	FACU species x4=
Phalans and	man 8U FALL	UPL species x5 =
Tuche Intend	763 634	Column Totals:(A)(B)
, 7		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
5.		Dominance Test is >50%
		Prevalence Index is ≤3.01
7.		Morphological Adaptations¹ (Provide supporting date in Remarks or on a separate sheet)
3		Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover	The state of the s
1		Indicators of hydric soil and welland hydrology must
2.		be present, unless disturbed or problematic.
	= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum %		Vegetation Present? YesNo
Remarks:	P GOLDI DI DIONO PARA	rreserve 145 NG
Nguana.		

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SOIL		Sampling Point:	
Profits Description: (Describe to the de	pth needed to document the indicator or c	onfirm the absence of indicators.)	
Depth Matrix	Redox Features		
(inches) Color (moist) %	Golor (maist) % Type L	oc <sup>2</sup> Texture Remarks	
14 1010312	<u> </u>	- Soly an	
	-		
<sup>1</sup> Type: C*Concentration, D=Depletion, Rf	M=Reduced Matrix, CS=Covered or Costed S	and Grains. *Location: PL=Pore Lining, Me	-Metrix.
Hydric Soil Indicators: (Applicable to a	II LRRs, unless otherwise nated.)	Indicators for Problematic Hydric S	olls":
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)	
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)	
Hydragen Sulfide (A4)	Loamy Glayed Matrix (F2)	Red Parent Material (TF2)	
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)	
1 cm Muck (AS) (LRR D)	(Redox Dark Surface (F6)	,	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)	Indicators of hydrophytic vegetation a	and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present	
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.	•
Restrictive Leyer (if present):			
Type:		1	/
*		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>-</b>
Depth (Inches):		Hydric Soil Present? Yes	No
			·
IYDROLOGY			
Wetland Hydrology Indicators:			
Primary indicators (minimum of one require	ad; chack all that apply)	Secondary indicators (2 or more	required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)	)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riv	rerina)
Saturation (A3)	Aquatic Invertabrates (B13)	Drift Deposits (B3) (Rivering	
Water Marks (B1) (Nonriverine)	Hydrogen Suffide Odor (C1)	Oralnage Patterns (B10)	•
Sediment Deposits (B2) (Nonriverina		ng Roots (C3) Dry-Season Water Table (C)	9)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced fron (C4)	Crayfish Burrows (C6)	-,
Surface Soil Cracks (B6)			
	Recent from Reduction in Tilled Sc		magery (C9)
Inundation Visible on Aerial Imagery (		Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)	
Field Observations:	,		
Surface Water Present? Yes	NoDepth (Inches):		
Water Table Present? Yes	No Depth (inches):		/
Saturation Present? Yes	No Depth (Inches):	Wetland Hydrology Present? Yes	No
(includes capitary fringe)	Tebal (mones):	Predami rydrology Present r Tel	TO
	nonitoring well, serial photos, previous inspec	tions), if available:	
Remarks:			

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Arid West - Version 2.0

			:RMINA IT		VI - Arid West Re	•	
ject/Site:	Schust	<u>.t</u>		City/County:	sittitus	Sampling Date:	10-7-
icant/Owner:						A Sempling Point: _	
stigator(s):	200 8	semell		Section, Township,	Range: S	BLTIBNE	14 E
dform (hillslope, ter	mace, etc.):			Local reliaf (concav	e, convex, none):	Slope	e (%):
region (LRR):			Lat:		Long:	Datum	:
Map Unit Name:	· · · · · · · · · · · · · · · · · · ·				NWI c	assification:	
climatic / hydrologi	ic conditions on	the site typical for th	als time of yea	r? YesN	(if no, expla	in in Remarks.)	/
Vegetation	, Soil, c	or Hydrology	significantly	sisturbed? A	re "Normal Circumste	nces" present? Yes	_No
Vegetation	, Soil c	or Hydrology	naturally pro	plematic? (II	i needed, explain any	answers in Remarks.)	
MMARY OF FI	NDINGS -	Attach site mar	showing	sampling poin	t locations, trans	ects, important fea	tures, etc.
			, <u>-</u> -			<del></del>	
lydrophytic Vegetati: lydric Soil Present?		Yes	No	is the Samp	ied Area		
yanc son Present? /etiend Hydrology P		Yes Yes	No	within a We	dend? Yes	No	
emarks:						<del></del>	
91	er resil	irrigat	ים אי	·sh			
		•	,				
CETATION I	ine nelewis	ic names of pla					
GETATION - C	JSS SCISTILL	ic names or pia		Dominant Indicate	or   Dominance Tea	A consideration and the	
ee Stretum (Plot s	size:	)		Species? Status			
·					That Are OBL, F.	ACW, or FAC:	(A)
					- Total Number of	Dominant /	
					Species Across	VII Strata:/	(B)
	····				Percent of Domis	nant Species / 🗸	(NB)
apling/Shrub Stratu	m (Plot size: _	)		= Total Cover	That Are OBL, F	ACW, or FAC:	(A/B)
					Prevalence Inde		·
						er of: Multiply	
						x1=	
					— ı	x2=	
				= Total Cover	·····	x3= x4=	
				= 1 DIST COVEL	I ACC apecies .		
erh Stretum (Plot i	size:	),		E 2	UPL species	¥5×	
erh Stretum (Plot i	size: Imel a	melina	100	- FAC	PL species Column Totals:	x5 =	
erb Stretum (Plot i	lmes a				Column Totals:	(A)	
arb Stratum (Plot i	lmes a				Column Totals:	(A)	
arb Stratum (Plot i	lmes a				Column Totals: Prevalence Hydrophytic Ve	index = B/A = getation indicators:	
erb Stratum (Plot I	lones a				Prevalence Hydrophytic Ve	index = B/A = getation Indicators: Test is >50%	
arb Stratum (Plot i	lmu a				Prevalence Hydrophytic Ve Dominence Prevalence Morphologic	(A) Index = B/A = getation Indicators: Test is >50% ndex is \$3.0^1 at Adaptations (Provide s	(B)
erb Stratum (Plot i	lmu a				Prevalence Hydrophytic Ve Dominence Prevalence Morphologic date in R	(A)	(B)
erb Stratum (Plot	lmes a				Prevalence Hydrophytic Ve Dominence Prevalence Morphologic date in R	(A) Index = B/A = getation Indicators: Test is >50% ndex is \$3.0^1 at Adaptations (Provide s	(B)
Pod Stratum (Plot in Line)	(Plot size:				Column Totals: Prevalence Hydrophytic Ve Dominence Prevalence Morphologic date in R Problematic	(A)  Index = B/A =  getation Indicators:  Test is >50%  Index is ≤3.0°  Index	upporting sheet) Explain)
erb Stratum (Plot in Plot ones au				Column Totals:  Prevalence Hydrophytic Ve Dominance Prevalence Morphologic date in R Problematic	(A)	Kupporting sheet) Explain)	
erb Stratum (Plot in Plot ones au			= Total Cover	Column Totals:  Prevalence Hydrophytic Ve Dominance Prevalence Morphologic date in R Problematic  Indicators of hybe present, unle	Index = B/A = getation Indicators: Feat is >50% ndex is <3.0¹ al Adaptations¹ (Provide amarks or on e seperate s Hydrophytic Vegetation¹ ( Iric soil and wetland hydro	Kupporting sheet) Explain)	
erb Stratum (Plot III)	fmes ou			= Total Cover	Column Totals:  Prevalence Hydrophytic Ve Dominance Prevalence Morphologic date in R Problematic	Index = B/A = getation Indicators: Feat is >50% ndex is <3.0¹ al Adaptations¹ (Provide amarks or on e seperate s Hydrophytic Vegetation¹ ( Iric soil and wetland hydro	Kupporting sheet) Explain)

SOIL			Sampling Point
Profile Des	cription: (Describe to the dep	th needed to document the indicator or o	onfirm the absence of indicators.)
Depth	Matrix	Redox Features	
(inches)	Color (moist) %	Color (moist) % Type' L	
14	104nz/1		Suly a
	,		
	<del></del>		
1T C-C	Secretary DeDenistes DM	Reduced Matrix, CS=Covered or Costed S	and Grains. <sup>2</sup> Location: PL=Pore Lining, M=Metrix.
		LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis <sup>1</sup> :
Histoso		Sandy Redox (\$5)	1 cm Muck (A9) (LRR C)
	pipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
	listic (A3)	Loarny Mucky Mineral (F1)	Reduced Vertic (F18)
	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratifie	d Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
	uck (A9) (LRR D)	Redox Dark Surface (F6)	
	d Below Dark Surface (A11)	Depleted Dark Surface (F7)	to an an analysis of the same
	ark Surface (A12)	Redox Depressions (F8)	Indicators of hydrophytic vegetation and
	Mucky Mineral (S1) Gleved Metrix (S4)	Vernal Pools (F9)	wetland hydrology must be present, unless disturbed or problematic.
	Leyer (if present):		unides distances of productions.
Тура:			
Depth (In	ochoo):	-	Hydric Soil Present? Yes No
Remarks:	(0.00).		1170110 0011710011111 1100
HYDROLO	ngv		
			The second describes the second secon
•	drology indicators:		
	cators (minimum of one required		Secondary indicators (2 or more required)
	Water (A1)	Seit Crust (B11)	Water Marks (B1) (Riverina)
	ater Table (A2)	Blotic Crust (812)	Sediment Deposits (B2) (Riverine)
Saturati		Aquatic Invertebrates (B13)	Drift Deposits (B3) (Rivering)
	derka (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
	nt Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	
	posits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C6)
	Soil Cracks (B6)	Recent from Reduction in Tilled Sc	· · · · · · · · · · · · · · · · · · ·
	ion Visible on Aerial Imagery (B		Shallow Aquitard (D3)
	Stakned Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Obser			
Surface Wat		NoDepth (inches):	
Water Table		No Depth (Inches):	
Saturation P	Present? Yes (	No Depth (inches):	Wetfand Hydrology Present? Yes No
		onitoring well, serial photos, previous inspec	tions) if eveilable:
	water (on water gategory tree	B and marrow because the angula (telpon	
Remarks:			
1.40111011/2			

#### WETLAND DETERMINATION DATA FORM - Arid West Region Chy/County: Kithitas \_\_\_\_ Sampling Date: 10-7-21 Project/Site: State: WA Sampling Point: DP# 35 Applicant/Owner: Section, Township, Range: 531 TIBN 2195 Local relief (concave, convex, none); Landform (hillslope, terrace, etc.): Slope (%): \_\_\_\_\_ Subregion (LRR): \_\_\_\_ \_\_\_\_\_ Long: \_\_\_\_ Datum: 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? Ara "Normal Circumstences" 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. Is the Sampled Area Hydrophytic Vegetation Present? Hydric Soil Present? within a Wetland? Wetland Hydrology Present? VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across Ali 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 \_\_\_\_\_ x2 = \_\_ FAC species \_\_\_\_\_ = Total Cover FACU species \_\_\_\_ Fig. UPL species \_\_\_ Column Totels: Prevalence index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations<sup>1</sup> (Provide supporting. deta in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Woody Vine Stratum (Plot size: Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic \_ = Total Cover % Bare Ground in Herb Stratum\_ Remarks:

		or confirm the absence of indicators.)
epth Matrix	Redox Features	or vermin are assessed of artifications.)
nches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks
10 104312		cokhy h
ype: C=Concentration, D=Depletion, RM:		od Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Metri:
ydric Soli Indicators: (Applicable to all	LRRs, unless otherwise noted.)	indicators for Problematic Hydric Solis <sup>1</sup> :
_ Histosol (A1)	Sandy Redox (\$5)	1 cm Muck (A9) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
_ Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
_ 1 cm Muck (AS) (LRR D)  Depleted Selow Dark Surface (A11)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	
_ Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>1</sup> Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present.
Sendy Gleved Matrix (S4)		unless disturbed or problematic.
satrictive Layer (if present):		
Type:		1
Depth (Inches):		Hydric Soli Present? Yes No
emarks:		
DROLOGY		
etland Hydrology Indicators:		
imary indicators (minimum of one required	dr chartr all that anniu)	Secondary Indicators (2 or more result
_ Surface Water (A1)	Selt Crust (B11)	
High Water Table (A2)		Water Marks (B1) (Riverine)
- •	Blotic Crust (B12)	Sediment Deposits (B2) (Riverine
_ Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Rivering)
Water Marks (81) (Nonriverine)	Hydrogen Suffide Odor (C1)	Oralnage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)		Living Roots (C3) Dry-Season Water Table (C2)
_ Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	
_ Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled	
_ Inundation Visible on Aerial Imagery (B:		Shallow Aquiterd (D3)
_ Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
eld Observations:	/ ,	
rface Weter Present? Yes I	No	-
	NoDepth (Inches):	
ater Table Present? Yes		
ater Table Present? Yes ! sturstion Present? Yes !	No Depth (Inches):	Wetland Hydrology Present? Yes No _
ater Table Present? Yes I sturstion Present? Yes I ickdes capillary fringe)	No Depth (Inches):	
ater Table Present? Yes ! sturstion Present? Yes !	No Depth (Inches):	
ater Table Present? Yesi sturation Present? Yesi schdes capillery fringe) escribe Recorded Data (stream gauge, mo	No Depth (Inches):	
ater Table Present? Yes I sturstion Present? Yes I ickdes capillary fringe)	No Depth (Inches):	

#### WETLAND DETERMINATION DATA FORM - Arid West Region Applicant/Owner: Section, Township, Range: S32 T/8N R/9 E Landform (hillslope, terrace, etc.): Local relief (concave, convex, none); \_\_\_\_ Subregion (LRR): \_ Long: Datum: 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 Circumstences" present? Yes \_\_\_\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problemetic? (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? Watiend Hydrology Present? Remarks: irrigated paster 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 Ali 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: FACU species \_\_\_\_\_ = Total Cover UPL species \_\_\_\_\_ Fashian Column Totals: \_\_\_\_ Prevalence index = B/A = Hydrophytic Vegetation indicators: Dominance Test is >50% Prevalence Index is ≤3.0° Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Woody Vine Stratum (Plot size: Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. \_\_\_\_ = Total Cover Hydrophytic Vegetation

(inches)		Redox Feature		
	Color (moist) %	Color (maist) %	Type Lo	
Part Service	122312	مسده		c3604 r
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			·	
		<del></del>	- <del></del>	
		<del></del>		
Turne: CaCo:	centration, D=Depletion, RM=	Paducad Matrix CSaCoura	of or Control San	d Grains. <sup>2</sup> Location: PL=Pora Lining, M=Metrix.
	dicators: (Applicable to all L			Indicators for Problematic Hydric Solis <sup>1</sup> :
Histosol (	A1)	Sandy Redox (\$5)	·	1 cm Muck (A9) (LRR C)
Histic Epi		Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
Black His		Loamy Mucky Miner		Reduced Vertic (F18)
	Sulfide (A4)	Loamy Gleyed Matrix		Red Parent Material (TF2)
	Layers (A5) (LRR C)	Depleted Matrix (F3)		Other (Explain in Remarks)
	k (A8) (LRR D)	Kedox Dark Surface	, ,	
.,	Below Dark Surface (A11)	Depleted Dark Surfa	• •	
	k Surface (A12)	Redox Depressions	(F8)	Indicators of hydrophytic vegetation and
	icky Mineral (S1) syed Metrix (S4)	Vernal Pools (F9)		wettand hydrology must be present, unless disturbed or problematic.
	yer (if present):			Griegos discursos de productivados
Type:	, a			
	<del></del>			
Denth (Inch	nes):			Hydric Soil Present? Yes No.
Depth (Inch Remarks:	966):			Hydric Soll Present? Yes No
Remarks:				Hydric Soll Present? Yes No
Remarks:	Y			Hydric Soll Present? Yes No
Remarks: YDROLOG Wetland Hydi	IY ology indicators:	check all that apply)		
Remarks: YDROLOG Wetland Hydi Primary Indica	IY rology indicators: tors (minimum of one required;			Secondary indicators (2 or more resuired
Remarks:  YDROLOG  Wetland Hydi  Primary Indica  Surface V	IY rology indicatora: fors (minimum of one required; fater (A1)	Selt Crust (B11)		Secondary Indicators (2 or more resulted Water Marks (B1) (Riverine)
Remarks:  YDROLOG  Wetland Hydi  Primary Indica  Surface W  High Wate	IY rology indicatora: tors (minimum of one required; later (A1) er Table (A2)	Seit Crust (B11) Biotic Crust (B12)	nn (B12)	Secondary indicators (2 or more resulted  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
YDROLOG Wetland Hydi  Surfece V High Wate Seturation	IY  rology indicatore:  stors infinimum of one required;  stare (A1)  or Table (A2)  1 (A3)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate		Sepondary indicators (2 or more resulted  Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YDROLOG Wetland Hydi Primary Indica Surface W High Wate Seturation Water Ma	IY  rology indicators:  tors (minimum of one required;  state (A1)  or Table (A2)  (A3)  rks (B1) (Nonriverine)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O	dor (C1)	Secondary Indicators (2 or more resulted  Water Marks (81) (Riverine)  Sediment Deposits (82) (Riverine)  Drift Deposits (83) (Riverine)  Orainage Patterns (810)
POROLOG  Wetland Hydi  Primary Indica  Surface W  High Wate  Seturation  Water Ma	IY rology indicators: tors (minimum of one required; /ater (A1) ar Table (A2) a (A3) b (A3) C (A6) D (Nonriverine) D (D (Nonriverine)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	idor (C1) eras along Living	Secondary Indicators (2 or more resulted  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)
YDROLOG Wetland Hydi Surfece V High Wate Seturation Water Ma Sediment Drift Depo	IY rology indicators: tors (minimum of one required; letter (A1) er Table (A2) (A3) (A3) Deposits (B2) (Nonriverine) paits (B3) (Nonriverine)	Sek Crust (B11) Blotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct	idor (C1) bres along Living ad Iron (C4)	Secondary Indicators (2 or more resulted  - Water Marks (B1) (Riverine) - Sediment Deposits (B2) (Riverine) - Drift Deposits (B3) (Riverine) - Drainage Patterns (B10) - Roots (C3) - Dry-Season Water Table (C2) - Crayfish Burrows (C6)
POROLOG Wetland Hyde Primary Indica Surface W High Wate Seturation Water Me Sodiment Drift Depc Surface S	ology indicators: tors (minimum of one required; fater (A1) or Table (A2) or (A3) roke (B1) (Nonriverire) Deposits (B2) (Nonriverire) soits (B3) (Monriverire) oil Cracks (B6)	Seit Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Suffice O Oxidized Rhizosphe Presence of Reduct	idor (C1) erea along Living ed Iron (C4) ion in Tilled Soils	Secondary Indicators (2 or more resulted  Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)  Roots (C3) Dry-Sesson Water Table (C2) Crayfish Burrows (C6) (C6) Saturation Visible on Aerial Imagery
YDROLOG Wetland Hydr Primary Indica Surface V High Wath Seturation Water Me Sodiment Drift Design	IY  rology indicators:  tors (minimum of one required;  fater (A1)  or Table (A2)  n(A3)  rise (B1) (Nonriverine)  Deposits (B2) (Nonriverine)  sits (B3) (Nonriverine)  of Cracke (B6)  n Visible on Aerial Imagery (B7)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrete Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface	idor (C1) orea along Living ed Iron (C4) ion in Tilled Soils (C7)	Secondary Indicators (2 or more resulted  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Roots (G3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  (C6) Saturation Visible on Aerial Imagery (C6)  Shallow Aquitard (D3)
YDROLOG Wetland Hyd Primary Indica Surface V High Wet Seturation Water Mas Sodiment Drift Depc Surface S Inundation Water-Size	IY  rology Indicators:  tors (minimum of one required;  fater (A1)  or Table (A2)  (A3)  (A3)  Deposits (B2) (Nonriverine)  paits (B3) (Nonriverine)  oil Cracks (B6)  I visible on Aerial Imagery (B7)  ined Leeves (B9)	Seit Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Suffice O Oxidized Rhizosphe Presence of Reduct	idor (C1) orea along Living ed Iron (C4) ion in Tilled Soils (C7)	Secondary Indicators (2 or more resulted  Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)  Roots (C3) Dry-Sesson Water Table (C2) Crayfish Burrows (C6) (C6) Saturation Visible on Aerial Imagery
YDROLOG Wetland Hyde Primary India Primary India Surface V High Wate Seturation Water Me Sediment Drift Depc Surface S Inundator Water-St	IY  rology indicators:  tors (minimum of one required;  fater (A1)  or Table (A2)  (A3)  Daposits (B2) (Nonriverine)  paits (B3) (Monriverine)  oid Cracks (B6)  of Visible on Aerial Imagery (B7)  ifred Leeves (B9)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Suifide O Oxidized Rhizosphi Presence of Reduc- Recent Iron Reduct Thin Muck Surface Other (Explain in Ru	idor (C1) orea along Living ed Iron (C4) ion in Tilled Soils (C7)	Secondary Indicators (2 or more resulted  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Roots (G3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  (C6) Saturation Visible on Aerial Imagery (C6)  Shallow Aquitard (D3)
YDROLOG Wetland Hydr Primary India Surface V High Wate Seturation Water Me Sodiment Drift Depc Surface S Inundation Water Set	rology indicators: totas (minimum of one required; fater (A1) or Table (A2) o (A3) rks (B1) (Nonrivertire) Deposits (B2) (Nonrivertire) sits (B3) (Nonrivertire) oil Cracks (B6) oil Cracks (B6) oil Cracks (B6) risid Leaves (B9) ritions:	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Suiffide O Oxidized Rhizosphi Presence of Reduc- Recent Iron Reduct Thin Muck Surface Other (Explain in Ru	idor (C1) orea along Living ed Iron (C4) ion in Tilled Soils (C7)	Secondary Indicators (2 or more resulted  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Roots (G3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  (C6) Saturation Visible on Aerial Imagery (C6)  Shallow Aquitard (D3)
YDROLOG Wetland Hydr Primary India Surface W High Wate Seturation Water Me Southeace Surface Si Inundation Water-Ste Field Observation Surface Water Surface Water Water Table P	rology indicators: totas (minimum of one required; fater (A1) or Table (A2) o (A3) rks (B1) (Nonrivertire) Deposits (B2) (Nonrivertire) sits (B3) (Nonrivertire) oil Cracks (B6) oil Cracks (B6) oil Cracks (B6) ined Leaves (B9) stions: Present? Yes N resent? Yes N	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Suiffide O Oxidized Rhizosphi Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Ru	idor (C1) bres along Living ed fron (C4) ion in Tilled Soils (C7) emarks)	Secondary Indicators (2 or more resulted  Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)  Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C6) (C6) Saturation Visible on Aerial Imagery (B1) Shallow Aquitard [D3) FAC-Neutral Test (D5)
YDROLOG Wetland Hyd Primary Indica Surface V High Wate Sedurator Drift Depc Inundation Water Stel Surface S Water Stel Surface S S Surface S S S S S S S S S S S S S S S S S S S	rology Indicators:  fors (minimum of one required;  later (A1)  or Table (A2)  (A3)  (A3)  (A3)  (Ba) (Nonriverine)  Deposits (B2) (Norriverine)  oid Cracks (B6)  1 Visible on Aerial Imagery (B7)  ined Leaves (B9)  stions:  Present? Yes N  sent? Yes N	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Suiffide O Oxidized Rhizosphi Presence of Reduc- Recent Iron Reduct Thin Muck Surface Other (Explain in Ru	idor (C1) bres along Living ed fron (C4) ion in Tilled Soils (C7) emarks)	Secondary Indicators (2 or more resulted  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Roots (G3) Dry-Season Water Table (C2)  Crayfish Burrows (C8)  (C6) Saturation Visible on Aerial Imagery (C6)  Shallow Aquitard (D3)
YDROLOG Wetland Hydr Primary India Surface V High Wate Seturation Unit Depo Surface S Inundation Water Set Fleid Observi Surface Water Water Table P Surface Neter Mater Table P Sinckuldes ception Pre Includes ception	rology Indicators:  fors (minimum of one required;  later (A1)  or Table (A2)  (A3)  (A3)  (A3)  (Ba) (Nonriverine)  Deposits (B2) (Norriverine)  oid Cracks (B6)  1 Visible on Aerial Imagery (B7)  ined Leaves (B9)  stions:  Present? Yes N  sent? Yes N	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Suifide O Oxidized Rhizzoephi Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Ru to Dépth (Inches): Depth (Inches):	ordor (C1) srea along Living ed Iron (C4) ion in Tilled Soils (C7) ernarks)	Secondary Indicators (2 or more resulted
YDROLOG Wetland Hyd Primary Indica Surface V High Wate Seturation Water Water W Sediment Drift Dep Sediment Unificate Inundation Water-Sta Fleid Observe Water Table P Saturation Pre Includes capil	IY  rology Indicators:  tors (minimum of one required;  fater (A1)  or Table (A2)  (A3)  rike (B1) (Nonriverine)  Deposits (B2) (Nonriverine)  oil Cracks (B6)  I Visible on Aerial Imagery (B7)  ined Leaves (B9)  attoris:  Present?  Yes N  sent?  Yes N  leavy finge)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Suifide O Oxidized Rhizzoephi Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Ru to Dépth (Inches): Depth (Inches):	ordor (C1) srea along Living ed Iron (C4) ion in Tilled Soils (C7) ernarks)	Secondary Indicators (2 or more resulted
YDROLOG Wetland Hydr Primary India Surface V High Wate Seturation Unit Depo Surface S Inundation Water Set Fleid Observi Surface Water Water Table P Surface Neter Mater Table P Sinckuldes ception Pre Includes ception	IY  rology Indicators:  tors (minimum of one required;  fater (A1)  or Table (A2)  (A3)  rike (B1) (Nonriverine)  Deposits (B2) (Nonriverine)  oil Cracks (B6)  I Visible on Aerial Imagery (B7)  ined Leaves (B9)  attoris:  Present?  Yes N  sent?  Yes N  leavy finge)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Suifide O Oxidized Rhizzoephi Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Ru to Dépth (Inches): Depth (Inches):	ordor (C1) srea along Living ed Iron (C4) ion in Tilled Soils (C7) ernarks)	Secondary Indicators (2 or more resulted
YDROLOG Wetland Hydr Primary Indica Surface V High Water Seturation Water Water W Sediment Drift Depc Juntale S Innundation Water-Sta Fleid Observe Water Table P Saturation Pre- includes capil	IY  rology Indicators:  tors (minimum of one required;  fater (A1)  or Table (A2)  (A3)  rike (B1) (Nonriverine)  Deposits (B2) (Nonriverine)  oil Cracks (B6)  I Visible on Aerial Imagery (B7)  ined Leaves (B9)  attoris:  Present?  Yes N  sent?  Yes N  leavy finge)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Suifide O Oxidized Rhizzoephi Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Ru to Dépth (Inches): Depth (Inches):	ordor (C1) srea along Living ed Iron (C4) ion in Tilled Soils (C7) ernarks)	Secondary Indicators (2 or more resulted

Present?

% Bare Ground in Herb Stratum \_\_\_\_\_ % Cover of Biotic Crust \_\_\_

Remarks:

SOIL

Sampling Point \_\_\_

#### WETLAND DETERMINATION DATA FORM - Arid West Region SOIL Sampling Point Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators. Project/Site: Redox Features State: WA- Sampling Point: Color (moist) % Type Loc2 Applicant/Owner: Texture S32 TIBN Z19E Local relief (conceve, convex, none); Landform (hillsione, terrece, etc.): Subregion (LRR): \_ \_\_\_\_ Long: \_\_ Soil Map Unit Name: \_ NWI classification: Are dimatic / hydrologic conditions on the site typical for this time of year? Yes .... (if no, explain in Remarks.) 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. <sup>1</sup>Type: C=Concentration, D=Depiction, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. <sup>2</sup>Location: PL=Pore Linking, M=Matrix. Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils1: Hydrophytic Vegetation Present? is the Sampled Area \_\_\_ 1 cm Muck (A9) (LRR C) Histosol (A1) \_\_ Sandy Redox (S5) Hydric Soil Present? within a Watiend? \_\_ Histic Epipedon (A2) \_\_ Stripped Matrix (S6) \_\_\_ 2 cm Muck (A10) (LRR B) Wetland Hydrology Present? \_\_\_ Black Histic (A3) Loamy Mucky Mineral (F1) \_\_ Reduced Vertic (F18) Remarks irrigated pushe Hydrogen Sulfide (A4) Loamy Glaved Matrix (F2) Red Parent Material (TF2) \_\_ Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) \_\_ 1 cm Muck (A8) (LRR D) Redox Dark Surface (F6) \_\_ Depleted Dark Surface (F7) Depleted Below Dark Surface (A11) VEGETATION - Use scientific names of plants. Thick Dark Surface (A12) Redox Depressions (F8) Indicators of hydrophytic vegetation and \_\_ Sandy Mucky Mineral (S1) \_\_\_ Vernai Pools (F9) Absolute Dominant Indicator wetland hydrology must be present. Dominance Test worksheet: Tree Stretum (Plot size: Sandy Gleyed Matrix (S4) unless disturbed or problematic. % Cover Species? Status Number of Dominant Species Restrictive Leyer (If present): That Are OBL, FACW, or FAC: Type: Total Number of Dominant Depth (Inches): Hydric Soil Present? Yes Species Across Ali Strata: Remarks: Percent of Dominant Species (A/B) من شونت صمی \_ = Total Cover That Are OBL, FACW, or FAC: Sapting/Shrub Stratum (Plot size: Prevalence Index worksheet Total % Cover of: Multiply by: HYDROLOGY OBL species x1=\_\_ Wetland Hydrology Indicators: FACW species Primary indicators (minimum of one required; chack all that apply) Secondary indicators (2 or more required) FAC species \_\_\_\_ \_\_ Surface Water (A1) \_\_\_ Selt Crust (B11) Water Marks (B1) (Riverine) FACU species \_\_\_\_ = Total Cover High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) UPL species Seturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Fesh cu Column Totals: ..... Water Marks (B1) (Nonriverine) \_\_\_ Hydrogen Sulfide Odor (C1) Orainage Patterns (B10) Gediment Deposits (B2) (Nonriverina) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Prevalence Index = B/A = Drift Deposits (B3) (Nonriverine) Presence of Reduced from (C4) Cravfish Burrows (C8) Hydrophytic Vegetation indicators: \_\_\_ Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Dominance Test is >50% \_\_ Inundation Visible on Aerial Imagery (87) \_\_\_ Thin Muck Surface (C7) Shallow Aquitard (D3) Prevalence Index is ≤3.01 Water-Stained Leaves (B9) FAC-Neutral Test (D5) Other (Explain in Remarks) Morphological Adaptations<sup>1</sup> (Provide supporting Field Observations: date in Remarks or on a separate sheet) Surface Water Present? Depth (Inches): Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) \_ = Total Cover Water Table Present? Depth (Inches): Woody Vine Stratum (Plot size: Saturation Present? Wetland Hydrology Present? Yes Indicators of hydric soll and wetland hydrology must (includes capillary fringe) be present, unless disturbed or proble Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if evailable Hydrophytic Vegetation ≈ Total Cover Remarks: % Bare Ground in Herb Stratum % Cover of Blotic Crust Present? Remarks:

<b>- 1</b>	TERMINATION DATA FORM	
oject/sae: Schnit	City/County:	(.++++5 Sampling Date: 10-7-2)
licant/Owner:		State: WA Sampling Point: D/43
estigator(s): <u>IO</u> ScmU	Section, Township, F	Range: 532 TIBN 2145
dform (hilfslope, terrace, etc.):		s, convex, none); Stope (%);
region (LRR):	Let:	Long: Datum:
i Map Unit Name:		NWI classification:
e climatic / hydrologic conditions on the site typical fo	or this time of year? YesNo	(If no, explain in Remarks.)
e Vegetation Soli, or Hydrology	significantly disturbed? Are	a "Normal Circumstances" present? Yes No
e Vegetation, Soli, or Hydrology	naturally problematic? (if	needed, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site in	nap showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sample within a Weti	,
Vetland Hydrology Present? Yes	_ No within a Weti	and? Yes No
lemarks: Granzad iran	Il pushe	
-1 -1	very prison	
GETATION - Use scientific names of p	olants.	
	Absolute Dominant Indicator	
ree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
		Total Number of Dominant Species Across Ali Strata: (B)
		Percent of Dominant Species
apling/Shrub Stratum (Plot size:)	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
- The state of the		Pravalence Index worksheet:
		Total % Cover of: Multiply by:
·		OBL species x1 *
·		FACW species x2 =
5.	= Total Cover	FAC species x3 =
		FACU species x4 =
lerb Stretum (Ptot size:)		1IPI energies v 5 m
terb Stretum (Plot size:)	50 FAC	UPL species x5 =
terb Stratum (Plot size:  Concx  June 1  Bulling	50 FAC 25 50 PMC	Column Totals: (A) (B)
lerb Stratum (Plot size:)  CACX 2/BC/1+CC	50 FAC 25 50 BACK	Column Totals:(A)(B)  Prevelence Index = 8/A =
GO Stratum (Plot size:) Cocx > Baltic	50) FAC 250 PAC	Column Totals: (A) (B)
lerb Stretum (Plot size: )  Continue Bultice	50 FAC 26 50 PAC	Column Totals: (A) (B)  Preydience index = B/A =  Hydiennylic Vegetation indicators:
lerb Stratum (Plot size:)  Cocx > H  June 1 Beltic	50 FAC	Column Totals: (A) (B)  Proyalence Index = 8/A = Hydraphytic Vegetation Indicators:  Dominence Test is >50%  Prevalence Index is <3.0°  Morphological Adaptations' (Provide supporting
lerb Stratum (Plot size:)  Cocx App  June 1 Baltic	50 FAC 25 50 FAC	Column Totals: (A) (B)  Prevalence index = 8/A =
GOCX >BC/FICS	50) FAC	Column Totals: (A) (B)  Proyalence Index = 8/A = Hydraphytic Vegetation Indicators:  Dominence Test is >50%  Prevalence Index is <3.0°  Morphological Adaptations' (Provide supporting
Gody Vine Stratum (Plot size:)	57) FAC. 25 50 PMC0 = Total Cover	Column Totals: (A) (B)  Prevalence index = 8/A =   Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence index is <3.0'  Morphological Adaptations' (Provide supporting date in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation' (Explain)  'Indicators of hydric soil and westand hydrology must
Stratum (Plot size:)  Cotx 3Bc/fice  Ture Ls Bc/fice	57) FAC. 25 50 PMC0 = Total Cover	Column Totals: (A) (B)  Prevalence index = B/A =
Gody Vine Stratum (Plot size:)	57) FAC. 25 50 PMC0 = Total Cover	Column Totals: (A) (B)  Prevalence Index = 8/A =
Stretum (Plot size:)  Sure LX 2 Bc/ 1- Co	57) FAC 25 37) BMC 1	Column Totals: (A) (B)  Prevalence index = 8/A = Hydraffinytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is ≤3.0'  Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation' (Explein)  'Indicators of hydric soil and wesand hydrology must be present, unless disturbed or problematic.

offile Description: (Describe to the dep		
epth Matrix	Redox Features	
nches) Color (moist) %	Golor (moist) % Type Lo	
16 104312		_ sulg in
pe: C=Concentration, D=Depletion, RM= dric Soil Indicators: (Applicable to all	Reduced Matrix, CS=Covered or Coated Sa	
Histosol (A1)		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	1 cm Muck (AB) (LRR C) 2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F6)	indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sendy Gleyed Matrix (S4)		unises disturbed or problematic.
	**************************************	CHARDE CIDENTODO OF EXCHINECTO.
strictive Layer (if present):		United Disputer of Proparation
strictive Leyer (if present): Type:		
strictive Layer (if present):		Hydric Soll Present? Yes NoNo
strictive Layer (if present): Type: Depth (inches):		
strictive Leyer (if present): Type: Depth (Inches): marks:		
strictive Leyer (if present): Type: Depth (inches): marks:		
strictive Leyer (if present): Type: Depth (inches): marks: DROLOGY ettend Hydrology Indicators:		Hydric Soil Present? Yes No
etrictive Leyer (if present): Type: Depth (inches): marks:  DROLOGY ettand Hydrology Indicators: mary indicators (minimum of one required		Hydric Soil Present? Yes No No Secondary Indicators (2 or more required)
atrictive Leyer (if present): Type: Depth (Inches): marks:  DROLOGY etland Hydrology Indicators: mary indicators (minimum of one required Surface Mater (A1)	Selt Crust (B11)	Hydric Soil Present? Yes No  Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)
strictive Leyer (if present): Type: Depth (inches): marks:  DROLOGY stland Hydrology Indicators: mary indicators (inches) for required Surface Mater (A1) High Water Table (A2)	Selt Crust (B11) Biotic Crust (B12)	Hydric Soll Present? Yes No No
trictive Leyer (if present): Type: Depth (inches): marks:  DROLOGY ettend Hydrology Indicators: mary indicators (minimum of one required Surface Meter (A1) High Water Table (A2) Seturation (A3)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13)	Hydric Soil Present? Yes No   No
atrictive Leyer (if present): Type: Depth (inches): DROLOGY atland Hydrology Indicators: mary Indicators (minimum of one required Surface Meter (A1) High Water Table (A2) Seturation (A3) Water Marks (81) (Nonrivertine)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1)	Secondary Indicators (2 or more resuired)  Water Marks (81) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drakege Patterns (B10)
strictive Leyer (if present): Type: Depth (inches): marks:  DROLOGY stland Hydrology Indicators: mary indicators (minimum of one required Surface Meter (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Selt Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres elong Living	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Dritt Deposits (B3) (Riverine)  Drattage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)
strictive Leyer (if present): Type:  Depth (inches):  marks:  DROLOGY  stland Hydrology Indicators:  musy indicators (innimum of one required  Surface Matter (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonrivertne)  Sediment Deposits (B2) (Noerivertne)  Drift Deposits (B3) (Noerivertne)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres elong Living Presence of Reduced Iron (C4)	Secondary Indicators (2 or more resuired)  Water Marks (81) (Riverine)  Sediment Deposits (82) (Riverine)  Drit Deposits (83) (Riverine)  Drainage Patterns (810)  g Roots (C3)  Crayfish Burrows (C8)
trictive Leyer (if present): Type: Depth (inches): marks:  DROLOGY ettend Hydrology Indicators: mary indicators (minimum of one required Surface Meter (A1) High Water Table (A2) Seturation (A3) Water Marks (81) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Orft Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres elong Liviny Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soi	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drit Deposits (B3) (Riverine)  Drahage Patterns (B10)  g Roots (C3)  Crayfish Burrows (C3)  Saturation Visible on Aerial imagery (6
strictive Leyer (if present): Type: Depth (inches): marks:  DROLOGY  Ittiand Hydrology Indicators: mary indicators (minimum of one required Surface Meter (A1) High Water Table (A2) Saturation (A3) Water Marke (B1) (Nonrivertine) Sediment Deposits (B2) (Nonrivertine) Drift Deposits (B3) (Nonrivertine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Selt Crust (B11) Biotic Crust (B12) Aquetic Invertainmentes (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheras along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7)	Secondary Indicators i2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahege Petterns (B10)  g Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (6)  Shallow Aquitard (D3)
strictive Leyer (if present): Type:  Depth (inches):  marks:  DROLOGY  stland Hydrology Indicators:  mary indicators (minimum of one required  Surface Meter (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonrivertne)  Sediment Deposits (B2) (Nonrivertne)  Drift Deposits (B3) (Nonrivertne)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres elong Liviny Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soi	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drit Deposits (B3) (Riverine)  Drahage Patterns (B10)  g Roots (C3)  Crayfish Burrows (C3)  Saturation Visible on Aerial imagery (6
Type: Type: Depth (inches): marks:  DROLOGY stland Hydrology Indicators: marks:  Surface Matter (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivertne) Drift Deposits (B3) (Nonrivertne) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Interactivates (B13) Hydrogen Suitide Odor (C1) Oxidized Rhizospheres elong Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Talled Soi Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more resuired)  Water Marks (81) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainege Patterns (B10)  g Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (6)  Shallow Aquitard (D3)
Type:  Depth (Inches):	Selt Crust (B11)  Blotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres elong Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soi  Thin Muck Surface (C7)  Other (Explain in Remarks)	Secondary Indicators (2 or more resuired)  Water Marks (81) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainege Patterns (B10)  g Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (6)  Shallow Aquitard (D3)
atrictive Leyer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Defth (inches): Depth (inc	Selt Crust (B11)  Biotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres elong Livin, Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soi  Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drit Deposits (B3) (Riverine)  Drahage Patterns (B10)  g Roots (C3)  Dry-Season Water Table (C2)  Crayfish Unrowa (C3)  Seturation Visible on Aerial Imagery (C3)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
DROLOGY  Stand Hydrology Indicators: Interview (A1)  Bufface (A2)  Seturation (A3)  Water Marke (B1) (Moniverine)  Surface Solf Cracks (B6)  Inuncation (B3) (Moniverine)  Surface Solf Cracks (B6)  Inuncation (B3)  Water Marke (B3) (Moniverine)  Surface Solf Cracks (B6)  Inuncation Visible on Aerial Imagery (B7)  Water Stained Leaves (G8)  Ind Observations:  Face Water Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes  Inuntation Present?  Yes	Selt Crust (B11)  Biotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres elong Livin, Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soi  Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more resuired)  Water Marks (81) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainege Patterns (B10)  g Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (6)  Shallow Aquitard (D3)
DROLOGY  ettand Hydrology Indicators:  marks:  DROLOGY  ettand Hydrology Indicators:  mary indicators (minimum of one required  Surface Matter (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Id Observations:  Inface Water Present?  Yes  An introduction Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Id Observations:  Inface Water Present?  Yes  An introduction Present?	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres elong Livine  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soi  Thin Muck Surface (C7)  Other (Explain in Remarks)  O Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more resulred)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  g Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C3)  Saturation Visible on Aerial Imagery (1)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wedland Hydrology Present? Yes
DROLOGY  ettand Hydrology Indicators:  marks:  DROLOGY  ettand Hydrology Indicators:  mary indicators (minimum of one required  Surface Matter (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Id Observations:  Inface Water Present?  Yes  An introduction Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Id Observations:  Inface Water Present?  Yes  An introduction Present?	Selt Crust (B11)  Biotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres elong Livin, Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soi  Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (Inches):  Depth (Inches):	Secondary Indicators 12 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Crayfish Burrows (C3) Saturation Visible on Aerial imagery (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wedland Hydrology Present? Yes No
attrictive Leyer (if present): Type: Depth (Inches): Imarks:  Depth (Inches): Imarks:  Settle of the settle of the	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres elong Livine  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soi  Thin Muck Surface (C7)  Other (Explain in Remarks)  O Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more resulred)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  g Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C3)  Saturation Visible on Aerial Imagery (1)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wedland Hydrology Present? Yes
DROLOGY  ettand Hydrology Indicators:  marks:  DROLOGY  ettand Hydrology Indicators:  mary indicators (minimum of one required  Surface Matter (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Id Observations:  Inface Water Present?  Yes  An introduction Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Id Observations:  Inface Water Present?  Yes  An introduction Present?	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres elong Livine  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soi  Thin Muck Surface (C7)  Other (Explain in Remarks)  O Depth (Inches):  Depth (Inches):	Secondary Indicators (2 or more resulred)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  g Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C3)  Saturation Visible on Aerial Imagery (1)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wedland Hydrology Present? Yes

wet B

olicant/Owner:			10 - 7  State: WA Sampling Date: DX
estigator(s): <u>Zü Scmll</u>			
		Section, Township, Ra	inge: 532 TIBN 2145
dform (hillstope, terrace, etc.):		Local relief (concave,	convex, none); Slope (%):
pregion (LRR):	Lat:		Long: Datum:
Map Unit Name:			NWI classification:
climatic / hydrologic conditions on the site typical for t	this time of ye	ar? YesNo_	(If no, explain in Remarks.)
Vegetation, Soil or Hydrology	significantly	disturbed? Are	"Normal Circumstances" present? Yes No
Vegetation, Soit, or Hydrology	_ naturally pro	oblematic? (if n	seded, explain any answers in Remarks.)
MMARY OF FINDINGS - Attach site ma	p showing	sampling point l	ocations, transects, important features, et
ydrophytic Vegetation Present? Yes	1No	Is the Sample	
wirld Soil Present?		within a Wetia	
	No	WIGHT # 11002	100
emarks: Grazzed irrigad	م له	ash	
GETATION - Use scientific names of pla			
ne Stratum (Plot size:)		Dominant Indicator Species? Status	Dominance Test worksheet:
DO MARIANTI (F. Ox. OZZZ.	AUGUE	- ANDRONE - MANUAL -	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant
			Species Across Ali Strata: (B)
	<del></del>		Percent of Dominant Species
apling/Shrub Stratum (Plot size:)		_ = Total Cover	That Are OBL, FACW, or FAC:
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species x1 =
			FACW species x 2 =
			FAC species x3=
erb Stratum (Pfot size:)		= Total Cover	FACU species x4 =
Cour yes	<u> 200</u>	FAC	UPL species x5 = (B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			Dominance Test is >50%
			Prevalence Index is ≤3.01
			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
		- T-12 C-1-12	Problematic Hydrophytic Vegetation* (Explain)
/oody Vine Stratum (Plot size:		_ = Tatel Cover	
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		= Total Cover	Hydrophytic
Para Consulta Had Consul		-	Vegetation
Bare Ground in Herb Stratum % Co	ver of Blotic C	-rust	Present? Yes No
emarks:			

Watrix Redox Features Inches   Matrix   Golor (moist)   %   Type   Loc	Carly Live
Inches   Color (molet) %   Color (moist) %   Type   Los	rains. *Location: PL=Pore Uning, M=Metrix. Indicators for Problematic Hydric Solis*: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (T2) Other (Explain in Remarks)  *Indicators of hydrophytic vegatation and wetland hydrology must be present, unless disturbed or problematic.
Vyer. C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Send Grydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5)  Histosol (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Sulfide (A4) Loarny Gleyed Metrix (F2)  Stretified Leyers (A5) (LRR C) Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11) Cepleted Dark Surface (F7)  Trick Dark Surface (A12) Redox Dark Surface (F7)  Sandy Mucky Mineral (S1) Vernal Pools (F9)  Sandy Mucky Mineral (S1) Vernal Pools (F9)  Settretified Leyers (F present):  Type:  Depth (Inches):  semarks:  DROLOGY  letiand Hydrology Indicators:  timary Indicators (minimum of one regulared; check all that apply)  High Water Table (A2) Bloic Crust (B11)  High Water Table (A2) Bloic Crust (B12)  Seturation (A3) Aquetic Invertebretes (B13)  Water Marks (B1) (Nontivertine) Selficed Riticapherse along Living Roc Drift Deposits (B3) (Nontivertine) Presence of Reduced Iron (C4)  Surface Soil Creaks (B6) Recent Iron Reduction in Tilled Soils (C6 Inundation Visible on Aerial Imagery (B7)  Water-Steined Leaves (B9) Other (Explain in Remarks)	rains. *Location: PL=Pore Uning, M=Metrix. Indicators for Problematic Hydric Solis*: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (T2) Other (Explain in Remarks)  *Indicators of hydrophytic vegatation and wetland hydrology must be present, unless disturbed or problematic.
A Set Crust (B1)  DROLOGY  ettand Brydrology Indicators:  (Applicable to all LRRs, unless otherwise noted.)  Histoso (A1)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S8)  Loarny Mucky Mineral (F1)  Loarny Gleyed Matrix (F2)  Depletad Matrix (F3)  To m Muck (A6) (LRR C)  Depletad Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Thick Dark Surface (A12)  Sandy Gleyed Matrix (S4)  Setrictive Leyer (if present):  Type:  Depth (inches):  Imary Indicators (minimum of one required; chack all that apply)  Setrous Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonrivertine)  Sediment Deposits (B2) (Nonrivertine)  Durit Deposits (B3) (Nonrivertine)  Durit Deposits (B3) (Nonrivertine)  Surface Water (B4)  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled Soils (C4)  Inim Muck Surface (C7)  Water-Stafed Lesves (B9)  Set Greer (B1)  Thin Muck Surface (C7)  Other (Explain in Remarks)	rains. *Location: PL=Pore Uning, M=Metrix. Indicators for Problematic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Perent Meterial (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Send Girdfic Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histos (A1) Sandy Redox (S5)  Histic Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Suildae (A4) Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depletid Matrix (F3)  To m Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Bolow Dark Surface (A11) Depleted Dark Surface (F6)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)  Sandy Gleyed Matrix (S4)  strictive Layer (if present):  Type:  Depth (inches):  Imary Indicators (minimum of one required; chack all that apply)  Surface Water (A1) Selt Crust (B11)  High Water Table (A2) Blotic Crust (B12)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Durit Deposits (B3) (Nonriverine)  Surface Soil Cruste (B6)  Trim Muck Surface (C7)  Water-Stained Lesves (B9)  eld Observations:	rains. *Location: PL=Pore Uning, M=Metrix. Indicators for Problematic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Perent Meterial (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
rdiric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5)  Black Histo (A3) Loarny Mucky Mineral (F1)  Hydrogen Suiffde (A4) Loarny Gleyed Metrix (F2)  Stratified Leyers (A5) (LRR C) Depleted Martix (F3)  Tradical Martix (F3)  Depleted Below Derk Surface (A11) Depleted Dark Surface (F6)  Depleted Below Derk Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)  Sandy Gleyed Metrix (S4)  sardy Mucky Mineral (S1)  Sandy Gleyed Metrix (S4)  sardiver Leyer (if present):  Type:  Depth (Inches):  Surface Water (A1) Selt Crust (B11)  High Water Table (A2) Solutions (F3)  Selt Crust (B11)  Water Marks (B1) (Nonriverine) Diddications (B13)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine) Diddication in Tilled Soils (Ct. Inundation Visible on Aerial Imagery (B7)  Water-Stained Lesves (B9)  eld Observations:	Indicators for Problematic Hydric Solis*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Meterial (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
dric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5)  Histo Epipedon (A2) Stripped Matrix (S8)  Black Histo (A3) Loarny Mucky Mineral (F1)  Hydrogen Suitide (A4) Loarny Gleyed Matrix (F2)  Stratified Leyers (A5) (LRR C) Pedicid Matrix (F3)  1 orn Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Dark Surface (A12) Pedicid Matrix (F3)  Sandy Mucky Mineral (S1) Pedicid Dark Surface (F7)  Sandy Mucky Mineral (S1) Pedicid Dark Surface (F9)  Sandy Mucky Mineral (S1) Pedicid Dark Surface (F9)  Sandy Mucky Mineral (S1) Pedicid Dark Surface (F9)  Sandy Mucky Mineral (S1) Pedicid Dark Surface (F9)  Sandy Mucky Mineral (S1) Pedicid Dark Surface (F9)  Sandy Mucky Mineral (S1) Pedicid Dark Surface (F9)  Sandy Mucky Mineral (S1) Pedicid Dark Surface (F9)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Vernal Pools (F9)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Vernal Pools (F9)  Sandy Mucky Mineral (S1)  Vernal Pools (F9)  Sandy Mucky Mineral (F1)  Pedicx Mineral (F1)  Sandy Mucky Mineral (F1)  Redox Dark Surface (F6)  Pedicx Dark Surface (F6)  Vernal Pools (F9)  Sandy Mucky Mineral (F1)  Redox Dark Surface (F6)  Vernal Pools (F2)  Pedicx Dark Surface (F6)  Vernal Pools (F9)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Min	Indicators for Problematic Hydric Solis*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Meterial (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redox (S5)  Black Histic (A3) Stripped Matrix (S6)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1)  Loarny Gleyed Matrix (F2)  Stratified Leyers (A5) (LRR C) Depleted Matrix (F3)  Tedox Dark Surface (F6)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1) Pedox Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F6)  Sandy Mucky Mineral (S1) Vernal Pools (F9)  Sandy Gleyed Matrix (S4)  strictive Leyer (if present):  Type:  Depth (inches):  marks:  DROLOGY  Italiand Hydrology Indicators:  mary Indicators (minimum of one required; check all that apoly).  Surface Water (A1) Sait Crust (B12)  Seturation (A3) Aquabic Invertibrates (B13)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nomitverine)  Drift Deposits (B3) (Nomitverine)  Drift Deposits (B3) (Nomitverine)  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Water-Stained Leaves (B9)  Ind Observations:	Indicators for Problematic Hydric Solis*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Meterial (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redox (S5)  Black Histic (A3) Stripped Matrix (S6)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1)  Loarny Gleyed Matrix (F2)  Stratified Leyers (A5) (LRR C) Depleted Matrix (F3)  Tedox Dark Surface (F6)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1) Pedox Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F6)  Sandy Mucky Mineral (S1) Vernal Pools (F9)  Sandy Gleyed Matrix (S4)  strictive Leyer (if present):  Type:  Depth (inches):  marks:  DROLOGY  Italiand Hydrology Indicators:  mary Indicators (minimum of one required; check all that apoly).  Surface Water (A1) Sait Crust (B12)  Seturation (A3) Aquabic Invertibrates (B13)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nomitverine)  Drift Deposits (B3) (Nomitverine)  Drift Deposits (B3) (Nomitverine)  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Water-Stained Leaves (B9)  Ind Observations:	Indicators for Problematic Hydric Solis*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Meterial (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5)  Histo Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1)  Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2)  Stratified Leyers (A5) (LRR C) Depleted Matrix (F3)  Ten Muck (A8) (LRR C) Redox Dark Surface (F8)  Depleted Dark Surface (F8)  Sendy Mucky Mineral (S1) Redox Depressions (F8)  Vernal Pools (F9)  Sendy Gleyed Matrix (S4)  strictive Leyer (if present):  Type:  Depth (Inches):  marks:  DROLOGY  Sulface (A1) Salt Crust (B11)  Jidgh Water Table (A2) Solutions (minimum of one required; chack all that apply)  Surface Water (A1) Salt Crust (B12)  Seduration (A3) Aquabic Invariabrates (B13)  Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)  Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)  Unundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Id Observations:	Indicators for Problematic Hydric Solis*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Meterial (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1)  Histo Epipedon (A2)  Histo Epipedon (A2)  Birt Epipedon (A2)  Hydrogen Sulfide (A4)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Loamy Gleyed Metrix (F2)  Depleted Below Derk Burface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Metrix (S4)  Brictive Leyer (if present):  Type:  Depth (Inches):  marks:  DROLOGY  diand Hydrology Indicators:  marks:  DROLOGY  diand Hydrology Indicators:  mary indicators (minimum of one required; check all that apoly)  Surface Water (A1)  High Water Table (A2)  Sedment Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Into Moservations:	1 cm Muck (A9) (LRR C) 2 cm Muck (A49) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Mistic Epipedon (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A4) Stratified Leyers (A5) (LRR C) 1 orn Muck (A6) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Bendy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Metrix (S4) Brictive Layer (if present): Type: Depth (Inches): marks:  DROLOGY  dland Hydrology Indicators: mary indicators (minimum of one required; chack all that asoly) Surface Water (A1) Blotic Crust (B11) Blotic Crust (B12) Sediment Deposits (B2) (Nontriverine) Drift Deposits (B3) (Nontriverine) Drift Deposits (B3) (Nontriverine) Drift Deposits (B3) (Nontriverine) Drift Deposits (B3) (Nontriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stathed Leaves (B9) Inundation in Remarks)  Mid Observations:	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Perent Material (F2) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Black Histic (A3) Loarny Mucky Mineral (F1) Hydrogen Sulfide (A4) Loarny Gloyed Matrix (F2) Stretified Leyers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A6) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F8)  Vernal Pools (F9)  Depth (inches):  marks:  DROLOGY  Indicators (minimum of one required; chack all that apply) Surface Water (A1) Migh Water Table (A2) Seturation (A3) Redox Dark Surface (B1) Mydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Noemtvertne) Durft Deposits (B3) (Noentvertne) Durft Deposits (B3) (Noentvertne) Durft Deposits (B3) (Noentvertne) Presence of Reduced iron (C4) Recent Iron Reduction in Titled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Reducad Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Mydrogen Sulfide (A4) Loarny Gleyed Metrix (F2) Stretified Leyers (A5) (LRR C) Depleted Metrix (F3) 1 cm Muck (A6) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Milneral (S1) Vernal Pools (F9)  Sendy Gleyed Metrix (S4) setrictive Leyer (if present): Typs: Depth (Inches): Immarks:  DROLOGY  etiand Hydrology Indicators: Immary Indicators (iminimum of one required; check all that apply) Surface Water (A1) Biotic Crust (B12) Seturation (A3) Aquetic Invertebrates (B13) Mydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nomtiverine) Did (S4) Sufface Soil Crack (B6) Drift Deposits (B3) (Montiverine) Presence of Reduced Iron (C4) Sufface Soil Crack (B6) Inundation Visible on Aerial Imagery (B7) Water-Stafred Lesves (B9)  and Observations:	Red Perent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wedland hydrology must be present, unless disturbed or problematic.
Stratified Leyers (A5) (LRR C)  1 om Muck (A6) (LRR D)  Depleted Bolow Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Gleyed Metrix (S4)  Strictive Leyer (if present):  Type:  Depth (inches):  Imary indicators (minimum of one required; check all that anoity)  Surface Water (A1)  High Water Table (A2)  Sediment Deposits (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Durft Deposits (B3) (Nonriverine)  Surface Soil Crack (B6)  Drift Deposits (B3) (Nonriverine)  Surface Soil Crack (B6)  Water-Stained Lesves (B9)  In Muck Surface (C7)  Other (Explain in Remarks)	Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
1 cm Muck (AB) (LRR D) Redox Dark Surface (F8) Depicted Below Dark Surface (A11) Depicted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Glayed Metrix (S4) Setrictive Leyer (if present): Type: Depth (inches): Imarks:  DROLOGY  estand Hydrology Indicators: Imary Indicators (minimum of one required; check all that apoly) Surface Water (A1) Selt Crust (B11) Jiligh Water Table (A2) Blotic Crust (B12) Seturation (A3) Aquetic Invartabrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Suifide Odor (C1) Sediment Deposits (B2) (Nonriverine) Cidized Rhizospheres along Living Roc Drift Deposits (B3) (Nonriverine) Presence of Reduced iron (C4) Recent Iron Reduction in Tilled Soils (Cf. Injundation Visible on Aerial Imagery (B7) Water-Stafned Lesves (B9)  Ind Observations:	Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Trick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)  Sendy Cleyed Metrix (S4)  strictive Layer (if present):  Type: Depth (inches):  marks:  DROLOGY  stland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Selt Crust (B11) High Water Table (A2) Blotic Crust (B12)  Seturation (A3) Aquabic Invariabrates (B13)  Water Marks (B1) (Nonriverine) Oxidized Rhizosphieras along Living Roc Drift Deposits (B3) (Nonriverine) Oxidized Rhizosphieras along Living Roc Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)  Surface Soil Crack (B6) Thin Muck Surface (C7)  Water-Stafred Lesves (B9) Other (Explain in Remarks)	wetlend hydrology must be present, unless disturbed or problematic.
Thick Dark Surface (A12) Redox Depressions (F6) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Metrix (S4) strictive Leyer (if present): Type: Depth (Inches): marks:  DROLOGY stland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) Selt Cruet (B11) High Water Table (A2) Blotic Cruet (B12) Seturation (A3) Aquetic Invertabrates (B13) Water Merks (B1) (Nonrivertne) Sediment Deposits (B2) (Nonrivertne) Drift Deposits (B3) (Nonrivertne) Surface Soil Crack (B6) Inundation Visible on Aerial Imagery (B7) Water-Stafred Lesves (B9) Ind Observations:	wetlend hydrology must be present, unless disturbed or problematic.
Sandy Mucky Mineral (S1) Vernal Pools (F9)  Sandy Gleyed Metrix (S4)  Sandy Gleyed Metrix (S4)  Type:  Depth (Inches):  marks:  DROLOGY  Indicators:  mary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Selt Cruet (B11)  High Water Table (A2) Blotic Cruet (B12)  Seturation (A3) Aquetic Invartabrates (B13)  Water Marks (B1) (Nonriverine) Hydrogen Suifide Odor (C1)  Sediment Deposits (B2) (Nonriverine) Cylidized Rhizospheres elong Living Roc  Drift Deposits (B3) (Nonriverine) Presence of Reduced iron (C4)  Surface Soil Crack (B6) Presence of Reduced iron (C4)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Lesves (B9) Other (Explain in Remarks)	wetlend hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4)  strictive Leyer (if present): Type:  Depth (inches):  marks:  DROLOGY  stilland Hydrology Indicators: mary Indicators (minimum of one required; check all that apoly).  Surface Water (A1)  Salt Crust (B11)  Sigh Water Table (A2)  Soluriation (A3)  Aquabic Invertabrates (B13)  Water Marks (B1) (Montiverine)  Drift Deposits (B2) (Nomiverine)  Drift Deposits (B3) (Nomiverine)  Drift Deposits (B3) (Nomiverine)  Presence of Reduced Iron (C4)  Surface Soil Crecks (B6)  Inunded/on Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)	unless disturbed or problematic.
trictive Leyer (if present):  Type:  Depth (inches):  marks:  DROLOGY  stland Hydrology indicators:  mary indicators (minimum of one required; chack all that apply).  Surface Water (A1)  Jeligh Water Table (A2)  Seturation (A3)  Water Marks (B1) (Montivertine)  Sediment Deposits (B2) (Montivertine)  Drift Deposits (B3) (Nonrivertine)  Drift Deposits (B3) (Nonrivertine)  Presence of Reduced Iron (C4)  Surface Soil Creaks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Statined Leaves (B9)  Other (Explain in Remarks)  and Observations:	
Type:	Hydric Soil Present? Yes No No
DEFIN (Inches):	Hydric Soil Present? Yes NoNo
DROLOGY  Idland Hydrology Indicators:  mary indicators (minimum of one required; check all that apoly).  Surface Water (A1) Salt Crust (B11)  Jeligh Water Table (A2) Blotic Crust (B12)  Seturation (A3) Aquabic Invertiberates (B13)  Water Merks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roc  Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)  Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (Cf. Inundation Visible on Aerial Imagery (B7)  Water-Statinad Leaves (B9) Other (Explain in Remarks)	Hydric Soli Present? Yes No No
DROLOGY  etland Hydrology Indicators: imary indicators (minimum of one required; chack all that apply)  Surface Water (A1)  Selt Cruet (B11)  High Water Table (A2)  Selturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B2) (Nonriverine)  Surface Soil Crack (B6)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Water-Stafred Lesves (B9)  and Observations:	
imary Indicators (ininimum of one required; check all that apply)  Surface Water (A1)  Selt Cruet (B11)  Blotic Cruet (B12)  Blotic Cruet (B12)  Aquetic Invertebrates (B13)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Creak (B6)  In Deposits (B3) (Nonriverine)  Surface Soil Creak (B6)  In Deposits (B3) (Nonriverine)  Presence of Reduced iron (C4)  Recent Iron Reduction Titled Soils (Cf. In Indicator Visible on Aerial Imagery (B7)  Water-Steined Leaves (B9)  Other (Explain in Remarks)	
Imary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Selt Crust (B11)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonrivertine)  Sediment Deposits (B2) (Nonrivertine)  Drift Deposits (B3) (Nonrivertine)  Surface Soil Crust (B12)  Hydrogen Suiffide Odor (C1)  Oxidized Rhizospheres along Living Roc  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (Cf.  Inundation Visible on Aerial Imagery (B7)  Water-Steined Lesves (B9)  eld Observations:	
Surface Water (A1)  Selt Crust (B11)  Blotic Crust (B12)  Seturation (A3)  Seturation (A3)  Seturation (A3)  Seturation (A3)  Seturation (A3)  Seturation (A5)  Sediment Deposits (B2) (Nomriverine)  Drift Deposits (B3) (Nomriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Lesves (B9)  Self Otservations:	Secondary indicators (2 or more required
Biotic Crust (B12)   Seturation (A3)	
Seturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  eld Observations:  Aquetic Invariantes (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheras along Living Roc  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thir Muck Surface (C7)  Other (Explain in Remarks)	Water Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nomriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres elong Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thirin Muck Surface (C7) Other (Explain in Remarks)	Sediment Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nomriverine)  Oxidized Rhizospheres along Living Roc  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  order (Explain in Remarks)	Drift Deposits (83) (Riverine)
Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Lesves (B9)  Ind Observations:	Drainage Patterns (B10)
	ots (C3) Dry-Season Water Table (C2)
inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) eld Observations:	Crayfish Burrows (C6)
Water-Stained Leaves (B9) Other (Explain in Remarks)	5) Saturation Visible on Aerial Imagery
Water-Steined Leaves (B9) Other (Explain in Remarks)	Shallow Aquitard (D3)
old Observations:	FAC-Neutral Test (D5)
rface Water Present? Yes No Beath (Inches):	
ater Table Present? Yes Depth (Inches):	
rcludes capillary fringe)	
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	and Hydrology Present? YesNo
ernarka:	

Long: Detum:
tange: S32 T/SN Z/9 E  a. convex. none): Slope (%): Datum:  Long: Datum:  NWI classification:  (If no, explain in Remarks.)  a "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.)  locations, transects, important features, etc.
. convex, none); Slope (%): Long: Detum: NWI classification: (if no, explain in Remarks.) s "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) locations, transects, important features, etc.
Long: Detum:
NWI classification:  (If no, explain in Remarks.)  Normal Circumstances" present? Yes No needed, explain any answers in Remarks.)  locations, transects, important features, etc.
(if no, explain in Remarks.) 2 "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) locations, transects, important features, etc.
e 'Normal Circumstances' present? Yes No needed, explain any answers in Remarks.) locations, transects, important features, etc.
needed, explain any answers in Remarks.) locations, transects, important features, etc.
locations, transects, important features, etc.
ed Area
and? Yes No
Dominance Test worksheet:
Number of Dominent Species That Are OSL, FACW, or FAC:(A)
Total Number of Dominant
Species Across All Strata: (8)
Percent of Dominant Species / O/)
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 =
FACU species x4=
UPL species x5 =
Column Totals:(A)(B)
Preyelence Index = B/A =
Hydrophytic Vegetation Indicators:
Dominance Test is >50%
Dominance Test is >50% Prevalence Index is ≤3.01
Dominance Test is >50% Prevalence Index is <3.0' Morphological Adaptations' (Provide supporting
Dominance Test is >50%  Prevalence index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Ramarks or on a separate sheet)
Dominance Test is >50% Prevalence Index is <3.0' Morphological Adaptations' (Provide supporting
Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Ramarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and welland
Dominance Test is >50% Prevalence index is ≤3.0' Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation* (Explain)
Dominance Test is >50% Prevalence index is ≤3.0° Morphological Adeptations' (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic
Dominance Test is >50% Prevalence Index is ≤3.0° Morphological Adaptations' (Provide supporting data in Ramarka or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain)  'Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.

roffia Descri	ption: (Describe to the depth		
epth	Matrix	Redox Features	man are asserted as a consistent.
nches)	Color (moist) %	Color (maist) % Type Lor	Texture Remarks
11.	10413/3		Out by In
· ·	<del></del>	**************************************	
			· · · · · · · · · · · · · · · · · · ·
	<del></del>		
		educed Matrix, CS=Covered or Costed Sar	
		RRs, unless otherwise noted.)	indicators for Problematic Hydric Solls*:
Histosoi (/	•	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Black Hist	sedon (A2)	Stripped Matrix (S6) Loamy Mucky Mineral (F1)	2 cm Muck (A10) (LRR B) Reduced Vertic (F18)
-	Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
	Byers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remerks)
-	k (AS) (LRR D)	Redox Dark Surface (F6)	- Carlot Jacquan III ( Carlot III)
•	Below Dark Surface (A11)	Depleted Dark Surface (F7)	
	k Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Candy the	cky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
. Januy mu			and a second sec
Sendy Gle	yed Matrix (S4)		unises disturbed or problematic.
Sendy Gie etrictive Le	yed Matrix (S4) yer (if present):		unies disturbed or problematic.
Sendy Gle etrictive Le Type:	yar (if present):	_	uniess disturbed or problematic.
_ Sendy Gie	yar (if present):		Hydric Soil Present? Yes No
Sendy Gle setrictive Le Type: Depth (Inch emarks:	yer (if present): ee):		
Sendy Glesetrictive Le Type: Depth (Inch amarks:	yer (if present): ee):		
Sendy Gle setrictive Le Type: Depth (Inchemarks: DROLOG etiand Hydr	yer (if present):  oe):  Y ology indicators:		Hydric Soll Present? Yes No No
Sendy Gle setrictive Le Type: Depth (Inchemarks: DROLOG etiand Hydr imary indice	yer (if present):  ee):  Y  ology Indicatora: tora (minimum of one required:		Hydric Soil Present? Yes Ne Ne Secondary indicators (2 or more regulared)
Sendy Gle strictive Le Type: Depth (Inch imarks:  DROLOG stland Hydr mary indica: Surface W	yer (if present):  Y  Ology Indicators:  tors (minimum of one required; /ater (A1)	Selt Crust (B11)	Hydric Soli Present? Yes No  Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Sendy Gle strictive Le Type: Depth (Inch marks: DROLOG stland Hydr mary Indica Surface W High Wate	yer (if present):  Y  Ology Indicators: tota (minimum of one required: later (A1) or Table (A2)	Selt Crust (B11) Blotic Crust (B12)	Hydric Soil Present? Ves No  Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Sendy Gle strictive Le Type: Depth (Inch marks:  DROLOG stland Hydr mary Indica Migh Wate Seturation	yer (if present):  Y  Ology Indicators: tors (minimum of one required: fater (A1) or Table (A2) or (A3)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13)	Hydric Soil Present? Ves No
Sendy Gle serictive Le Type: Depth (inch marks:  DROLOG  etiand Hydr mary indice Serimeter Seturation Weter Met	yer (if present):  (Y  ology Indicators:  tors (minimum of one required: later (A1)  or Table (A2)  (A3)  rics (B1) (Nonriverine)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Suffide Odor (C1)	Hydric Sall Present? Yes Ne
Sendy Gle serictive Le Type: Depth (Inch imarks:  DROLOG stland Hydr mary Indica Surface W, High Wate Seturation Water Met Sediment	Y  Ology Indicators: tors (minimum of one required; later (A1)  * Table (A2) (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertabrates (B13) Hydrogen Suifflet Odor (C1) Oxidized Rhizospheres along Living	Hydric Soli Present? Yes Ne
Sendy Gle strictive Le Type: Depth (Inch marks;  DROLOG stland Hydr mary Indica: Surface W High Wate Seturation Water Mail Seddment Drift Depo	yer (if present):  Y  Ology Indicators: tors (minimum of one required; later (A1) or Table (A2) (A3) rice (B1) (Nonriverine) Deposits (B2) (Nonriverine) eits (B3) (Nonriverine)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertabrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Presence of Reduced iron (C4)	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B1) Roots (C3) Dry-Seach Water Table (C2) Crayfish Burrows (C8)
Sendy Gle serictive Le serictive Le serictive Le Type: Depth (Inch marks: DROLOG stland Hydr mary Indica: Surface W High Wat Seturation Water Mat Sediment Drift Depo Surface S	Y  Yology Indicators:  tors (minimum of one required: fater (A1) fat (A2) fas (B2) (Nonriverine) Deposits (B2) (Nonriverine) atts (B3) (Nonriverine) oil Cracks (B6)		Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  s (C6)  Saturation Visible on Aerial Imagery (C
Sendy Gle serictive Le Type: Depth (Inch marks:  DROLOG stland Hydr mary Indica Surface W High Wate Seturation Water Mate Sediment Drift Depo Surface S Inundation	IV  rology Indicators:  tors (minimum of one required: later (A1) or Table (A2) (A3) rks (B1) (Nonriverine) Deposits (B2) (Nosriverine) sits (B3) (Nonriverine) oil Cracks (B6) o Visible on Aerial Imagery (B7)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced fron (C4) Recent Iron Reduction in Tilled Solit Thin Muck Surface (C7)	Secondary indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Dreinege Patterns (B10)  Roots (C3)  Crayfish Burrows (C8)  (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Sendy Gle serictive Le Type: Depth (Inch marks:  DROLOG  Edand Hydre mary Indica Surface W High Wate Seturation Water Male Sediment Drift Depo Surface S inundeabor Water-Ste	yer (if present):  Y  ology indicators:  tors (minimum of one required: later (A1) or Table (A2) (A3) (Fast (B3) (Nonriverine)  pleposits (B3) (Nonriverine) oil Craoks (B6) Visible on Aerial Imagery (B7) ined Lesves (B9)		Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  s (C6)  Saturation Visible on Aerial Imagery (C
Sendy Gle sethictive Le Type: Depth (Inch marks:  DROLOG stland Hydr mary Indica Surface W High Wate Seturation Water Mea Sufface S Inundator Water-Ste Seld Observe	yer (if present):  Y  ology indicators:  tors (minimum of one required;  fater (A1)  of Table (A2)  ((A3)  fas (B1) (Nonriverine)  beposits (B2) (Nosriverine)  sits (B3) (Nonriverine)  oil Craoks (B6)  it Visible on Aerial Imagery (B7)  ined Lesves (B9)  ittons:	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Suiffed Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soilt Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Dreinage Patterns (B10)  Roots (C3)  Crayfish Burrows (C8)  (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)
Sendy Gle serictive Le Type: Depth (Inch marks:  DROLOG stand Hydr mary Indica: Seturation Water Met Seturation Water Met Sediment Drift Depo Surface S Inundetior Water-State	Y  rology Indicators:  tors (minimum of one required: /fatr (A1)  r Table (A2)  r (A3)  r (A3)  Deposits (B2) (Nonriverine)  posits (B2) (Nonriverine) oil Cracks (B6)  Visible on Aerial Imagery (B7) ined Leaves (B9)  titons:  Present? YesNo	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced fron (C4) Recent Iron Reduction in Tilled Solit Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drenage Patterns (B10)  Roots (C3) Dry-Season Water Table (C2)  Crayfish Burrows (C6)  Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Sendy Gle setrictive Le Type: Depth (Inch imarks:  DROLOG detand Hydr imary indica: Surface W High Wate Seturation Water Mas Sediment Drift Depo Surface S Inundation Water-Ste det Otiserve riface Server ster Table P	Y  rology indicators: tors (minimum of one required: fater (A1) r Table (A2) (A3) (A6) Deposits (B2) (Nosriverine) sits (B3) (Nosriverine) oil Cracks (B6) Visible on Aerial Imagery (B7) ined Lesves (B9) witions: Present? YesNo	Selt Crust (B11) Blotic Crust (B12) Aquelic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced iron (C4) Recent Iron Reduction in Tilled Solit Thin Muck Surface (C7) Other (Explain in Remarks) Depth (Inches):	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drahage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Crayfish Burrows (C6)  Saturation Visible on Aerial Imagery (C  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Sendy Gle serictive Le Type: Depth (Inch marks:  DROLOG stand Hydr mary Indica Hydr mary Indica Hydr Mary Indica Hydr Mary Indica Hydr Mary Indica Hydr Mary Indica Hydr Mary Indica Hydr Mary Indica Hydr Mary Indica Hydr Mary Indica Hydr Mary Indica Hydr Hydr Hydr Hydr Hydr Hydr Hydr Hydr	yer (if present):  yes):  s  yes  yes  yes  yes  yes  ye	Selt Crust (B11) Blotic Crust (B12) Aquelic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced iron (C4) Recent Iron Reduction in Tilled Solit Thin Muck Surface (C7) Other (Explain in Remarks) Depth (Inches):	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B10) Roots (C3) Dry-Seach Water Table (C2) Crayfish Burrows (C6) Seturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sendy Gle servictive Le Type: Depth (Inch emarks:  DROLOG edland Hydr imary Indica: Surface W High Wate Sediment Drift Depo Surface S Inundation Water-Ste I	yer (if present):  yes):  s  yes  yes  yes  yes  yes  ye	Seit Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solit Thin Muck Surface (C7) Other (Explain in Remarks) Depth (Inches): Depth (Inches):	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B10) Roots (C3) Dry-Seach Water Table (C2) Crayfish Burrows (C6) Seturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sendy Gle self-tctive Le Type: Depth (Inch smarks;  DROLOG etland Hydr imery indice High Wate Seturation Water Mes Sedment Drift Depo Surface S inundation Water Set water Set indetion Water Set inundation water Set inun	yer (if present):  yes):  s  yes  yes  yes  yes  yes  ye	Seit Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solit Thin Muck Surface (C7) Other (Explain in Remarks) Depth (Inches): Depth (Inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B10) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Seturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)

plicant/Owner:		11-7- State: WA Sampling Point: DP
		inge: 532 TIBN 2145
		convex, none): Slope (%):
		Long: Detum:
oil Map Unit Nams:		NWI classification:
re climatic / hydrologic conditions on the site typical for	this time of year? Yes UNO	(if no, explain in Remarks.)
re Vegetation Soil, or Hydrology		"Normal Circumstances" present? YesNo
re Vegetation, Soil, or Hydrology	·	eeded, explain any answers in Remarks.)
		locations, transects, important features, etc
Hydric Soil Present? Yes	No Is the Sampled within a Wetlan	
Romaiks: Granted irriga	tel pushe	
EGETATION – Use scientific names of p	lants.	
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 Strata: (8)
k		
Sapling/Shrub Stratum (Plot size:)	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
1		Prevalence Index worksheet:
2.		Total % Cover of: Multiply by:
3.		OBL species x1 ×
·		FACW species x2 =
5.		FAC species x3 =
Herb Stratum (Plot size:)	= Total Cover	FACU species x4=
Juseus believe	Cel Fra	UPL species x5 =
Fester	40 Fre	Column Totals: (A) (B)
3.		Prevalence Index = B/A =
		Hydrophysit Vegetation Indicators:
5.		Ominance Test is >50%
		Prevalence index is ≤3.01
7		Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
5		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover	- commissions (1300 obstant collemnate)
1		Indicators of hydric soli and wetland hydrology must be present, unless disturbed or problematic.
2		
	= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % C	over of Biotic Crust	Present? Yes No
A Date Chouse hilled De annii		
Remarks:		

roffic Description: (Describe to the dep	th needed to document the indicator or	confirm the absence	e of Indicators.)
Depth Matrix	Redox Features		
nches) Color (moist) %		oc² Texture	Remarks
8 10H2/2			
10113/2	c ==	3.	1 6-
			•
		<del></del>	
	**************************************		
	=Reduced Matrix, CS=Covered or Coated S		ocation: PL=Pore Lining, M=Matrix.
ydric Soil indicators: (Applicable to all			rs for Problemetic Hydric Solls <sup>1</sup> :
_ Histosol (A1)	Sandy Redox (S5)		Muck (A9) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S8)		Muck (A10) (LRR B)
_ Black Histic (A3) Hydrogen Sutfide (A4)	Loamy Mucky Mineral (F1)		iged Vertic (F18)
_ Stratified Layers (A5) (LRR C)	Loamy Gleyed Matrix (F2) Deathted Matrix (F3)		Parent Material (TF2) r (Explain in Remarks)
1 cm Muck (A8) (LRR D)	Redox Dark Surface (F6)	One	e (cxbass in veneral)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
_ Thick Dark Surface (A12)	Redox Depressions (F6)	\$Indicator	s of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)		d hydrology must be present.
			disturbed or problematic.
Sendy Gieved Matrix (S4)			
Sendy Gleyed Matrix (S4) satrictive Leyer (if present):	······································		
satrictive Leyer (if present): Type:			ill Present? YesNo
satrictive Leyer (if present): Type:			
estrictive Leyer (if present): Type:			
satrictive Leyer (if present): Type: Depth (inches): emarks:			
estrictive Layer (if present): Type: Depth (inches): emerks:  /DROLOGY /fetland Hydrology Indicators:	d; check all that apply)	Hydric Sc	
estrictive Layer (if present): Type: Depth (inches): emerks:  /DROLOGY /fetland Hydrology Indicators:	d: check all that apply) Selt Crust (811)	Hydric Sc	ill Present? YesNo
satrictive Layer (if present):  Type: Depth (Inches): emarks:  /DROLOGY  fetland Hydrology Indicators: timary Indicators (minimum of one required)Surface Water (A1)		Hydric Sc	ill Present? Yes No_
setrictive Layer (if present): Type: Depth (inches): emarks:  **PROLOGY**  Fetfand Hydrology Indicators: timery Indicators (ininimum of one require	Selt Crust (B11) Biotic Crust (B12)	Hydric Sc	ill Present? Ves No
setrictive Layer (if present): Type: Depth (inches): emerks:  /DROLOGY fetland Hydrology Indicators: rimary Indicators (minimum of one required Thigh Water (A1) High Water Table (A2)	Seit Crust (B11) Blotic Crust (B12) Aquetic Invertebretes (B13)	Hydric Sc	ondary indicators I2 or more resuired  Water Marks (B1) (Riverine) Sadiment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
setrictive Layer (if present): Type: Depth (inches): emarks:  /DROLOGY  fetland Hydrology Indicators: rimary Indicators (minimum of one requires Surfacy Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivarine)	Seit Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1)	Hydric Sc	ondary indicators i2 or more resuired Water Marks (B1) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Draft Deposits (B3) (Riverine) Draft Deposits (B3)
setrictive Layer (if present):  Type: Depth (Inches): emarks:  /DROLOGY  fetland Hydrology Indicators: rimery Indicators (minimum of one requirer Surfacy Water (A1) High Water Table (A2)  Seturation (A3) Water Marks (B1) (Nonrivertine) Sediment Deposits (B2) (Nonrivertine)	Seit Crust (B11) Blotic Crust (B12) Aquetic invertabretes (B13) Hydrogen Suffice Odor (C1) Oxidized Rhizospheres along Livi	Hydric Sc	ondary indicators i2 or more required Water Marks (81) (Riverine) Sediment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Drawage Patterns (81) Dry-Season Water Table (C2)
setrictive Layer (if present): Type: Depth (inches): emarks:  //DROLOGY  refland Hydrology indicators: rimary indicators (ininimum of one requires Surfacy Water (A1) Hygr Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivarine) Sediment Deposits (B2) (Nonrivarine) Drift Deposits (B3) (Nonrivarine)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Livi Presence of Reduced Iron (C4)	Hydric Sc	ondary indicators (2 or more resuired) Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drahage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
setrictive Layer (if present): Type: Depth (inches): semarks:  //DROLOGY fetland Hydrology Indicators: rimary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Montivariae) Sediment Deposits (B2) (Nonrivariae) Drift Deposits (B3) (Montivariae) Surface Soil Cracks (B6)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertabrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Si	Hydric Sc	ondary indicators I2 or more resulted! Water Marks (B1) (Riverine) Sadiment Deposits (B2) (Riverine) Drith Deposits (B3) (Riverine) Drithage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeried Imagery (
setrictive Layer (if present): Type: Depth (Inches): semarks:  //DROLOGY  fetland Hydrology Indicators: rimery Indicators (minimum of one required Surfacy Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrivertne) Sadiment Deposits (B2) (Nonrivertne) Drift Deposits (B3) (Nonrivertne) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertabrates (B13) Hydrogen Sutfide Odor (C1) Oxidized Rhizospheras along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St	Hydric Sc	ondary indicators (2 or more resuired) Water Marks (B1) (Riverine) Drift Deposits (B3) (Riverine) Dreposason Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeriel Imagery ( Shallow Aquitard (D3)
setrictive Layer (if present): Type: Depth (inches): emarks:  PDROLOGY  fetland Hydrology Indicators: timery indicators (minimum of one requires Surfacy Water (A1) High Water Table (A2)  Saturation (A3) Water Merks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerfal Imagery (B' Water-Steined Leaves (B9)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertabrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Si	Hydric Sc	ondary indicators I2 or more resulted! Water Marks (B1) (Riverine) Sadiment Deposits (B2) (Riverine) Drith Deposits (B3) (Riverine) Drithage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeried Imagery (
setrictive Layer (if present): Type: Depth (inches): emarks:  //DROLOGY  refeted Hydrology indicators: rimary indicators ininimum of one requirer surfacy Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivarine) Sediment Deposits (B2) (Nonrivarine) Drift Deposits (B3) (Nonrivarine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B' water-Steined Leaves (B9)	Seit Crust (B11) Biotic Crust (B12) Aquetic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Si 7) Thin Muck Surface (C7) Other (Explain in Remarks)	Hydric Sc	ondary indicators (2 or more resuired) Water Marks (B1) (Riverine) Drift Deposits (B3) (Riverine) Dreposason Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeriel Imagery ( Shallow Aquitard (D3)
setrictive Layer (if present): Type: Depth (inches): semarks:  POROLOGY  fetland Hydrology Indicators: rimary Indicators (innimum of one requires Surfacy Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivariae) Sediment Deposits (B2) (Nonrivariae) Drift Deposits (B3) (Nonrivariae) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Steined Leaves (B9) feld Observations: urface Water Present?  Yes	Seit Crust (B11)  Biotic Crust (B12)  Aquetic invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheras along Livi  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S  Thin Muck Surface (C7)  Other (Explain in Remarks)	Hydric Sc	ondary indicators (2 or more resuired) Water Marks (B1) (Riverine) Drift Deposits (B3) (Riverine) Dreposason Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeriel Imagery ( Shallow Aquitard (D3)
setrictive Layer (if present): Type: Depth (inches):	Seit Crust (B11)  Biotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheras along Livi  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S  Thin Muck Surface (C7)  Other (Explain in Remarks)	Hydric Sc	ondary Indicators I2 or more required) Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dromage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeries Imagery ( Shatlow Aquitard (D3) FAC-Neutral Test (D5)
setrictive Layer (if present): Type: Depth (inches): semarks:  PDROLOGY  fetiand Hydrology Indicators: rimary Indicators (innimum of one required Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Monrivariase) Sediment Deposits (B2) (Nonrivariase) Drift Deposits (B3) (Monrivariase) Drift Deposits (B3) (Monrivariase) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Steined Leaves (B9) feld Observations: urface Water Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes	Seit Crust (B11) Biotic Crust (B12) Aquetic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Other (Explain in Remarks) No Depth (Inches): No Depth (Inches):	Hydric Sc Sec Ing Roots (C3) Inglie (C6) Wetland Hydrolo	ondary Indicators I2 or more required) Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dromage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeries Imagery ( Shatlow Aquitard (D3) FAC-Neutral Test (D5)
petrictive Leyer (if present): Type: Depth (Inches): emarks:  PDROLOGY  retiand Hydrology Indicators: finary Indicators (minimum of one requires Surface Water (A1) Hydr Water Table (A2) Seturation (A3) Water Marks (B1) (Monrivariae) Sediment Deposits (B2) (Nonrivariae) Drift Deposits (B3) (Monrivariae) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Steined Leaves (B9) ield Observations: urface Water Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes	Seit Crust (B11)  Biotic Crust (B12)  Aquetic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheras along Livi  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S  Thin Muck Surface (C7)  Other (Explain in Remarks)	Hydric Sc Sec Ing Roots (C3) Inglie (C6) Wetland Hydrolo	ondary Indicators I2 or more required) Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dromage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeries Imagery ( Shatlow Aquitard (D3) FAC-Neutral Test (D5)
setrictive Leyer (if present): Type: Depth (inches): emarks:  PDROLOGY fetland Hydrology indicators: rimary indicators (minimum of one requires surfacy Water (A1) High Water Table (A2) Seturetion (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Crack (B6) Inundation Visible on Aerial Imagery (B Water-Steined Leaves (B9) feld Observations: Vater Table Present? Vater Table Present? Yes sturstion Present? Yes sturstion Present? Yes richudes capillary frings) escribe Recorded Data (stream gauge, mo	Seit Crust (B11) Biotic Crust (B12) Aquetic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Other (Explain in Remarks) No Depth (Inches): No Depth (Inches):	Hydric Sc Sec Ing Roots (C3) Inglie (C6) Wetland Hydrolo	ondary Indicators I2 or more required) Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dromage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeries Imagery ( Shatlow Aquitard (D3) FAC-Neutral Test (D5)
setrictive Layer (if present): Type: Depth (inches): semarks:  PDROLOGY  fetiand Hydrology Indicators: rimary Indicators (innimum of one required Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Monrivariase) Sediment Deposits (B2) (Nonrivariase) Drift Deposits (B3) (Monrivariase) Drift Deposits (B3) (Monrivariase) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Steined Leaves (B9) feld Observations: urface Water Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes	Seit Crust (B11) Biotic Crust (B12) Aquetic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S 7) Other (Explain in Remarks) No Depth (Inches): No Depth (Inches):	Hydric Sc Sec Ing Roots (C3) Inglie (C6) Wetland Hydrolo	ondary Indicators I2 or more required) Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dromage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeries Imagery ( Shatlow Aquitard (D3) FAC-Neutral Test (D5)

wetc

#### WETLAND DETERMINATION DATA FORM - Arid West Region

City/C	JOURNY	. H. tas Sampling Date: 10-	
		State:Sempling Point:	
- 9/		Sign Tight 219 5	
Lat:			
	10		
•			
ogy naturally problem	atic? (If ne	seded, explain any answers in Remarks.)	
site map showing san	npling point l	ocations, transects, important features,	etc.
. /		······································	
No	Is the Sampled		
	within a Wetler	nd? Yes No	
righted push			
· •			
Absolute Dor		la	1
		That Are OBL, FACW, or FAC:	v)
		Total Number of Dominant	
		Species Across Ali Strate: (E	3)
	tal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:	VB)
<del>)</del>		Prevalence Index worksheet:	
		Total % Cover of: Multiply by:	
		OBL species x1 =	
		FACW species x2=	
= To	ital Cover		l
SD	FAC		
-Tue 37)	FA V	Column Totals: (A)	(8)
		Prevalence Index = B/A =	
		Hydrophytic Vegetation Indicators:	_
		Dominance Test is >50%	
		Prevalence Index is ≤3.01	1
		Morphological Adaptations1 (Provide supporting	3
		1	1
= To	dal Cover		
		1 Indicators of hydric soil and welland hydrology mus	at
		be present, unless disturbed or problematic.	
		Hydrophytic	
		Vegetation	
		riusefit/ 185No	
	Loca  Let:  Itypical for this time of year? \\ logy	Local relief (concave,  Lat:  Litypical for this time of year? Yes No_ logy significantly disturbed? Are ' logy naturally problematic? (if no is atternap showing sampling point I  se No is the Sampler within a Wetlan  No within a Wetlan  Absolute Dominant indicator '\$6 Cover (Species? Status)  = Total Cover = Total Cover   = Total Cover = Total Cover   = Total Cover	Lat:

SOIL		Sampling Point
Profile Description: (Describe to the d	epth needed to document the indicator or co	rifirm the absence of Indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type Lo	c <sup>2</sup> Texture Remarks
16 104212	<u> </u>	and the
	<del></del>	
		·
	-	
Trans CoConsentation DeDonicales D	M=Reduced Matrix, CS=Covered or Costed Se	nd Grains. *Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a		Indicators for Problematic Hydric Soils1:
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remerks)
1 cm Muck (A8) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sendy Gleyed Matrix (S4) Restrictive Lever (if present):		unises disturbed or problematic.
Type:		
Depth (Inches):		Hydric Soil Present? Yes NoNo
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary indicators (minimum of one requi	and shoot all that anni.	Parameters testimeters (7 many itit)
		Secondary indicators (2 or more required)
Surface Water (A1)	Selt Crust (B11)	Water Marks (B1) (Riverine)
	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquetic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Daposits (B2) (Nonrivering Drift Deposits (B3) (Nonrivering)	. —	Roots (C3) Dry-Season Water Table (C2)
Surface Soil Cracks (B6)	Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soil	Crayfish Burrows (C8)  s (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery		• • •
Water-Stained Leaves (69)	B7) Thin Muck Surface (C7) Other (Explain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Observations:	Outer (Explain in Remarks)	FAC-Negural rest (UG)
Surface Water Present? Yes	No Depth (inches):	ı
		' /
Water Table Present? Yes	No Depth (Inches):	
Saturation Present? Yes (Includes capillary fringe)	No Depth (Inches):	Wetland Hydrology Present? Yes No
	monitoring well, aerial photos, previous inspecti	ons), if available:
		-
Remarks:		

	y: Kithitas Sampling Date: 10-7-
olicant/Owner:	State: WA Sampling Point: DP h
restigator(s): <u>24 Scmll</u> Section, To	ownship, Range: S32 TIBN 2195
ndform (hillslope, terrace, etc.); Local refie	f (conceve, convex, none): Slope (%):
bregion (LRR):Lat;	Long: Datum:
ili Map Unit Name:	NWI classification:
e climatic / hydrologic conditions on the site typical for this time of year? Yes _	No (If no, explain in Remarks.)
e Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? YesNo
e Vegetation, Soil or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site map showing sampling	ig point locations, transects, important features, etc.
hydrophytic Vegetation Present? YesNo	
lydric Soil Present? Yes No	he Sampled Area hin a Wetland? Yes No
Vetland Hydrology Present? YesNo	Bin a Wedeng? Tes NO
EGETATION - Use scientific names of plants.	
Absolute Dominan	t Indicator   Dominance Test worksheet:
ree Stretum (Plot size:) % Cover_Species?	LANGUAGE OF CHANGES OF CHARGE
•	
	Local Mountain or Dollmann 3
	Species Across Ali Strata: (8)
= Total C	over Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	
,	OBL species x1 =
,	FACW species x2 =
	FAC species x3 =
= Total C	
lerb Stratum (Plot size:)	FAC UPL species x5=
·	Column Totels:(A)(B)
),	Prevalence Index = B/A =
•	Hydrophytic Vegetation indicators:
j	Dominence Test is >50%
)	Prevalence Index is ≤3.01
	Morphological Adaptations1 (Provide supporting date in Remarks or on a separate sheet)
, <u></u>	Problematic Mudraphytic Venetation (Fundair)
Voody Vine Stratum (Plot size: )	DVer
*	'Indicators of hydric soil and wedland hydrology must be present, unless disturbed or publishmatic.
<u> </u>	
≈ Total C	over Hydrophytic Vegetation
% Bare Ground in Herb Stratum	

roffle Description: (Describe to the depth	needed to document the indicator or	Sampling Point
		committee appeared or indicators.)
apth Metrix nches) Color (moist) %	Redox Features Color (moist) % Type! L	oc Texture Remarks
16 10112		Della Fra
<del></del>		
pe: C=Concentration, D=Depletion, RM=R	educed Matrix, CS=Covered or Coated S	and Grains. *Location: PL=Pore Lining, M=Metrix.
rdric Soll Indicators: (Applicable to all LF	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis <sup>†</sup> :
_ Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S8)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (AS) (LRR D) Depleted Below Dark Surface (A11)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present.
Sandy Gleyed Metrix (S4)		unless disturbed or problematic.
strictive Layer (if present):	<del></del>	
Type:		
Depth (Inches):		Hydric Soli Present? Yes No
		Tryonc don Fresenti 185 NO
emarks:		nyono our resenti sus insulation
emarks:		Injustic Suit Present: Tes 1
DROLOGY		njunt dur Present Tes Ne
DROLOGY etland Hydrology Indicators:	object all that analy)	
DROLOGY stland Hydrology Indicators: mary Indicators (minimum of one required: s		Secondary indicators (2 or more required)
DROLOGY stiand Hydrology Indicators: imary Indicators (ininimum of one required; f . Surfecs Water (A1)	Selt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
DROLOGY stiand Hydrology Indicators: imary indicators (minimum of one required: f Surface Water (A1) High Water Table (A2)	Selt Crust (B11) Blotic Crust (B12)	Secondary indicators (2 or more required)  — Water Marks (B1) (Riverine)  — Sediment Deposits (B2) (Riverine)
DROLOGY  Itland Hydrology Indicators: mary indicators (minimum of one required; s Surface Weter (A1) High Water Table (A2) Seturation (A3)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertabrates (B13)	Secondary indicators (2 or more resulted)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
DROLOGY stland Hydrology Indicators: mary Indicators (minimum of one required; s Surface Weter (A1) High Weter Table (A2) Seturation (A3) Water Merks (B1) (Nonriverine)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffice Odor (C1)	Secondary Indicators (2 or more resulted)  Water Marks (B1) (Riverine)  Secondary Indicators (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Oralnage Patterns (B10)
DROLOGY  ettand Hydrology Indicators: imary indicators (minimum of one required: Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonrivertne)  Sodiment Deposits (B2) (Nonrivertne)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres along Livit	Secondary Indicators (2 or more resuired)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drainage Patterns (B10)  ng Roots (C3)  Dry-Season Water Table (C2)
DROLOGY  ettend Hydrology Indicators: imary indicators (minimum of one required; s  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Merks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)
DROLOGY  stland Hydrology Indicators: mary indicators (minimum of one required; s Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivertine) Sediment Deposits (B2) (Nonrivertine) Drift Deposits (B3) (Nonrivertine) Surface Soil Cracks (B6)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sufflec Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	Secondary indicators (2 or more required)  Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C3) Saturation Visible on Aerial Imagery (C
DROLOGY  stland Hydrology Indicators: mary indicators (minimum of one required; s  Surface Weter (A1)  High Water Table (A2)  Seturation (A3)  Water Merks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sufflec Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	Secondary Indicators (2 or more resulred)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shellow Aquitard (D3)
DROLOGY  stland Hydrology Indicators: imary indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Satursion (A3) Water Merks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Steined Leaves (B9)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sufflec Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	Secondary indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C3) Saturation Visible on Aerial Imagery (C1)
DROLOGY  stiand Hydrology Indicators: imary Indicators (minimum of one required; s  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Merks (B1) (Nonriverine)  Sodiment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Steined Leaves (B9)	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Suiffide Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Otiper (Expilatin in Remarks)	Secondary Indicators I2 or more resuired)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeriel Imagery (Cl
DROLOGY  ettend Hydrology Indicators: imary Indicators (minimum of one required; s Surface Water (A1)  High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivertne) Sediment Deposits (B2) (Nonrivertne) Drift Deposits (B3) (Nonrivertne) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffide Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Otter (Explain in Remarks)	Secondary Indicators I2 or more resuired)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeriel Imagery (Cl
TOROLOGY  etland Hydrology Indicators: Imary Indicators (minimum of one required; s Surface Water (A1)  High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivertine) Sediment Deposits (B2) (Nonrivertine) Drift Deposits (B3) (Nonrivertine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes No	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffide Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Otiper (Explain in Remarks)	Secondary indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C3) Saturation Visible on Aerial Imagery (Ci Shellow Aquitard (D3) FAC-Neutral Test (D5)
FDROLOGY  lettand Hydrology Indicators: tmary indicators (minimum of one required: surface Water (A1)  High Water Table (A2) Seturation (A3)  Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)  Water-Steined Leaves (B9) eld Observations: urface Water Present?  Yes No sturation Present?  Yes No	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffide Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Otiper (Explain in Remarks)	Secondary Indicators I2 or more resuired)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aeriel Imagery (Cl
TOROLOGY  etland Hydrology Indicators: Imary Indicators (minimum of one required; s Surface Water (A1)  High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivertine) Sediment Deposits (B2) (Nonrivertine) Drift Deposits (B3) (Nonrivertine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes No	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffice Odor (C1) Oxidized Ritizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Ottper (Explain in Remarks)  Septin (inches): Deptin (inches):	Secondary Indicators (2 or more required)
DROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one required; s Surface Wester (A1)  High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivertine) Sediment Deposits (B2) (Nonrivertine) Drift Deposits (B3) (Nonrivertine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) etd Observations: urface Water Present? Yes No sturation Present? Yes No sturation Present? Yes No	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffice Odor (C1) Oxidized Ritizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Ottper (Explain in Remarks)  Septin (inches): Deptin (inches):	Secondary Indicators (2 or more required)
DROLOGY  stland Hydrology Indicators: mary indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) iid Observations: rface Water Present? Yes No ster Table Present? Yes No ster Table Present? Yes No ster Table Present? Yes No ster Table Present? Yes No ster Table Present? Yes No	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffice Odor (C1) Oxidized Ritizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Ottper (Explain in Remarks)  Septin (inches): Deptin (inches):	Secondary Indicators (2 or more required)
DROLOGY  attend Hydrology Indicators: imary indicators (minimum of one required; s Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonrivertine) Sodiment Deposits (B2) (Nonrivertine) Orift Deposits (B3) (Nonrivertine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) sid Observations: urface Water Present? Yes No ater Table Present? Yes No cludes capillary fringe)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffice Odor (C1) Oxidized Ritizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Ottper (Explain in Remarks)  Septin (inches): Deptin (inches):	Secondary Indicators (2 or more required)
DROLOGY  stiand Hydrology Indicators: Imary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) sid Observations: Trace Water Present? Yes No ater Table Present? Yes No sturation Present? Yes No cluration Present? Yes No	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffice Odor (C1) Oxidized Ritizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Ottper (Explain in Remarks)  Septin (inches): Deptin (inches):	Secondary Indicators (2 or more required)
DROLOGY  stland Hydrology Indicators: mary indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) iid Observations: rface Water Present? Yes No ster Table Present? Yes No ster Table Present? Yes No ster Table Present? Yes No ster Table Present? Yes No ster Table Present? Yes No	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suiffice Odor (C1) Oxidized Ritizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled St Thin Muck Surface (C7) Ottper (Explain in Remarks)  Septin (inches): Deptin (inches):	Secondary Indicators (2 or more required)

WET! AND	DETERMINATION DATA FORM	- Arid Wast Racion
		(.++.+-s Sampling Date: 10-7-21
roject/Site:	City/County:	Sempling Date: 10
oplicant/Owner:	<del></del>	State: WA Sampling Point: DP#45
		lange: 532 T/8N 2/9 =
		s, convex, none); Slope (%);
ubregion (LRR):		Long: Datum:
il Map Unit Name:		NWI classification:
e climatic / hydrologic conditions on the site typi	Ical for this time of year? Yes No	(if no, explain in Remarks.)
e Vegetation, Soil, or Hydrology	significantly disturbed? Are	"Normal Circumstances" present? Yes No
e Vegetation, Soll or Hydrology	naturally problematic? (If i	needed, explain any anawers in Remarks.)
UMMARY OF FINDINGS - Attach sit	te map showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soll Present? Yes	No la the Sample	
ryand Son Present? Yes Wetland Hydrology Present? Yes	No within a Weti	and? Yes No
B		
granzadi ira	ighted prisher	
	•	
EGETATION - Use scientific names		
nee Stratum (Ptot size:)	Abeclute Dominant Indicator <u>% Cover Species? Status</u>	1
		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		Total Number of Dominant
•		
<sup>)</sup> •		Species Across All Strata: (B)
\$		
·	= Total Cover	Species Acrose All Streta: (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
·	= Total Cover	
Saping/Shrub Stratum (Plot size:	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapiling/Shrub Stratum (Plot size:	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:
Seniing/Sinvib Stratum (Plot size:	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:
6. <u>Sapiłno/Shrub Stratum</u> (Plot size:	= Total Cover	Percant of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:
Saping/Shrub Stratum (Plot size:	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  FACW species  FACW species  FAC species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species
Saniing/Shrub Stratum (Plot size:	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  FACW species  FAC species  FAC species  FAC species  V1 =  FACW species  V2 =  FACW species  V3 =  FACW species  V4 =  UPL species  V5 =
Baniing/Shrub Stratum (Plot size:	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  FACW species  FACW species  FAC species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species  FACU species
Baniing/Shrub Stratum (Plot size:	= Total Cover	Percent of Dominant Species
Saciling/Shrub Stratum (Plot size:  Saciling/Shrub Stratum (Plot size:  Saciling/Shrub Stratum (Plot size:  Shrub Stratum (Plot size:  Shrub Stratum (Plot size:  Shrub Stratum (Plot size:  Shrub Stratum (Plot size:	= Total Cover  = Total Cover  50 Fg ( L	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  FACW species  FACW species  FAC species  FA
Sanitno/Shrub Stratum (Plot size:	= Total Cover  = Total Cover  50 Fig.(L)  57 Fig.(L)	Percent of Dominant Species That Are OBL, FACW, or FAC:    Prevalence Index worksheet:   Total % Cover of:
Sapino/Shrub Stratum (Plot size:	= Total Cover  = Total Cover  50 Fq.(L) 50 FA(L)	Percent of Dominant Species That Are OBL, FACW, or FAC:    Prevalence Index worksheet:   Total % Cover of:
Sapino/Shrub Stratum (Plot size:	= Total Cover  = Total Cover  50 Fig.(L)  57 Fig.(L)	Percent of Dominant Species That Are OBL, FACW, or FAC:    Prevalence Index worksheet:   Total % Cover of:
Sapino/Shrub Stratum (Plot size:	= Total Cover  = Total Cover  50 F4-(L)  57 F4-CL	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  FACW species  FACW species  FAC species  FA
Sapino/Shrub Stratum (Plot size:  Sapino/Shrub Stratum (Plot size:  Samuration  Electron (Plot size:  Electron (Plot size:  Samuration  Electron (Plot size:  Samuration  Electron (Plot size:  Samuration  Electron (Plot size:  Samuration  Electron (Plot size:  Samuration  Electron (Plot size:  Electron (Plot	= Total Cover  = Total Cover  FACL  = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  X 1 = FACW species  X 2 = FACW species  X 3 = FACU species  X 4 =  UPL species  X 5 = Column Totals:  (A)  (B)  Prevalence Index = B/A =  Hydrophysic Vegetation indicators:  Sominance Test is >50%  Prevalence Index is \$3.0°  Morphological Adaptational (Provide supporting data in Remarks or on a separate sheet)
Santing/Shrub Stratum (Plot size:  Santing/Shrub Stratum (Plot size:  Santing Stratum (Plot size:  Shockers;  Woody Vine Stratum (Plot size:	= Total Cover  = Total Cover  FACL  = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  FACW species  FACW species  FAC species  FACU specie
Saping/Shrub Stratum (Plot size:  1. 2. 3. 4. 5. Herb Stratum (Plot size:  2. 2. 2. 2. 3. 4. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	= Total Cover  = Total Cover  FO F9-(1)  FICL  Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  **X =
Sacing/Sinub Stratum (Plot size:  2. 3. 4. 5. 5. 6. 7. 7. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	= Total Cover  = Total Cover  FO F9-(1)  FICL  Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply by:  OBL species  FACW species  FACW species  FAC species  FAC species  FACW species  FAC species
Saning/Shrub Stratum (Plot size:  1. 2. 3. 4. 5. Herb Stratum (Plot size: 2. 2. 2. 2. 3. 4. 5. 5. 6. 6. 7. 8.  Woody Vine Stratum (Plot size: 1.	= Total Cover  = Total Cover  Fig. (1)  Tital Cover  = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  X 1 = FACW species  X 2 = FACW species  X 3 = FACU species  X 4 =  UPL species  X 5 = Column Totals:  (A)  (B)  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)  Problematic Hydrophytic Vegetation' (Explain)  'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

IOIL		Sampling Point
Profile Description: (Describe to the	depth needed to document the indicator or	confirm the absence of indicators.)
Depth Matrix	Redox Features	
inches) Color (moist) %	Color (maist) % Type*	Loc Texture Remarks
16 102211	_ cnd	suly in
•		7
		**************************************
Type: C=Concentration, D=Depletion, F	RM=Reduced Matrix, CS=Covered or Costed S	Sand Grains. Location: PL=Pore Lining, N=Metrix.
ydric Soll Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis <sup>3</sup> :
_ Histosol (A1)	Sendy Redox (\$5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S8)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
_ 1 cm Muck (AS) (LRR D)	Dedox Dark Surface (F6)	
Depleted Below Dark Surface (A11)		
Thick Dark Surface (A12)	Redox Depressions (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sendy Gleyed Matrix (S4) lestrictive Leyer (If present):		unless disturbed or problematic.
• • • •		
Тура:		
Depth (Inches):		Hydric Soli Present? Yes No
YDROLOGY		
Vetland Hydrology Indicators:		
rimary indicators (minimum of one requ	ired; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Selt Crust (B11)	Water Marks (B1) (Riverine)
_ High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Seturation (A3)	Aquetic invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (E1) (Nonriverine)	Hydrogen Suifide Odor (C1)	Drainage Patterns (B10)
Sadiment Daposits (B2) (Nonriverin		ing Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled S	
Inundation Visible on Aerial Imagery		Shallow Aquitard (D3)
Water-Steined Leaves (69)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
ield Observations:		
iurface Water Present? Yes	No Depth (Inches):	
Vater Table Present? Yes	No Depth (inches):	
Saturation Present? Yes includes capitlary fringe)	No Depth (Inches):	Wetland Hydrology Present? Yes No
	monitoring well, serial photos, previous inspec	ctions), if available:
,		
Remarks:		
restronto.		

roject/Site:		City/County:	ittitus	Sampling Date: 10 - 7 - 7
opticant/Owner:			State: WA	- Sampling Point: DP#
vestigator(s): <u>July</u> Scr	mll	Section, Township, Ra	ange: <u> </u>	TIBNZ14E
indform (hillslope, terrace, etc.):				
bregion (LRR):	Lat:		Long:	Datum:
I Map Unit Name.			NWI classif	ication:
climatic / hydrologic conditions on the site	typical for this time of y	ear? YesNo_	(if no, explain in	Remarks.)
Vegetation, Soil, or Hydro			"Normal Circumstances"	present? YesNo
Vegetation, Soil, or Hydre	ology naturally p	roblemetic? (if n	eeded, explain any answ	ers in Remarks.)
IMMARY OF FINDINGS - Attack	h site map showin	g sampling point l	locations, transect	s, important features, etc.
ydric Soll Present? Y Vetland Hydrology Present? Y	No No No No	Is the Sampler within a Wetla		No
emarks: Granzed i	regarded p	ash		
GETATION – Use scientific nar	nes of plants.			
nee Stratum (Plot size: )	Absolute % Cove	Dominant Indicator Species? Status		,
			Number of Dominant : That Are OBL, FACW	
			Total Number of Dom	inent /
			Species Agross Ali Str	
apling/Shrub Stratum (Plot size:		_ = Total Cover	Percent of Dominant t That Are OBL, FACW	
appropriate Scientific (L. 10) area.	and the second s		Prevalence Index wo	rkal;eet:
			Total % Cover of:	Multiply by:
				x1=
	<del></del>		1	x2=
		= Total Cover		x3=
arb Stratum (Plot size:)			1	×5*
Carex 5pg	<u>5</u>	FAC	1	(A) (B)
	<del></del>		Prevalence Inde	
		<del></del>	Dominance Test	
			Prevalence Index	
	<del></del>		Morphological Ad	aptations1 (Provide supporting
				ks or on a separate sheet)
		= Total Cover	Problematic Hydr	ophytic Vegetation <sup>1</sup> (Explain)
body Vine Stratum (Plot size:			Indicators of hydric si	oil and wetland hydrology must turbed or propfematic.
		- T-1-16		
		= Total Cover	Hydrophytic Vegetation	
		Crist	Present? Y	'es No'
6 Bare Ground in Herb Stratum	% Cover or Blodic		1	***************************************

US Army Corps of Engineers

SOIL			Sampling Point
Profile Description: (Desc	ribe to the depth ne	eded to document the indicator or	confirm the absence of indicators.)
Depth <u>Mal</u>		Redox Features	
(inches) Color (mole		olor (moist) % Type*	Loc Texture Remarks
14 10423	<u> </u>		copy in
•			
<del></del>			
			2
		uced Matrix, CS=Covered or Costed	
	ppiicable to all Links	s, unless otherwise noted.)	Indicators for Problematic Hydric Soils*:
Histosol (A1)	-	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Black Histic (A3)	-	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
BIRCK MISSIC (A3) Hydrogen Sulfide (A4)	-	Loamy Mucky Minerel (F1) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18)
Stratified Layers (A5) (L	PD C1	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D		Redox Dark Surface (F8)	Osiai (Explain in Namata)
Depleted Below Dark S		Depleted Dark Surface (F7)	
Thick Dark Surface (A1)		Redox Depressions (F8)	indicators of hydrophytic vegetation and
Sandy Mucky Mineral (8	S1) _	Vernal Pools (F9)	wetland hydrology must be present,
Sendy Gleyed Metrix (S	4)	. , ,	unless disturbed or problematic.
lestrictive Leyer (if prese	nt):	<del>, , , , , , , , , , , , , , , , , , , </del>	
Type:			
Depth (Inches):			Hydric Soil Present? Yes No
YDROLOGY			
Vetland Hydrology Indica			
rimary Indicators (minimun	of one required; che	ck all that apply)	Secondary indicators (2 or more required)
Surface Water (A1)		Seit Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)		Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)		Aquetic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Non-	riverine)	Hydrogen Sulfide Odor (C1)	Oralnage Patterns (B10)
Sediment Deposits (B2)	(Nonriverine)	Oxidized Rhizospheres along Li-	ving Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nor	riverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6	i)	Recent Iron Reduction in Tilled S	Spils (C6) Saturation Visible on Aerial Imagery (CI
Inundation Visible on A	erial Imagery (B?)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (	B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
feld Observations:			1
Surface Water Present?	Yes No	epth (Inches):	_
Vater Table Present?	Yes No	Depth (inches):	
Saturation Present?		Depth (Inches):	Wetland Hydrology Present? Yes No
includes capillary fringe)			
	ream gauge, monitori	ng well, serial photos, previous inspe	actions), if evailable:
Remarks:		,	

#### WETLAND DETERMINATION DATA FORM - Arid West Region Kithitas Sampling Date: 10-7-21 State: WA- Sampling Point: Applicant/Owner: Section, Township, Range: S32 T/8N E/9 E Local relief (concave, convex, none); Landform (hillslope, terrace, etc.): Subregion (LRR): \_ Long: Datum: NWI classification: Soil Map Unit Name. Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ (If no, explain in Remarks.) 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 mag-showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Watland Hydrology Present? irrighted pushe 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 Ali 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: FACW species \_\_\_\_ \_ x2= FAC species \_\_\_\_ \_ x3=\_ = Total Cover FACU species \_\_ \_\_ x4= Herb Stratum (Plot size: UPL species \_\_\_\_ x5= FRE Festvan Column Totals: Prevalence index = B/A = Hydraphytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 .... Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) \_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) = Total Cover Woody Vine Stratum (Plot size: Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.

≃ Total Cover

Present?

% Cover of Blotic Crust

inches) Color (moist) % Color (moist) % Type Loc Loc Loc Loc Loc Loc Loc Loc Loc Loc	c-6hy l-
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Send G hydric Soil indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Siripped Matrix (S8)  Histic Epipedon (A2) Siripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2)  Stratified Leyers (A5) (LRR C) Depleted Matrix (F3)  1 orn Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Dark Surface (A12) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)	arains. <sup>2</sup> Location: PL=Pore Lining, M=Metrix. Indicators for Problematic Hydric Soils <sup>2</sup> :  1 cm Muck (A9) (LRR C) 2 cm Muck (A40) (LRR B) Reduced Vertic (F18) Rod Parent Material (FF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Send G lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Redox (S5) Histo Epipedon (A2) Stripped Matrix (S8) Black Histic (A3) Loarny Mucky Mineral (F1) Hydrogen Suilde (A4) Loarny Gleyed Metrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F6)	arains. <sup>2</sup> Location: PL=Pore Lining, M=Metrix. Indicators for Problematic Hydric Soils <sup>2</sup> :  1 cm Muck (A9) (LRR C) 2 cm Muck (A40) (LRR B) Reduced Vertic (F18) Rod Parent Material (FF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Send G lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Redox (S5) Histo Epipedon (A2) Stripped Matrix (S8) Black Histic (A3) Loarny Mucky Mineral (F1) Hydrogen Suilde (A4) Loarny Gleyed Metrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F6)	Indicators for Problematic Hydric Soils*:  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Varitc (F18) Red Parent Material (FF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Send G lydric Soil indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redox (S5)  Histos Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loamy Mucky Mineral (F1)  Hydrogen-Suifide (A4) Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F3)  1 om Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12) Redox Depressions (F6)	Indicators for Problematic Hydric Soils*:  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Varitc (F18) Red Parent Material (FF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Send G Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historal (A1) Sandy Redox (S5) Histor Epipedon (A2) Stripped Matrix (S8) Black Histor (A3) Loarny Mucky Mineral (F1) Hydrogen Suifide (A4) Loarny Gleyed Matrix (F2) Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) 1 orn Nuck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Depressions (F6)	Indicators for Problematic Hydric Soils*:  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Varitc (F18) Red Parent Material (FF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Send G lydric Soil indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redox (S5)  Histos Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loamy Mucky Mineral (F1)  Hydrogen-Suifide (A4) Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F3)  1 om Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12) Redox Depressions (F6)	Indicators for Problematic Hydric Soils*:1 cm Muck (A9) (LRR C)2 cm Muck (A10) (LRR B)Reduced Varitc (F18)Rod Perent Material (FF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Send G lydric Soil indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redox (S5)  Histos Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loamy Mucky Mineral (F1)  Hydrogen-Suifide (A4) Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F3)  1 om Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12) Redox Depressions (F6)	Indicators for Problematic Hydric Soils*:1 cm Muck (A9) (LRR C)2 cm Muck (A10) (LRR B)Reduced Varitc (F18)Rod Perent Material (FF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Send G Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historal (A1) Sandy Redox (S5) Histor Epipedon (A2) Stripped Matrix (S8) Black Histor (A3) Loarny Mucky Mineral (F1) Hydrogen Suifide (A4) Loarny Gleyed Matrix (F2) Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) 1 orn Nuck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Depressions (F6)	Indicators for Problematic Hydric Soils*:1 cm Muck (A9) (LRR C)2 cm Muck (A10) (LRR B)Reduced Varitc (F18)Rod Perent Material (FF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histo (A3)  Hydrogen Suifide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A5)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Loany Gleyed Metrix (F2)  Depleted Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)	Indicators for Problematic Hydric Soils*:1 cm Muck (A9) (LRR C)2 cm Muck (A10) (LRR B)Reduced Varitc (F18)Rod Perent Material (FF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histo (A3)  Hydrogen Suifide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A5)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Loany Gleyed Metrix (F2)  Depleted Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)	Indicators for Problematic Hydric Soils*:1 cm Muck (A9) (LRR C)2 cm Muck (A10) (LRR B)Reduced Varitc (F18)Rod Perent Material (FF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histo (A3)  Hydrogen Suifide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A5)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Loany Gleyed Metrix (F2)  Depleted Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)	Indicators for Problematic Hydric Soils*:1 cm Muck (A9) (LRR C)2 cm Muck (A10) (LRR B)Reduced Varitc (F18)Rod Perent Material (FF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histo (A3)  Hydrogen Suifide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A5)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Loany Gleyed Metrix (F2)  Depleted Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)	Indicators for Problematic Hydric Soils*:1 cm Muck (A9) (LRR C)2 cm Muck (A10) (LRR B)Reduced Varitc (F18)Rod Perent Material (FF2)
Histosol (A1) Sandy Redox (S5) Histo Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A6) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F6)	1 cm Muck (A8) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Perent Material (TF2)
Histic Epipedon (A2)  Black Histic (A3)  Black Histic (A3)  Loarny Mucky Mineral (F1)  Hydrogen Suifide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Cark Surface (A11)  Thick Dark Surface (A12)  Redox Dark Surface (F6)	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Leyers (A5) (LRR C) Depleted Matrix (F3) 1 cm Musk (A8) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Depressions (F8)	Reduced Vertic (F18) Red Parent Material (TF2)
Hydrogen Suifide (A4)  Strattfied Leyers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Loamy Gleyed Matrix (F2)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Dark Surface (F8)	Red Parent Material (TF2)
Stratified Leyers (A5) (LRR C)   Depleted Matrix (F3)	
1 cm Muck (A8) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F6)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Depleted Dark Surface (F7)  Redox Depressions (F6)	
Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Depleted Dark Surface (F7)  Redox Depressions (F6)	
	Indicators of hydrophytic vegetation and
	wetland hydrology must be present,
Sandy Gleved Metrix (S4)	unless disturbed or problematic.
testrictive Leyer (if present):	T
Type:	l .
Depth (Inches):	Hydric Soil Present? Yes No
YDROLOGY	
Vetland Hydrology Indicators:	
rimary indicators (minimum of one required; check all that apply)	Secondary indicators (2 or more required)
Surface Water (A1) Selt Crust (B11)	Water Marks (B1) (Riverine)
<del>-</del> • • • • • • • • • • • • • • • • • • •	
	Sediment Deposits (B2) (Riverine)
Seturation (A3) Aquetic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Suffide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Ro	oots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent from Reduction in Tilled, Soils (C	(6) Saturation Visible on Aerial Imagery (
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitant (D3)
Water-Steined Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
field Observations:	(70-140018-1481(00)
Init Orthory Strong:	
Surface Water Present? Yes No Depth (Inches):	
Surface Water Present? Yes No Depth (Inches):	
	tiand Hydrology Present? Yes No
Saturation Present? Yes NoDepth (Inches): Wet	
Saturation Present? Yas No Depth (inches): Wet	12 - 1111
	, it available:
includes capillary fringe) Pescribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections)	, if available:
ncludes capillary fringe)	

% Bare Ground in Herb Stratum

Remarks:

SOIL

Sampling Point \_

	City/County: K	itites Sempling Date: 10-7-
oplicant/Owner:		State: WA Sampling Point: DA
vestigator(s): 50 Scml	Section, Township, R.	ange: 532 T/8N R/9 =
•		, convex, none): Slope (%):
		Long: Datum:
oll Map Unit Name:		NWI classification:
e climatic / hydrologic conditions on the site typical for	this time of year? Yes No	(If no, explain in Remarks.)
e Vegetation, Soll, or Hydrology		"Normal Circumstances" present? Yes No
e Vegetation, Soil, or Hydrology		seeded, explain any answers in Remarks.)
· · · · · · · · · · · · · · · · ·	•	
		locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soll Present? Yes	ls the Sample	d Area
lydric Soll Present? Yes	No within a Wetle	
Vetland Hydrology Present? Yes	, No	
grazed irriga	ted pashe	
,	<i>y</i>	
GETATION – Use scientific names of pl	lants.	
- Charter (District)	Absolute Dominant Indicator	1
ee Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		1
		Total Number of Dominant Species Across All Strata: (B)
	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
oling/Shrub Stratum (Plot size:)		1
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
		OBL species x1 =
		FACW species x2 = FAC species x3 =
	= Total Cover	FACU species x4=
arb Stretum (Plot size:)		UPL species x5*
Festier 700	40 FAC	Column Totels:(A)(B)
Compa 3pp	<u>40 Fic</u>	
		Prevalence Index = B/A =
		Hydroeffytic Vegetation Indicators:
		Dominance Test is >50%
		Prevalence Index is ≤3.01  Morphological Adaptations1 (Provide supporting
		date in Remarks or on a separate sheet)
	= Total Cover	Problematic Hydrophytic Vegetation* (Explain)
		•
ody Vine Stratum (Plot size:)		
		Indicators of hydric soil and walland hydrology must
		<sup>1</sup> Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.
	= Total Cover	be present, unless disturbed or problematic.  Hydrophytic
/oody Vine Stratum (Plot size:)  Bare Ground in Herb Stratum % C		be present, unless disturbed or problemetic.

Arid West - Version 2.0

US Army Corps of Engineers

rofite Description: (Describe to the d	lepth needed to document the indicator	or confirm the absence	of Indicators.)
Depth Matrix	Redox Features		
inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture	Remarks
3 duff			
14 /042/2	can	Cubath	ha
	<del> </del>		
	-		
ype: C=Concentration, D≈Depletion, R ydric Soll Indicators: (Applicable to a	tM=Reduced Matrix, CS=Covered or Costs		cation: PL=Pore Lining, M=Metrix.  for Problematic Hydric Solis <sup>2</sup> :
, , , ,			•
_ Histosoi (A1)	Sandy Redox (S5)		Muck (A9) (LRR C)
_ Histic Epipedon (A2) _ Black Histic (A3)	Stripped Matrix (S6)		Muck (A10) (LRR B)
_ Bisck rissic (A3) _ Hydrogen Suifide (A4)	Loarny Mucky Mineral (F1) Loarny Gleyed Matrix (F2)		ed Vertic (F18) Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Coarry Gleyed Matrix (F2)		
1 cm Muck (A8) (LRR D)	Redox Dark Surface (F6)	Outer	(Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F6)	Standings.	of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		hydrology must be present,
Sendy Meters (S4)	— Aessel Loois (La)		fisturbed of problematic.
satrictive Leyer (if present):	The Head State of the Control of the	Univos (	issurban or problement.
		i	
Type:			
l ype: Depth (inches): Iemarks:		Hydric Soi	Present? VesNe
Depth (Inches):		Hydric Soi	Present? Vas No No
Depth (Inches):		Hydric Sol	Present? Yes No
Depth (Inches):			
Depth (Inches):  Iemarks:  YDROLOGY  Vetland Hydrology Indicators:  htmary indicators (minimum of one requi		Seco	ndary indicators (2 or more resulted)
Depth (Inches):    Important   Important	Seit Crust (B11)	Seco	ndary Indicators (2 or more required). Vater Marks (B1) (Riverine)
Depth (Inches):	Selt Crust (B11) Biotic Crust (B12)	Secon	ndarv indicators (2 or mors resuired) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (Inches):    Important   Important	Seit Crust (B11)	Secon	ndary Indicators (2 or more required). Vater Marks (B1) (Riverine)
Depth (Inches):  VDROLOGY  Vetland Hydrology Indicators:  Interry Indicators (inknimum of one recul  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonriverine)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Suifide Odor (C1)	Seco	ndarv indicators (2 or mors resuired) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (Inches):  Idemarks:  PDROLOGY  Wetland Hydrology Indicators:  htmsrv Indicators (minimum of one recul Surface Water (A1) High Water Table (A2) Seturation (A3)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Suifide Odor (C1)	Seco	ndarv Indicators (2 or more resulted). Vater Marks (B1) (Riverine) Vater Deposits (B2) (Riverine) Irrin Deposits (B3) (Riverine) Irrin Deposits (B3) (Riverine) Irrinage Patterns (B10)
Depth (Inches):  VDROLOGY  Vetland Hydrology Indicators:  Interry Indicators (inknimum of one recul  Surface Water (A1)  High Water Table (A2)  Seturation (A3)  Water Marks (B1) (Nonriverine)	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Suifide Odor (C1)	Secon \	ndary Indicators (2 or more required). Vater Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) brift Deposits (B3) (Riverine) brainage Patterns (B10)
Depth (Inches):  Idemarks:  Idema	Seit Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4)	Secon \	ndarv Indicators (2 or mors resuired) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Oralnege Patterns (B10) Pyr-Season Water Table (C2) Zrayfish Burrows (C8)
Depth (Inches):  Idemarks:  Idema	Selt Crust (B11) Blotic Crust (B12) Aquebic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizoepheres along Presence of Reduced Iron (C-	Seco  Seco  Living Roots (C3)	ndary indicators (2 or more resulted). Vater Marks (B1) (Riverine) sedment Deposits (B2) (Riverine) brith Deposits (B3) (Riverine) brainage Patterns (B10) brainage Patterns (B10) brainage Table (C2) brayfish Burrows (C8) sauration Visible on Aerial Imagery (C8)
Depth (Inches):  Idemarks:  Idemarks:  Idemarks:  Idemarks:  Inches   Inches   Inches   Inches    Inches   Inches   Inches   Inches    Inches   Inches   Inches   Inches    Inches   Inches   Inches    Inches   Inches   Inches    Inches   Inches   Inches    Inch	Selt Crust (B11) Biotic Crust (B12) Aquetic Invertenters (B13) Hydrogen Sulfide Odor (C1) Nidized Rhizospheres elong Presence of Reduced iron (C- Recent Iron Reduction in Tille (B7) Thin Muck Surface (C7)	Seco \	ndary Indicators (2 or more required). Vater Marks (B1) (Riverina) sediment Deposits (B2) (Riverine) brishage Patterns (B10) bry-Season Water Table (C2) zayfish Burrows (C8) Staturation Visible on Asrial Imagery (C8) Shellow Aquiterd (D3)
Depth (Inches):  Idenarks:  Idena	Selt Crust (B11) Blotic Crust (B12) Aquebic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizoepheres along Presence of Reduced Iron (C-	Seco \	ndary indicators (2 or more resulted). Vater Marks (B1) (Riverine) sedment Deposits (B2) (Riverine) brith Deposits (B3) (Riverine) brainage Patterns (B10) brainage Patterns (B10) brainage Table (C2) brayfish Burrows (C8) sauration Visible on Aerial Imagery (C8)
Depth (Inches):  Idenarks:  Idena	Selt Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Presence of Reduced Iron (C- Recent Iron Reduction in Title Thin Muck Surface (C7) Other (Explain in Remarks)	Seco \	ndary Indicators (2 or more required). Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) brishage Patterns (B10) bry-Season Water Table (C2) zayfish Burrows (C8) Staturation Visible on Asrial Imagery (C8) Shellow Aquiterd (D3)
Depth (Inches):  Idemarks:  Idema	Selt Crust (B11) Blotic Crust (B12) Aquebic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks)	Seco \	ndary Indicators (2 or more required). Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) brishage Patterns (B10) bry-Season Water Table (C2) zayfish Burrows (C8) Staturation Visible on Asrial Imagery (C8) Shellow Aquiterd (D3)
Depth (Inches):  Itemarks:  Identifications (Inches):  Identifications (Inches):  Identifications (Inches):  Inches (Inc	Selt Crust (B11) Biotic Crust (B12) Aquetic Investrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres elong Presence of Reduced iron (C- Recent iron Reduction in Title (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Bepth (Inches): No Despit (Inches):	Seco  Seco  Living Roots (C3)	ndary indicators (2 or mors resulted). Vater Marks (B1) (Riverine) sedment Deposits (B2) (Riverine) brish Deposits (B3) (Riverine) brishage Patterns (B10) branage Patterns (B10) branage Patterns (B10) branage Patterns (B10) branage Patterns (B2) branage Patterns (B2) branage Patterns (B2) branage Patterns (B3) branage Patterns (B4) branage Patterns (
Depth (Inches):  Idenarks:  Idena	Selt Crust (B11) Blotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Title Thin Muck Surface (C7) Other (Explain in Remarks) No Bepth (Inches): No	Seco  Seco  Living Roots (C3)	ndary Indicators (2 or more required). Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) brishage Patterns (B10) bry-Season Water Table (C2) zayfish Burrows (C8) Staturation Visible on Asrial Imagery (C8) Shellow Aquiterd (D3)
Depth (Inches):  Idemarks:  Idema	Selt Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks)  No Septin (Inches): No Deptin (Inches):	Second   S	ndary indicators (2 or mors resulted). Vater Marks (B1) (Riverine) sedment Deposits (B2) (Riverine) brish Deposits (B3) (Riverine) brishage Patterns (B10) branage Patterns (B10) branage Patterns (B10) branage Patterns (B10) branage Patterns (B2) branage Patterns (B2) branage Patterns (B2) branage Patterns (B3) branage Patterns (B4) branage Patterns (
Depth (Inches):  Idemarks:  Idema	Selt Crust (B11) Biotic Crust (B12) Aquetic Investrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres elong Presence of Reduced iron (C- Recent iron Reduction in Title (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Bepth (Inches): No Despit (Inches):	Second   S	ndary indicators (2 or mors resulted). Vater Marks (B1) (Riverine) sedment Deposits (B2) (Riverine) brish Deposits (B3) (Riverine) brishage Patterns (B10) branage Patterns (B10) branage Patterns (B10) branage Patterns (B10) branage Patterns (B2) branage Patterns (B2) branage Patterns (B2) branage Patterns (B3) branage Patterns (B4) branage Patterns (
Depth (Inches):  Itemarks:  Identifications   Inches    Inches	Selt Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks)  No Septin (Inches): No Deptin (Inches):	Second   S	ndary indicators (2 or more resulted). Vater Marks (B1) (Riverine) sedment Deposits (B2) (Riverine) brish Deposits (B3) (Riverine) brishage Patterns (B10) brishage Patterns (
Depth (Inches):  Idemarks:  Idema	Selt Crust (B11) Biotic Crust (B12) Aquetic Invertebrates (B13) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tille Thin Muck Surface (C7) Other (Explain in Remarks)  No Septin (Inches): No Deptin (Inches):	Second   S	ndary indicators (2 or more resulted) Vater Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine) Arith Deposits (B3) (Riverine) Arith Deposits (B3) (Riverine) Arith Deposits (B3) (Riverine) Arith Burnows (C8) Saturation Visible on Aerial Imagery (C8) Saturation Visible on Aerial Imagery (C8) Saturation Visible on Aerial Imagery (C8) Saturation Visible on Aerial (C9) SAC-Neutral Test (C9)

Arid West - Version 2.0

# WETLAND DETERMINATION DATA FORM - Arid West Region 1 100 parts

Project/Site:	<u>/</u>		City/County:	11-7-
Applicant/Owner:				State: WA Sampling Point: DP
الله على على الم	semell		Section, Township, Ra	nge: 532 T/8N Z/4 =
				convex, none); Slope (%);
				Long: Datum:
oil Map Unit Name:				NWI classification:
ne climatic / hydrologic conditions on			-0 Van 1/8/2	(if no, explain in Remarks.)
re Vegetation, Soil, c				"Normal Circumstances" present? Yes No
re Vegetation, Soil, c	• • • • • • • • • • • • • • • • • • • •		·	seded, explain any answers in Remarks.)
UMMARY OF FINDINGS -			sampung point i	ocations, transects, important features, etc
Hydrophytic Vegetation Present?	Yes	€	Is the Sampled	Area
Hydric Soil Present?	1 43	**·	within a Wetler	nd? Yes No
Wetland Hydrology Present?	Yes!	¥0		
grazed	ייר לייני	- A D	-54-	
EGETATION - Use scientifi	ic names of pla			
Tree Stratum (Plot size:	`		Dominant Indicator	Dominance Test worksheet:
free Stratum (Plot size:			Species? Status	Number of Dominant Species That Are OSL, FACW, or FAC:
)				Total Number of Dominant Species Agross All Streta: (8)
4.				
Sapling/Shrub Stratum (Plot size:			= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1				Prevalence index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species x 1 =
l				FACW species x2 =
5				FAC species x3 =
March Observations (PRANTAL)			= Total Cover	FACU species x4 =
Herb Stretum (Plot size:		. 100	FA	UPL species x 5 =
2 Comein =	3 4 49	- 60	FAI	Column Totals: (A) (B)
3.	<del>Marian</del>			Prevalence index = B/A =
t	······································	<del></del>		Hydrophytic Vegetation indicators:
·				Dominance Test is >50%
3				Prevalence Index is ≤3.01
7				Morphological Adaptations¹ (Provide supporting
B				data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:			= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
t,				Indicators of hydric solf and wetland hydrology must
				be present, unless disturbed or problematic.
			= Total Cover	Hydrophytic
			=	Vegetation
% Bare Ground in Herb Stratum	% Cove	er of Blotic C	rust	Present? Yes No No

SOIL		Sampling Point
Profile Description: (Describe to the dept	h needed to document the indicator or	confirm the absence of Indicators.)
Depth Matrix	Redox Features	an regularior
(inches) Color (molet) %	Color (maist) % Type <sup>1</sup>	oc <sup>2</sup> Taxture Remarks
0 1042312		
16 10/22/1	cm	cross an
*Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Costed S	and Grains. Location: PL=Pore Lining, M=Matrix.
Hydric Soli Indicators: (Applicable to all I		Indicators for Problematic Hydric Soils <sup>1</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Meterial (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A6) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sendy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Leyer (if present):		
Type:		
Depth (Inches):		Hydric Soli Present? Yes Ne
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary indicators (minimum of one required	check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Seit Crust (B11)	Water Marks (B1) (Riverina)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Seturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (610)
Sediment Deposits (B2) (Nonriverine)		ing Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C6)
Surface Soil Cracks (86)	Recent Iron Reduction in Tilled S	· · · ·
Inundation Visible on Aerial Imagery (B7		Shallow Aquitard (D3)
Water-Steined Leaves (89)	Other (Explain in Remarks)	<del>-</del> ' ' ' ' '
Field Observations:	Other (Explain in Remarks)	FAC-Neutral Test (D5)
	lo	
	lo	
	lo Depth (Inches):	Wetland Hydrology Present? Yes No
(includes capillary frings) Describe Recorded Data (stream gauge, mor	there's well and that are to be a	Land Maria Maria
Describe Recorded Data (stream gauge, mo	nitoning well, aenali priotos, pravious inspet	zions), it avaliacie:
Remarks:		

#### WETLAND DETERMINATION DATA FORM - Arid West Region City/County: Kithitas Sampling Date: 10-7-21 Project/Site: State: WA Sampling Point: Applicant/Owner: Section, Township, Range: 532 TIBN 2195 investigator(s): Local relief (concave, convex, none): Landform (hillslope, terrace, etc.): \_\_\_\_ Long: \_\_ Subrection (LRR): Datum: 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 \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map skiowing sampling point locations, transects, important features, etc. Yes \_\_\_\_\_\_Yo\_\_ Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wattend Hydrology Present? Remarks: irrigated pashe 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 Ali Strata: That Are OBL, FACW, or FAC: = Total Cover Sapling/Shrub Stratum (Plot size: \_\_\_ Prevalence Index worksheet: Total % Cover of: Multiply by: FAC species \_\_\_\_\_ FACU species = Total Cover UPL species x5= Column Totals; Prevalence index = B/A = Hydrophytic Vegetation indicators: --- Bominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations (Provide supporting date in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) = Total Cover Woody Vine Stratum (Plot size: indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Vegetation Present? ...... % Cover of Blotic Crust % Bare Ground in Herb Stratum Remarks:

me: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grainte Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoil (A1)	Texture  *Location: PL=Pore Lining, M=Metrix. Indicators for Problematic Hydric Soils*:  1 cm Muck (AB) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Material (TF2)  Other (Explain in Remarks)  *Indicators of hydrophytic vegetation and wetland hydrotogy must be present, unless disturbed or problematic.  Hydric Soil Present? Yes Ne
De: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Send Grain Soli Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sardy Redox (S5) Histosol (A1) Stripped Matrix (S6) Black Histo (A3) Loarny Mucky Minerel (F1) Hydrogen Sulfide (A4) Loarny Mucky Minerel (F2) Stratified Layers (A5) (LRR C) Depleto Matrix (F2) Depletod Below Dark Surface (A11) Depletod Dark Surface (F8) Depletod Below Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Minerel (S1) Vernal Pools (F9)  Sandy Micky Minerel (S1) Sandy Micky Minerel (S1) Sandy Gleyed Matrix (S4) Historie Leyer (If present): Type: Depth (Inchee): Inarks:  SROLOGY Hand Hydrology Indicators: Inary Indicators (minimum of one required: check all that apply) Surface Water (A1) Set Crust (B11)	ine. *Location: PL=Pore Lining, M=Metrix. Indicators for Problematis Hydric Solis*:1 cm Muck (AB) (LRR C)2 cm Muck (A10) (LRR B)Reduced Vertic (F18)Red Parent Material (TF2)Other (Explain in Remarks)  *Indicators of hydrophytic vegetation and wedand hydrology must be present, unless disturbed or problematic.
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coeted Send Grainte Soil Indicators: (Applicable to all LRRs, unfess otherwise noted.)  Histosoi (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coeted Send Grainte Soil Indicators: (Applicable to all LRRs, unfess otherwise noted.)  Histosoi (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problemetic Hydric Soils*:  _ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B) _ Reduced Vertic (F18) _ Rad Parent Material (TF2) _ Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Iric Soli Indicators: (Applicable to all LRRs, unfees otherwise noted.)  Histosol (A1)	Indicators for Problematic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wedand hydrology must be present, unless disturbed or problematic.
Histosol (A1) Sandy Redox (S5) Histosol (A2) Stripped Matrix (S6) Black Histo (A3) Loarny Mucky Mineret (F1) Hydrogen Sulfide (A4) Loarny Mucky Mineret (F2) Stratified Leyers (A5) (LRR C) Deglared Matrix (F3) Loarny Gleyed Matrix (F3) Loarny Gleyed Matrix (F3) Loarny Gleyed Matrix (F3) Depleted Dark Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depræssions (F8) Sandy Mucky Mineret (S1) Vernal Pools (F9)  Sandy Mucky Mineret (S1) Sandy Mucky Mineret (S1) Sandy Mucky Mineret (S1) Sandy Mucky Mineret (S1) Sandy Mucky Mineret (S1) Sandy Gleyed Matrix (S4) Intrictive Leyer (If present):    Proceedings	Indicators for Problematic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced Vertic (F18)  Red Parent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Sandy Redox (S5) Histosol (A2) Stripped Matrix (S6) Black Histo (A3) Loarny Mucky Mineret (F1) Hydrogen Sulfide (A4) Loarny Mucky Mineret (F2) Stratified Leyers (A5) (LRR C) Deglared Matrix (F3) Loarny Gleyed Matrix (F3) Loarny Gleyed Matrix (F3) Loarny Gleyed Matrix (F3) Depleted Dark Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depræssions (F8) Sandy Mucky Mineret (S1) Vernal Pools (F9)  Sandy Mucky Mineret (S1) Sandy Mucky Mineret (S1) Sandy Mucky Mineret (S1) Sandy Mucky Mineret (S1) Sandy Mucky Mineret (S1) Sandy Gleyed Matrix (S4) Intrictive Leyer (If present):    Proceedings	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Hietic Epipedon (A2) Black Histic (A3) Loarny Mucky Minerel (F1) Hydrogen Suffide (A4) Stratified Layers (A5) (LRR C) 1 orn Muck (A8) (LRR D) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Minerel (S1) Sandy Mucky Minerel (S1) Sandy Reyed Matrix (S4) Hritchive Layer (if present): Type: Depth (Inchee): Dept	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wedland hydrology must be present, unless disturbed or problematic.
Black Histic (A3) Learny Mucky Mineral (F1) Hydrogen Sulfide (A4) Loarny Glayed Matrix (F2) Stratified Leyrar (A5) (LRR C) Deglated Matrix (F3) 1 om Muck (A8) (LRR D) Modox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Infective Leyer (if present): Type: Depth (Inchee): Depth (Inchee): Depth (Inchee): Depth (Inchee): Surface (A12) Sandy Mucky Mineral (F1) Surface (A12) Sandy Mucky Mineral (F2) Surface (A12) Sandy Mucky Mineral (F1) Surface (A12) Sandy Mucky Mineral (F1) Surface (A12) Sandy Mucky Mineral (F1) Surface (A12) Sandy Mucky Mineral (F1) Surface (A12) Sandy Mucky Mineral (F1) Surface (A13) Sandy Mucky Mineral (F1) Surface (A13) Sandy Mineral (F1) Surface (A13) Sandy Mucky Mineral (F1) Surface (A13) Sandy Mineral (F1) Surface (A13) Sandy Matrix (F2) Surface (A13) Sandy Mucky Mineral (F1) Surface (A13) Sandy Matrix (F2) Surface (A13) Sandy Mucky Mineral (F1) Surface (A14) Sandy Matrix (F2) Surface (A15) Sandy Mucky Mineral (F1) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Mineral (F1) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Mineral (F1) Surface (A14) Sandy Mineral (F1) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Matrix (F2) Surface (A14) Sandy Mineral (F1) Surface (A14) Sandy Matrix (F2) Surface (A15) Sandy Mineral (F2) Surface (A15) Sandy Mineral (F2) Surface (A15) Sandy Matrix (F2) Surface (A15) Sandy Mineral (F2) Surface (A15) Sandy Mineral (F2) Surface (A15) Sandy Mineral (F2) Surface (A15) Sandy Mineral (F2) Surface (A15) Sandy Mineral (F2) Surface (A15) Sandy Mineral (F2) Surface (A15) Surface (A15) Surface (A15) Surface (A15) Surface (A15) Surface (A15) Surface (A15) Surface (A15) Surface (A15) Surface (A15) Surface (A15)	Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Hydrogen Suifide (A4)	Rad Parent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wedand hydrology must be present, unless disturbed or problematic.
Stratified Layers (A5) (LRR C) Degleted Metrix (F3) 1 orn Muck (A8) (LRR D) Medox Dark Surface (F8) Depleted Below Dark Surface (A11) Peptade Dark Surface (F7) Thick Dark Surface (A12) Redox Depræssions (F8) Sandy Mucky Minerel (S1) Vernal Pools (F9) Sandy Gleyed Metrix (S4) Intrictive Leyer (if present):    Option	Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
1 om Muck (A8) (LRR D)	Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Depleted Below Derk Surface (A11) Thick Dark Surface (A12) Redox Depressions (F6) Sandy Mucly Minerel (S1) Sandy Mucly Minerel (S1) Sandy South Minerel (S1) Sandy South Minerel (S1) Sandy South Minerel (S1) Sandy Mucly Minerel (S1) Sandy Gleyed Metrix (S4) Wernal Pools (F9)  Vernal Pools (F9)  Frictive Leyer (If present):  Type: Depth (Inches):  DROLOGY  Itland Hydrology Indicators: Instruction of the required: check all that apply)  Surface Water (A1) Selt Crust (B11)	wetland hydrotogy must be present, unless disturbed or problematic.
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Metrix (S4)  Intrictive Leyer (if present):    Oppth (Inches):   Depth (Inches):	wetland hydrotogy must be present, unless disturbed or problematic.
Sandy Mucky Mineral (S1)	wetland hydrotogy must be present, unless disturbed or problematic.
Sandy Gleyed Metrix (S4)  trictive Leyer (if present):  [ype:	unless disturbed or problematic.
Infective Leyer (if present):  Type:  Depth (Inchee):  Depth (Inchee):  DROLOGY  Idland Hydrology Indicators:  DIAM (Inchee):	
Copper   C	Hydric Soil Present? Yes No No
Depth (Inches):	Hydric Soil Present? YesNe
DROLOGY  Itiand Hydrology Indicators:  Itiany Indicators (minimum of one required: check all that apply)  Surface Water (A1)  Set Crust (B11)	Hydric Soil Present? Yes Ne Ne
DROLOGY  itiand Mydrology Indicators:  itiany indicators (minimum of one required; check all that apply)  Surface Water (A1)  Set Crust (B11)	
idend Hydrology Indicators: nary Indicators (minimum of one required: check as that apply) Surface Water (A1) Seit Crust (B11)	
nary indicators (minimum of one required; check all that apply) Surface Water (A1) Selt Crust (B11)	
Surface Water (A1) Seit Crust (B11)	
	Secondary Indicators (2 or more required)
	Water Marks (B1) (Riverine)
	Sediment Deposits (B2) (Riverine)
Seturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonrtverine) Hydrogen Suifide Odor (C1)	Oralnege Petterns (B10)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots	
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C!
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (69) Other (Explain in Remarks)	FAC-Neutral Test (D5)
d Observations:	
face Water Present? Yes No Deoth (inches):	
ter Table Present? Yes No Pepth (Inches):	
	nd Hydrology Present? Yes No
kudes capillary fringe)	
cribe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if	avenaus:
narks:	

Project/Site:	City/County:	Sampling Date: 10-7-
Applicant/Owner:		State: WA Sampling Point: 17 P
nvestigator(s): Zdi Schull	Section, Township, R	ange: 532 T/8N Z/9 =
andform (hillslope, terrace, etc.):	Local relief (concave.	, convex, none):Stope (%):
Subregion (LRR):	Lat:	Long: Datum:
ioil Map Unit Name:		NWI classification:
re climatic / hydrologic conditions on the site typical fo	r this time of year? YesNo.	(if no, explain in Remarks.)
tre Vegetation, Solf, or Hydrology	significantly disturbed? Are	"Normal Circumstances" present? YesNo
re Vegetation, Soil, or Hydrology	naturally problematic? (If n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site m	ap sirowing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present?	No Is the Sample	4 4
Hydric Soll Present? Yes	No within a West	The state of the s
Wattend Hydrology Present? Yes	_ No	
grazed irriga	It pushe	
·	,	
/EGETATION – Use scientific names of p	lants.	
Tree Stratum (Plot size:	Absolute Dominant Indicator	Dominance Test worksheet:
1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.		Total Number of Dominant
3		Species Across Ali Strata: (B)
4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/8)
1.		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species x1 =
4.		FAC species x2 =
3.	= Total Cover	FACU species x4=
Herb Stratum (Plot size:)		UPL species x5 =
1. Cur y 70	- 42	Column Totals: (A) (B)
2 7262-	<u> </u>	Prevalence index = B/A =
		Hydrogrytic Vegetation indicators:
3		
4		Dominance Test is >50%
4. 5. 6.		
5		Dominence Test is >50% Prevalence Index is <3.0' Morphological Adaptations' (Provide supporting
5		Dominance Test is >50% Prevalence Index is ≤3.0* Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)
5		Dominance Test is >50% Prevalence Index is <3.0' Morphological Adaptations' (Provide supporting
5		Dominance Test is >50%  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and we
5		Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on e separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
5		Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and westend hydrology must be present, unless disturbed or problematic.  Hydrophytic
5	= Total Cover	Dominance Test is >50%  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a seperate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and we

SOIL.		Sampling Point:
Profile Description: (Describe to the de	pth needed to document the Indicator or	
Depth Matrix	Redox Features	,
(inches) Color (moist) %		Loc <sup>2</sup> Texture Remarks
16 10/13/12	Fig. E. R.	<u>Cubby</u> /2-
	-	
	M=Reduced Matrix, CS=Covered or Costed S	
lydric Soil Indicators: (Applicable to a	·	Indicators for Problematic Hydric Soils <sup>1</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Black Histic (A3)	Stripped Matrix (S8)	2 cm Muck (A10) (LRR B)
	Loarny Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	•
Thick Dark Surface (A12)	Redox Depressions (F8)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
testrictive Layer (if present):		
Тура:		•
Depth (Inches):		Hydric Soli Present? Yes No
VDBOL GOV		
YDROLOGY		
Vetland Hydrology Indicators:	and a shared and the shared a	Maria de la Maria de la Maria de la Carta
Primary indicators (minimum of one requin		Secondary indicators (2 or more required)
Surface Water (A1)	Selt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Seturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine	) Oxidized Rhizospheres along Livi	ing Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled St	
Inundation Visible on Aerial Imagery (I		Shallow Aquitard (D3)
Water-Stained Leaves (89)	,	
water-barred Leaves (69)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
	No Depth (inches):	
Vater Table Present? Yes	No Depth (inches):	
Seturation Present? Yes	No Depth (Inches):	Wetland Hydrology Present? Yes No
includes capillary fringe) Describe Recorded Data (stream gauge, n	nonitoring well, serial photos, previous inspec	i tions), if eveilable:
,	The state of the s	mortuge is a sarrowing.
Remarks:		
THE PARTY AND A STATE OF THE ST		

Landform (hillelope, terrace, etc.):  Subregion (LPR):  Soil Map Unit Name:  Are climatic / hydrologic conditions on the si Are Vegetation Soil or Hydr  Are Vegetation Soil or Hydr  SUMMARY OF FINDINGS Attact  Hydrophytic Vegetation Present?	Let:	Section, Township, Re Local relief (concave,  ear? Yes No y disjurbed? Are roblemetic? (if no	Sampling Date: 10-7-71  State: WA Sampling Point: DP45-57  Inge: S3 L 7 /8N R / 4 /=  convex, none): Slope (%):  Long: Datum:  (If no, explain in Remarke.)  "Normal Circumstances" present? Yes No seded, explain any enswers in Remarks.)  cocations, transects, important features, etc.
Investigator(s):	Lat:	Local relief (concave,  ear? Yes No y disjurbed? Are roblematic? (if no	Inga: S 7 L 7/SW R/4/S  convex, none): Slope (%): Long: Datum: NWI classification: [ [If no, explain in Remarks.] No
Landform (hillslope, terrace, etc.):  Subregion (LRR):  Soil Map Unit Name:  Are climatic / hydrologic conditions on the si Are Vegetation Soil or Hydr  Are Vegetation Soil or Hydr  SUMMARY OF FINDINGS — Attact  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?	Lat:	Local relief (concave,  ear? Yes No y disjurbed? Are roblematic? (if no	Convex, none): Slope (%): Long: Datum:  NWI classification:  (if no, explain in Remarke.)  "Normal Circumstances" present? Yes No  seded, explain any answers in Remarks.)
Subregion (LRR):  Soil Map Unit Name:  Are climatic / hydrologic conditions on the si  Are Vegetation Soil or Hydi  Are Vegetation Soil Are Vegetation  Hydrology FINDINGS Attact  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?	te typical for this time of y rology significant rology naturally p this site map showin	ear? YesNo y disturbed? Are roblematic? (if no	
Soil Map Unit Name:  Are climatic / hydrologic conditions on the si Are Vegetation Soil or Hydi Are Vegetation Soil Are Vegetation  SUMMARY OF FINDINGS Attact  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?	te typical for this time of y rology algnificant rology naturally p th alte map showin	var? YesNo _ y disjurbed? Are roblemetic? (If no g sampling point i	NWI classification:  (If no, explain in Remarks.)  *Normal Circumstances" present? Yes
Are climatic / hydrologic conditions on the si Are Vegetation, Soil, or Hydi Are Vegetation, Soil, or Hydi SUMMARY OF FINDINGS Attact Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	rology significanti rology naturally p ch site map showin	y disjurbed? Are roblematic? (If no g sampling point i	(If no, explain in Remarks.)  *Normal Circumstances" present? Yes
Are Vegetation, Soil, or Hydi Are Vegetation, Soil, or Hydi SUMMARY OF FINDINGS Attact Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	rology significanti rology naturally p ch site map showin	y disjurbed? Are roblematic? (If no g sampling point i	"Normal Circumstances" present? YesNo seded, explain any enswers in Remarks.)
Are Vegetation soil or Hydi SUMMARY OF FINDINGS Attact Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	rology naturally p ch site map showin	roblematic? (if no g sampling point i	seded, explain any answers in Remarks.)
SUMMARY OF FINDINGS Attack Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	ch site map showin	g sampling point l	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	<del> </del>	<del> </del>	ocations, transects, important features, etc.
Wetland Hydrology Present?	Yes No No		
Wetland Hydrology Present?	Yes No		
Wetland Hydrology Present?		is the Sample:	- 1
Harris de la companya del companya de la companya del companya de la companya de	Yes No	within a Wetler	nor tes No
remains grazed i	might p	ush	
VEGETATION – Use scientific na	mes of plants.		
T		Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:		Species? Status	Number of Comment Species
1			That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant
J		<del></del>	Species Across Ali Streta: (B)
Santhar (Charle Street on Allet aire)		_ = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:1.			Prevalence Index worksheet:
2.		<del></del>	Total % Cover of: Multiply by:
3.			OBL species x1=
4.			FACW species x2 =
			FAC species x3=
		= Total Cover	FACU species x4 =
Herb Stratum (Plot size:	•		UPL species x 5 =
1			Column Totals:(A)(B)
2			Prevalence index = B/A =
			Hydrophytic Vegetation Indicators:
4			Dominance Test is >50%
5			Prevalence Index is ≤3.01
7.			Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
8		= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:			Indicators of hydric soil and welland hydrology must
2			be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum		_ ≈ Total Cover Crust	Hydrophytic Vegetation Present? YesNo
Remarks:			
None			7
, , ,			•

CIL			Sampling Point:
Profile Desc	ription: (Describe to the depti	needed to document the indicator or	confirm the absence of indicators.)
Depth	Matrix	Redox Features	·
(inches)	Color (moist) %		Loc <sup>2</sup> Texture Remarks
14	10/221)	sof F	cupply ha
			<del></del>
		Reduced Matrix, CS=Covered or Costed	
	Indicators: (Applicable to all L	•	indicators for Problematic Hydric Solis <sup>1</sup> :
Histosol	, ,	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
	oipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black His		Losmy Mucky Mineral (F1)	Reduced Vertic (F18)
	n Suffide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
	Leyers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
	ick (A9) (LRR D)	Redox Dark Surface (F6)	
	Below Dark Surface (A11)	Depleted Dark Surface (F7)	
	rk Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
	lucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
	Reyed Matrix (S4)		unless disturbed or problematic.
	.eyer (if present):		
Type:		-	
Depth (Inc	:hes):		Hydric Soll Present? Yes No
YDROLO			
Vetland Hyd	drology Indicators:		
rimary indic	ators (minimum of one required:	check all that apply)	Secondary Indicators (2 or more resulted)
_ Surface '	Water (A1)	Selt Crust (B11)	Water Marks (B1) (Riverine)
High Wa	ter Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation		Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
	arks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
_	et Deposits (B2) (Nonriverina)		ring Roots (C3) Dry-Season Water Table (C2)
	osits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	
			Crayfish Burrows (C8)
	Soil Cracks (B6)	Recent Iron Reduction in Tilled S	. ,
	on Visible on Aerial Imagery (87)		Shallow Aquitard (D3)
	tained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (DS)
ield Observ			
iurface Wate	er Present? Yes No	Depth (Inches):	
Vater Table	Present? Yes No	Depth (Inches):	1
aturation Pr	esent? Yes No	Depth (inches):	Wetland Hydrology Present? Yes No
	illary fringe)		
Sescribe Red	corded Data (stream gauge, mon	itoring well, aerial photos, previous inspe	ctions), if available:
lemarks:			
			Littlewe .
		on a	3 Jane
		. , =-	•

#### WETLAND DETERMINATION DATA FORM - Arid West Region Sampling Date: 10-7-2 Project/Site: State: WA Sampling Point: DP#53 Applicant/Owner: Section, Township, Range: 532 TIBN 2145 investigator(s):\_ Landform (hillstope, terrace, etc.): Local relief (conceve, convex, none); Subregion (LRR): \_\_\_ \_\_\_\_ Long: \_\_ 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 \_\_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map abowing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: irrigated pashe 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 That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: \_\_ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_ x1=\_\_\_ FACW species x2= FAC species x3 = FACU species \_\_\_\_ = Total Cover Herb Stratum (Plot size: UPL species \_\_\_ Festion a 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 date in Remarks or on a separate sheet) \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) ≠ Total Cover Woody Vine Stratum (Plot size: Indicators of hydric soil and welland hydrology must

= Total Cover

% Cover of Biotic Crust

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Redox (S3) Histo Epipedon (A2) Stripped Matrix (S8) Black Histic (A3) Loarny Mucky Mineral (F1) Hydrogen Suilde (A4) Loarny Gleyed Matrix (F2) Stratfled Layers (A5) (LRR C) Depleted Matrix (F3) 1 orn Muck (A9) (LRR C) Depleted Matrix (F3) Thick Dark Surface (A11) Depleted Dark Surface (F6) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	d Send Grains.  *Location: PL=Pone Lining, M=Metrix. Indicators for Problematic Hydric Soils*:  1 cm Muck (A5) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Perent Material (TF2) Other (Explain in Remarks)  *Indicators of hydrophytic vegetation and
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated lydric Soil Indicators: (Applicable to all LRRs, unless otherwise roted.) Histosol (A1) Sandy Redox (S5) Histo Epipedon (A2) Stripped Matrix (S8) Black Histic (A3) Loarny Mucky Mineral (F1) Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Derk Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9)	d Send Grains.  *Location: PL=Pone Lining, M=Metrix. Indicators for Problematic Hydric Soils*:  1 cm Muck (A5) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Perent Material (TF2) Other (Explain in Remarks)  *Indicators of hydrophytic vegetation and
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redox (S5)  Histosoi (A2) Stripped Matrix (S6)  Black Histic (A3) Loarny Mucky Mineral (F1)  Loarny Mucky Mineral (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F3)  1 orn Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	d Sand Grains. *Location: PL=Pore Lining, M=Matrix. Indicators for Problemetic Hydric Soils*:
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed yorks Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed bydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redax (S5)  Histo Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F3)  1 orn Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redax (S5)  Histo Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Suilide (A4) Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F2)  1 cm Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redax (S5)  Histo Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Suilide (A4) Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F2)  1 cm Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redax (S5)  Histo Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Suilide (A4) Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F2)  1 cm Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed bydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redax (S5)  Histo Epipedon (A2) Stripped Matrix (S6)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Suiltide (A4) Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F3)  1 cm Muck (A4) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redax (S5)  Histo Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Suilide (A4) Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F2)  1 cm Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redax (S5)  Histo Epipedon (A2) Stripped Matrix (S8)  Black Histic (A3) Loarny Mucky Mineral (F1)  Hydrogen Suilide (A4) Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C) Depleted Matrix (F2)  1 cm Muck (A8) (LRR D) Redox Dark Surface (F6)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)  Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
lydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosel (A1) Histosel (A2) Black Histo (A3) Hydrogen Suilide (A4) Stratified Layers (A5) (LRR C) 1 cm Nuck (A9) (LRR D) Depleted Below Derk Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Geleyed Metrix (F3) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
lydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Stripped Metrix (S8) Black Histo (A3) Hydrogen Suilfide (A4) Straitfied Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Derk Surface (A11) Thick Dark Surface (A12) Sandy Mucky Minerel (S1) Sandy Mucky Minerel (S1) Sandy Gleyed Metrix (F3) Vernal Pools (F9)	Indicators for Problemetic Hydric Soils*:  1 cm Muck (A9) (LRR C)  2 cm Muck (A10) (LRR B)  Reduced (A10) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)
Histosol (A1) Histo Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Straitfied Leyers (A5) (LRR C) 1 cm Muck (A6) (LRR C) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (A12) Peptedon Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Redox (A12) Peptedod Matrix (F3) Redox Derk Surface (F7) Redox Depressions (F8) Vernal Pools (F9)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  *Indicators of hydrophytic vegetation and
Histic Epipedon (A2)  Black Histic (A3)  Black Histic (A3)  Loarny Mucky Mineral (F1)  Loarny Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C)  1 cm Muck (A8) (LRR D)  Depleted Bellow Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sendy Gleyed Matrix (S4)	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and
Histic Epipedon (A2)  Black Histic (A3)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 cm Muck (A8) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sendy Gleyed Metrix (S4)	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and
Black Histic (A3) Loarny Mucky Mineral (F1) Hydrogen Suitide (A4) Loarny Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 orn Muck (A8) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sendy Gleyed Matrix (S4)	Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and
Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  1 orn Muke (A8) (LRR D)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Below Derk Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Minerel (S1)  Sandy Gleyed Matrix (S4)	Red Parent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and
Stratified Layers (A5) (LRR C)  1 cm Muck (A8) (LRR D)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Minerel (S1)  Sendy Gleyed Matrix (S4)	Other (Explain in Remarks)  Indicators of hydrophytic vegetation and
1 cm Muck (A8) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sendy Gleyed Metrix (S4)	<sup>3</sup> Indicators of hydrophylic vegetation and
Depleted Below Derk Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Metrix (S4)	
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sendy Gleyed Matrix (S4)	
Sandy Mucky Mineral (S1) Vernal Pools (F9) Sendy Gleyed Matrix (S4)	
Sendy Gleyed Matrix (S4)	
<del></del>	wetland hydrology must be present,
lestrictive Leyer (if present):	unless disturbed or problematic.
Type:	
Depth (Inches):	Hydric Soil Present? Yes No
emarks:	
/DROLOGY	
fetland Hydrology Indicators:	
rimary indicators (minimum of one required; check all that apply)	Secondary indicators (2 or more required)
Surface Water (A1) Selt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2) Blotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Seturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Suifide Odor (C1)	Orainage Patterns (B10)
	Living Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	
, , , , , , , , , , , , , , , , , ,	, , ,
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled	• • •
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitand (D3)
Other (Explain in Remarks)	FAC-Neutral Test (D5)
leid Observations:	
Jurface Weter Present? Yes No Depth (Inches):	_
minute training to the proper (minute).	_
Nater Table Present? Yes No Depth (Inches):	Wastend Hudrology Drapant? Von Mar
Nater Table Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches):	Wetland Hydrology Present? Yes No
Vater Table Present? Yes No Depth (Inches):	
Vater Table Present? Yes No Depth (Inches):	
Vater Table Present? Yes No Depth (Inches):	
Vater Table Present? Yes No Depth (Inches):	
Vater Table Present? Yes No Depth (Inches):	

% Bare Ground in Herb Stratum \_

Remarks:

be present, unless disturbed or problematic.

Hydrophytic

SOIL

Sampling Point \_\_

