



Sewall Wetland Consulting, Inc.

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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: Vicinity Map of site



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.



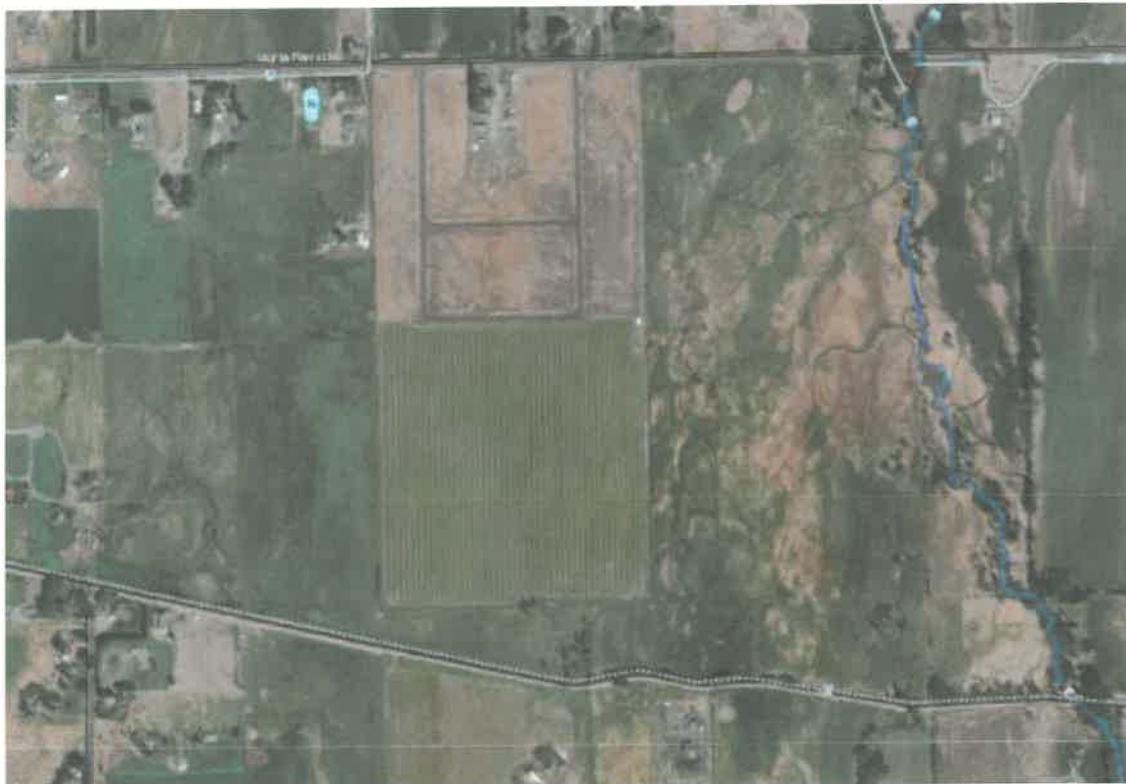
Above: Kittitas County wetland and stream mapping of the site.

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.



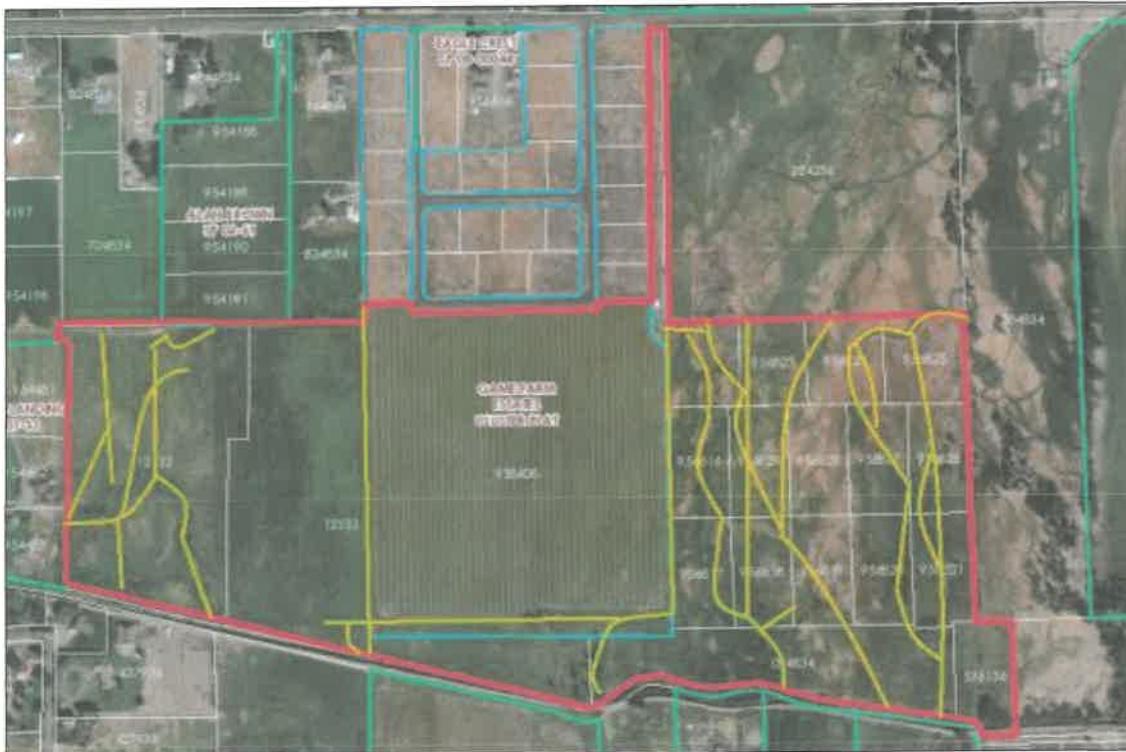
Above: WADNR Fpars stream mapping of the site



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’;

<u>Category</u>	<u>Size of Wetland</u>	<u>Required Buffer</u>
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 zoning lot line setbacks, but shall not exceed 25 feet.

*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 cobbley 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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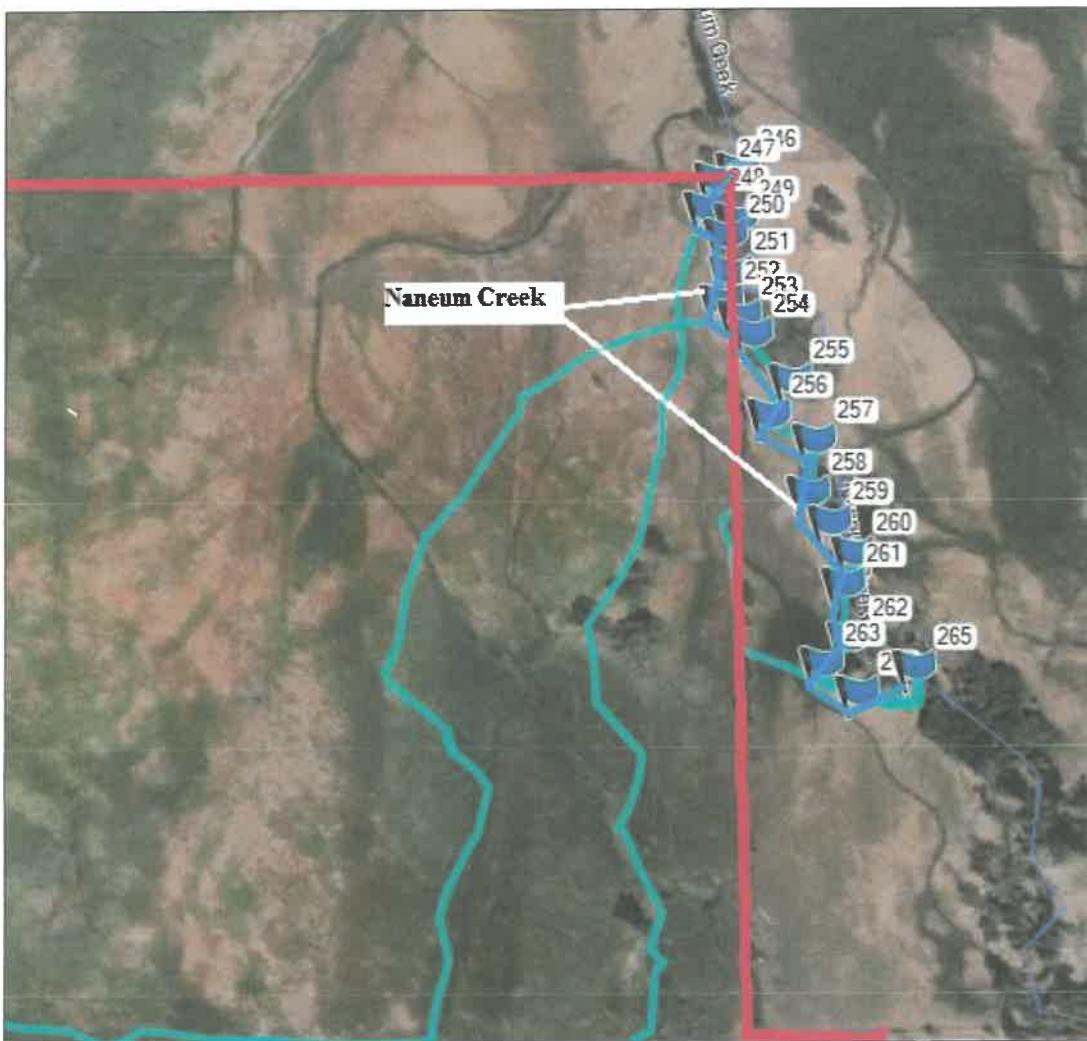
*Includes only non irrigation induced or enhanced Category IV wetlands. Irrigation water does influence ground water table elevations in Kittitas County.

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 esewall@sewallwc.com.

Sincerely,
Sewall Wetland Consulting, Inc.



Ed Sewall
Senior Wetlands Ecologist PWS #212

Attached: Data sheets
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.
- Muller-Dombois, D. and H. Ellenberg. 1974. Aims and Methods of Vegetation Ecology. John Wiley & Sons, Inc. New York, New York.
- Munsell Color. 1988. Munsell Soil Color Charts. Kollmorgen Instruments Corp., Baltimore, Maryland.
- National Technical Committee for Hydric Soils. 1991. Hydric Soils of the United States. USDA Misc. Publ. No. 1491.
- 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

Wetland name or number _____

RATING SUMMARY – Eastern Washington

Name of wetland (or ID#): Schulz / Date of site visit: 10-4-2

Date of training: 10-4-2

Trained by Ecology? Yes No

Date of training: 10-4-2

Wetland name or number: A

Wetland name or number:

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 unit does not meet all the criteria, go to Question 5. If the unit meets all the criteria, go to Question 6. If the unit meets some of the criteria, go to Question 7.	

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)
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 trees 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

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 name or number A

Wetland name or number A

These questions apply to wetlands of all HABITAT classes.

HABITAT FUNCTIONS - Indicators that the function is to provide important habitat

H 1. Does the wetland unit have the potential to provide habitat for many species?

Tally 1 score
per box

Check the Cowardin vegetation classes present and categories of emergent plants. Size threshold for each category is > 1 acre or = 10% of the unit if unit is < 2.5 acres

- Emergent plants 0-22 in (0 - 30 cm) high are the highest layer and have >30% cover
- Emergent plants >12 - 40 in (>30 - 100cm) high are the highest layer with >20% cover
- Scrub/shrub layers where shrubs have >30% cover
- Forested (areas where trees have >30% cover)

points = 3

points = 2

points = 1

points = 0

YES = 1 point

NO = 0 points

0

H 1.6. Special Habitat Features:
 Check the habitat features that are present in the wetland unit. The number of checks is the score.
 Loose rocks larger than 4" & large, downed, woody debris (>1in. diameter) within the area of surface pointing or in stream.

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 (>15 degree slope). OR signs of recent beaver activity

Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, mats/ground cover)

1

2

H 1. TOTAL Score - 6 - 11 = M Record the rating on the first page

Balne of Site Potential If score is: 12 - 16 = H Add the check marks in the box above

H 2.0. Does the landscape have the potential to support habitat at the site?
 H 2.1 Accessible habitat (total area of habitat abutting wetland unit). Calculate: % undisturbed habitat 0 + (% moderate and low intensity land uses)/2 0 = 0 %

If total accessible habitats is:
 > 1/3 (33.3%) of 1km circle (\sim 100 hectares)
 20 - 33% of 1km circle
 10 - 19% of 1km circle
 <10% of 1km circle

H 2.2 Undisturbed habitat in 1km circle around unit. If:
 Undisturbed habitat > 50% of circle
 Undisturbed habitat 10 - 50% and in 1-3 patches
 Undisturbed habitat < 10% of circle

H 2.3 Land use intensity in 1 km circle. If:
 > 50% of circle is high intensity land use
 Does not meet criterion above

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)

Total for H 2 0 Add the points in the boxes above

Balne of Landrace Potential If score is: 4 - 6 = H < 1 = L Record the rating on the first page

H 3.0 Is the habitat provided by the site valuable to society? 7

H 3.1 Does the site provides habitat for species valued in laws, regulations or policies? (Choose the highest score)
 Site meets ANY of the following criteria:
 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, a Shoreline Master Plan, or in a watershed plan

points = 1
 Site has 1 or 2 priority habitats within 100m (see Appendix B)

points = 0
 Site does not meet any of the criteria above

Balne of Value If score is: 2 = H 1 = M 0 = L Record the rating on the first page

Wetland Rating System for Eastern WA: 2014 Update
Rating Form

Tally 1 score
per box

Count the number of plant species in the wetland that cover at least 10 ft². (different patches of the same species can be combined to meet the size threshold)
 Do not include Euonymus Mitfoil Reed canarygrass, purple loosestrife, Rusty Cray, Phragmites

of species 1 Seeding: > 9 species = 2 points 4 - 9 species = 1 points 4 species = 0 points

H 4. Richness of Plant Species

Count the number of plant species in the wetland that cover at least 10 ft². (different patches of the same species can be combined to meet the size threshold)
 You do not have to name the species.

Carex? Thistle? Yellow flag lvs, old Soft Cedar (Tilia?/Spiraea?)

High = 3 points
 Moderate = 2 points
 Low = 1 point
 None = 0 points

Figure 1

H 5. Interception of habitats

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 HJ.1 and map of open water from H.3


 Low = 1 point


 Moderate = 2 points


 High = 3 points


 None = 0 points

Riparian braided channels with 2 classes = High
 Riparian braided channels with 3 classes and open water the rating is always "high".

NOTE: If you have four or more classes of three plants classes and open water the rating is always "high".

Rating Form

Wetland Rating System for Eastern WA: 2014 Update
Rating Form

13

14

Wetland name or number A

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

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 ft², 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.
- Wetland plants are typically present only in the spring; the summer vegetation is typically upland annuals. *NOTE: If you find perennials, "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.

YES = Go to SC 1.1

SC 1.1 Is the vernal pool relatively undisturbed in February and March?

YES = Go to SC 1.2 NO = Go to SC 1.2

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.)?

YES = Category II NO = Category III

SC 2.0 Alkaline 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.
- Salt encrustations around more than 80% of the edge of the wetland
- More than % of the plant cover consists of species listed on Table 4
- A pH above 9.0. All alkaline 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 alkaline wetlands.

YES = Category I

OR does the wetland unit meets two of the following three sub-criteria?

- More than % of the plant cover consists of species listed on Table 4
- A pH above 9.0. All alkaline 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 alkaline wetlands.
- NO = not an alkaline wetland

Category I

Wetland name or number A

SC 3.0 Wetlands with High Conservation Value (WHCV)

SC 2.1 Has the Department of Natural Resources updated their web site to include the list of Wetlands with High Conservation Value? NO – Go to SC 2.3.

YES = Go to SC 2.2

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
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/nhr/reidesk/datasheets/townships.pdf

YES — contact WHNP/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

NO = not 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

SC 4.2. Does an area within the unit have organic soils, other 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

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 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

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
- The pH of free water ≥ 6.8 AND electrical conductivity ≥ 200 uS/cm at multiple locations within the wetland

Yes = Is a Category I calcareous fen

No = Is not a calcareous fen

Category I

Wetland name or number _____

Wetland name or number _____

Appendix B: WDFW Priority Habitats in Eastern Washington

SC 5.0 Forested Wetlands	Category I	Category II
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)		
<ul style="list-style-type: none"> • The wetland is within the "100 year" floodplain of a river or stream • Aspen (<i>Populus tremuloides</i>) represents at least 20% of the total cover of woody species <p>— There is at least ½ acre of trees (even in wetlands smaller than 2.5 acres) that are “native” or “old-growth” according to the definitions for these priority habitats developed by WDFW (see definitions in question H 3.)</p> <p>YES = go to SC 5.1 NO = not a forested wetland with specific characteristics</p>	Cat. I	Cat. II
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 (<i>Populus tremuloides</i>) 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)		
	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 NO = Category I	
		Category of wetland based on Sust'l Characteristics
		Choose the “highest” rating // wetland falls into several categories
		If you answered NO for all types enter “Not Applicable” on p.1

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. <https://wdfw.wa.gov/publications/001/65.1/wdfwlist065.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).

Baldalderworts Areas and Corridors: Areas of habitat that are relatively important to various species of native habitat and wildlife (full descriptions in WDFW PHS Report p. 152).

Old-growth/Nature 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 >50 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. **Nature 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.

Instrument: The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for in-stream 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 Homogeneous areas of rock rubble ranging in average size 0.15 - 2.0 m (0.5 - 6.5 ft), composed of basalt, andesite, sand, and/or sedimentary rocks, featuring riprap slopes and talus scree. May be associated with cliff faces.

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 Easeltide Steppe for sites with little or no shrub cover).
Easeltide 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. campesina*), or needlegrass (*Achnatherum spp.*).

Juniper Savannakate: 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.

Wetlands

2-E

RATING SUMMARY - Eastern Washington

Name of wetland (or ID#): <u>Wetland B</u>	Sighted <u>5/20/12</u>	Date of site visit: <u>10-7-12</u>
Rated by <u>2-E</u>	Trained by Ecology? Yes <u>No</u>	Date of training _____
HGM Class Used for Rating <u>Dryland</u>	Unit has multiple HGM classes? <u>Y</u> <u>N</u>	

NOTE: Form is not complete without the figures requested (figures can be combined).
 Source of base aerial photo/map 1/4

OVERALL WETLAND CATEGORY 1/4

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	Intermittent Water Quality	Hydrology	Habitat	Rating		
				H	M	L
Site Potential	H	M	L	H	M	L
Landscape Potential	H	M	L	H	M	L
Value	H	M	L	H	M	L
Score Based on Ratings	6	4	7			

2. Category based on SPECIAL CHARACTERISTICS of wetland

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

Wetland name or number 12

Wetland name or number _____

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.

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?
 - _____ 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).
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.
 - _____ NO - go to 4 YES - The wetland class is Slope
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 Depression
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

HGM Classification of Wetland Units in Eastern Washington

Wetland name or number B

Wetland name or number _____

HABITAT FUNCTIONS - Indicators that site functions to provide important habitat	
H 1. Does the wetland unit have the Potential to provide habitat for many species? H 1.1 Categories of vegetation structure Check the Cowardin vegetation classes present and categories of emergent plants. Site threshold for each category is >= acre or >= 10% of the unit if unit is < 2.5 acres	
Emergent plants 0-12 in. (0 - 30 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 >20% cover) _____ Forested (areas where trees have >30% cover)	
H 1.2. Is one of the vegetation types "aquatic bed?" H 1.3. Surface Water: H 1.3.1 Does the unit have areas of "open" water (without herbaceous or shrub plants) over at least ¼ acre OR 10% of its area during the March to early June OR in August to the end of September? <small>Note: answer YES for lakes/streams, wetlands</small> YES = 3 points & go to H 1.3.2 NO = go to H 1.4	
H 1.3.2 Does the unit have an intermittent or permanent, and unvegetated stream within its boundaries, or along one side, over at least ½ acre or 10% of its area, (answer YES only if H 1.3.1 is NO)? NO = 0 points YES = 3 points	
H 1.4. Richness of Plant Species Count the number of plant species in the wetland that cover at least 10 ft ² . (different patches of the same species can be combined to meet the size threshold) <small>You do not have to name the species.</small> <small>Do not include European Mifoli, reed canarygrass, purple loosestrife, Russian Olive, Phragmites,</small> <small>Canadian Thistle, Yellow-flag iris, and Salt Cedar (Tamarisk)</small> # of species _____ Scoring: > 9 species = 2 points 4-9 species = 1 point < 4 species = 0 points	
H 1.5. Interspersion of habitats 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. <small>Use map of Cowardin plant classes prepared for questions H 1.1 and map of open water from H 1.3</small>	
 None = 0 points High = 3 points Medium = 2 points Low = 1 point	 High = 3 points Medium = 2 points Low = 1 point

H 1.6. Special Habitat Features:	
Check 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 on a stream. _____ Cat tails 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/bonded. _____ 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, moss/ground cover)	
H 1. TOTAL Score - Rating of Site Potential H score is: 12 - 16 = H 0 - 5 = L Record the rating on the first page	
H 2.0. Does the landscape have the potential to support habitat at the site? H 2.1 Accessible habitat (only areas of habitat abutting wetland unit). Calculate: % undisturbed habitat: <u> </u> + [1/3 moderate and low intensity land uses]/2) <u> </u> = <u> </u> % <small>If total accessible habitat is:</small> > 1/3 (33.3%) of 1km circle (~100 hectares) <u> </u> points = 3 20 - 33% of 1km circle <u> </u> points = 2 10 - 19% of 1km circle <u> </u> points = 1 <10% of 1km circle <u> </u> points = 0	
H 2.2 Undisturbed habitat in 1km circle around unit. If: Undisturbed habitat > 50% of circle <u> </u> <small>points = (-2)</small> Undisturbed habitat 10 - 50% and in 1-3 patches <u> </u> <small>points = 0</small> Undisturbed habitat 10 - 50% and > 3 patches <u> </u> <small>points = 1</small> H 2.3 Land use intensity in 1 km circle. If: > 50% of circle is high intensity land use <u> </u> <small>points = (-2)</small> <small>Does not meet criterions above</small> 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) <u> </u> <small>points = 3</small>	
Total for H 2 Add the points in the boxes above 4 - 6 = H 1 - 3 = M < 1 = L Rating of Landscape Potential. If score is: Record the rating on the first page	
H 3.0 Is the Habitat provided by the site valuable to society? H 3.1 Does the site provides habitat for species valued in laws, regulations or policies? (choose the highest score) <small>Site meets ANY of the following criteria:</small> _____ 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	
<small>Site has 1 or 2 priority habitats within 100m (see Appendix B)</small> <small>If site does not meet any of the criteria above</small> Rating of Value If score is: 2 = H 1 = M 0 = L Record the rating on the first page	

B
Wetland name or number

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

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 ft², 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
- 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.

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.)?
 YES = Category II
 NO = Category III

SC 2.0 Alkalai 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 alkalai 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 % of the plant cover consists of species listed on Table 4
- A pH above 9.0. All alkalai 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 alkalai wetlands.

YES = Category I

NO - not an alkalai wetland

SC 3.0 Wetlands with High Conservation Value (WHCV)	
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
SC 2.3 Is the wetland unit being rated in a Section/Township/Range that contains a Natural Heritage wetland?	YES — contact WNR/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 NO — not 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 comprise 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 4.2 No - Go to SC 4.3
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
SC 4.5. 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
SC 4.6. Do the species listed in Table 6 comprises 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 (CaCO ₃) precipitate) occur on the soil surface or plant stems • The pH of free water ≥ 6.8 AND electrical conductivity ≥ 200 uS/cm at multiple locations within the wetland
YES = Is a Category I calcareous fen NO - Is not a calcareous fen	

Wetland name or number
13

Wetland name or number

Appendix B: WDFW Priority Habitats in Eastern Washington

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 any 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 (<i>Populus tremuloides</i>) represents at least 20% of the total cover of woody species	
— There is at least ½ acre of trees (even in wetlands smaller than 2.5 acres) that are "mature" or "old-grown" according to the definitions for these priority habitats developed by WDFW here Definitions in question H3.1.]	
YES = go to SC 5.1 (NO = not a forested wetland with special characteristics)	Cat. I
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)	
NO = go to SC 5.2	
YES = Category I	
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.	
NO = go to SC 5.3	
YES = Category I	
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)	
NO = go to SC 5.5	
YES = Category II	
SC 5.4 Is the forested component of the wetland within the "100 year floodplain" of a river or stream?	
YES = Category II	
Category of wetland based on Special Characteristics	
Choose the "highest" rating if wetland falls into several categories. If you answered NO for all types enter "Not Applicable" on p.1	

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_wetby0165.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].

— **Biodiversity Areas and Corridors:** Areas of habitat that are relatively important to various species of native fish and wildlife (full descriptions in WDFW PHS report p.152).

— **Old-growth/Nature 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.

— **Stream:** 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:** Homogeneous 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 uses 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 Steppes:** 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

Project Name:	Schmidt																																																														
City/County:	Kittitas																																																														
Sampling Date:	10-4-21																																																														
State:	WA																																																														
Section/Township/Range:	S 32 T 15 R 21																																																														
Investigator(s):	SW Semua																																																														
Landform (Wetland, terrace, etc.):	Local relief (convex, convex, none);																																																														
Subregion (LRR):																																																															
Lat:																																																															
Long:	101°31'33"																																																														
Datum:																																																															
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.																																																															
<p>Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks.)</p> <p>Are vegetation, soil or hydrology significantly disturbed? Are "Normal Circumstances" present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>(If needed, explain any answers in Remarks.)</p> <p><i>→ general, irregular pasture</i></p>																																																															
<p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (Is the Sampled Area within a Wetland?)</p> <p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Remarks: <i>→ general, irregular pasture</i></p>																																																															
<p>VEGETATION - Use scientific names of plants.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Tree Stratum (Plot size: _____)</td> <td style="width: 15%;">Dominant Indicator Species? Status:</td> <td colspan="2">Dominance Test worksheet:</td> </tr> <tr> <td>1. _____</td> <td>_____</td> <td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td> <td>_____</td> </tr> <tr> <td>2. _____</td> <td>_____</td> <td>Total Number of Dominant Species Across All Strata:</td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>= Total Cover</td> <td>Prevalence Index worksheet:</td> <td>_____</td> </tr> <tr> <td colspan="2"></td> <td>Total % Cover: _____</td> <td>Magnitude: _____</td> </tr> <tr> <td>1. _____</td> <td>OBL species</td> <td>x 1 =</td> <td></td> </tr> <tr> <td>2. _____</td> <td>FACW species</td> <td>x 2 =</td> <td></td> </tr> <tr> <td>3. _____</td> <td>FAC species</td> <td>x 3 =</td> <td></td> </tr> <tr> <td>4. _____</td> <td>FACU species</td> <td>x 4 =</td> <td></td> </tr> <tr> <td>5. _____</td> <td>UBI species</td> <td>x 5 =</td> <td></td> </tr> <tr> <td colspan="2">Column Totals: _____</td> <td>(A) _____</td> <td>(B) _____</td> </tr> <tr> <td colspan="4"> <p>Prevalence Index = B/A = <u><u>FAC</u></u></p> <p>Hydrophytic Vegetation Indicators:</p> <p>✓ Dominance Test is >90%</p> <p>✓ Prevalence Index is ≥ 3^d</p> <p>— Morphological Adaptations^a (Provide supporting data in Remarks or on a separate sheet)</p> <p>— Problematic Hydrophytic Vegetation^b (Explain)</p> <p>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> </td> </tr> <tr> <td colspan="4"> <p>1. _____</p> <p>2. _____</p> <p>Wetland Vascular Stratum (Plot size: _____)</p> <p>1. _____</p> <p>2. _____</p> <p>= Total Cover</p> <p>% Bare Ground In Herb Stratum _____</p> <p>Remarks:</p> </td> </tr> <tr> <td colspan="4"> <p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> </td> </tr> </table>				Tree Stratum (Plot size: _____)	Dominant Indicator Species? Status:	Dominance Test worksheet:		1. _____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	_____	2. _____	_____	Total Number of Dominant Species Across All Strata:	_____	3. _____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	_____	4. _____	= Total Cover	Prevalence Index worksheet:	_____			Total % Cover: _____	Magnitude: _____	1. _____	OBL species	x 1 =		2. _____	FACW species	x 2 =		3. _____	FAC species	x 3 =		4. _____	FACU species	x 4 =		5. _____	UBI species	x 5 =		Column Totals: _____		(A) _____	(B) _____	<p>Prevalence Index = B/A = <u><u>FAC</u></u></p> <p>Hydrophytic Vegetation Indicators:</p> <p>✓ Dominance Test is >90%</p> <p>✓ Prevalence Index is ≥ 3^d</p> <p>— Morphological Adaptations^a (Provide supporting data in Remarks or on a separate sheet)</p> <p>— Problematic Hydrophytic Vegetation^b (Explain)</p> <p>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p>				<p>1. _____</p> <p>2. _____</p> <p>Wetland Vascular Stratum (Plot size: _____)</p> <p>1. _____</p> <p>2. _____</p> <p>= Total Cover</p> <p>% Bare Ground In Herb Stratum _____</p> <p>Remarks:</p>				<p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>			
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<p>Type: C=Continuum; D=Desertion; R=Reduced Matrix; CB=Compressed or Cracked Sand Grains. Location: PI=Pore Unity, NM=Mic.</p> <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <ul style="list-style-type: none"> Hilgard (A1) Hydric Epiphany (A2) Black Flatic (A3) Hydrogen Saturated (A4) Sandhill Levee (A5) (LRR C) 1 cm Muck (A6) (LRR C) Dugbed Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Grayish Matrix (S4) Vernal Pools (F6) Root Creases (F7) Rainbow Depression (F8) Vernal Pools (F9) <p>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>																																							
<p>Indicators for Problematic Hydric Soils:</p> <ul style="list-style-type: none"> Sandy Radix (S5) Steppe Matrix (S6) Lumpy Muddy Mineral (F1) Leamy Gleyed Matrix (F2) Depleted Matrix (F3) Recent Dark Surface (F4) Drift Deposits (F11) Drift Deposits (F12) Drift Deposits (F13) Drift Deposits (F14) Drift Deposits (F15) Drift Deposits (F16) Drift Deposits (F17) Drift Deposits (F18) Rod Parent Material (T12) Other (Explain in Remarks) 																																							
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<p>Reactive Layer (if present): _____</p> <p>Type: _____</p> <p>Depth (inches): _____</p> <p>Remarks: _____</p>																																							
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WETLAND DETERMINATION DATA FORM - Arid West Region

Project Site: Schultz City/County: Kittitas Sampling Date: 10-4-21
 Applicant/Owner: SJ Stewards State: WA Sampling Point: DDB3

Investigator(s): SJ Stewards Section, Township, Range: S 32 T 18 R 15
 Landform (hillsides, terraces, etc.): Low relief (cones, cones, none) Slope (%): _____
 Subregion (AFRI): Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: Soil Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any anomalies in Remarks.)

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

Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No
 Hydric Soil Present? Yes No Within a Wetland? Yes No
 Wetland Hydrology Present? Yes No
 Remarks: dry soil, no vegetation, no water

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute Dominant Indicator % Cover, Species? Status?	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____	(A)
1. _____	_____	_____	(A)
2. _____	_____	_____	(B)
3. _____	_____	_____	(C)
4. _____	_____	_____	(D)
5. _____	_____	_____	(E)
Total Cover	<u>FAC</u>	Column Total: <u>95</u>	(F)

Prevalence Index worksheet:
 Total % Cover of: Mulberry
 OBL species: 0 x 1 = 0
 FACW species: 0 x 2 = 0
 FAC species: 0 x 3 = 0
 UPL species: 95 x 4 = 380
 Column Total: 95 x 5 = 475

Prevalence Index = 380 / 475 = 0.8

Hydrophytic Vegetation Indicators:
 Dominance Test is 75%
 Prevalence Index is 32.0%

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

Indications of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

% Bare Ground in Herb Stratum: 0 % Cover of Biotic Cover: 0
 Remarks: no vegetation

SOIL

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

Depth (Inches)	Matrix	Color (Inches)	Texture	Indicators
0	Cinder (Inches)	7/3	Coarse	Plu-Floam Links, M-Histic.
10	10 Yl 3/2	0 cm	—	Indicators for Phreatomeda Hydric Soils:
16	16 Yl 3/2	—	—	Type: Cr-Concretion, Di-Decalcification, Rha-Reducted Matrix, Cse-Cemented or Coated Sand Gralls, 3 location: Plu-Floam Links, M-Histic.
18	18 Yl 3/2	—	—	Hydric Soil Indicators: (Applicable to all LUBs, unless otherwise noted.)
20	20 Yl 3/2	—	—	Sandy Redox (S5) — 1 cm Muck (A1) (LRR C)
22	22 Yl 3/2	—	—	Stripped Matrix (S6) — 2 cm Muck (A10) (LRR B)
24	24 Yl 3/2	—	—	Black Matrix (A3) — Reduced Vertic (F-6)
26	26 Yl 3/2	—	—	Hydrogen Bullock (A4) — Red Parent Material (T-2)
28	28 Yl 3/2	—	—	Stratified Layer (A5) (LRR C) — Other (Explain in Remarks)
30	30 Yl 3/2	—	—	1 cm Muck (A9) (LRR D) — Redox Dark Surface (F-8)
32	32 Yl 3/2	—	—	Digested Dark Surface (F-1) — Redox Depressions (F-8)
34	34 Yl 3/2	—	—	Thick Dark Surface (A12) — Vernal Pools (F-6)
36	36 Yl 3/2	—	—	Sandy Nutric Mamm (S1) —
38	38 Yl 3/2	—	—	Sandy Grayed Matrix (S4) —
40	40 Yl 3/2	—	—	Reactive Layer (If present):
42	42 Yl 3/2	—	—	Type: Depth (inches): _____
44	44 Yl 3/2	—	—	Remarks: _____
46	46 Yl 3/2	—	—	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indication (minimum of one required; check all that apply)	Secondary Indication (2 or more required)
Surface Water (A1)	Water Marks (B1) (Plu/wet)
High Water Table (A2)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Channeled Patterns (B4) (Riverine)
Sediment Deposits (B2) (Nonriverine)	Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Chaylath Burrows (C3)
Surface Soil Cracks (B6)	Saturation Visible on Aerial Imagery (C8)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquifano (D3)
Winter-Stained Leaves (B8)	Drift (Explain in Remarks)

Field Observations:	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surfaces Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (Includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____

Remarks: no vegetation

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SchnellCity/Country: KyrgyzstanSampling Date: 10-4-21State: W.A.Sampling Point: D#4Section, Township, Range: 53 2 17Local relief (convex, concave, none): NoneSlope (%): 2%

Lat: _____

Long: _____

NWII classification: _____

Depth (inches): _____

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 No (If needed, update any answers in Remarks.)

Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed?

Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic?

Remarks: → grassed, no vegetated pasture

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

Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Hydrophytic Soil Present? Yes No Wetland Hydrology Present? Yes No

Remarks: _____

VEGETATION – Use scientific names of plants.

Site Stratum (Plot size: _____)

Dominant Indicator Species? Shrub.

% Cover? 2.

(A)

Number of Dominant Species That Are CBL, FACW, or FAC:

7.

(B)

Total Number of Dominant Species Across All Strata:

7.

(C)

Percent of Dominant Species That Are CBL, FACW, or FAC:

1.

(D)

Prevalence Index (Weighted):

1.

Methodology:

CBL species x 1 = _____

FACW species x 2 = _____

FAC species x 3 = _____

VPL species x 4 = _____

Column Total: 5.0

(E)

Herb Stratum (Plot size: _____)

Dominance Test is S.C.D.

Prevalence Index = B/A = 100%

Hydrophytic Vegetation Indicators:

"Dominance Test is S.C.D."

"Morphological Adaptations" (Provide supporting data in Remarks or on a separate sheet)

"Problematic Hydrophytic Vegetation" (Explain)

Prevalence Index is S.C.D.

Indication of hydrophytic vegetation must be present, unless disturbed or problematic.

Total Cover 5.0Total Cover 5.0

Remarks: _____

% Bare Ground in Herb Stratum (Plot size: _____)

Total Cover 5.0

% Cover of Biotic Crust _____

Remarks: _____

SOIL

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

Depth (inches)	Metric	Radius (inches)	Radius Feature	% Color (inches)	Tone (inches)	Texture (inches)	Remarks
10	10	37.3	37.3	100	100	100	C/C/D

Sampling Point: DP#4Local relief (convex, concave, none): NoneSlope (%): 2%

Lat: _____

Long: _____

NWII classification: _____

Depth (inches): _____

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 No (If needed, update any answers in Remarks.)

Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed?

Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic?

Remarks: _____

Type: C=Concretion, D=Dilution, R=R=Reduced Matrix, CS=Covered or Coated Sand Grains, P=Porous Lining, M=Melt.

Hydrophytic Soil Indicators: (Applicable to all LRGs, unless otherwise noted.)

Horizon (A1) _____

Horizon Epipedon (A2) _____

Black Muck (A3) _____

Hydrogen Sulfide (A4) _____

Strengthen Layer (A5) (LRR C) _____

1 cm Muck (A6) (LRR D) _____

Depressed Dark Surface (F7) _____

Thick Dark Surface (A12) _____

Sandy Mucky Mire (S1) _____

Sandy Glayed Muds (S4) _____

Depressed Dark Surface (F8) _____

Vernal Pools (F9) _____

Indications of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Secondary Indicators (2 or more described)

Water Marine (B1) (Riverine) _____

Sediment Deposits (B2) (Riverine) _____

Drift Deposits (B3) (Riverine) _____

Drift Deposits (B4) (Riverine) _____

Oxidized Rhizosphere along Living Roots (C1) _____

Presence of Reduced Iron (C4) _____

Recent Iron Reduction in Tilled Soils (C5) _____

Thin Muck Surface (C7) _____

Other (Explain in Remarks) _____

Shallow Aquifard (D3) _____

Fa/C-Neutral Test (D5) _____

Field Observations:

Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No

Described Recorded Data (stream gauge, monitoring well, USGS, previous inspections); If available:

Remarks: _____

US Army Corps of Engineers

Arid West - Version 2.0

Arid West - Version 2.0

WETLAND DETERMINATION DATA FORM - Arid West Region

Schultz Project Site: **Kittitas** City/County: **Sampling Date:** **10-4-21**

State: **WA** Sampling Point: **D#5**

Aplicant/Owner:

City/County:

Sampling Date:

Section, Township, Range:

Investigator(s):

Landform (Hillocks, terraces, etc.):

Substratum (LRR):

Soil Map Unit Name:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks)

Are Vegetation _____, Soil _____ or Hydrology _____ significantly disturbed?

Are Vegetation _____, Soil _____ or Hydrology _____ naturally problematic?

Are Vegetation _____, Soil _____ or Hydrology _____ naturally problematic?

NHW classification:

Local relief (convex, concave, neutral):

Slope (%):

Lat:

Long:

Date:

Hydrophytic vegetation present? Yes _____ No _____

Hydric Soil Present? Yes _____ No _____

Wetland Hydrology Present? Yes _____ No _____

Remarks: ~ 9' tall, 1' vegetated surface

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

Hydrophytic Vegetation Present?	Yes _____ No _____	In the Sampled Area within a Wetland?	Yes _____ No _____
Hydric Soil Present?	Yes _____ No _____	Total Number of Dominant Species That Are DBL, FACW, or FAC:	(A) _____
Wetland Hydrology Present?	Yes _____ No _____	Species Across All Strata:	(B) _____
Remarks:	= Total Cover		
Prevalence Index (within plot):			
1.	DBL species	Total % Cover (B1)	Altitude (ft):
2.	FACW species	x 1 =	
3.	FAC species	x 2 =	
4.	FAC species	x 3 =	
5.	FAC species	x 4 =	
6.	FAC species	x 5 =	
7.	Total Cover	(A) _____	
8.	Total Cover	(B) _____	
9.	Total Cover	(C) _____	
10.	Total Cover	(D) _____	
11.	Total Cover	(E) _____	
12.	Total Cover	(F) _____	
13.	Total Cover	(G) _____	
14.	Total Cover	(H) _____	
15.	Total Cover	(I) _____	
16.	Total Cover	(J) _____	
17.	Total Cover	(K) _____	
18.	Total Cover	(L) _____	
19.	Total Cover	(M) _____	
20.	Total Cover	(N) _____	
21.	Total Cover	(O) _____	
22.	Total Cover	(P) _____	
23.	Total Cover	(Q) _____	
24.	Total Cover	(R) _____	
25.	Total Cover	(S) _____	
26.	Total Cover	(T) _____	
27.	Total Cover	(U) _____	
28.	Total Cover	(V) _____	
29.	Total Cover	(W) _____	
30.	Total Cover	(X) _____	
31.	Total Cover	(Y) _____	
32.	Total Cover	(Z) _____	
33.	Total Cover	(AA) _____	
34.	Total Cover	(BB) _____	
35.	Total Cover	(CC) _____	
36.	Total Cover	(DD) _____	
37.	Total Cover	(EE) _____	
38.	Total Cover	(FF) _____	
39.	Total Cover	(GG) _____	
40.	Total Cover	(HH) _____	
41.	Total Cover	(II) _____	
42.	Total Cover	(JJ) _____	
43.	Total Cover	(KK) _____	
44.	Total Cover	(LL) _____	
45.	Total Cover	(MM) _____	
46.	Total Cover	(NN) _____	
47.	Total Cover	(OO) _____	
48.	Total Cover	(PP) _____	
49.	Total Cover	(QQ) _____	
50.	Total Cover	(RR) _____	
51.	Total Cover	(SS) _____	
52.	Total Cover	(TT) _____	
53.	Total Cover	(UU) _____	
54.	Total Cover	(VV) _____	
55.	Total Cover	(WW) _____	
56.	Total Cover	(XX) _____	
57.	Total Cover	(YY) _____	
58.	Total Cover	(ZZ) _____	
59.	Total Cover	(AA) _____	
60.	Total Cover	(BB) _____	
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68.	Total Cover	(JJ) _____	
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70.	Total Cover	(LL) _____	
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74.	Total Cover	(PP) _____	
75.	Total Cover	(QQ) _____	
76.	Total Cover	(RR) _____	
77.	Total Cover	(UU) _____	
78.	Total Cover	(VV) _____	
79.	Total Cover	(WW) _____	
80.	Total Cover	(XX) _____	
81.	Total Cover	(YY) _____	
82.	Total Cover	(ZZ) _____	
83.	Total Cover	(AA) _____	
84.	Total Cover	(BB) _____	
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86.	Total Cover	(DD) _____	
87.	Total Cover	(EE) _____	
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101.	Total Cover	(UU) _____	
102.	Total Cover	(VV) _____	
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105.	Total Cover	(YY) _____	
106.	Total Cover	(ZZ) _____	
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108.	Total Cover	(BB) _____	
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123.	Total Cover	(QQ) _____	
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125.	Total Cover	(UU) _____	
126.	Total Cover	(VV) _____	
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148.	Total Cover	(RR) _____	
149.	Total Cover	(UU) _____	
150.	Total Cover	(VV) _____	
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153.	Total Cover	(YY) _____	
154.	Total Cover	(ZZ) _____	
155.	Total Cover	(AA) _____	
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169.	Total Cover	(OO) _____	
170.	Total Cover	(PP) _____	
171.	Total Cover	(QQ) _____	
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173.	Total Cover	(UU) _____	
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177.	Total Cover	(YY) _____	
178.	Total Cover	(ZZ) _____	
179.	Total Cover	(AA) _____	
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193.	Total Cover	(OO) _____	
194.	Total Cover	(PP) _____	
195.	Total Cover	(QQ) _____	
196.	Total Cover	(RR) _____	
197.	Total Cover	(UU) _____	
198.	Total Cover	(VV) _____	
199.	Total Cover	(WW) _____	
200.	Total Cover	(XX) _____	
201.	Total Cover	(YY) _____	
202.	Total Cover	(ZZ) _____	
203.	Total Cover	(AA) _____	
204.	Total Cover	(BB) _____	
205.	Total Cover	(CC) _____	
206.	Total Cover	(DD) _____	
207.	Total Cover	(EE) _____	
208.	Total Cover	(FF) _____	
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217.	Total Cover	(OO) _____	
218.	Total Cover	(PP) _____	
219.	Total Cover	(QQ) _____	
220.	Total Cover	(RR) _____	
221.	Total Cover	(UU) _____	
222.	Total Cover	(VV) _____	
223.	Total Cover	(WW) _____	
224.	Total Cover	(XX) _____	
225.	Total Cover	(YY) _____	
226.	Total Cover	(ZZ) _____	
227.	Total Cover	(AA) _____	
228.	Total Cover	(BB) _____	
229.	Total Cover	(CC) _____	
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233.	Total Cover	(GG) _____	
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241.	Total Cover	(OO) _____	
242.	Total Cover	(PP) _____	
243.	Total Cover	(QQ) _____	
244.	Total Cover	(RR) _____	
245.	Total Cover	(UU) _____	
246.	Total Cover	(VV) _____	
247.	Total Cover	(WW) _____	
248.	Total Cover	(XX) _____	
249.	Total Cover	(YY) _____	
250.	Total Cover	(ZZ) _____	
251.	Total Cover	(AA) _____	
252.	Total Cover	(BB) _____	
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265.	Total Cover	(OO) _____	
266.	Total Cover	(PP) _____	
267.	Total Cover	(QQ) _____	
268.	Total Cover	(RR) _____	
269.	Total Cover	(UU) _____	
270.	Total Cover	(VV) _____	
271.	Total Cover	(WW) _____	
272.	Total Cover	(XX) _____	
273.	Total Cover	(YY) _____	
274.	Total Cover	(ZZ) _____	
275.	Total Cover	(AA) _____	
276.	Total Cover	(BB) _____	
277.	Total Cover	(CC) _____	
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287.	Total Cover	(MM) _____	
288.	Total Cover	(NN) _____	
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290.	Total Cover	(PP) _____	
291.	Total Cover	(QQ) _____	
292.	Total Cover	(RR) _____	
293.	Total Cover	(UU) _____	
294.	Total Cover	(VV) _____	
295.	Total Cover	(WW) _____	
296.	Total Cover	(XX) _____	
297.	Total Cover	(YY) _____	
298.	Total Cover	(ZZ) _____	
299.	Total Cover	(AA) _____	
300.	Total Cover	(BB) _____	
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305.	Total Cover	(GG) _____	
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313.	Total Cover	(OO) _____	
314.	Total Cover	(PP) _____	
315.	Total Cover	(QQ) _____	
316.	Total Cover	(RR) _____	
317.	Total Cover	(UU) _____	
318.	Total Cover	(VV) _____	
319.	Total Cover	(WW) _____	
320.	Total Cover	(XX) _____	
321.	Total Cover	(YY) _____	
322.	Total Cover	(ZZ) _____	
323.	Total Cover	(AA) _____	

WETLAND DETERMINATION DATA FORM - And West Region

Schultz

City/County: **Kittitas** Sampling Date: **10-4-21**

State: **WA** Sampling Point: **DPE 6**

Section, Township, Range: **S 32 T 18 R 17**

Landform (Hillslope, terrace, etc.): **Local relief (convex, concave, none):**

Lat: **47° 10' 30"** Slope (%): **10%**

Long: **120° 25' 00"** Datum:

Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed?

Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic?

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

Hydrophytic vegetation present? Yes No Is the Sampled Area within a Wetland? Yes No

Hydro Soil Present? Yes No

Wetland Hydrology Present? Yes No

Remarks: **~ 9 meters, no vegetated surface**

VEGETATION - Use scientific names of plants.

Tre Stratum (Plot size: _____) Absolute Dominant Indicator % Cover: Shrub? Shrub? _____

Number of Dominant Species That Are OBL, FACW, or FAC: **2** (A)

Total Number of Dominant Species Across All Strata: **2** (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: **100% (A/B)**

Prevalence Index (weighted): **1**

Total % Cover: **0** % Native Inv. **0**%

OBL species _____ x 1 = **0**

FACW species _____ x 2 = **0**

FAC species _____ x 3 = **0**

UPL species _____ x 4 = **0**

Column Total: **0** (A) **0** (B)

Total Cover **FAC** **0** **0** **0**

Herb Stratum (Plot size: **0.0000**) **0** **0** **0**

Prevalence Index = **0.0** = **0**

Hydrophytic Vegetation Indicators:

Dominance Test is >20%

Morphological Adaptations¹ (Provides supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Epigeic)

Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

SOIL

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

Depth (inches):	Metric:	Color (inches):	Grain (inches):	Floc (inches):	Taste:	Odor:	Pebble Features:	Remarks:
1/6	/14	3/2	2/2	1/2	Fin	Loam		Cerby 1
Soil Map Unit Name: _____								
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks.)								
Are Normal Circumstances ¹ present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If needed, explain any answer in Remarks.)								
NHW classification: _____								
Type: Cr=Concretion, D=Degradation, RL=Reduced Matrix, CS=Covered or Coated Sand Grains, 3=location: Pl=Pore Linings, Net=Matrix, Indicators for Problematic Hydroic Soils:								
Sandy Redox (S6) <input type="checkbox"/> Shredded Matrix (S6) <input type="checkbox"/> Loamy Mucky Matrix (F1) Disturbed Matrix (F1) Other (Explain in Remarks)								
Hydro Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)								
Hiltbowl (A1) <input type="checkbox"/> Hiltc Edgepiece (A2) <input type="checkbox"/> Black Matrix (A3) <input type="checkbox"/> Hydrogen Bullock (A4) <input type="checkbox"/> Stratified Layer (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Disturbed Dark Surface (F1) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Matrix (S1) <input type="checkbox"/> Sandy Clayey Matrix (S4) <input type="checkbox"/>								
Indicators of hydrophytic vegetation and wetland hydrology may be present, unless disturbed or problematic.								
Type: _____	Depth (inches): _____	Hydro Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
Remarks:								

HYDROLOGY

Wetland Hydrology Indicators:

Bottom Indicators (minimum of one required; check all that apply):	
Surface Water (A1)	<input type="checkbox"/>
High Water Table (A2)	<input type="checkbox"/>
Saturation (A3)	<input type="checkbox"/>
Water Marks (B1) (Nonwetting)	<input type="checkbox"/>
Sediment Deposits (B2) (Nonwetting)	<input type="checkbox"/>
Drift Deposits (B5) (Nonwetting)	<input type="checkbox"/>
Surface Soil Creacks (B6)	<input type="checkbox"/>
Inundation Visible on Aerial Imagery (C7)	<input type="checkbox"/>
Water-Stained and Larvae (B9)	<input type="checkbox"/>
Other (Explain in Remarks)	<input type="checkbox"/>

Secondary Indicators (2 or more required):	
Water Marks (B1) (Riverine)	<input type="checkbox"/>
Sediment Deposits (B2) (Riverine)	<input type="checkbox"/>
Drift Deposits (B3) (Riverine)	<input type="checkbox"/>
Drainage Patterns (C1)	<input type="checkbox"/>
Dry-Season Water Table (C2)	<input type="checkbox"/>
Crevith Burrows (C8)	<input type="checkbox"/>
Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/>
Shallow Aquifer (D3)	<input type="checkbox"/>
FAC=Neutral Test (D6)	<input type="checkbox"/>

Field Observations:

Surface Water Present? Yes No Depth (inches): _____

Water Table Present? Yes No Depth (inches): _____

Saturation Present? Yes No Depth (inches): _____

(includes salinity, turgor)

Describe Recurrent Data (stream gauge, monitoring well, aerial photo, previous inspection), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - And West Region

Project/Site:	Schulz	City/County:	Kittitas	Sampling Date:	10-4-21
Aplicant/Owner:	Ed Schmidt	State:	WA	Sampling Point:	DSP # 7
Investigator(s):		Section, Township, Range:	S 32 T 18 R 17		
Landform (Hillslope, terrace, etc.):		Local relief (convex, concave, none):		Slope (%):	
Subsurgion (LRR):		Lat:		Long:	
Soil Map Unit Name:		NWIS classification:		Datum:	
Are climatic hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks) Are normal circumstances present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
(If needed, explain any answers in Remarks)					
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.					
<p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Remarks: ~ grassed & vegetated pasture</p>					

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute Dominant Indicator Species? % Cover	Dominance Tree indicator Species? % Cover	Number of Dominant Species That Are OBL, FACW, or FAC: _____
1. _____	_____	_____	2 (A)
2. _____	_____	_____	2 (B)
3. _____	_____	_____	_____
4. _____	_____	_____	1 (<input checked="" type="checkbox"/>) (AB)
Standing/Shrub Stratum (Plot size: _____)			
1. _____	Total % Cover of: _____	Mulder BC:	
2. _____	OBL species	x 1 =	
3. _____	FACW species	x 2 =	
4. _____	FAC species	x 3 =	
5. _____	FAC species	x 4 =	
"Total Cover FAC 1. <u>grass</u> <u>for</u> 2. <u>for</u> 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____			
Column Totals: (A) _____ (B) _____ Prevalence Index = B/A = _____			
HYDROPHIC VEGETATION INDICATIONS: Dominance Tree 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.			
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Remarks:			
% Bare Ground In Herb Stratum _____ % Cover of Eiotic Crust _____			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)					
Depth (inches):	Color (inches):	Biotic Features:	Type:	Location:	Remarks:
1/4	1/4 to 2/7				
Soil Description: (Applicable to all LRRs, unless otherwise noted.)					
Histosol (A1)	Sandy Redox (S5)	Indicators for Problematic Hydric Soils:			
Humic Epipedon (A2)	Stripped Matrix (S6)	Location: RL=Porc Uting, McMath.			
Black Histic (A3)	Lumpy Clayey Mineral (F1)				
Hydromic Biologic (A4)	Lumpy Clayey Matrix (F2)				
Sandified Layer (A5) (LER C)	Deleaved Matrix (F3)				
1 cm Muck (A6) (LRR C)	Heavily Dark Surface (F6)				
Duplicated Brown Dark Surface (A11)	Depressed Dark Surface (F7)				
Thick Dark Surface (A12)	Rainbow Depressions (F8)				
Sandy Nutty Mineral (S1)	Vernal Pools (F9)				
Bandy Grayed Matrix (S4)					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)					
Inundation Layer (If present):	Type:	Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
	Depth (inches):				
Remarks:					

HYDROLOGY

Wetland Hydrology Indication:					
Primary Indication: Indication of water inundation: check all that apply					
Surface Water (A1)	Salt Creek (B11)	Secondary Indication (check all that apply)			
High Water Table (A2)	Biotic Crust (B12)				
Saturation (A3)	Aquatic Invertebrates (B13)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)				
Sediment Deposits (B2) (Mostly) (B2)	Oxidized Rhizosphere along Living Roots (C2)				
Drift Deposits (B3) (Mostly) (B3)	Presence of Reduced Iron (C4)				
Surface Soil Cracks (B6)	Recent Iron Reduction in Third Soils (C5)				
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)				
Water-Stained Leaves (B8)	Other (Explain in Remarks)				
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):			
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):			
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):			
Describe Recorded Data (stream gauge, monitoring well, aerial photo, previous inspection), if available:					
Remarks:					

WETLAND DETERMINATION DATA FORM - And West Region

Project/Site:	Schultz			City/County:	Kittitas			Sampling Date:	10-4-21																																																																																																										
Applicant/Owner:	S. St. & Co.			State:	WA			Sampling Point:	DD#8																																																																																																										
Investigator(s):				Section, Township, Range:	S 32 T 15 R 15			Slope (%):																																																																																																											
Landform (Hillslope, terrace, etc.):				Local relief (convex, concave, none):				Lat:																																																																																																											
Subregion (LRR):				Long:				Altitude:																																																																																																											
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																																																																																																																			
<p>Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>(If no, explain in Remarks.)</p> <p>Are "Normal Circumstances" present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>(If needed, explain any answers in Remarks.)</p> <p>~ ground, no vegetation, no water</p>																																																																																																																			
VEGETATION – Use scientific names of plants. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Tree Stratum (Plot size: _____)</td> <td style="width: 15%;">Absolute Dominant Indicator % Cover. Species? Shrub...</td> <td style="width: 15%;">Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____</td> <td style="width: 15%;">Prevalence Index worksheet: Total % Cover of: _____</td> </tr> <tr> <td>1. _____</td> <td>_____</td> <td>1 (A) <input type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>2. _____</td> <td>_____</td> <td>1 (B) <input type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>1 (C) <input type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>_____</td> <td>1 (D) <input type="checkbox"/></td> <td>_____</td> </tr> <tr> <td colspan="2">Shrub/Scrub Stratum (Plot size: _____)</td> <td colspan="2">= Total Cover <input checked="" type="checkbox"/></td> </tr> <tr> <td>1. _____</td> <td>OBL species _____</td> <td>Column Total: x 1 = _____</td> <td>Number of Dominant Species That Are OBL, FACW, or FAC: _____</td> </tr> <tr> <td>2. _____</td> <td>FACW species _____</td> <td>x 2 = _____</td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>FAC species _____</td> <td>x 3 = _____</td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>FACU species _____</td> <td>x 4 = _____</td> <td>_____</td> </tr> <tr> <td>5. _____</td> <td>VPL species _____</td> <td>x 5 = _____</td> <td>_____</td> </tr> <tr> <td colspan="2">Herb Stratum (Plot size: _____)</td> <td colspan="2">= Total Cover <input checked="" type="checkbox"/></td> </tr> <tr> <td>1. _____</td> <td>Seepage _____</td> <td>Column Total: x 1 = _____</td> <td>Number of Dominant Species That Are OBL, FACW, or FAC: _____</td> </tr> <tr> <td>2. _____</td> <td>Groundwater _____</td> <td>x 2 = _____</td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>Surface Water _____</td> <td>x 3 = _____</td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>Drift Deposits _____</td> <td>x 4 = _____</td> <td>_____</td> </tr> <tr> <td>5. _____</td> <td>Surficial Soils _____</td> <td>x 5 = _____</td> <td>_____</td> </tr> <tr> <td>6. _____</td> <td>Inundation Visible on Aerial Imagery (S7) _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>7. _____</td> <td>Water-Stabilized Lenses (B5) _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>8. _____</td> <td>Water Table Present? _____</td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Depth (inches): _____</td> </tr> <tr> <td colspan="2">Woody Vines Stratum (Plot size: _____)</td> <td colspan="2">= Total Cover <input type="checkbox"/></td> </tr> <tr> <td>1. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>2. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td colspan="4">% Bare Ground in Herb Stratum _____</td> <td>% Cover of Biotic Crust _____</td> <td>_____</td> </tr> <tr> <td colspan="4">Remarks:</td> <td colspan="2"></td> </tr> </table>												Tree Stratum (Plot size: _____)	Absolute Dominant Indicator % Cover. Species? Shrub...	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____	Prevalence Index worksheet: Total % Cover of: _____	1. _____	_____	1 (A) <input type="checkbox"/>	_____	2. _____	_____	1 (B) <input type="checkbox"/>	_____	3. _____	_____	1 (C) <input type="checkbox"/>	_____	4. _____	_____	1 (D) <input type="checkbox"/>	_____	Shrub/Scrub Stratum (Plot size: _____)		= Total Cover <input checked="" type="checkbox"/>		1. _____	OBL species _____	Column Total: x 1 = _____	Number of Dominant Species That Are OBL, FACW, or FAC: _____	2. _____	FACW species _____	x 2 = _____	_____	3. _____	FAC species _____	x 3 = _____	_____	4. _____	FACU species _____	x 4 = _____	_____	5. _____	VPL species _____	x 5 = _____	_____	Herb Stratum (Plot size: _____)		= Total Cover <input checked="" type="checkbox"/>		1. _____	Seepage _____	Column Total: x 1 = _____	Number of Dominant Species That Are OBL, FACW, or FAC: _____	2. _____	Groundwater _____	x 2 = _____	_____	3. _____	Surface Water _____	x 3 = _____	_____	4. _____	Drift Deposits _____	x 4 = _____	_____	5. _____	Surficial Soils _____	x 5 = _____	_____	6. _____	Inundation Visible on Aerial Imagery (S7) _____	_____	_____	7. _____	Water-Stabilized Lenses (B5) _____	_____	_____	8. _____	Water Table Present? _____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Woody Vines Stratum (Plot size: _____)		= Total Cover <input type="checkbox"/>		1. _____	_____	_____	_____	2. _____	_____	_____	_____	% Bare Ground in Herb Stratum _____				% Cover of Biotic Crust _____	_____	Remarks:					
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Remarks:																																																																																																																			
<p>Prevalence Index = B/A = _____</p> <p>Dominance Test is >80%</p> <p>Prevalence Index is <20%</p> <p>Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p> <p>7. _____</p> <p>8. _____</p> <p>Woodland Hydrophytic Vegetation¹ (Explain)</p> <p>1. _____</p> <p>2. _____</p> <p>Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>																																																																																																																			

80N

Sampling Point:											
<p>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)</p> <p>Depth (inches): 3 Color/Texture: S-15% Redox Features: S-15% Depth (inches): 3 Color/Texture: S-15% Redox Features: S-15% Texture: S-15% Remarks: CCB69 1m</p>											
<p>Slope (%): 10% Depth (inches): 3 Color/Texture: S-15% Redox Features: S-15% Texture: S-15% Remarks: 10% 10% 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%</p>											
<p>Lat: _____ Long: _____</p>											
<p>NW classification: _____</p>											
<p>Are Normal Circumstances¹ present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>											
<p>(If needed, explain any answers in Remarks.)</p>											
<p>Type: Concentration, Dilution, Dilution-Reduced Matrix, CS=Covered or Coated Sand Grains, PL=Pure Unlithified Matrix, PR=Partial Matrix, M=Mixed.</p>											
<p>Hydro Ball Indicators: (Applicable to all LRRs, unless otherwise noted.)</p>											
<p>Hatched (A1) Sandy Redox (S6) 1 cm Muck (A6) (LRR C) 1 cm Muck (A10) (LRR B)</p>											
<p>Hatched (A2) Black Matrix (A5) Loamy Mucky Material (F5) Reduced Vertic (F18)</p>											
<p>Hydrogen Sulfide (M4) Stratified Levers (AS) (LRR C) Dried Mud Matrix (F3) Redox Dark Surface (F5)</p>											
<p>Stratified Levers (AS) (LRR D) 1 cm Muck (A9) (LRR D) Dugested Dark Surface (F11) Redox Depressions (F6) Vermic Pools (F9)</p>											
<p>Dugested Below Dark Surface (F11) Thick Dark Surface (A12) Sandy Mucky Material (S1) Vermic Pools (F9)</p>											
<p>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>											
<p>Indicates for Predominant Hydro Ball²:</p>											
<p>Sand (A1) Silty Sand (S4) Loamy Silty Sand (S4) Loamy Mucky Material (F5) Dried Mud Matrix (F3) Redox Dark Surface (F5)</p>											
<p>Silt (A2) Black Matrix (A5) Loamy Mucky Material (F5) Reduced Vertic (F18) Other (Explain in Remarks)</p>											
<p>Location: PL=Pure Unlithified Matrix, M=Mixed.</p>											
<p>Indicates for Predominant Matrix:</p>											
<p>Beds (A1) Sandy Redox (S6) 1 cm Muck (A6) (LRR C) 1 cm Muck (A10) (LRR B)</p>											
<p>Black Matrix (A5) Loamy Mucky Material (F5) Reduced Vertic (F18)</p>											
<p>Hydrogen Sulfide (M4) Stratified Levers (AS) (LRR C) Dried Mud Matrix (F3) Redox Dark Surface (F5)</p>											
<p>Stratified Levers (AS) (LRR D) 1 cm Muck (A9) (LRR D) Dugested Dark Surface (F11) Redox Depressions (F6) Vermic Pools (F9)</p>											
<p>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>											
<p>Indicates for Predominant Soil:</p>											
<p>Topsoil: _____ Depth (inches): _____ Remarks: _____</p>											
<p>Hydro Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>											
<p>Hydrology</p>											
<p>Wetland Hydrology Indicators:</p>											
<p>Primary Indicators (minimum of one must be checked for this analysis)</p>											
<p>Surface Water (A1) High Water Table (A2) Aquatic Invertebrates (B11) Bed Crust (B12) Water Muck (B13) Biot Crust (B14) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dry Season Water Table (C2) Crayfish Burrows (C3) Saturation Visible on Aerial Imagery (C9) Shallow Aquifer (D3) FAC-Neutral Test (D5)</p>											
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<p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____</p>											
<p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____</p>											
<p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____</p>											
<p>(Includes capillary fringe)</p>											
<p>Describe Recalibrated Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</p>											
<p>Remarks:</p>											

WETLAND DETERMINATION DATA FORM - Arid West Region

Project Site:	Schnell's			City/County:	Kittitas			Sampling Date:	10-4-21																																																																																													
Applicant/Downer:	SAR 520-01			State:	WA			Sampling Point:	DRB 9 + 10																																																																																													
Investigator(s):				Secton, Township, Range:	S 32 T 18 R 17			Depth (inches):	16																																																																																													
Landform (hilltop, terrace, etc.):				Local relief (convex, concave, none):				Soil (inches):	3 / 3																																																																																													
Subsoil (A/R):				Lat:				Color (inches):	Dark Gray																																																																																													
Soil Map Unit Name:				Long:				Texture:	Loam																																																																																													
Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No _____				NH Status/Classification:				Mineral:	Clay																																																																																													
Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed?				Are "Normal Circumstances" present? Yes _____ No _____				Remarks:	No																																																																																													
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SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.																																																																																																						
<p>Hydrophytic Vegetation Present? Yes _____ No _____ Is the Sampled Area within a Wetland? Yes _____ No _____</p> <p>Hydric Soil Present? Yes _____ No _____</p> <p>Wetland Hydrology Present? Yes _____ No _____</p> <p>Remarks: ~ grass root, 1 m vegetated portion</p>																																																																																																						
VEGETATION - Use scientific names of plants. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Tree Stratum (Plot size: _____)</td> <td style="width: 15%;">Dominant Indicator Species? _____</td> <td style="width: 15%;">Dominance Test Worksheet:</td> <td style="width: 15%;">Number of Dominant Species That Are OBL, FACW, or FAC: _____</td> <td style="width: 15%;">Number of Dominant Species That Are OBL, FACW, or FAC: _____</td> </tr> <tr> <td>1. _____</td> <td>_____</td> <td>(A) _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>2. _____</td> <td>_____</td> <td>(B) _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td></td> <td>_____</td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>_____</td> <td></td> <td>_____</td> <td>_____</td> </tr> <tr> <td colspan="5" style="text-align: center;">= Total Cover</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Shrub/Scrub Stratum (Plot size: _____)</td> <td style="width: 15%;">Dominance Test Worksheet:</td> <td style="width: 15%;">Number of Dominant Species That Are OBL, FACW, or FAC: _____</td> <td style="width: 15%;">Number of Dominant Species That Are OBL, FACW, or FAC: _____</td> </tr> <tr> <td>1. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>2. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>5. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>6. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>7. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>8. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td colspan="5" style="text-align: center;">= Total Cover</td> </tr> </table> <p>Prevalence Index Worksheet:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">OBL species</td> <td style="width: 15%;">X = _____</td> <td style="width: 15%;">Number of OBL species</td> <td style="width: 15%;">X = _____</td> </tr> <tr> <td>FACW species</td> <td>X 2 = _____</td> <td>FACW species</td> <td>X 3 = _____</td> </tr> <tr> <td>FAC species</td> <td>X 4 = _____</td> <td>FAC species</td> <td>X 5 = _____</td> </tr> <tr> <td>VPL species</td> <td>X 6 = _____</td> <td>VPL species</td> <td>X 7 = _____</td> </tr> <tr> <td>Column Totals:</td> <td>(A) _____</td> <td>Column Totals:</td> <td>(B) _____</td> </tr> </table> <p>Prevalence Index = $B/A =$ _____</p> <p>Hydrophytic Vegetation Indicators:</p> <ul style="list-style-type: none"> — Dominance Test is >50% — Prevalence Index is >5.0 — Nonhydrogen Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) <p>Indications of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p>Hydrophytic Vegetation Present? Yes _____ No _____</p> <p>Remarks:</p>												Tree Stratum (Plot size: _____)	Dominant Indicator Species? _____	Dominance Test Worksheet:	Number of Dominant Species That Are OBL, FACW, or FAC: _____	Number of Dominant Species That Are OBL, FACW, or FAC: _____	1. _____	_____	(A) _____	_____	_____	2. _____	_____	(B) _____	_____	_____	3. _____	_____		_____	_____	4. _____	_____		_____	_____	= Total Cover					Shrub/Scrub Stratum (Plot size: _____)	Dominance Test Worksheet:	Number of Dominant Species That Are OBL, FACW, or FAC: _____	Number of Dominant Species That Are OBL, FACW, or FAC: _____	1. _____	_____	_____	_____	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____	6. _____	_____	_____	_____	7. _____	_____	_____	_____	8. _____	_____	_____	_____	= Total Cover					OBL species	X = _____	Number of OBL species	X = _____	FACW species	X 2 = _____	FACW species	X 3 = _____	FAC species	X 4 = _____	FAC species	X 5 = _____	VPL species	X 6 = _____	VPL species	X 7 = _____	Column Totals:	(A) _____	Column Totals:	(B) _____
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OBL species	X = _____	Number of OBL species	X = _____																																																																																																			
FACW species	X 2 = _____	FACW species	X 3 = _____																																																																																																			
FAC species	X 4 = _____	FAC species	X 5 = _____																																																																																																			
VPL species	X 6 = _____	VPL species	X 7 = _____																																																																																																			
Column Totals:	(A) _____	Column Totals:	(B) _____																																																																																																			

SOIL																																															
<p>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</p> <p>Depth (inches):</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">0-12</td> <td style="width: 15%;">12-24</td> <td style="width: 15%;">24-36</td> <td style="width: 15%;">36-48</td> <td style="width: 15%;">48-60</td> <td style="width: 15%;">60-72</td> <td style="width: 15%;">72-84</td> <td style="width: 15%;">84-96</td> <td style="width: 15%;">96-108</td> <td style="width: 15%;">108-120</td> <td style="width: 15%;">120-132</td> <td style="width: 15%;">132-144</td> </tr> <tr> <td>Matric</td> <td>Color (inches):</td> <td>Texture:</td> <td>Mineral:</td> <td>Color (inches):</td> <td>Texture:</td> <td>Mineral:</td> <td>Color (inches):</td> <td>Texture:</td> <td>Mineral:</td> <td>Color (inches):</td> <td>Texture:</td> </tr> <tr> <td>Water Content (%)</td> <td>Depth (inches):</td> </tr> </table>												0-12	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	Matric	Color (inches):	Texture:	Mineral:	Color (inches):	Texture:	Mineral:	Color (inches):	Texture:	Mineral:	Color (inches):	Texture:	Water Content (%)	Depth (inches):										
0-12	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144																																				
Matric	Color (inches):	Texture:	Mineral:	Color (inches):	Texture:	Mineral:	Color (inches):	Texture:	Mineral:	Color (inches):	Texture:																																				
Water Content (%)	Depth (inches):																																														
<p>Indicator Feature:</p> <p>Type: CrConcentration, CrDistillation, Rb=Reduced Matrix, Cs=Covered or Coated Sand Grains, P=Permeable Hydric Soil², location: P=Permeable Hydric Soil².</p> <p>Indicators for Problematic Hydric Soils:</p> <ul style="list-style-type: none"> — 1 cm Muck (A/B) (LRR C) — 2 cm Muck (A-10) (LRR B) — Freshened Vertic (F-16) — Red Peat Material (T-2) — Other (Explain in Remarks) 																																															
<p>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)</p> <ul style="list-style-type: none"> — Histosol (A-1) — Histic Epiaisol (A-2) — Black Histosol (A-3) — Hydric Surface (A-4) — Stratified Layer (A-5) (LRR C) — 1 cm Muck (A-6) (LRR D) — Deepened Dark Surface (A-11) — Radioc. Degradation (F-8) — Vermic Peds (F-9) 																																															
<p>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>																																															
<p>Type: _____</p> <p>Depth (inches): _____</p> <p>Rainfall Layer (if present): _____</p> <p>Depth (inches): _____</p> <p>Remarks: _____</p>																																															
HYDROLOGY																																															
<p>Wetland Hydrology Indicators:</p> <p>Estuarine Indicators (2 subgroups required):</p> <ul style="list-style-type: none"> — Salt Crust (B1) — Blotchy Crust (B12) — Sediment Deposits (B2) (Riverside) — Drift Patterns (B3) — Dry-Season Water Table (C2) — Crevfish Burrows (C8) — Saturation Visible on Aerial Imagery (C8) — Shallow Aquifer (D3) — Water-Stained Lawns (E5) — Other (Explain in Remarks) <p>Surface Water Present? Yes _____ No _____</p> <p>Water Table Present? Yes _____ No _____</p> <p>Saturation Present? Yes _____ No _____</p> <p>Remarks: _____</p>																																															

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Schultz City/County: Kittitas Sampling Date: 10-4-21

Aplicant/Owner: _____ State: WA Sampling Point: DP #712

Investigator(s): Ed Schmidt Section, Township, Range: 5 32 7 E 2 N

Landform (Hillslope, terrace, etc.): Local relief (convex, concave, none): Slope (%): _____

Subregion (LSRR): Lat: _____ Long: _____ NW classification: _____

Are climate / 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? Yes No (If needed, explain any answers in Remarks) _____

Are Vegetation, Soil, or Hydrology naturally problematic? _____

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

Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No
 Hydric Soil Present? Yes No No _____
 Wetland Hydrology Present? Yes No No _____
 Remarks: ~ grassed, no ponded surface

VEGETATION - Use scientific names of plants.

Tire Stratum	Plot size: _____	Ambient Dominant Indicator Species Status	Dominance Test Worksheet:
1.		% Cover: _____	Number of Dominant Species That Are CBL, FACW, or FAC: <u>2</u> (A)
2.		% Cover: _____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3.		% Cover: _____	Percent of Dominant Species That Are CBL, FACW, or FAC: <u>100%</u> (A/B)
4.		% Cover: _____	Predominance Index worksheet:
Standing/Strub Stratum	(Plot size: _____)		
1.		CBL species	Total % Cover: of _____
2.		FACW species	x 1 = _____
3.		FAC species	x 2 = _____
4.		UPL species	x 3 = _____
5.		Column Total:	x 4 = _____
6.		= Total Cover	x 5 = _____
7.			(A) _____ (B) _____

Herb Stratum (Plot size: 40 ft x 50 ft) Etc.
 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____
 Woody Herb Stratum (Plot size: _____)
 1. _____ 2. _____

Predominance Index = B/A = _____
 Hydrophytic Vegetation Indicators:
 1. Dominance Test is >60%
 2. Prevailing Index is >50%
 3. Morphological Adaptations^a (Provides 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.

Hydrophytic Vegetation Present? Yes No _____

Remarks: _____

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	Sampling Point: _____
Matric Depth (inches): <u>10</u>	Color (inches): <u>Dark Brown</u>
Depth (inches): <u>10</u>	Texture: <u>Clay loam</u>
Depth (inches): <u>10</u>	Indicators: <u>None</u>
Bedrock Features: _____	
Location: Pt-Pore Linings, M-Matrix, P-Primary Soil Matrix, C-Covered Matrix, R-Radical Matrix, G-Greenish Matrix, B-Brownish Matrix, S-Sand Grains, T-Terrace, L-Lake, I-Indicates for Problematic Hydrophytic Soils ^b :	
1 cm Muck (A8) (LRR C)	
2 cm Muck (A10) (LRR B)	
Radiculized Vertic (F18)	
Red Parent Material (TP2)	
Other (Explain in Remarks)	
Type: C=Concretion, D=Dissolution, R=Radical Matrix, S=Covered or Coated Sand Grains, P=Pore Linings, M=Matrix, H=Hydric Soil Indicators: (Applicable to all LSRR, unless otherwise noted)	
Habitat (A1)	
Hydric Epiphany (A2)	
Black Basic (A3)	
Hydrogen Sulphide (A4)	
Stratified Leaves (A5) (LRR C)	
1 cm Muck (A9) (LRR D)	
Dissolved Dark Surface (F11)	
Thick Dark Surfaces (A12)	
Sandy Glaciol Melt (S1)	
Sandy Gravel Melt (S4)	
Resistive Layer (if present): _____	
Type: _____	Depth (inches): _____
Remarks: _____	

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	Sampling Point: _____
Matric Depth (inches): <u>10</u>	Color (inches): <u>Dark Brown</u>
Depth (inches): <u>10</u>	Texture: <u>Clay loam</u>
Depth (inches): <u>10</u>	Indicators: <u>None</u>
Bedrock Features: _____	
Location: Pt-Pore Linings, M-Matrix, P-Pore Linings, G-Greenish Matrix, B-Brownish Matrix, S-Sand Grains, T-Terrace, L-Lake, I-Indicates for Problematic Hydrophytic Soils ^b :	
1 cm Crust (B13) (Rverve)	
2 cm Crust (B12) (Rverve)	
Sediment Deposits (B2) (Rverve)	
Drift Deposits (B3) (Rverve)	
Dry-Season Water Table (C3)	
Crystalline Boulders (C8)	
Saturation Voids on Tilled Soils (C5)	
Shallow Aggolith (D5)	
FAC-Natural Tect (D5)	
Other (Explain in Remarks)	
Field Observations:	
Surface Water Present? Yes <u>No</u> Depth (inches): _____	
Water Table Present? Yes <u>No</u> Depth (inches): _____	
Saturation Present? Yes <u>No</u> Depth (inches): _____	
Includes capillary fringe: _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photo, previous inspection), if available:	
Remarks: _____	

WETLAND DETERMINATION DATA FORM - Arid West Region

Schmidt Project/Site: **Kitties** City/County: **State:** **WA** Sampling Date: **10-4-21**

Applicant/Owner:

Investigator(s):

Landform (ridges, terraces, etc.):

Soil Map Unit Name:

Are climatic / hydrologic conditions on the site typical for the time of year? Yes No (If no, explain in Remarks.)

Are Vegetation, Soil, or Hydrology significantly disturbed?

Are Vegetation, Soil, or Hydrology naturally problematic?

Remarks: ~ grassed, irrigated pasture

VEGETATION – Use scientific names of plants.

Tire Stratum:	(Plot size: _____)	Absolute Dominant Indicator % Cover: Specie(s) _____	Dominance Test (within plot): Number of Dominant Species That Are OBL, FACW, or FAC: _____
1.			2 (A)
2.			2 (B)
3.			
4.			
Shrub/Shrub Shrub Stratum (Plot size: _____)		% Total Cover: _____	
1.		Total % Cover: _____	Multiflora Rose: _____
2.		OBL species: _____	x 1 = _____
3.		FACW species: _____	x 2 = _____
4.		FAC species: _____	x 3 = _____
5.		UBI species: _____	x 4 = _____
Herb Stratum (Plot size: _____)		Column Totals: _____	(B)
1.		= Total Cover	FAC
2.		FAC	FACW
3.			
4.			
5.			
6.			
7.			
8.			
Weedy Vines Stratum (Plot size: _____)		% Total Cover: _____	
1.			
2.			
% Bare Ground In Herb Stratum: _____		% Cover of Biotic Crust: _____	
Remarks:			

HYDROLOGY

Wetland Hydrology Indication:	Bottom Indication (minimum of one required; check all that apply)	Hydrologic Vegetation Indicators (2 or more required)
		Sal Grot (B11)
		Biotic Crust (B12)
		Aquatic Invader (B13)
		High Water Table (A1)
		Water Table (A2)
		Saturation (A3)
		Water Mkt (B1) (Noninvasive)
		Water Mkt (B1) (Invasive)
		Hydrogen Sulfide Odor (C1)
		Oxidized Rhizosphere Signs Living Roots (C3)
		Sediment Deposits (B2) (Noninvasive)
		Sediment Deposits (B3) (Invasive)
		Drift Deposits (C2)
		Drift Deposits (C3)
		Buried Soil Cracks (B8)
		Presence of Reduced Iron (C4)
		Reduced Iron Reduction in Tilled Soils (C8)
		Crayfish Burrows (C9)
		Inundation Visible on Aerial Imagery (C8)
		Shallow Aquifer (D1)
		Thin Muck Surfaces (C7)
		Other (Explain in Remarks)
		FAC-Natural Test (D5)
Field Observations:		
Surface Water Present?	Yes _____	No _____
Water Table Present?	Yes _____	No _____
Saturation Present?	Yes _____	No _____
(Indicates continuity index)	Depth (Inches): _____	Depth (Inches): _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Schmitz	City/Country:	Kittitas	Sampling Date:	10-4-21
Applicant/Owner:	EW Semco	State:	WA	Sampling Point:	DP#14 T DP#15 DP#17
Investigator(s):		Section, Township, Range:	5 32 7 18 R 17	Local relief (convex, concave, none):	Slope (%): _____
Landform (hillslope, terrace, etc.):		Lat:		Long:	Latitudinal Deviation: _____
Subregion (LRRP):		Ball Map Unit Name:		Ball Map Unit Name:	NWI designation: _____
Are climatic/hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks.) Are "normal" circumstances present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
(If needed, explain any answers in Remarks.)					

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

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Remarks: ~ grassed, no vegetated ground surface					
VEGETATION – Use scientific names of plants.					
Turf Shrub	(Plot size: _____)	Absolute Dominant Indicator Species? % Cover:	_____	Dominance Test (check all that apply):	
1.		Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)	Total Number of Dominant Species Across All Shrub:	1 (B)
2.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100% (AB)
3.				Prevalence Index (check all that apply):	
4.		OBL species	x 1 =	Total S. Cover of: _____	Multiflora 90%
		FACW species	x 2 =		
		FAC species	x 3 =		
		UPL species	x 5 =		
		Column Totals: _____	(A) _____		(B) _____
Herb Shrub	(Plot size: _____)	Total Cover:	100% <input checked="" type="checkbox"/>	Prevalence Index = BIA =	
1.				Hydrophytic Vegetation Indication:	
2.				Enhancement Test > 50%	
3.				Prevalence Index is < 30%	
4.				Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)	
5.				Phreatophytic Hydrophytic Vegetation? (Explain)	
6.				'Indications of hydric soil and wetland hydrology must be present, unless disturbed or problematic.'	
7.				Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
8.				Remarks:	
Wood/Vine Shrub	(Plot size: _____)	Total Cover:	100% <input checked="" type="checkbox"/>		
1.		% Cover of Herb Shrub:	_____	Field Observations:	
2.				Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections): If available:	
% Bare Ground in Herb Shrub:	_____	% Cover of Eelic Crust:	_____	Remarks:	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)					
Depth (inches):	10	Color (depth):	100%	Roots: Exposure:	100% / 226ft
Matrix:	100% 3/1/3	%:	100%	Remarks:	
Soil (depth):	10-12				
*Type: C=Concretionism, D=Desiccation, Rm=Reduced Matrix, CB=Covered or Coated Band Grates, G=creation: P=Pore Linings, M=Metic.					
Hydric Soil Indicators: (Applicable to all LRRPs, unless otherwise noted.)					
Hinduji (A1)	Sandy Redox (S5)	Indicators for Problematic Hydric Soils:			
Hydric Epandem (A2)	Stripped Matrix (S6)	1 cm Muck (A10) (LRR C)			
Black Hemic (A3)	Lumpy Mucky Mineral (F1)	2 cm Muck (A10) (LRR B)			
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Reduced Vertic (F3)			
Stratified Levee (A5) (LRR C)	Desulfated Matrix (F3)	Red Parent Material (T2)			
1 cm Muck (A5) (LRR D)	Reduced Dark Surface (F6)	Other (Explain in Remarks)			
Depressed Below Dark Surface (A11)	Desulfated Dark Surface (F7)				
Thick Dark Surface (A12)	Radix Depressions (F8)				
Sandy/Muddy Matrix (S1)	Vernal Pools (F9)				
Sandy Gleyed Matrix (S4)					
Indications of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.					
Reflective Layer (If present):	Type: _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Remarks:		
Depth (Inches):					

HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (Indicators of area inundated, check all that apply):					
Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required)			
High Water Table (A2)	Biotic Crust (B12)	Water Marks (B13) (Riverine)			
Saturation (A3)	Aquatic Invertbrates (B13)	Bediment Deposits (B14) (Riverine)			
Drift Deposits (B2) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drift Deposits (B14) (Riverine)			
Surficial Rootlets along Living Roots (C1)	Crystallized Rootlets along Living Roots (C1)	Dry-Suction Waste Table (C2)			
Presence of Reduced Iron (C4)	Surface Soil Cracks (B6)	Crayfish Burrows (C8)			
Recent Iron Reduction in Tilled Soils (C5)	Inundation Visible on Aerial Imagery (C7)	Saturation Visible on Aerial Imagery (C8)			
Thin Black Surface (C7)	Water-Stained Leaves (B5)	Shallow Aquifer (D3)			
Water-Stained Leaves (B5)	Other (Explain in Remarks)	FAC-Naute Test (D5)			
Field Observations:					
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches): _____	Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Remarks:
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Remarks:					

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Schultz	City/County:	Kittitas	Sampling Date:	10-4-21/6	Sampling Point:	WMA	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)
Applier/Owner:	EW Standard	State:	WA	Depth (inches):	16	Texture:	Loamy	Indicators:
Investigator(s):		Section, Township, Range:	5 32 7 18 R 17	Color (inches):	Dark Gray	Soil Type:	Loamy	Remarks:
Landform (Hillslope, terrace, etc.):		Local relief (convex, concave, none):	Slope (%): 17	Metric:	%	Indicators:	Cohesive	Latitude:
Subregion (LRS#):		Lat:		Color (inches):	16	Indicators:	Loamy	Longitude:
Soil Map Unit Name:		Long:		Texture:	Loamy	Indicators:	Loamy	Datum:
Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No _____		NM classification:		Indicators:		Location:	P1=Fora Units, M1=Mats.	
Are Vegetation _____ Soil _____ or Hydrology _____ significantly distributed?		Are "Normal Characteristics" present? Yes _____ No _____		Hydrolic Soil Indicators: (Applicable to all LBRs, unless otherwise noted.)		Indicators for Problematic Hydrolic Soils:		
Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic?		(If needed, explain any answers in Remarks.)		Haben (A1)	Sandy Redox (S5)	Type: G=Concentration, D=Deposition, Rb=Reduced Matrix, Cs=Covered or Coated Stand Grains.		
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present?	Yes _____ No _____	Is the Sampled Area within a Wetland?	Yes _____ No _____	Black Haben (A2)	Stripped Matrix (S6)	Location: P1=Fora Units, M1=Mats.		
Hydric Soil Present?	Yes _____ No _____			Black Haben (A3)	Lumpy Muddy Matrix (F1)			
Wetland Hydrology Present?	Yes _____ No _____			Hydric Surface (A4)	Lumpy Gleyed Matrix (F2)			
Remarks:	→ grassed, no vegetated pasture			Stripped Lyan (A5)	Depleted Matrix (F3)			
Shrub/Small Shrub/Scrubum (Plot size: _____)		Percent of Dominant Species That Are OBL, FACW, or FAC:	100% (NB)	Reduced Dark Surface (F6)	Reduced Dark Surface (F7)			
Tree/Shrub (Plot size: _____)		Prevalence Index: worksheet:		Vertic Pools (F8)	Vertic Pools (F9)			
Total % Cover of: _____		Total % Cover of: _____		Hydrolic Soil Present? Yes _____ No _____	Indication of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
OBL species	x 1 =	OBL species	x 1 =	Remarks:				
FACW species	x 2 =	FACW species	x 2 =	Type:				
FAC species	x 3 =	FAC species	x 3 =	Depth (inches):				
Column Totals:	(A) _____	Column Totals:	(B) _____	Remarks:				
Total Cover	FAU	Total Cover	FAU	Hydrology:				
Heb Shrub (Plot size: _____)	30	Heb Shrub (Plot size: _____)	30	Hydrophytic Vegetation Indicators:				
Woody Vine Shrub (Plot size: _____)	20	Woody Vine Shrub (Plot size: _____)	20	Dominance Test is >80%:				
Total Cover	50	Total Cover	50	Prevailing Index is >3.0:				
VEGETATION - Use scientific names of plants.								
Tree Strata (Plot size: _____)		Abundance:	Dominant Indicator Species? % Cover:	Secondary Indicators (2 or more required):				
1. _____		Number of Dominant Species That Are OBL, FACW, or FAC:	(A) _____	Water Marks (S1) (Riverine)				
2. _____		Total Number of Dominant Species Across All Strata:	(B) _____	Sediment Deposits (S2) (Riverine)				
3. _____		Percent of Dominant Species That Are OBL, FACW, or FAC:	(C) _____	Drift Deposits (S3) (Riverine)				
4. _____		Prevalence Index: worksheet:	(D) _____	Drift Patterns (S4) (Riverine)				
HYDROLOGY								
Wetland Hydrology Indicators:								
Estuary/Indication of Instrumental or visualized: check all that apply.								
1. Surface Water (A1)	Salt Crust (B1)	Water Marks (S1) (Riverine)						
2. High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (S2) (Riverine)						
3. Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (S3) (Riverine)						
4. Sediment Deposits (B2) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drift Patterns (S4) (Riverine)						
5. Drift Deposits (B3) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C2)	Dry-Season Water Table (C2)						
6. Surface Soil Cracks (B6)	Presence of Reduced Iron (C4)	Crayfish Burrows (C5)						
7. Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C6)						
8. Water-Borne Leaves (B8)	Thin Muck Surface (C7)	Shallow Aquifield (D3)						
Fluid Observations:								
Surface Water Present?	Yes _____ No _____	Depth (inches):		FAC/Natural Test (S5)				
Water Table Present?	Yes _____ No _____	Depth (inches):		Wetland Hydrology Present? Yes _____ No _____				
Saturation Present?	Yes _____ No _____	Depth (inches):		Remarks:				
Description Recorded Date (stream gauge, monitoring well, aerial photo, previous inspection). If available:								
Remarks:								

WETLAND DETERMINATION DATA FORM - Arid West Region

10-7-21

K. H. Hins

Sampling Date: 10-7-21

Project/Site:

City/Country:

Sampling Point:

State:

Slope (%):

Local relief (concave, convex, none):

Soil Map Unit Name:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No

(If no, explain in Remarks.)

Are Vegetation, Soil, or Hydrology significantly disturbed?

Are Normal Circumstances present? Yes No

(If no, explain in Remarks.)

Are Vegetation, Soil, or Hydrology naturally problematic?

(If yes, explain any answers in Remarks.)

SOIL

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

Depth (inches)	Matrix	Root Features (%)	Type (%)	Loc (%)	Indicators (%)	Remarks
0-12	3/5	Crust (most)	%			

Substratum (LRR):	Lat:	Long:	Datum:
S 32° T 15N R 21E			

Soil Map Unit Name:	Are Vegetation, Soil, or Hydrology significantly disturbed?	Are Normal Circumstances present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		(If no, explain in Remarks.)

Are Vegetation, Soil, or Hydrology naturally problematic?	Remarks:
	(If yes, explain any answers in Remarks.)

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

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

Total % Cover of:	Mulberry (A)
OB1 Stratum (Plot size: _____)	Absolute Dominant Indicator Status? Status? _____
1. _____	% Cover: _____
2. _____	
3. _____	
4. _____	
Soil/Grub Stratum (Plot size: _____)	Total Cover = Total Cover _____
1. _____	Total % Cover of: _____
2. _____	
3. _____	
4. _____	
5. _____	
6. _____	
7. _____	
8. _____	
Wood-Vine Stratum (Plot size: _____)	Total Cover _____
1. _____	Total % Cover of: _____
2. _____	

VEGETATION – Use scientific names of plants.

Dominance Test worksheet: Number of Dominant Species That Are OB1, FACW, or FAC:	
(A)	/
(B)	/

Prevalence Index worksheet: Percent of Dominant Species That Are OB1, FACW, or FAC:	
OB1 species	Total % Cover of: _____
FACW species	x 1 = _____
FAC species	x 2 = _____
FAC1 species	x 3 = _____
FPL species	x 4 = _____
Total Cover	x 5 = _____
Column Totals: _____	(A) _____

HYDROLOGY

Wetland Hydrology indicators:

External Indicators (minimum of one required; check all that apply)

Surficial Water (A1)	Salt Crust (B11)	Water Marks (B1)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (B12/white)
Saturation (A3)	Aquatic Invertbrates (B13)	Drift Deposits (B3) (B12/white)
Water Marks (B1) (Nonwhite)	Oxidized Rhizosphere along Living Roots (C1)	Drawing Patterns (B10)
Sediment Deposits (B2) (Nonwhite)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonwhite)	Recent Iron Reduction in Tilled Soils (C5)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Thin Mud Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B8)	Shallow Aquicard (D3)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present? Yes No

(Includes capillary fringe)

Describe Research Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

SOIL

Soil Profile Description:

% Bare Ground in Herb Stratum _____

% Cover of Biotic Crust _____

Remarks:

WETLAND DETERMINATION DATA FORM - Ard West Region

Project/Site:	Schmidt			Sampling Date:	10-7-21																																																																														
City/Country:				State:	WA	Sampling Point:	DP #20																																																																												
Aplicant/Owner:	Ed Schmidt			Section, Township, Range:	S 32 T 15N R 15 E																																																																														
Investigator(s):				Local relief (convex, concave, none):																																																																															
Landform (Hillslope, terrace, etc.):				Lat:	Shape (%):																																																																														
Subregion (LRR):				Long:	Datum:																																																																														
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WETLAND DETERMINATION DATA FORM - Arid West Region

12' from irr ditch

Project/Site:	Schmidt		City/County:	Kittitas		Sampling Date:	10-7-21																																																																																																																																																																								
Applicant/Owner:			State:	WA	Sampling Point:	D0#	Point #:	28																																																																																																																																																																							
Investigator(s):	JEB Schmidt		Section, Township, Range:	S 32 T 15N R 15E																																																																																																																																																																											
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<p>HYDROLOGIC ADAPTATIONS (Provide supporting data in Remarks or on a separate sheet)</p> <p>Prevalence Index = BIA = _____</p> <p>Dominance Test is >50%</p> <p>Prevalence Index is <30%</p> <p>Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</p> <p>Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>Indications of hydro soil and wetland hydrology must be present, unless disturbed or eliminated.</p>																																																																																																																																																																															
<p>WETLAND HYDROLOGY INDICATORS</p> <p>Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Remarks: <i>Sanfumha at -18'</i></p>																																																																																																																																																																															

WETLAND DETERMINATION DATA FORM - And West Region

Project/Site: Schmidt City/Country: Kitchener Sampling Date: 10-7-21

Aplicant/Owner: ZU Schmidt State: WA Sampling Point: DDE 29

Investigator(s): None Section, Township, Range: S 32 T 18N R 14E

Landform (hilltop, terrace, etc.): Local relief (convex, concave, none); Slope (%): 0

Subregion (LRR): Lat: Long: Date:

Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for the time of year? Yes No If no, explain in Remarks.)

Are Vegetation Soil or Hydrology soil significantly disturbed?

Are Vegetation Soil or Hydrology soil naturally problematic?

SCNL

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

Depth (Inches)	Melted	Color (Inches)	%	Texture
/ 60	/ 27	/ 3 / 3	/	Loamy Remata
				Turbid C. 60% / 10%
				C. 60% / 10%

Type: Cr-Congression, Dr-Congression, RH=Reduced Matrix, CS=Covered or Coated Sand Grains, L=Location: PL=From Links, NM=Matrix.

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

Habitat (A1) Sandy Redox (SR)

Habitat (A2) Striped Matrix (SM)

Black Hard (AH) Loamy Nutty Mineral (F1)

Pyrogen Surface (AM) Loamy Gleyed Matrix (F2)

Stratified Layer (AS) (LRR C) Diplained Matrix (F3)

1 cm Muck (A) (LRR D) Redox Dark Surface (F4)

Draped Below Dark Surface (A11) Draped Dark Surface (F7)

Thick Dark Surface (A12) Radic Distress (F8)

Sandy Nutty Mineral (S1) Vermal Pools (F9)

Sandy Gleyed Matrix (S1)

Rainfiltrate Layer (R) Present:

Type: Depth (Inches):

Remainder:

HYDROLOGY

Wetland Hydrology Indicators:

External Indicators (minimum of one required; check all that apply):

Surface Water (A1) Salt Crete (B11)

High Water Table (A2) Blodic Crete (B12)

Saturation (A3) Aquatic Invertebrates (B13)

Water Mats (B1) (Nonwoven) Hydrogen Sulfide Odor (C1)

Bedding Deposits (B2) (Nonwoven) Oxidized Rhizosphere along Living Roots (C2)

Drift Deposits (B3) (Nonwoven) Presence of Reduced Iron (C4)

Surface Soil Crevice (B6) Recent Iron Reduction in Tilled Soils (C5)

Inundation Voids on Aerial Imagery (B7) Thin Muck Surface (C7)

Water-Strained Leaves (B9) Other (Explain in Remarks)

FAC=Neutral Test (DS)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (Inches): _____

Water Table Present? Yes _____ No _____ Depth (Inches): _____

Saturation Present? (Includes gallery lines) Yes _____ No _____ Depth (Inches): _____

Detected Recorded Data (stream gauge, monitoring well, will phone, previous inspection); if available:

Remarks:

US Army Corps of Engineers

And West - Version 2.0

And West - Version 2.0

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

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

VEGETATION – Use scientific names of plants.

Turf Stratum (Plot size: _____) Abundant Dominant Indicator Status: _____

Number of Dominant Species That Are CSB, FACW, or FAC: 1 (A) (A)

Total Number of Dominant Species Active All Strata: 1 (B) (B)

Percent of Dominant Species That Are CSB, FACW, or FAC: 100% (A/B)

Prevalence Index/Worksheet Total % Cover of: Naturally bc:

CSB species x 1 = x 1 =

FACW species x 2 = x 2 =

FAC species x 3 = x 3 =

FACU species x 4 = x 4 =

Calcareous Totals: x 5 = x 5 = (B)

Total Cover 100 (A) (A)

2. Shrub Stratum (Plot size: _____) 100 (A) (A)

3. Herb Stratum (Plot size: _____) 100 (A) (A)

4. Woody Vine Stratum (Plot size: _____) 100 (A) (A)

5. Ground Cover (Plot size: _____) 100 (A) (A)

6. Surface Crevices (Plot size: _____) 100 (A) (A)

7. Surface Mats (Plot size: _____) 100 (A) (A)

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WETLAND DETERMINATION DATA FORM - Acid West Region

Project/Site:	Schmidt			City/County:	Kittitas			Sampling Date:	10-7-21																																																								
Aplicant/Owner:	Ed Schmidt			State:	WA			Sampling Point:	DP# 30																																																								
Investigator(s):				Section, Township, Range:	S 32 T 15N R 15 E																																																												
Landform (Hillocks, terrace, etc.):				Local relief (convex, concave, none):				Slope (%):																																																									
Subregion (LFR):				Lat:				Long:																																																									
Soil Map Unit Name:				Datum:																																																													
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																																																																	
<p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Remarks: <i>green soil in moist pond</i></p>																																																																	
<p>VEGETATION – Use scientific names of plants.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 15%;">Tree Stratum (Plot size: _____)</td> <td style="width: 15%;">Absolute Dominant Indicator % Cover. Species? Shrub</td> <td style="width: 15%;">Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or PAC:</td> <td style="width: 15%;">Number of Dominant Species That Are OBL, FACW, or PAC:</td> <td style="width: 15%;">Depth (inches): _____</td> <td style="width: 15%;">Remarks: _____</td> </tr> <tr> <td>1. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>2. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>5. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </table>												Tree Stratum (Plot size: _____)	Absolute Dominant Indicator % Cover. Species? Shrub	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or PAC:	Number of Dominant Species That Are OBL, FACW, or PAC:	Depth (inches): _____	Remarks: _____	1. _____	_____	_____	_____	_____	_____	2. _____	_____	_____	_____	_____	_____	3. _____	_____	_____	_____	_____	_____	4. _____	_____	_____	_____	_____	_____	5. _____	_____	_____	_____	_____	_____																		
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<p>Described Recorded Data (screen capture, monitoring well, aerial photo, previous inspection), if available:</p>																																																																	
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WETLAND DETERMINATION DATA FORM - Arid West Region

Project Site: Schmidt City/County: Kittitas Sampling Date: 10-7-21

Applicant/Owner: ZED Schmidt Status: 100% Sampling Point: DO 3/31

Investigator(s): Station, Township, Range: 532 T 15N R 5 E

Landform (Inskip, terrace, etc.): Local relief (convex, concave, none): Slope (%):

Subregion (LRR): Left: Long:

Soil Map Unit Name: Datum:

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 ✓ No (If needed, explain any answers in Remarks.)

Air Vegetation Soil or Hydrology significantly disturbed?

Air Vegetation Soil or Hydrology naturally problematic?

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

Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No No

Hydro Soil Present? Yes No No

Wetland Hydrology Present? Yes No No

Remarks: dry road in road shoulder

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 10'</u>)	Dominant Indicator Species	Dominance Test worksheet
1. <u>10' x 10'</u>	<u>Z</u> (A)	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u>
2. <u></u>	<u>Z</u> (B)	Total Number of Dominant Species Across All Strata: <u>2</u>
3. <u></u>	<u></u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u>
4. <u></u>	<u></u>	Prevalence Index worksheet:
Sampling Strata Stratum (Plot size: <u>10' x 10'</u>)	Total % Cover of:	Multistorey
1. <u></u>	OBL species	x 1 =
2. <u></u>	FACW species	x 2 =
3. <u></u>	FAC species	x 3 =
4. <u></u>	UPL species	x 4 =
5. <u></u>	Column Total:	(A) <u>2</u> (B) <u>2</u>

Prevalence Index = B/A = 1.0

Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index is >50%
- Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation? (Explain)

¹Indication of hydro soil and wetland hydrology must be present, unless disturbed or problematic.

Water Stratum (Plot size: 10' x 10')

= Total Cover 0.0

% Bare Ground in Herb Stratum 0.0 % Cover of Biotic Crust 0.0

Remaining:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (B1) (flowing)
- High Water Table (A2)
- Seepage (A3)
- Water Marsh (B1) (Nonmarine)
- Drift Deposits (B2) (Nonmarine)
- Shallow Aquifluum (C1)
- Oxidized Rhizosphere along Living Roots (B1)
- Presence of Reduced Iron (C4)
- Redox Ion Reduction in Tilled Soils (C6)
- Thin Muck Surface (E7)
- Winter-Sheathed Leaves (B9)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Biotic Crust (B1)
- Aquatic Macrophytes (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizosphere along Living Roots (C3)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquifluum (C3)
- FAC-Neutral Test (D9)

FIELD OBSERVATIONS:

Surface Water Present? Yes No Depth (inches):

Water Table Present? Yes No Depth (inches):

Saturation Present? Yes No Depth (inches):

(Includes similarly flushed)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

SCHL

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

Depth: <u>16</u> inches	Depth: <u>0</u> inches	% Color Imprint: <u>0</u>	Location: <u>Soil surface</u>
Depth: <u>31/2</u> inches	Depth: <u>0</u> inches	% Color Imprint: <u>0</u>	Location: <u>Soil surface</u>
Hydro Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)			
Type: <u>C</u> Concentration, <u>R</u> Dispersion, <u>Rm</u> Reduced Matrix, <u>Cs</u> Covered or Coated Sand Grains, <u>L</u> Location: PL=Porous Lining, MM=Mixing.			
Hydro Soil Indicators:			
Hillock (A1) — Sandy Radix (S8)			
Hillock Expansion (A2) — Stripped Matrix (S6)			
Black Hail (A3) — Leamy Muddy Mineral (F1)			
Hydrogen Sulfide (A4) — Leamy Gleyed Matrix (F2)			
Stratified Layer (A5) (LRR C) — Deepened Matrix (F3)			
1 cm Muck (A6) (LRR D) — Redox Dark Surface (F6)			
Depleted Dark Surface (A11) — Redox Depressions (F7)			
Thick Dark Surface (A12) — Vernal Pools (F8)			
Sandy Mucky Mineral (S1) —			
Sandy Gleyed Matrix (S4) —			
Fluvic Layer (if present):			
Type: Depth (inches):	Hydro Soil Present? Yes <u>No</u>		
Remarks:			

Wet A

WETLAND DETERMINATION DATA FORM - Arid West Region

SCHL: Schmidt **City/County:** Kittitas **Sampling Date:** 10-7-21

Project Site: WA **State:** WA **Sampling Point:** 532 T 15N R 15E

Applicant/Owner: Ed Schmidt **Section, Township, Range:** 532 T 15N R 15E

Investigator(s): _____

Landform (hillsides, terraces, etc.): Soil relief (contours, crevices, none): Slope (%): _____

Subregion (LSP): _____ **Lat:** _____ **Long:** _____ **Depth:** _____

Soil Map Unit Name: _____ **NWY classification:** _____

Are diatom / hydrophytic conditions on the site typical for this time of year? Yes ✓ No (If no, explain in Remarks.)

Are Natural Characteristics present? Yes No (If needed, explain any answers in Remarks.)

Are Vegetation Soil or Hydrology significantly disturbed?

Are Vegetation Soil or Hydrology naturally problematic?

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

Hydrophytic Vegetation Present? Yes ✓ No Is the Sampled Area within a Wetland? Yes No

Hydrophytic Soil Present? Yes No

Wetland Hydrology Present? Yes

Remarks: green grass / irregular pasture

VEGETATION - Use scientific names of plants.

Tree Shrub (Plot size: _____)	Absolute Dominant Indicator	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
1. _____	% Count: Specie#	Total Number of Dominant Species Across All Shrub:	<u>2</u> (B)
2. _____			
3. _____			
4. _____			
Shrub/Shrub Shrub (Plot size: _____)	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>✓</u> (AB)	
1. _____	Predominance Index (within plot):	Total % Count of: Multiflora NB	
2. _____	OBL species	x 1 =	
3. _____	FACW species	x 2 =	
4. _____	FAC species	x 3 =	
5. _____		x 4 =	
6. _____		x 5 =	
7. _____	Total Cover	Column Totals: <u>2</u> (A) <u>2</u> (B)	
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Wet A

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Schmidt	City/County:	Kittitas	Sampling Date:	10-7-21
Applicant/Owner:	ED Schmidt	Status:	Wet	Sampling Point:	DP 33
Investigator(s):		Section, Township, Range:	5 32 T 15N R 5 E	Relief Features:	Topographic Bathymetric
Landform (ridgeline, terrace, etc.):		Local relief (concave, convex, name):		Depth (inches):	0-12
Subregion (LSPR):		Lat:		Color (most):	C and S
Soil Map Unit Name:		Long:		Total Depth:	5-8
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
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, transects, Important Features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydro Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks:	Cultivated agricultural pasture		

VEGETATION - Use scientific names of plants.

Taxa Stratum (Plot size: _____)	Anabola Dominant Indicator % Cover: Standard 2 Status: _____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
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306. _____	307. _____	308. _____

Wet A

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Schmit	City/County:	Kittitas	Sampling Date:	10-7-21
Applicant/Owner:	JB Schmidt	State:	WA	Sampling Point:	DP 34
Investigator(s):		Section, Township, Range:	S 32 T 15N R 14E		
Landform (Ridges, terraces, etc.):		Local relief (concave, convex, none):		Slope (%):	
Sub Region (LRR):		Lat:		Long:	
Soil Map Unit Name:		Altitude:		Datum:	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(If no, explain in Remarks.)				
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed?	Are Normal Circumstances ¹ present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic?	(If needed, explain any answers in Remarks.)				

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	In the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Remarks:	green wetland in grassy pasture			

VEGETATION – Use scientific names of plants.

Total Stratum (Plot size: _____)	Absolute Dominant Indicator Species? Status: _____	Dominance Type (percentage): _____	Number of Dominant Species That Are OBL, FACW, or FAC: _____
1. _____	_____	_____	(A) _____
2. _____	_____	_____	(B) _____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
Seedling/Shrub Stratum (Plot size: _____)		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: _____
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____

SOIL

Total Stratum (Plot size: _____)	Absolute Dominant Indicator Species? Status: _____	Dominance Type (percentage): _____	Number of Dominant Species That Are OBL, FACW, or FAC: _____
1. _____	_____	_____	(A) _____
2. _____	_____	_____	(B) _____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
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303. _____	_____		

Wet B

WETLAND DETERMINATION DATA FORM - Arid West Region

Project Site:	Schmidt		City/Country:	Kittitas	Bampling Date:	10-7-21	
Applicant/Owner:	Jill Schmidt		State:	WA	Sampling Point:	DP #37	
Investigator(s):			Station, Township, Range:	S 32 T 15N R 15E			
Landform (Hillocks, terraces, etc.):			Local relief (convex, concave, normal):		Slope (%):		
Subregion (LRR):			Lat:		Long:		
Soil Map Unit Name:			Altitude:		NWI classification:		
Are dramatic hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks.)							
Are vegetation, soil, or hydrology significantly disturbed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain any answers in Remarks.)							
Are vegetation, soil, or hydrology naturally problematic? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>							
SUMMARY OF FINDINGS - Attach site info showing sampling point locations, transects, transects, important features, etc.							
Hydrophytic Vegetation Present?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydrophytic Soil Present?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland Hydrology Present?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks: Green road / ironwood pasture							
VEGETATION - Use scientific names of plants.							
Turf Stratum (Plot size: _____)	Absolute Dominant Indicator Species Count: _____	Dominance Test Worksheet:					
1. _____	Shrub Stratum:	<u>Z</u> (A)					
2. _____	Total Number of Dominant Species That Are OBL, FACW, or FAC:	<u>Z</u> (B)					
3. _____	Total Number of Dominant Species Across All Strata:	<u>/</u> (AB)					
4. _____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>/</u> (AB)					
Prevalence Under Worksheet:							
1. _____	Total % Cover of: _____	Multiflora Rose					
2. _____	OBL species	<u>x 1 =</u>					
3. _____	FACW species	<u>x 2 =</u>					
4. _____	FAC species	<u>x 3 =</u>					
5. _____	FACU species	<u>x 4 =</u>					
Column Totals: <u>(A) _____</u> (B) _____							
Prevalence Index = <u>(A) / (B)</u> = <u>5.0</u>							
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)							
Indications of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Bare Ground in Herb Stratum (%) _____							
Remarks:							

Sampling Point _____							
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Matrix:	Depth (inches):	% Color (depth):	Texture:	Remarks:			
2	104.373	6	Loam				
				Soils from			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)							
Hemicell (A1)	Sandy Redox (S5)	Location: FL=Port Union, MS=Mitch.					
Hydro Epoxidon (A2)	Shredded Matrix (S6)	Indicators for Problematic Hydric Soils:					
Black Hornic (A3)	Lumpy Mucky Matrix (F1)	1 cm Nuck (A6) (LRR E)					
Hydrogen Sunlide (A4)	Loamy Glued Matrix (F2)	2 cm Nuck (A16) (LRR B)					
Streched Leptos (A5) (LRR C)	Deleated Matrix (F3)	Reduced Vertic (F18)					
1 cm Muck (A8) (LRR D)	Native Dark Surface (F6)	Red Parent Material (F2)					
Deleated Below Dark Surface (A11)	Deleated Dark Surface (F7)	Other (Explain in Remarks)					
Thick Dark Surface (A12)	Reduced Depressions (F8)						
Sandy Nutty Muck (S1)	Vernal Pools (F9)						
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Type: _____	Depth (inches): _____						
Dominant Layer (if present): _____							
Type: _____	Depth (inches): _____						
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:							
Entire Indication Inhibition or non-indication check all that apply:							
Surficial Water (A1)	Salt Creek (B11)	Subsoil Indicators (if not inhibited):					
High Water Table (A2)	High Crust (B12)	Water Matrix (B1) (Riverine)					
Saturation (A3)	Aquatic Infiltration (B13)	Sediment Deposits (B2) (Riverine)					
Water Matrix (B1) (Nonriverine)	Hydrogen Sunlide Odor (C1)	Drift Deposits (B3) (Riverine)					
Diff Deposition (B2) (Nonriverine)	Orchidized Rhizophores along Living Roots (C2)	Draining Pattern (B10)					
Surface Soil Cracks (B3)	Presence of Reduced Iron (C4)	Dry-Cracked Burrows (C5)					
Inundation Visible on Aerial Imagery (B5)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)					
Water-Soaked Surfaces (B6)	Thin Nuck Surfaces (C7)	Shallow Aquifer (D3)					
Field Observations:							
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____						
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>1/2</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>							
Remarks:							
Detailed Recorded Data (Stream gauge, monitoring well, aerial photo, previous inspections): If available:							

WT + B

WETLAND DETERMINATION DATA FORM - And West Region

Project Site:	Schmidt	City/County:	Kittitas	Sampling Date:	10-7-21	Sampling Point:	WT + B	Sampling Point:	WT + B		
Applicant/Owner:	Zel Schmidt	State:	WA	Sampling Point:	DNR 38	Sampling Point:	DNR 38	Sampling Point:	DNR 38		
Investigator(s):		Section, Township, Range:	5 32 T 15 N R 14 E	Local relief (contour, contour, name):		Slope (S):		Local relief (contour, contour, name):			
Landform (Hillside, terrace, etc.):		Lat:		Long:		Datum:		Landform (Hillside, terrace, etc.):			
Subregion (LUR):		NWI classification:						NWI classification:			
Soil Map Unit Name:											
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.											
Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area		Hydrophytic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						(If no, explain in Remarks)	
Hydroic Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Are Normal Characteristics present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						(If needed, explain any answer in Remarks.)	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>										
Remarks:	A green stand of emergent vegetation.										
VEGETATION - Use scientific names of plants.											
Turf Stratum (Plot size: _____)	Anc/Altia	Dominant Indicator Species	_____	Total % Cover:	2	Species 2 Status:	_____	Total Number of Dominant Species That Are OBL, FACW, or FAC:	2	Remarks:	_____
1.			(A)				(B)				
2.											
3.											
4.											
Growth/Shrub Stratum (Plot size: _____)	% Total Cover:	_____	Total % Cover:	100	Species 3 Status:	_____	Total % Cover:	100	Remarks:	_____	
1.											
2.											
3.											
4.											
5.											
6.											
7.											
Hard Stratum (Plot size: _____)	Total Cover	50	Column Totals:	50	Column Totals:	50	Column Totals:	50	Column Totals:	50	
1.											
2.											
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HYDROLOGY											
Wetland Hydrology Indicators:											
Biotic Indicators/Indicators of water inundation, ditch & water level:											
1.	Surface Water (A1)	Seal Count (B11)	Water Marks (B1) (Riverine)								
2.	High Water Table (A2)	High Water Crest (B12) (Riverine)	Sediment Deposits (B3) (Riverine)								
3.	Submergence (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)								
4.		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)								
5.		Oxidized Rhizosphere along Living Roots (C2)	Dry-Saison Water Table (C3)								
6.		Presence of Reduced Iron (C4)	Crayfish Burrows (C5)								
7.		Reduced Iron Reduction in Tilled Soil (C5)	Inundation Visible on Aerial Imagery (C7)								
8.		Thin Muck Surface (C7)	Shallow Aquifer (C3)								
9.		Other (Specify in Remarks)	FAC+Neutral Tint (D5)								
Field Observations:											
1.	Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	_____	Depth (Inches):	_____	Depth (Inches):	_____	Depth (Inches):	_____	
2.	Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>									
3.	Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>									
(Include Subsidiary Items)											
Densities Recorded (List items grouped, monitoring wet, semi-wet, previous periods, previous inspections), if available:											
1.	Total Cover										
2.	Total Cover										
Remarks:											

Wetland

WETLAND DETERMINATION DATA FORM - Ard West Region

Project/Site:	Schmidt	City/County:	Kittitas	Sampling Date:	10-7-21	
Aplicant/Owner:	Schmidt	State:	WA	Sampling Point:	DPR# 39	
Investigator(s):		Section, Township, Range:	532 T 15N R 15 E	Color (match)	72	
Landform (Ridges, terraces, etc.):		Local relief (convex, concave, none):		% Color (match)	72	
Subregion (LRR#):		Lat:		Total %	72	
Soil Map Unit Name:		Long:		Loc.	Tadka	
Are dramatic hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(If no, explain in Remarks.)				Remarks:	
Are Vegetation Soil or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	In the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Hydroic Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>				
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>				
Remarks:	Cyan reed / marshy soil presence					

VEGETATION - Use scientific names of plants.

Site Stratum (Plot size: _____)	Absolute Dominant Indicator % Cover	Strata Status	Dominance Test worksheet:
1.			Number of Dominant Species That Are OBL, FACW, or FAC: <input checked="" type="checkbox"/> (A)
2.			Total Number of Dominant Species Across All Strata: <input checked="" type="checkbox"/> (B)
3.			Percent of Dominant Species That Are OBL, FACW, or FAC: <input checked="" type="checkbox"/> (A/B)
4.			Percentile Index worksheet:
Bare/Dead Stratum (Plot size: _____)	Total % Cover of: _____	Nutrients (%): _____	
1.	OBL species	x 1 =	
2.	FACW species	x 2 =	
3.	FAC species	x 3 =	
4.	FACU species	x 4 =	
5.	UPL species	x 5 =	
6.	Column Totals: <input checked="" type="checkbox"/> (A) _____	(E) _____	
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WETLAND DETERMINATION DATA FORM – Arid West Region

Project Site:	Schmidt													
Applicant/Owner:	K. H. Hins													
Investigator(s):	Sampling Date: 10-7-21 Sampling Point: DPA40													
Landform (hillsides, terraces, etc.):	Slopes: 5-32% ESE													
Subregion (LRR):	Local relief (convex, concave, none): Slope (%): _____ Lat: _____ Date: _____													
Sail Map Unit Name:	Long: _____ NIN classification: _____ Are 'Normal Circumstances' present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
	Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Are Vegetation _____ or Hydrology _____ significantly disturbed?													
	Are Vegetation _____ 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.														
<table border="1"> <tr> <td>Hydrophytic Vegetation Present?</td> <td>Yes <input type="checkbox"/></td> <td>No <input checked="" type="checkbox"/></td> <td rowspan="2">Is the Sampled Area within a Wetland?</td> </tr> <tr> <td>Hydric Soil Present?</td> <td>Yes <input type="checkbox"/></td> <td>No <input checked="" type="checkbox"/></td> </tr> <tr> <td>Wetland Hydrology Present?</td> <td>Yes <input type="checkbox"/></td> <td>No <input checked="" type="checkbox"/></td> <td></td> </tr> </table>				Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?											
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>												
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>												
Remarks: open field irrigated pasture														

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WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Client's Name:	Schmidt		City/Country:	Kittitas	Sampling Date:	10-7-21																																																																																																																																																																																						
Applicant/Owner:	Sue Schmidt		State:	WA	Sampling Depth:	DPT 4'																																																																																																																																																																																						
Investigator's Name:			Section, Township, Range:	S 32 T 3N R 14E																																																																																																																																																																																								
Landform (Hillslope, terrace, etc.):	Soil Map Unit Name: Siltangan (QRFV)		Local relief (convex, concave, none):	Slope (%):																																																																																																																																																																																								
Lat:			Long:	Depth:																																																																																																																																																																																								
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<p style="text-align: center;">Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydrolic Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p style="text-align: center;">Is the Sampled Area within a Wetland?</p> <p style="text-align: center;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p style="text-align: center;">Remarks: green and irrigated pasture</p>																																																																																																																																																																																												
VEGETATION - Use scientific names of plants. <table border="1"> <thead> <tr> <th>Site Stratum</th> <th>Pilot size:</th> <th>Absent</th> <th>Dominant</th> <th>Indicator</th> <th>Prevalence Index</th> <th>Number of Dominant Species</th> </tr> <tr> <th></th> <th></th> <th>% Cover</th> <th>Species?</th> <th>Epithet</th> <th>of BBL</th> <th>Total # of Species</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(A) This Are OBL, FACW, or FAC:</td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(B) Total Number of Dominant Species Across All Strata:</td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>100%</u> (AB)</td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Seedling/Shrub Stratum (Pilot size: _____)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Herb Stratum (Pilot size: <u>100' x 100'</u>)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Woodland Stratum (Pilot size: _____)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="7"> Prevalence Index = BIA = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is <3.0' Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Probiametric Hydrophytic Vegetation' (Explains) </td> </tr> <tr> <td colspan="7"> 'Indication of hydroic soil and wetland hydro-ecology must be present, unless disturbed or exogenic. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> </td> </tr> <tr> <td colspan="7"> % Bare Ground in Herb Stratum: _____ % Cover of BBL Crust: _____ Remaining: _____ </td> </tr> </tbody></table>							Site Stratum	Pilot size:	Absent	Dominant	Indicator	Prevalence Index	Number of Dominant Species			% Cover	Species?	Epithet	of BBL	Total # of Species	1.						(A) This Are OBL, FACW, or FAC:	2.						(B) Total Number of Dominant Species Across All Strata:	3.						<u>100%</u> (AB)	4.							Seedling/Shrub Stratum (Pilot size: _____)							1.							2.							3.							4.							5.							6.							Herb Stratum (Pilot size: <u>100' x 100'</u>)							1.							2.							3.							4.							5.							6.							Woodland Stratum (Pilot size: _____)							1.							2.							Prevalence Index = BIA = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is <3.0' Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Probiametric Hydrophytic Vegetation' (Explains)							'Indication of hydroic soil and wetland hydro-ecology must be present, unless disturbed or exogenic. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							% Bare Ground in Herb Stratum: _____ % Cover of BBL Crust: _____ Remaining: _____						
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U.S. Army Corps of Engineers

Ariad West - Version 2.0

US Army Corps of Engineers

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Schmidt		City/Country:	Kittitas		Sampling Date:	10-7-21														
Applicant/Downer:			State:	WA		Sampling Point:	DPH42														
Investigator(s):	Ed Scandl		Secton, Township, Range:	S 32 T 15N R 15E		Depth (inches):	16														
Landform (Hillslope, terrace, etc.):			Local relief (concave, convex, none):			Color (month):	Coral														
Subregion (LRR):			Lat:			Type:	Loc														
Soil Map Unit Name:			Long:			Color (month):	Loc														
SOIL																					
<p>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>Depth (inches):</td><td>Matrix</td><td>Roots/Features</td></tr> <tr><td>16</td><td>100% Silt</td><td>% Color (month)</td></tr> <tr><td></td><td></td><td>% Type</td></tr> <tr><td></td><td></td><td>Loc</td></tr> </table> <p>Remarks:</p> <p><i>Topsoil</i></p>									Depth (inches):	Matrix	Roots/Features	16	100% Silt	% Color (month)			% Type			Loc	
Depth (inches):	Matrix	Roots/Features																			
16	100% Silt	% Color (month)																			
		% Type																			
		Loc																			
<p>Hydrologic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks.)</p> <p>Hydrolic Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks.)</p> <p>Are Vegetation Soil _____ or Hydrology _____ significantly disturbed?</p> <p>Are Vegetation Soil _____ or Hydrology _____ naturally problematic?</p> <p>NWI classification: 43</p> <p>NWI classification: NWI classification: 43</p> <p>NWI classification: NWI classification: 43</p>																					
<p>TYPE: CrConcentration, DeDeterioration, RRA=Reduced Matrix, CSCovered, or Coated Sand Grains.</p> <p>Hydrolic Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <ul style="list-style-type: none"> Hillock (A1) <input type="checkbox"/> Hilltop (A2) <input type="checkbox"/> Black Heath (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layer (A5) <input type="checkbox"/> ✓ 1 cm Nodules (A6) <input type="checkbox"/> Capsulated Dark Surface (A7) <input type="checkbox"/> Depilated Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Hydro Mineral (S1) <input type="checkbox"/> Sandy Glued Matrix (S4) <input type="checkbox"/> <p>Rainbow Layer (if present):</p> <p>Type: <input type="checkbox"/></p> <p>Depth (inches): <input type="checkbox"/></p> <p>Remarks:</p>																					
<p>HYDROLOGY</p> <p>Wetland Hydrology and culture:</p> <p>Estuarine Indicators (minimum of one nonfreshwater check all that apply):</p> <ul style="list-style-type: none"> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonmarine) <input type="checkbox"/> Sediment Deposits (B2) (Nonmarine) <input type="checkbox"/> Drift Deposits (B3) (Nonmarine) <input type="checkbox"/> Surface Soil Cracks (S6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (S7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> <p>Field Observations:</p> <p>Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <input type="checkbox"/></p> <p>Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <input checked="" type="checkbox"/> 8 Depth (inches): <input type="checkbox"/></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): <input type="checkbox"/></p> <p>Includes cellular phone(s).</p> <p>Describe Received Data (at least 1 page, including wet, aerial photos, previous transaction), if available:</p> <p>Remarks:</p>																					
<p>VEGETATION - Use scientific names of plants.</p> <p>Total Stratum (Plot size: <input type="checkbox"/>):</p> <p>Absolute Dominant Indicator % Cover, Species? <input checked="" type="checkbox"/> Sphagnum</p> <p>Dominance Test worksheet: Number of Dominant Species That Are OBL, FACN, or FAC: <input checked="" type="checkbox"/> 2 (A)</p> <p>Percent of Dominant Species Across All Strata: <input checked="" type="checkbox"/> 2 (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <input checked="" type="checkbox"/> 1 (C)</p> <p>Prevalence Index worksheet:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>Total % Cover of: Nutrients</td></tr> <tr><td>OBL species</td><td>x 1 =</td></tr> <tr><td>FACW species</td><td>x 2 =</td></tr> <tr><td>FAC species</td><td>x 3 =</td></tr> <tr><td>FACU species</td><td>x 4 =</td></tr> <tr><td>URL species</td><td>x 5 =</td></tr> <tr><td>Column Total: <input checked="" type="checkbox"/> 50</td><td>(A) <input checked="" type="checkbox"/> (B)</td></tr> </table> <p>Total Cover: <input checked="" type="checkbox"/> 50</p> <p>FAC: <input checked="" type="checkbox"/> 50</p> <p>Prevalence Index = B/A = <input checked="" type="checkbox"/> 1</p> <p>Hydrophytic Vegetation Indicators:</p> <p>Dominance Test is > 50%</p> <p>Prevalence Index is > 30%</p> <p>Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)</p> <p>Problematic Hydrophytic Vegetation' (Explain)</p> <p>Indicators of hydro soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p>Total Cover: <input type="checkbox"/></p> <p>% Bare Ground in Herb Stratum: <input type="checkbox"/></p> <p>% Cover of Bluff Stratum: <input type="checkbox"/></p> <p>Remarks:</p>									Total % Cover of: Nutrients	OBL species	x 1 =	FACW species	x 2 =	FAC species	x 3 =	FACU species	x 4 =	URL species	x 5 =	Column Total: <input checked="" type="checkbox"/> 50	(A) <input checked="" type="checkbox"/> (B)
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Column Total: <input checked="" type="checkbox"/> 50	(A) <input checked="" type="checkbox"/> (B)																				

WETLAND DETERMINATION DATA FORM - Arid West Region

Project Site:	Schmidt		City/County:	Kittitas	Sampling Date:	10-7-21
Applicant/Owner:			State:	WA	Sampling Point:	DP 44
Investigator(s):	SD Schmidt		Section, Township, Range:	S 32 T 15N R 15E		
Landform (terrace, etc.):			Lateral relief (concave, convex, none):		Shape (%):	
Subregion (LRA):			Lat:		Long:	
Soil Map Unit Name:				NW classification:		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		(If no, explain in Remarks.)		Are "Normal Circumstances" present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Are Vegetation _____, Soil _____, or Hydrology _____		Significantly disturbed?		(If needed, explain any answers in Remarks.)		
Are Vegetation _____, Soil _____, or Hydrology _____		naturally problematic?				

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	What is the Hydric Soil?		No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	Total Cover		<i>irrigated pasture</i>
Remarks:				

VEGETATION - Use scientific names of plants.

Tire Stratum (Plot size: _____)	Absolute Dominant Indicator Species? Status:	Dominance Test worksheet:
1. _____	SDC	Number of Dominant Species That Are SDC, FACW, or FAC: <input checked="" type="checkbox"/> 1
2. _____	SDC	Total Number of Dominant Species Across All Strata: <input checked="" type="checkbox"/> 1
3. _____	SDC	Percent of Dominant Species That Are SDC, FACW, or FAC: <input checked="" type="checkbox"/> (AB)
4. _____	SDC	Prevalence Index worksheet:

Total % Cover of: Native spp. Non-native spp.

1. _____	SDC species	x 1 =
2. _____	FACW species	x 2 =
3. _____	FAC species	x 3 =
4. _____	FAC species	x 4 =
5. _____	UPL species	x 5 =
6. _____	Column Total:	(A) <input checked="" type="checkbox"/> (B)

Prevalence Index = SIA =

HYDROPHYTIC VEGETATION INDICATIONS:

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 hydro soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

Sampling Point: _____		Profile Description: (Describe the depth needed to document the indicator or confirm the absence of indicators.)	
Depth (inches):	Matric Depth:	Radius: Features:	Texture: _____
12	Color (most):	%	Remarks: _____
Soil Type: _____		Location: PL = Pond Under Matric.	
Soil Map Unit Name:		Indicators for Problematic Hydro Soils:	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		(If no, explain in Remarks.)	
Are "Normal Circumstances" present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		(If needed, explain any answers in Remarks.)	
Are Vegetation _____, Soil _____, or Hydrology _____		Indicators for Problematic Hydro Soils:	
Are Vegetation _____, Soil _____, or Hydrology _____		1 cm Muck (A9) (LRRC B)	
Are Vegetation _____, Soil _____, or Hydrology _____		2 cm Muck (A10) (LRRC B)	
Are Vegetation _____, Soil _____, or Hydrology _____		Reduced Vertic (F18)	
Are Vegetation _____, Soil _____, or Hydrology _____		Reduced Material (F12)	
Are Vegetation _____, Soil _____, or Hydrology _____		Other (Explain in Remarks)	
Are Vegetation _____, Soil _____, or Hydrology _____		Indicators of hydrophytic vegetation and wetland hydrology must be present; values disturbed or problematic.	
Are Vegetation _____, Soil _____, or Hydrology _____		Hydro Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Are Vegetation _____, Soil _____, or Hydrology _____		Type: _____	
Are Vegetation _____, Soil _____, or Hydrology _____		Depth (inches): _____	
Are Vegetation _____, Soil _____, or Hydrology _____		Remarks: _____	
HYDROLOGY			
Wetland Hydrology Indication:			
Primary Indication (minimum of one required; check all that apply)			
Secondary Indication (2 or more required)			
Surface Water (A1) <input checked="" type="checkbox"/> Soil Crust (B11) <input type="checkbox"/> Brackish Water (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/>			
High Water Table (A2) <input type="checkbox"/> Sediment Deposits (B12) <input type="checkbox"/> Drift Deposits (B5) <input type="checkbox"/> Crevasse Patterns (B10) <input type="checkbox"/>			
Saturation (A3) <input type="checkbox"/> Dry/Saturated Areas along Living Roots (C1) <input type="checkbox"/> Dry/Saturated Burrows (C1) <input type="checkbox"/>			
Water Matrix (B1) (Non-marshes) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/>			
Bedrock Deposits (B2) (Marine/bars) <input type="checkbox"/> Surface Soil Cracks (B8) <input type="checkbox"/> Inundation Visible on Aerial Imagery (C8) <input type="checkbox"/>			
Drift Deposits (B3) (Non-marshes) <input type="checkbox"/> Shallow Aquifluous (B9) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/>			
Column Total: (C) <input checked="" type="checkbox"/> (D) <input type="checkbox"/>			
Field Observations:			
Surface Water Present? Yes <input type="checkbox"/> Depth (inches): _____			
Water Table Present? Yes <input type="checkbox"/> Depth (inches): _____			
Saturation Present? Yes <input type="checkbox"/> Depth (inches): _____			
Indicate gallery fringe: _____			
Describe Recorded Date (stream gauge, monitoring well, aerial photo, previous inspection), if available:			
Remarks:			

West D

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Schmit			Sampling Date:	10-7-21																																																																																																																																																																																																									
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<p>REMARKS:</p>																																																																																																																																																																																																														

WETLAND DETERMINATION DATA FORM - Arid West Region

Schmidt Project Site: Applicant/Owner: Investigator: Landform Unit Name, (etc.): Subsoil (LHR): Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? SUMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.	<p style="text-align: right;">Sampling Date: <u>10-7-21</u></p> <p>City/County: <u>Kittitas</u> State: <u>WA</u> Sampling Point: <u>S 32 T 15N R 15E</u></p> <p>Section, Township, Range: <u>Local relief (concave, convex, none):</u> Slope (%): <u>0-2%</u></p> <p>Lat: <u>Long:</u> <u>Depth (ft):</u></p> <p>NW distinction: <u>(if no, explain in Remarks)</u> <u>Are "Normal Circumstances" present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></u> <u>(If needed, explain any answers in Remarks.)</u></p> <p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydroic Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Remarks: <u>green and brownish peat</u></p>	<p style="text-align: right;">Sampling Point: <u>C-634</u> Loc: <u>Tutor</u> Remarks: <u>C-634</u></p> <p>Depth (inches): <u>0-24</u> % Color (most): <u>2/3</u> Color Depth: <u>0-24</u> % Color (most): <u>2/3</u> Color</p> <p>Root Feature: <u>None</u> Root Depth: <u>None</u> Root Feature: <u>None</u> Root Depth: <u>None</u></p> <p>Type: <u>Concretion</u>, <u>D-Dolomite</u>, <u>R-Radiocalcite Matrix</u>, <u>C-Covered or Coated Sand Grains</u>, <u>P-Pl-Pore Linings</u>, <u>M-Mehlmat</u>. Hydroic Soil Indicators: (Applies to all LHRs, unless otherwise noted.) Hatched (A1) <input type="checkbox"/> Sandy Redox (B5) <input type="checkbox"/> Location: <u>For Problematic Hydroic Soils:</u> Mottled Ephemeral (A2) <input type="checkbox"/> Striped Matrix (S1) <input type="checkbox"/> 1 cm Muck (A9) (LHR C) Black Hail (A3) <input type="checkbox"/> Loamy Muddy Mineral (F1) <input type="checkbox"/> Radiculate Voids (F18) Hydrogen Sulfide (M4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Radiculate Material (F12) Stagnated Layer (A5) (LHR Q) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/></p> <p>1 cm Muck (A8) (LHR D) <input type="checkbox"/> Peat Dark Surface (F6) <input type="checkbox"/> Radiculate Dark Surface (F7) Duplicated Below Dark Surface (A11) <input type="checkbox"/> Radiculate Depression (F8) <input type="checkbox"/> Vertical Pools (F9)</p> <p>Thick Dark Surface (A12) <input type="checkbox"/> Radiculate Layer (F1) <input type="checkbox"/> Radiculate Layer (F12) <input type="checkbox"/> Radiculate Layer (F13)</p> <p>Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Radiculate Layer (F14) <input type="checkbox"/> Radiculate Layer (F15)</p>
<p>VEGETATION - Use scientific names of plants.</p> <p>Tree Stratum (Plot size: <u>1 ft x 1 ft</u>)</p> <p>1. <u>Absolute Dominant Indicator</u>: <u>Salix</u> Stratum: <u>Shrub</u> Status: <u>Established</u></p> <p>Number of Dominant Species That Are OSL, FACW, or FAC: <u>2</u> (A)</p> <p>2. <u>Total Cover</u> <u>100%</u></p> <p>Number of Dominant Species That Are OSL, FACW, or FAC: <u>2</u> (A)</p> <p>3. <u>Total Cover</u> <u>100%</u></p> <p>Number of Dominant Species That Are OSL, FACW, or FAC: <u>2</u> (A)</p> <p>4. <u>Total Cover</u> <u>100%</u></p> <p>Number of Dominant Species That Are OSL, FACW, or FAC: <u>2</u> (A)</p> <p>Seedling/Strub Stratum (Plot size: <u>1 ft x 1 ft</u>)</p> <p>1. <u>Total % Cover</u>: <u>0%</u></p> <p>2. <u>Total % Cover</u>: <u>0%</u></p> <p>3. <u>Total % Cover</u>: <u>0%</u></p> <p>4. <u>Total % Cover</u>: <u>0%</u></p> <p>5. <u>Total % Cover</u>: <u>0%</u></p> <p>6. <u>Total % Cover</u>: <u>0%</u></p> <p>7. <u>Total % Cover</u>: <u>0%</u></p> <p>8. <u>Total % Cover</u>: <u>0%</u></p> <p>9. <u>Total % Cover</u>: <u>0%</u></p> <p>10. <u>Total % Cover</u>: <u>0%</u></p> <p>11. <u>Total % Cover</u>: <u>0%</u></p> <p>12. <u>Total % Cover</u>: <u>0%</u></p> <p>13. <u>Total % Cover</u>: <u>0%</u></p> <p>14. <u>Total % Cover</u>: <u>0%</u></p> <p>15. <u>Total % Cover</u>: <u>0%</u></p> <p>16. <u>Total % Cover</u>: <u>0%</u></p> <p>17. <u>Total % Cover</u>: <u>0%</u></p> <p>18. <u>Total % Cover</u>: <u>0%</u></p> <p>19. <u>Total % Cover</u>: <u>0%</u></p> <p>20. <u>Total % Cover</u>: <u>0%</u></p> <p>21. <u>Total % Cover</u>: <u>0%</u></p> <p>22. <u>Total % Cover</u>: <u>0%</u></p> <p>23. <u>Total % Cover</u>: <u>0%</u></p> <p>24. <u>Total % Cover</u>: <u>0%</u></p> <p>25. <u>Total % Cover</u>: <u>0%</u></p> <p>26. <u>Total % Cover</u>: <u>0%</u></p> <p>27. <u>Total % Cover</u>: <u>0%</u></p> <p>28. <u>Total % Cover</u>: <u>0%</u></p> <p>29. <u>Total % Cover</u>: <u>0%</u></p> <p>30. <u>Total % Cover</u>: <u>0%</u></p> <p>31. <u>Total % Cover</u>: <u>0%</u></p> <p>32. <u>Total % Cover</u>: <u>0%</u></p> <p>33. <u>Total % Cover</u>: <u>0%</u></p> <p>34. <u>Total % Cover</u>: <u>0%</u></p> <p>35. <u>Total % Cover</u>: <u>0%</u></p> <p>36. <u>Total % Cover</u>: <u>0%</u></p> <p>37. <u>Total % Cover</u>: <u>0%</u></p> <p>38. <u>Total % Cover</u>: <u>0%</u></p> <p>39. <u>Total % Cover</u>: <u>0%</u></p> <p>40. <u>Total % Cover</u>: <u>0%</u></p> <p>41. <u>Total % Cover</u>: <u>0%</u></p> <p>42. <u>Total % Cover</u>: <u>0%</u></p> <p>43. <u>Total % Cover</u>: <u>0%</u></p> <p>44. <u>Total % Cover</u>: <u>0%</u></p> <p>45. <u>Total % Cover</u>: <u>0%</u></p> <p>46. <u>Total % Cover</u>: <u>0%</u></p> <p>47. <u>Total % Cover</u>: <u>0%</u></p> <p>48. <u>Total % Cover</u>: <u>0%</u></p> <p>49. <u>Total % Cover</u>: <u>0%</u></p> <p>50. <u>Total % Cover</u>: <u>0%</u></p> <p>51. <u>Total % Cover</u>: <u>0%</u></p> <p>52. <u>Total % Cover</u>: <u>0%</u></p> <p>53. <u>Total % Cover</u>: <u>0%</u></p> <p>54. <u>Total % Cover</u>: <u>0%</u></p> <p>55. <u>Total % Cover</u>: <u>0%</u></p> <p>56. <u>Total % Cover</u>: <u>0%</u></p> <p>57. <u>Total % Cover</u>: <u>0%</u></p> <p>58. <u>Total % Cover</u>: <u>0%</u></p> <p>59. <u>Total % Cover</u>: <u>0%</u></p> <p>60. <u>Total % Cover</u>: <u>0%</u></p> <p>61. <u>Total % Cover</u>: <u>0%</u></p> <p>62. <u>Total % Cover</u>: <u>0%</u></p> <p>63. <u>Total % Cover</u>: <u>0%</u></p> <p>64. <u>Total % Cover</u>: <u>0%</u></p> <p>65. <u>Total % Cover</u>: <u>0%</u></p> <p>66. <u>Total % Cover</u>: <u>0%</u></p> <p>67. <u>Total % Cover</u>: <u>0%</u></p> <p>68. <u>Total % Cover</u>: <u>0%</u></p> <p>69. <u>Total % Cover</u>: <u>0%</u></p> <p>70. <u>Total % Cover</u>: <u>0%</u></p> <p>71. <u>Total % Cover</u>: <u>0%</u></p> <p>72. <u>Total % Cover</u>: <u>0%</u></p> <p>73. <u>Total % Cover</u>: <u>0%</u></p> <p>74. <u>Total % Cover</u>: <u>0%</u></p> <p>75. <u>Total % Cover</u>: <u>0%</u></p> <p>76. <u>Total % Cover</u>: <u>0%</u></p> <p>77. <u>Total % Cover</u>: <u>0%</u></p> <p>78. <u>Total % Cover</u>: <u>0%</u></p> <p>79. <u>Total % Cover</u>: <u>0%</u></p> <p>80. <u>Total % Cover</u>: <u>0%</u></p> <p>81. <u>Total % Cover</u>: <u>0%</u></p> <p>82. <u>Total % Cover</u>: <u>0%</u></p> <p>83. <u>Total % Cover</u>: <u>0%</u></p> <p>84. <u>Total % Cover</u>: <u>0%</u></p> <p>85. <u>Total % Cover</u>: <u>0%</u></p> <p>86. <u>Total % Cover</u>: <u>0%</u></p> <p>87. <u>Total % Cover</u>: <u>0%</u></p> <p>88. <u>Total % Cover</u>: <u>0%</u></p> <p>89. <u>Total % Cover</u>: <u>0%</u></p> <p>90. <u>Total % Cover</u>: <u>0%</u></p> <p>91. <u>Total % Cover</u>: <u>0%</u></p> <p>92. <u>Total % Cover</u>: <u>0%</u></p> <p>93. <u>Total % Cover</u>: <u>0%</u></p> <p>94. <u>Total % Cover</u>: <u>0%</u></p> <p>95. <u>Total % Cover</u>: <u>0%</u></p> <p>96. <u>Total % Cover</u>: <u>0%</u></p> <p>97. <u>Total % Cover</u>: <u>0%</u></p> <p>98. <u>Total % Cover</u>: <u>0%</u></p> <p>99. <u>Total % Cover</u>: <u>0%</u></p> <p>100. <u>Total % Cover</u>: <u>0%</u></p>		<p style="text-align: right;">% Cover of Herb Stratum: <u>0%</u> % Cover of Blastic Crust: <u>0%</u> Remarks: <u>no</u></p> <p>Field Observations:</p> <p>Surficial Water Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u></p> <p>(Indicate if any of the above are present). If available,</p> <p>Describe Recorded Date (stream gauge, monitoring well, water surface, previous inspection).</p> <p>Remarks:</p>

WETLAND DETERMINATION DATA FORM - Arid West Region

Sampling Point _____								
SoIL								
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix	Roots, Features	Loc.	Tumor	Remarks			
3	<u>clay loam</u>	%	<u>green</u>	<u>low</u>				
16	<u>clay</u>	<u>c</u>	<u>dark</u>	<u>high</u>				
Soil Map Unit Name: _____								
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks.)								
Are vegetation _____, Soil _____ or Hydrology _____ significantly disturbed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain any answer in Remarks.)								
Are vegetation _____, Soil _____ or Hydrology _____ naturally problematic?								
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If no, explain in Remarks.)								
Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, attach photo)								
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, attach photo)								
Remarks: <u>dry land in arid basin</u>								
VEGETATION - Use scientific names of plants.								
Site Status (Plot size: _____)								
1.	Absolute Dominant Indicator % Cover: <u>80%</u>	Bioturbation? <input type="checkbox"/>		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)				
2.	Specialist Areal Ag Gleens: <u>0</u> (B)		Total Number of Dominant Specialist Areal Ag Gleens: <u>0</u> (B)					
3.	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)		Prevalence Index worksheet: Total % Cover: <u>100</u> (A) %					
4.	Total Cover: <u>100</u> (A)		OBL species: <u>0</u> (A) x 1 = <u>0</u> (A)					
5.	FACW species: <u>0</u> (A) x 2 = <u>0</u> (A)		FAC species: <u>0</u> (A) x 3 = <u>0</u> (A)					
6.	FAC species: <u>0</u> (A) x 4 = <u>0</u> (A)		UPL species: <u>0</u> (A) x 5 = <u>0</u> (A)					
Soil Stratum (Plot size: _____)								
1.	Total Cover: <u>100</u> (A)	FAC: <u>0</u> (A)		Column Totals: <u>0</u> (A) (B)				
2.	<u>Clay</u>	<u>0</u> (A)		<u>0</u> (A) (B)				
3.	Total Cover: <u>100</u> (A)		Prevalence Index = <u>0/A = 0</u>					
4.	FAC: <u>0</u> (A)		Hydrophytic Vegetation Indicators:					
5.	UPL: <u>0</u> (A)		Dominance Test is 50% Prevalence Index is 50% Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)					
6.	Inundation: <u>0</u> (A)		Probiotic Hydrophytic Vegetation ¹ (Explain)					
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, attach photo)								
Remarks: <u></u>								
SoIL								
Type: CrConcentration Depth/Reduced Matrix, R/R/Coverage or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LR/Rs, unless otherwise noted.)								
1.	Histosol (A1)	Sandy Redox (B6)		Indicators for Problematic Hydric Soils: 1 cm Muck (A8) (LR/R C)				
2.	Hydric Ephemeral (A2)	Spined Matrix (B8)		2 cm Muck (A10) (LR/R B)				
3.	Black Hard (A8)	Loamy Mucky Material (F1)		Reduced Vertic (F-8)				
4.	Hydrogen Sulfide (A4)	Loamy Clayey Matrix (F2)		Reduced Vertic Material (F2)				
5.	Stratified Layers (A8) (LR/R C)	Dense/Dark Surface (F3)		Other (Explain in Remarks)				
6.	1 cm Necid (A8) (LR/R D)	Dense/Dark Surface (F6)						
7.	Deglitz Below Dark Surface (A11)	Degraded Dark Surface (F7)						
8.	Thick Dark Surface (A12)	Reduced Depositions (F8)						
9.	Sandy Mucky Mineral (S1)	Vermic Peds (F9)						
10.	Sandy Clayey Matrix (S4)							
HYDROLOGY								
Wetland Hydrology Indicators:								
Estuary/Indication of area inundated, cracked at high tide.								
1.	Surface Wear (A1)	Salt Crust (B11)		Secondarily Indication (2 or more results):				
2.	High Water Tide (A2)	Biotic Crust (B12)		Water Marsh (B1) (R/Wetline)				
3.	Saturation (A3)	Aquatic Invertebrates (B19)		Sediment Deposits (B2) (R/wetline)				
4.	Water Marsh (B1) (Marshyline)	Hydrogen Sulfide Odor (C1)		Drift Deposits (B3) (R/wetline)				
5.	Drift Deposits (B2) (Marshyline)	Oxidized Rhizosphere along Living Roots (C2)		Dry-Season Water Table (C2)				
6.	Surficial Soil Crevices (B6)	Presence of Reduced Iron (C4)		Crayfish Burrows (C5)				
7.	Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Tilled Soils (C5)		Saturation Visible on Aerial Imagery (C9)				
8.	Water-Splashed Leaves (B9)	Thin Muck Surface (C7)		Shallow Aquiferc (D3)				
9.	Other (Explain in Remarks)				FAC-Neutral Test (D5)			
Field Observations:								
10.	Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>0</u>	Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>0</u>		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
11.	Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>0</u>	Depth (inches): <u>0</u>		Depth Recorded Date (stream gauge monitoring well, aerial photo, previous inspection), if available:				
Remarks:								

WETLAND DETERMINATION DATA FORM - Arid West Region

10-7-21

Project/Site: Schmit City/County: Kittitas Sampling Date: 10-7-21
Apptor/Owner: WA Sampling Point: D P#50Investigator(s): EW Section, Township, Range: 5 32 T 18N R 14ELandform (hilltop, terrace, etc.): Soil Local relief (convex, concave, none): NoneSubregion (LRR): Soil Map Unit Name: Soil Lat: 46° 37' 2" Long: 119° 5' 1" Slope (%): 0Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ✓ (If no, explain in Remarks.)Are Vegetation Soil or Hydrology Soil significantly disturbed? Are 'Normal Circumstances' present? Yes ✓ No ✓ (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes ✓ No ✓ Is the Sampled Area
within a Wetland? Yes ✓ No ✓ Remarks: green grassy ground pasture

VEGETATION - Use scientific names of plants.

Site Stratum (Plot size: _____)

Absolute Dominant Indicator % Cover, Stabilizes? Barriers? Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) 2 (B)Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)Prevalence Index (Wetland): Total % Cover of: 100%OBL species None x 1 = 0FACW species None x 3 = 0FAC species None x 4 = 0Column Total: 0 x 5 = 0 (E)Total Cover: 50 50High Water Table (A1) NoneSalt Crust (B1) NoneBiotic Crest (B2) NoneAquatic Invertebrates (B3) NoneWater Matrix (B4) NoneDrift Deposits (B5) NoneDraught Patterns (B6) NoneHydrogen Sulfide Odor (C1) NoneOxidized Rhizosphere Stord Living Roots (C2) NonePresence of Reduced Iron (C4) NoneRecent Iron Reduction in Tilled Soils (C5) NoneThin Nutrient Surface (C7) NoneOther (explain in Remarks) NoneField Observations: Surface Water Present? Yes ✓ No ✓ Depth (inches): 0Water Table Present? Yes ✓ No ✓ Depth (inches): 0Saturation Present? Yes ✓ No ✓ Depth (inches): 0Describe Recorded Date (stencil date, monitoring well, aerial photo, previous inspection), if available: NoneRemarks: None

Sampling Point:					
<p>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</p> <p>Depth (inches): <u>16</u> Matrix: <u>Color (moist):</u> <u>6</u> <u>Cube (moist):</u> <u>6</u> <u>Fine</u> <u>Indurated</u> <u>Clay</u> <u>Loam</u> <u>Sand</u> <u>Ramkets.</u></p> <p>NWI classification: <u>None</u></p> <p>Type: <u>Ca</u> Concentration, <u>D</u> Dispersal, <u>R</u> Reduced Matrix, <u>C</u> Coverage or Coated Sand Grains, <u>I</u> Indicators for Problematic Hydric Soils, <u>P</u> Pore Lining, <u>M</u> Matrix.</p> <p>Hydro Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <ul style="list-style-type: none"> <input type="checkbox"/> <u>Habenaria (A1)</u> <u>Sandy Redox (S1)</u> <u>1 cm Muck (A1) (LRR B)</u> <input type="checkbox"/> <u>Hydro Epiphany (A2)</u> <u>Stripped Matrix (S2)</u> <u>2 cm Muck (A1) (LRR B)</u> <input type="checkbox"/> <u>Black Hatch (A3)</u> <u>Loamy Mucky Matrix (F1)</u> <u>Reduced Vertic (F1-B)</u> <input type="checkbox"/> <u>Hydrogen Sulphite (A4)</u> <u>Loamy Gleyey Matrix (F2)</u> <u>Reduced Matrix (F2)</u> <input type="checkbox"/> <u>Stratified Layers (A5) (LRR C)</u> <u>Desulfurized Matrix (F3)</u> <u>Other (Explain in Remarks)</u> <input type="checkbox"/> <u>1 cm Muck (A6) (LRR D)</u> <u>Leaching Dark Surface (F6)</u> <input type="checkbox"/> <u>Depleted Below Dark Surface (A1)</u> <u>Reduced Depressions (F8)</u> <input type="checkbox"/> <u>Thick Dark Surface (A12)</u> <u>Vernal Pools (F9)</u> <input type="checkbox"/> <u>Sandy Nutty Mineral (S1)</u> <input type="checkbox"/> <u>Sandy Gleyey Matrix (S4)</u> <p>Indicators of hydromorphic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>					
Type:		Hydro Soil Present? Yes <u>✓</u> No <u>✓</u>			
Depth (inches):					
Restrictive Layer (if present):					
Remarks:					
HYDROLOGY					
<p>Wetland Hydrology Indicators: Estimate Indicators (minimum of one required; check all that apply)</p> <p>Barriers: <u>Sea Crust (S1)</u> <u>Biotic Crest (B12)</u> <u>High Water Table (A2)</u> <u>Aquatic Invertebrates (B13)</u> <u>Water Matrix (B1) (Groundwater)</u> <u>Drift Deposits (B2) (Riversides)</u></p> <p>Deposits: <u>Sediment (A3)</u> <u>Hydrogen Sulfide Odor (C1)</u> <u>Drift Deposits (B3) (Riversides)</u> <u>Dry-Season Water Table (C2)</u> <u>Crayfish Burrows (C5)</u></p> <p>Hydrology: <u>Water Table (B1) (Groundwater)</u> <u>Oxidized Rhizosphere Stord Living Roots (C2)</u> <u>Saturation Visible on Aerial Imagery (CB)</u> <u>Inundation Visible on Aerial Imagery (C6)</u> <u>Shallow Aquitard (C8)</u></p> <p>Other: <u>Water-Splashed Leaves (B9)</u> <u>FAC-Neutral Test (D5)</u></p>					
<p>Field Observations:</p> <p>Surface Water Present? Yes <u>✓</u> No <u>✓</u> Depth (inches): <u>0</u></p> <p>Water Table Present? Yes <u>✓</u> No <u>✓</u> Depth (inches): <u>0</u></p> <p>Saturation Present? Yes <u>✓</u> No <u>✓</u> Depth (inches): <u>0</u></p> <p>Describe Recorded Date (stencil date, monitoring well, aerial photo, previous inspection), if available: <u>None</u></p> <p>Remarks: <u>None</u></p>					

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Schmidt - Kittens City/County: Kittens Sampling Date: 10-7-21
Applicant/Owner: State: WA Sampling Point: Dper 5

WETLAND DETERMINATION DATA FORM - Arid West Region

Schmidt Project/Site: **Kittitas** City/County: Sampling Date: **10-7-21** **51**

Aplicant/Owner: **Zell Schmidt** State: **WA** Sampling Point: **T 33 N R 12 E**

Investigator(s): Substation, Township, Range: **T 33 N R 12 E**

Landform (Physiog., terrace, etc.): **Subregion (LRR):** **Left:** **Long:** NW Classification:

Are climatic hydrologic conditions on the site typical for the time of year? Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any anomalies in Remarks.)

Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic?

Remarks: **gravelly iron-rich wash**

SUMMARY OF FINDINGS 5 - Attach site map showing sampling point locations, transects, important features, etc.

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

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover:	Dominant Indicator Species? Strata:	Dominance Test Worksheet:
1. _____	_____	_____	Number of Dominant Species That Are CBI, FACW, or FACI: (A)
2. _____	_____	_____	Total Number of Dominant Species Across All Strata: (B)
3. _____	_____	_____	Percent of Dominant Species That Are CBI, FACW, or FACI: (A/B)
4. _____	_____	_____	Total Cover
Sapling/Shrub Stratum (Plot size: _____)	Total % Cover of:	Multistorey Strata:	
1. _____	_____	_____	CBI species (A) <input type="checkbox"/> x 1 = _____
2. _____	_____	_____	FACW species (A) <input type="checkbox"/> x 2 = _____
3. _____	_____	_____	FAC species (A) <input type="checkbox"/> x 3 = _____
4. _____	_____	_____	FACI species (A) <input type="checkbox"/> x 4 = _____
5. _____	_____	_____	UPL species (A) <input type="checkbox"/> x 5 = _____
6. _____	_____	_____	Column Total: (B) <input type="checkbox"/>
7. _____	_____	_____	= Total Cover (C) <input type="checkbox"/>
8. _____	_____	_____	(A/C) <input type="checkbox"/>
9. _____	_____	_____	(B/C) <input type="checkbox"/>
10. _____	_____	_____	(C/C) <input type="checkbox"/>

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply):

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Waterline)
- Sediment Deposits (B2) (Rearthane)
- Drift Deposits (B3) (Rearthane)
- Dry-Season Water Table (C2)
- Crevices/Burrows (C3)
- Surface Soil Cracks (C4)
- Recent Iron Reduction in Tilled Soils (C5)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required):

- Soil Crust (B1)
- Bedrock Crust (B2)
- Aquatic Invertebrates (B3)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizosphere along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C5)
- Shallow Aquifère (D3)
- FAD-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____

Water Table Present? Yes No Depth (inches): _____

Saturation Present? Yes No Depth (inches): _____

Indicate, estimate, None

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection), if available:

Remarks:

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

Depth (inches):	Matrix Color (most):	% Gleyed (most):	Type:	Loam <input type="checkbox"/> Clay <input type="checkbox"/> Sand <input type="checkbox"/>	Root Features:	Indurated <input type="checkbox"/> Weathered <input type="checkbox"/> Remnant <input type="checkbox"/>
10' 0"	T 33 N R 12 E	100%	Clay	Clay	Roots	Indurated <input type="checkbox"/>

Type: C-Cohesiveness, D-Dispersion, R-Reduction, RM=Reduced Matrix, CR=Covered or Coated Sand Grains, Location: PL=Stone Lining, M=Matrix, Indicators for Problematic Hydric Soils:

- Sandy Redox (S1)
- Stripped Matrix (S8)
- Loamy Mucky Mineral (F1)
- Loamy Glazed Matrix (F2)
- Distilled Matrix (F3)
- 1 cm Muck (LRR D)
- Distilled Below Dark Surface (F7)
- Thick Dark Surface (A12)
- Vernal Pools (F8)

Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

- Histosol (A1)
- Histic Epiaquic (A2)
- Black Histic A3)
- Hydrogen Sulfide (A4)
- Stratified Layer (A5) (LRR C)
- 1 cm Muck (LRR D)
- Distilled Below Dark Surface (A11)
- Radic Dark Surface (F7)
- Radix Diagnoses (F8)

Hydric Soil Present? Yes No

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply):

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Waterline)
- Drift Deposits (B2) (Rearthane)
- Dry-Season Water Table (C2)
- Crevices/Burrows (C3)
- Surface Soil Cracks (C4)
- Recent Iron Reduction in Tilled Soils (C5)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required):

- Soil Crust (B1)
- Bedrock Crust (B2)
- Aquatic Invertebrates (B3)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizosphere along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C5)
- Shallow Aquifère (D3)
- FAD-Neutral Test (D5)

Wetland Hydrology Present? Yes No

Remarks:

low spot in it ditch

WETLAND DETERMINATION DATA FORM - Acid West Region

Project/Site:	Schmidt	City/County:	K. Hills	Sampling Date:	10-7-21
Applicant/Owner:		State:	WA	Sampling Point:	D 52
Investigator(s):	Ed Schmidt	Section, Township, Range:	5 32 T 15N R 5 E	Depth (inches):	1/4
Landform (plateau, terrace, etc.):		Local Relief (concave, convex, none):		Depth (inches):	1/4
Substratum (LPPR):		Long:		Depth (inches):	
Soil Map Unit Name:		Lat:		Depth (inches):	
Are climatic / hydrologic conditions on the site typical for the time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any anomalies in Remarks.)				

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

Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Remarks: *dry road / iron gravel present*

VEGETATION - Use scientific names of plants.

Site Stratum (Plot size: _____)	Absolute Dominant Indicator % Cover. Species? Status?	Dominance Test (Number of species that are OBL, FACW, or FAC: (A) _____ (B) _____)	Total Number of Dominant Species Active At Strata: (C) _____	Prevalence Index (Percent of Dominant Species That Are OBL, FACW, or FAC: (D) _____)	Total % Cover of: (E) _____
1. _____	OBL species _____	x 1 = _____	1	100% (FACW)	100% (FACW)
2. _____	FACW species _____	x 2 = _____	1	100% (OBL)	100% (OBL)
3. _____	FAC species _____	x 3 = _____	1	100% (OBL)	100% (OBL)
4. _____	UPL species _____	x 4 = _____	1	100% (OBL)	100% (OBL)
5. _____	Column Total: (F) _____	x 5 = _____	1	100% (OBL)	100% (OBL)
6. _____					
7. _____					
8. _____					
Wood/Vine Stratum (Plot size: _____)	% Total Cover: _____				
1. _____					
2. _____					
% Bare Ground in Herb Stratum: _____	% Cover of Eludic Chrust: _____				
Remarks: <i>none</i>					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	Sampling Point: _____
Depth (inches):	1/4
Matrix:	Loam
Color (inches):	10F
Roots: Feature:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Indicators for Problematic Hydric Soils:	Location: PL - Poorly Drained, MC - Matrix.
Hydro Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
Hillock (A1)	1 cm Muck (A8) (LRR C)
Histic Endosol (A2)	2 cm Muck (A10) (LRR B)
Black Mattic (A3)	Reduced Vertic (F18)
Hydric Gleyed Matrix (A4)	Rust Parent Material (F12)
Stratified Lovel (A5) (LRR C)	Other (Explain in Remarks)
1 cm Muck (A8) (LRR D)	
Depressed Dark Surface (F6)	
Thick Dark Surface (A12)	
Sandy Murky Mineral (S1)	
Sandy Gleyed Matrix (S4)	
Radcliffe Layer (if present):	
Type: _____	
Depth (inches):	
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:	Subsoil Indicators (2 or more required):
Bottom Indicators (minimum of one required at this strata)	Water Marks (S1) (Riverine)
Surface Water (A1)	Sediment Deposits (S2) (Riverine)
High Water Table (A2)	Drift Deposits (S3) (Riverine)
Burration (A3)	Drainage Patterns (B10)
Water Marks (B1) (Marine/Brackish)	Hydrogen Sulfide Odor (C1)
Sediment Deposits (B2) (Marine/Brackish)	Obducted Rhizosphere along Living Roots (C3)
Surface Soil Cracks (B3) (Marine/Brackish)	Presence of Reduced Iron (C4)
Inundation Visible on Aerial Imagery (B7)	Reduced Iron Reduction in Tilled Soils (C5)
Water-Soaked Leaves (B8)	Thin Muck Surface (C7)
	Other (Explain in Remarks)
Fluid Observations:	
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Includes auxiliary items:	
Excessive Runoff Catch (stream gages, monitoring wells, aerial photos, previous inspections), if available:	
Remarks:	

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Schmidt	City/County:	Kittitas	Sampling Date:	10-7-21
Applicant/Owner:		State:	WA	Sampling Point:	D00753
Investigator(s):	Ed Scamill	Section, Township, Range:	S 32 T 18N R 14E	Depth (inches):	%
Landform (Hillsides, terraces, etc.):		Local relief (convex, concave, none):		Soil (inches):	% Total
Substation (L.R.R.):		Lat:		Soil Type (%):	
Soil Map Unit Name:		Long:			
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(If no, explain in Remarks)				
Are Vegetation <input checked="" type="checkbox"/> Soil <input type="checkbox"/> or Hydrology <input type="checkbox"/> significantly disturbed?	Are "Normal Climatic/soil" present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Are Vegetation <input checked="" type="checkbox"/> Soil <input type="checkbox"/> or Hydrology <input type="checkbox"/> naturally problematic?	(If needed, explain any answers in Remarks.)				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Remarks: <i>dry meadow ground surface</i>					

VEGETATION - Use scientific names of plants.

Site Signature (Plot size: _____)	Absolute Dominant Indicator % Cover: _____ Status: _____	Number of Dominant Species That Are OBL, FACW, or FAC: _____
1. _____	_____	(A) _____
2. _____	_____	(B) _____
3. _____	_____	(C) _____
4. _____	_____	(D) _____
Dominant Stratum (Plot size: _____)		
= Total Cover <i>100% ground surface</i>		

Herb Stratum (Plot size: _____)	Total Cover <i>100%</i>	Column Totals: _____ (A) _____ (B) _____
1. OBL species	_____	x 1 = _____
2. FACW species	_____	x 2 = _____
3. FAC species	_____	x 3 = _____
4. FACU species	_____	x 4 = _____
5. UPL species	_____	x 5 = _____
Total % Cover of: <i>100%</i>		
Prevalence Index = $\Sigma A_i / \Sigma B_i$ = <i>1.00</i>		
Prevalence Index = $\Sigma A_i / \Sigma B_i$ = <i>1.00</i>		
Dominance Test > 20%: <i>No</i>		
Prevalence Index is ≤ 3.0 : <i>No</i>		
Morphological Adaptations' (Provide supporting date 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.		
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Remarks:		

SOIL

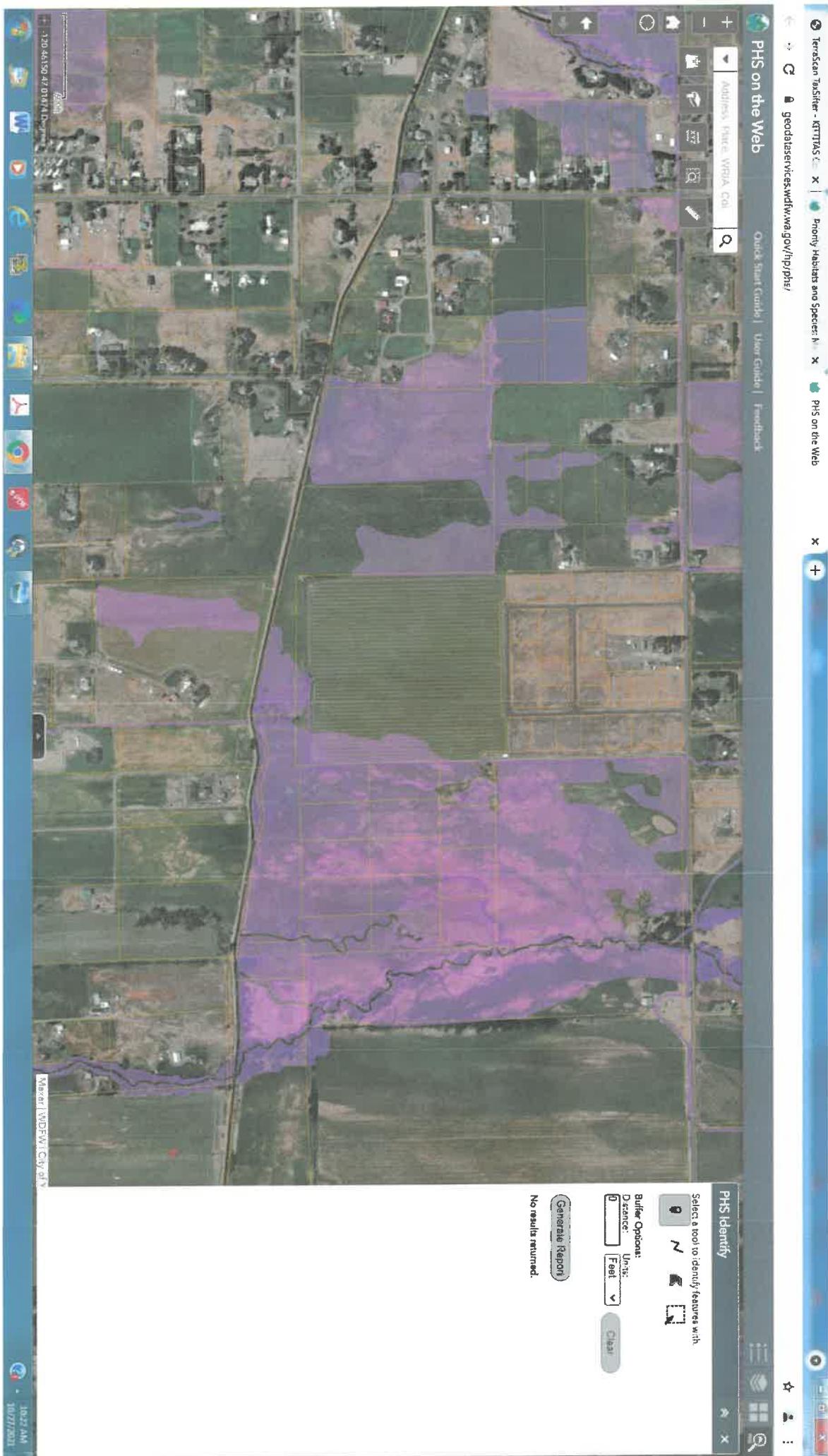
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

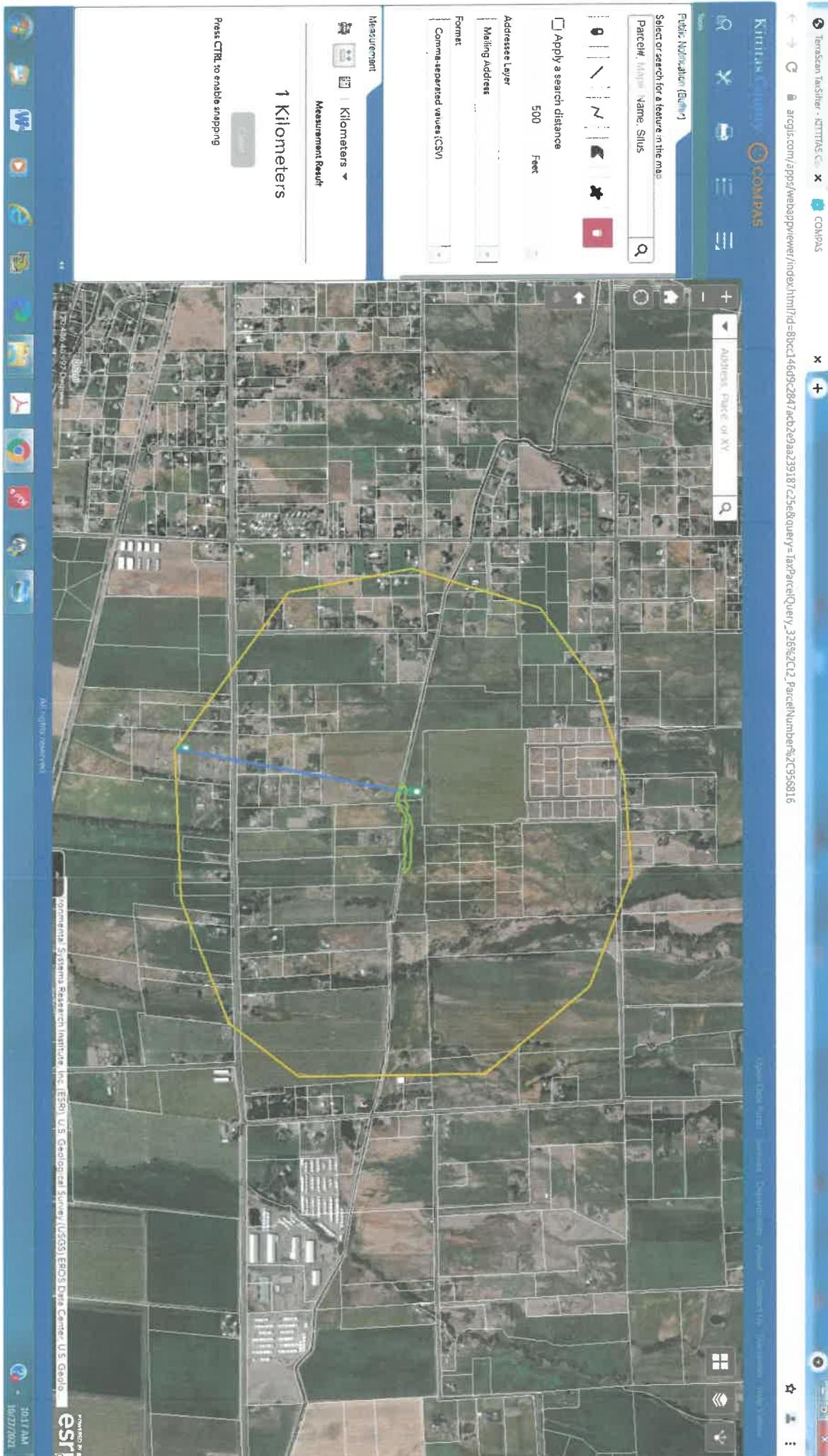
Depth (inches):	Matrix: <i>Cobbles</i>	Color (month): <i>Tan</i>	Roots (inches): <i>0-10</i>
1/2	1/2	3/3	1/2
Soil (%):			
Depth:			
NWI classification:			
Type: C=Concretion, D=Depletion, R=Reduced Matrix, CS=Covered or Coated Sand Grains, L=Location: PL=Pine Linings, McMath.			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)			
Hillock (A1) Sandy Redoxon (S8)			
Hillock Erosion (A2) Shrub Muck (S8)			
Black Muck (A3) Leamy Mucky Matrix (F1)			
Hydrogen Sulfide (A4) Leamy Glayed Matrix (F2)			
Stratified Layer (A5) (LRR C) Depilated Matrix (F3)			
1 cm Muck (A6) (LRR D) Redox Dark Surface (F6)			
Depilated Below Dark Surface (A11) Depilated Dark Surface (F7)			
Thick Dark Surface (A12) Redox Depressions (F8)			
Sandy Nutry Mineral (S1) Vermi Pools (F9)			
Sandy Glayed Matrix (S4)			
Ravinicore Layer (If present):			
Type: _____	Depth (inches): _____		
Remarks:			

Hydric Soil Present? Yes No

Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

1 cm Muck (A8) (LRR C)	2 cm Muck (A10) (LRR B)
Redox Vertic (F18)	Redox Vertic (F12)
Other (Explain in Remarks)	
Field Observations:	
Surficial Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Described Recorded Data (from gauge, monitoring well, aerial photo, previous inspection), if available:	
Remarks:	









DEPARTMENT OF

ECOLOGY

State of Washington

Water Quality Atlas Map

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Usage:

Click on map to add measure points. Double-click to finish.

Unit
Feet

Distance
1,742.98 ft

New measurement

Assessed Water/Sediment Filter Applied [Clear filters](#)

Zoom to selection [Table to CSV](#)

Find	Listing ID	Assessment Unit ID	Category	Medium	Parameter	Details
44	66746	170200011202_01_01	5	Water	Dissolved Oxygen	View
44	11253	170200050203_01_01	5	Water	Temperature	View
44	42784	170200050203_01_01	5	Water	Dissolved Oxygen	View

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