

Sewall Wetland Consulting, Inc.

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December 18, 2023

Jeff Stubbs Wildwood Ranch LLC PO Box 895 Roslyn, Washington 98941

RE: Critical Area Report - Wildwood Ranch City of Cle Elum,

Washington

SWC Job #23-174

This report describes our observations of any jurisdictional wetlands or streams and/or buffers on or within 200' of Parcels #623134 & #063034 located south of Deer Meadow Drive in the City of Cle Elum, Washington (the "site").



Above: Vicinity Map of the site

The site consists of two abutting, irregular shaped parcels, with a total area of 11.74 acres located within the SE ¼ of Section 25, Township 20 North, Range 15 East of the W.M. The site consists of mowed pasture and a vacant single family home on the southwest portion of the site.



Above: 2015 aerial photograph of the site from Kittitas Taxsifter website

#### **METHODOLOGY**

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site on November 10, 2023. 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 Cle Elum 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.

Wetlands in the City of Cle Elum are rated 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.

The ordinary high water mark (OHWM) of any streams was located based upon the criteria described in the Washington Department of Ecology publication *Determining The Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State* (WADOE Publication 16-06-029, March 2010 revised October 2016).

#### **OBSERVATIONS**

Existing Site Documentation.

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

### **Kittitas County Taxsifter Website**

The Kittitas County Taxsifter website with wetland, stream and floodplain layers activated depicts the man-made pond on the southeast corner of the site as an unconsolidated bottom pond. In addition, a Type F water is depicted north of the site and Deer Meadow Drive.



Above: Kittitas County Taxsifter website with wetland and stream layers.



Above: Kittitas County Taxsifter website with floodplain layer.

# **WADNR Fpars Stream Type Mapping**

According to the WADNR Fpars Stream Type mapping website, the pond located on the southeast corner is depicted as a fish bearing pond, and the stream off-site to the north is depicted as a Type F water.



Above: WDNR Fpars water type mapping of the site.

## **National Wetland Inventory**

According the NWI mapping of the site, the same features depicted on the County website are shown. This mapping was never field verified by USFWS and is a 1983 aerial photograph interpretation of wetlands. It should be noted the county mapping is a re-depiction of these features shown on the NWI map.



The wetlands and deepwater habitats in this area were photo interpreted using **1:58,000** scale, **color infrared** imagery from **1983**.

Above: National Wetland Inventory Map of the site.

# Washington Department of Fish and Wildlife Priority Habitats Data Search

According to the WDFW Priority Habitat Website with Public access layers activated, the same features on the NWI mapping are shown. In addition the site is in a Township in which the sharp-tailed snake occurs, as well as the Northern Spotted Owl. The site area depicted as potential shrub steppe in scattered rectangular shapes which do not coincide with any current landscape feature on the site.



Above: WDFW Priority Habitats and Species Map of the area of the site.

## **NRCS Soil Mapping Website**

According to the NRCS soil mapping of the site, the site is mapped as Patnish-Mippon-Myzel complex soils. These are moderately well drained soils formed in alluvium with a mx of volcanic ash in the upper part. Patnish-Mippon-Myzel complex soils are not considered wetland or "hydric soils, according to the USDA SCS publication No. 1491 "Hydric Soils of the United States".



Above: NRCS Soil Survey Map of the site

#### Field observations

The site consists of a large mowed pasture on the north and east with a vacant single family home with several outbuildings on the south west corner of the site. A man-made pond is located along the southeast corner of the site. Scattered cottonwood and rose are found along the edge of the pond which was drawn down at the time of our fieldwork to a cobble bottom feature with some ponded water.

The site is vegetated with a mix of quackgrass, prickly lettuce, and Canadian thistle throughout.

Soil pits excavated throughout the site revealed dry, sandy loams with soil colors ranging from 7.5YR 2.5/3 to 0YR 3/3 with no hydric indicators nor evidence of wetland hydrology



Above: Kittitas County Lidar depicting site topography.

The man-made pond is an old borrow pit and clearly a man-made feature. Generally man-made ponds are not regulated as wetlands or jurisdictional waters.

### **Off-site Critical Areas**

Off-site to the north of the site and Deer Meadow Drive, there is a mapped Type F stream. We did not have access to this site but an apparent swale is evident.

The characteristics of the channel are unknown but the various inventories identify it as a Type F water.

Table 18.01-5. Stream Buffer Requirements

Stream Type	Standard Buffer Width
Type F	50 ft
Туре №р	25 ft
Type Ns	25 ft

According to Table 18.01-5, Type F streams in the City of Cle Elum have a 50' buffer measured from the OHWM of the stream. This 50' buffer does not appear to extend onto the site.



Above: Depiction of the location of the Type F stream located off-site to the north.

### Conclusion

There are no wetlands, streams or buffers on the site.

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

Sincerely,

Sewall Wetland Consulting, Inc.

Ed Sewall

Senior Wetlands Ecologist PWS #212

Attached: Site Plan

Data sheets

#### REFERENCES

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

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

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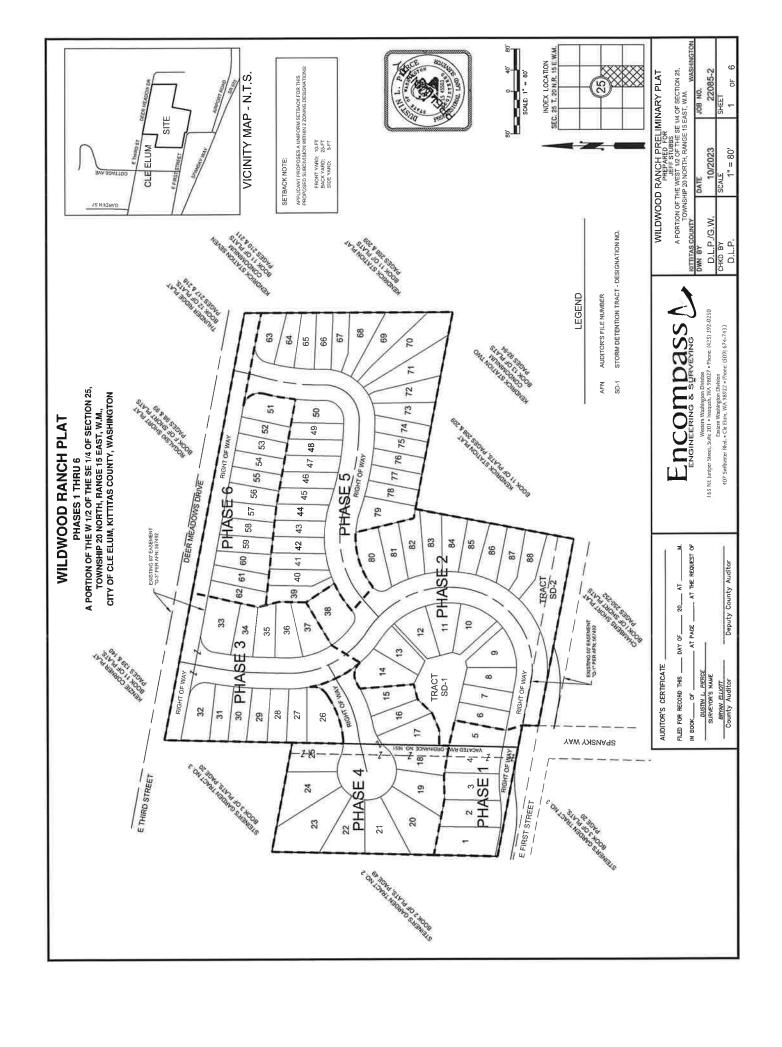
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Reed, P.B. Jr. 1993. 1993 Supplement to the list of plant species that occur in wetlands: Northwest (Region 9). USFWS supplement to Biol. Rpt. 88(26.9) May 1988.

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



behind home

WETLAND DETERMINATION DATA FORM - Arid West Region \_\_\_\_ City/County: \_\_\_ C/e 51... Sampling Date: \_\_\_ Project/Site: State: WA Sampling Point: Applicant/Owner: Seml Section, Township, Range: \_ Investigator(s): Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): \_\_\_\_\_\_ Slope (%): \_\_\_\_ Long: Datum: Subregion (LRR): \_\_\_\_\_NWI classification: \_\_\_ Soil Map Unit Name: \_\_\_\_\_ Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ No \_\_\_\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_ \_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes \_\_\_ Is the Sampled Area \_ No \_\_ **′** Hydric Soil Present? within a Wetland? No\_ Wetland Hydrology Present? Yes \_\_\_ Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status Tree Stratum (Plot size: \_\_\_\_\_) Number of Dominant Species That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species \_\_\_\_ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_ FACW species x2= FAC species x2= /80 FACU species \_\_ \_\_\_\_\_ = Total Cover Herb Stratum (Plot size: \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_ 1. Ag-opyron rows Column Totals: \_ Lactica seniola Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_ Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) = Total Cover Woody Vine Stratum (Plot size: <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic \_\_\_\_ = Total Cover Vegetation % Bare Ground in Herb Stratum \_\_\_\_\_ % Cover of Biotic Crust \_\_\_\_ Present? Remarks:

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Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.   *Location: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Histic Epipedon (A2)   Singped Matrix (SB)   2 cm Muck (A9) (LRR C)   Singped Matrix (SB)   2 cm Muck (A10) (LRR B)   Singped Matrix (SB)   2 cm Muck (A10) (LRR B)   Singped Matrix (SB)   2 cm Muck (A10) (LRR B)   Coated Dark Surface (F11)   Redox Dark Surface (F12)   Redox Dark Surface (F13)   Depleted Dark Surface (F13)   Depleted Dark Surface (F13)   Depleted Dark Surface (F13)   Acceptable (F14)   Redox Dark Surface (F15)   Redox Dark Surface (F15)   Redox Dark Surface (F16)   Vernal Pools (F9)   Vernal Poo	Depth (inches)	Matrix Color (moist) %			Loc <sup>2</sup> Teyture Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Cowered or Coated Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Cowered or Coated Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Cowered or Coated Sand Grains.  Type: C=Concentration, D=Depletion RM=Reduced Matrix, CS=Cowered or Coated Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, S=Cowered or Coated Sand Grains.  Type: C=Concentration, D=Depletion RM=Reduced Matrix, S=Cowered or Coated Sand Grains.  Third Matrix, S=Cowered Sand Grains.  Third Day Matrix, S=Cowered Vertic (F16)  Third Day Matrix, S=Cowered Vertic (F16)  Third Day Matrix, S=Cowered Vertic (F16)  Sandy Mucky, Mineral (S1)  Sandy Mucky, Mineral (S1)  Sandy Mucky, Mineral (S1)  Sandy Gleyed Matrix, (S4)  Redix Depressions (F8)  Vernal Pools (F9)  Third Day Matrix, S=Cowered Matrix, S=Cowered Sand Grains.  Type: Set Crust (S11)  Sandy Mucky, Mineral (S1)  Third Sandy Mucky, Mineral (S1)  Sandy Mucky, Mineral (S1)  Wetter Marke, (S1) (Rivertine)  Hydric Soil Present? Yes No Obdition of Note of		,	COIG (IIIOSI)		TOTAL TOTAL
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  **Location: PL=Pore Lining, M=Matrix, Infess otherwise noted.**)  Hydric Soll Indicators (Applicable to all LRRs., Infess otherwise noted.*)  Histio Epipedro (A2)  Histio Epipedro (A2)  Stripped Matrix (SB)  Black Histic (A3)  Loarny Mucky Mineral (F1)  Loarny Mucky Mineral (F1)  Loarny Mucky Matrix (P3)  Loarny Mucky Multin (P3)  Loarny Mucky Multin (P3)  Loarny Mucky Multin (P3)  Sandy Redox Dents Surface (F7)  Redox Dents Surface (F7)  Sandy Mucky Multin (S1)  Sandy Redox Matrix (P3)  Sandy Redox Matrix (P3)  Restrictive Layer (if present):  Type:  Depth (inches):  Hydric Soil Present? Yes No  Secondary Indicators (2 or more required)  Surface Water (A1)  High Water Table (A2)  Sald Crust (B12)  Sald Crust (B14)  Sediment Deposits (B2) (Rivertine)  Hydric Soil Present (R1)  Solfice Crust (B12)  Sediment Deposits (B2) (Rivertine)  Drift Deposits (B1) (Monrivertine)  Solfice (B1) (Monrivertine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (R7)  Water Marke (B1) (Monrivertine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (R7)  Water Marke (B1) (Monrivertine)  Depth (Inches):  Depth (Inches):  Solfice (B1) (Monrivertine)  Solfice	-0				51.6-
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	14	10 40 313			
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)					
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)					
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)					
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)		· · · · · · · · · · · · · · · · · · ·			
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)					
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)					
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)					
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)					2 " " " " " " " " " " " " " " " " " " "
Histosal (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loarny Mucky Mineral (F1) Reduce Ortic (F18) Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Other (Explain in Remarks)  I cm Muck (A9) (LRR D) Pepleted Matrix (F2) Other (Explain in Remarks)  Pepleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Present (F9)  Sandy Mucky Mineral (S1) Vernal Pools (F9) Present (F9)  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apoly) Surface Water (A1) Saturation (A3) Hydric Soil Present? Yes No  Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Water (A1) Depleted Sedic Cript (C4) Surface (B1) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No Depth (inches):					
Histic Epipedon (A2)   Stripped Matrix (Se)   2 cm Muck (A10) (LRR 8)	-	• • •	1	· ·	•
Black Histlic (A3)		• •		• •	
Hydrogen Sulfide (A4) Straffled Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches):  Depth (inches):  Hydric Soli Present? Frimary Indicators (minimum of one required; check all that apply) Surface Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Surface Soil Cracks (B6) Nordiversity Surface (B7) Recent Iron Reduction in Tilled Solis (C8) Recent Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B8) Free Care Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B8) Free Care Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B6) Free Care Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B6) Free Care Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B6) Free Care Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B6) Free Care Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B6) Free Care Iron Reduction in Tilled Solis (C8) Surface Soil Cracks (B6) Free Care Iron Reduction in Tilled Solis (C8) Surface Water Present? Free No Depth (inches):  Seturation				• •	
Stratified Layers (AS) (LRR C) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches):  Remarks:    Hydric Soli Present?   Sandy Mucky Mineral (S1) Surface Water Table (A2) Surface Water (A1) Salt (Nonriverine) Salt (Nonriverine) Secondary Indicators (2 or more required) Salturation (A3) Water Marks (B1) (Nonriverine) Depth (inches): Depth (inches): Secondary Indicators (2 or more required) Surface Water (A1) Salturation (A3) Water Marks (B1) (Nonriverine) Depth (Inches): Secondary Indicators (2 or more required) Surface Water (A1) Salturation (A3) Salturation (A3) Salturation (A3) Secondary Indicators (B12) Secondary Indicators (C2 or more required) Surface Water (A1) Self Crust (B12) Salturation (A3) Surface Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soli Cracks (B6) Recent Iron Remarks) Field Observations: Surface Water Present? Yes No Depth (Inches): Wetfand Hydrology Present? Yes No Depth (Inches): Wet	_	• •			,
1 cm Muck (A9) (LRR D)				, .	<del>-</del> ' ' '
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muky Mineral (S1) Sandy Gleyed Matrix (S4)  Restrictive Layer (if present): Type: Depth (Inches):  Depth (Inches):  Primary Indicators (Thinimum of one required; check all that apply) Surface Water (A1) Saturation (A3) Water Marks (B4) Saturation (A3) Water Marks (B4) Saturation (A3) Water Marks (B4) Water Marks (B4) (Individual invertebrates (B13) Water Marks (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Water Stained Leaves (B3) Other (Explain in Remarks) Depth (inches): Surface Water Present? Yes No Depth (inches): Wetsand Hydrology Present? Yes No Depth (inches): Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ı <del>—</del>			, ,	Other (Explain in Remarks)
Thick Dark Surface (A12)	_			' '	
Sandy Mucky Mineral (S1)		, ,		• •	<sup>3</sup> Indicators of hydrophytic vecetation and
Sandy Gleyed Matrix (S4)  Restrictive Layer (If present):  Type: Depth (Inches):  Hydric Soli Present? Yes					* * * *
Restrictive Layer (if present): Type: Depth (Inches): Hydric Soli Present? Yes No  Remarks:  Hydric Soli Present? Yes No  Remarks:  Hydric Soli Present? Yes No  Remarks:  Hydric Soli Present? Yes No  Secondary Indicators (2 or more required) Seturation (An) Seturation (	_ ,	• • •		(, ,	V
Type:					
Remarks:    Hydric Soli Present? Yes No   No   No   No   No   No   No   No					
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (Art)  High Water Table (A2)  Sattration (A3)  Water Marks (B1) (Riverine)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)  Sediment Deposits (B2) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)  Sediment Deposits (B3) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Seturation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		rchae).			Hydric Soil Present? Ves No
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) (Nonriverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C8)  Water Stained Leaves (B9)  Other (Explain in Remarks)  Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aertal photos, previous inspections), if available:		ules).			Trydric Son Fresenti Tes NO
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Mydrogen Sulfide Odor (C1)  Drainage Patterns (B10)  Sediment Deposits (B3) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Depth (inches):  Seturation Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Seturations, if available:	Remarks:				
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Mydrogen Sulfide Odor (C1)  Drainage Patterns (B10)  Sediment Deposits (B3) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Depth (inches):  Seturation Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Seturations, if available:					
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Mydrogen Sulfide Odor (C1)  Drainage Patterns (B10)  Sediment Deposits (B3) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Depth (inches):  Seturation Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Seturations, if available:					
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Mydrogen Sulfide Odor (C1)  Drainage Patterns (B10)  Sediment Deposits (B3) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Depth (inches):  Seturation Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Seturations, if available:					
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Riverine)  Biotic Crust (B12)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Thin Muck Surface (C7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No  Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	HYDROLO	)GY			
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Riverine) Deposits (B1) (Riverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B1) (Deposits (B1) (Riverine) Sediment Deposits (B1) (Riverine) Sediment	Wetland Hy	drology Indicators:			
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Dvift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water-Stained Leaves (B9)  Thin Muck Surface (C7) Shallow Aquitard (D3) Field Observations: Surface Water Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indi	cators (minimum of one required	check all that app	lv)	Secondary Indicators (2 or more required)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Dvift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water-Stained Leaves (B9)  Thin Muck Surface (C7) Shallow Aquitard (D3) Field Observations: Surface Water Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface	Water (A1)	Salt Crus	(B11)	Water Marks (B1) (Riverine)
Saturation (A3)	1	· · ·			<del></del>
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Surface Reduced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Factorial Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			-	` '	
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Saturation Present? Yes No Depth (inches):	_	• •			_ : . : . : .
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Factorial Test (D5) Saturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): No No	1		55.7		
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present?	I —		-		
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3)  Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	_				- ' '
Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-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):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	1—		U		—
Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	I —		-	• •	
Surface Water Present? Yes No			Other (EX	piani in remarks)	FAC-Nedual Test (DS)
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No	500000000000000000000000000000000000000		. /		
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		·			,
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table	Present? Yes	loDepth (ir	iches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			lo Depth (ir	iches):	Wetland Hydrology Present? Yes No
			nitoring well portal	nhatan province inana	etions) if available:
Remarks:	Describe Re	sconded Data (stream gauge, mo	nitoring well, aenar	huoros, breatone meba	Guoria), ii availabie.
Remarks:					
	Remarks:			€	
	1				

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# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Wildwad 7	Zelek City/County: C	le Elm Sampling Date: 11-10-3
Applicant/Owner:		State: WA Sampling Point: DP#3
investigator(s):	Section, Township, Ran	ge:
Landform (hillslope, terrace, etc.):		onvex, none): Slope (%):
Subregion (LRR):		Long: Datum:
Soil Map Unit Name:		
Are climatic / hydrologic conditions on the site typic	and for this time of year? Yes	NWI classification:
		Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		
Are Vegetation, Soil, or Hydrology		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	map snowing sampling point id	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No is the Sampled	Area
Hydric Soil Present? Yes		
Wetland Hydrology Present? Yes	No	103
Remarks:		
VEGETATION – Use scientific names	of plants.	
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover Species? Status	Number of Dominant Species
1. Populus bulsalun	40 FAC	That Are OBL, FACW, or FAC:
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1. Rosa 5pp	30 FAC	Prevalence Index worksheet:
2.	THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O	Total % Cover of: Multiply by:
3.		OBL species x1 =
4.		FACW species x 2 =
5.		FAC species x3 =
	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)	60 FAL	UPL species x 5 =
1. Hardina Lin		Column Totals: (A) (B)
2	<del> </del>	Decimients Index o D/A -
3	<del> </del>	Prevalence Index = B/A =
4.	<del></del>	Cominance Test is >50%
5		Prevalence Index is ≤3.0¹
6		Morphological Adaptations¹ (Provide supporting
7		data in Remarks or on a separate sheet)
8	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:		
1.		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2		be present, unless disturbed or problematic.
*	= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum	% Cover of Blotic Crust	Vegetation Present? Yes No
Remarks:		100
Mathanto,		

SOI	1
30	

ampling Point:

	ription: (Describe	to the depth ne	0.735575			or confirm	the absence	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)		olor (moist)	ox Feature %	_Type <sup>1</sup>	_Loc2	Texture		Remarks	
16	10n 3/3		JIOI TITTOISIT	- 79			- 10 /B	1-	Tacinarka	
	1010)13		-				and of	/		
		<del></del>		-3				U. <del>-</del>		
							. 2.			
	oncentration, D=Depl Indicators: (Applications)					d Sand Gr			Pore Lining, M matic Hydric 8	
•	•				<b></b> ,				-	
Histosol	pipedon (A2)	_	_ Sandy Red _ Stripped M					Muck (A9) (I Muck (A10)	•	
	istic (A3)		_ Loamy Mu	, ,	1 (54)			ced Vertic (F	•	
	en Sulfide (A4)	_	_ Loamy Gle					Parent Mater	•	
	d Layers (A5) (LRR C	-	_ Depleted N	-	\ \' ~)			(Explain in I	• •	
	ck (A9) (LRR D)		Redox Dar		(F6)		58161	/		
	d Below Dark Surface	- (A11)	_ Depleted D		• '					
	ark Surface (A12)	_	Redox Dep				3Indicators	s of hydroph	ytic vegetation :	and
_	fucky Mineral (S1)	_	Vernal Poo	•	,				nust be present	
	Sleyed Matrix (S4)	_	_	( -/					problematic.	•
	Layer (if present):	-								
Type:										
	ches):						Hydric Sol	I Procent?	Yes	No /
	uies)						riyane so	II F 1656IK I	169	.40
Remarks:										
			1							
HYDROLO	GY			****					5112525	
	drology Indicators:									
The state of the s			-1	L.A			C			
	cators (minimum of o	ne required; che					AND THE STREET, SAN THE STREET		ators (2 or more	
_	Water (A1)	5	Salt Crus	•					(B1) (Riverine	
•	ater Table (A2)	5	Biotic Cru						eposits (B2) (Rt	-
Saturati	on (A3)	9		vertebrate			_		s (B3) (Riverin	e)
Water N	larks (B1) ( <b>Nonrive</b> ri	ine)		Sulfide O					ttems (B10)	
Sedime	nt Deposits (B2) ( <b>No</b>	enhevina)	Oxidized	Rhizosphe	res along	Living Roo	ots (C3)	Dry-Season	Water Table (C	2)
Drift De	posits (B3) (Nonrive	rine)	Presence	of Reduce	ed Iron (C	4)	_ '	Crayfish Bur	rows (C8)	
Surface	Soil Cracks (B6)	9	Recent In	on Reduct	lon in Tille	d Solls (C6	5) :	Saturation V	isible on Aerial	Imagery (C9)
Inundat	ion Visible on Aerial I	magery (B7)	Thin Muc	k Surface	(C7)		;	Shallow Aqu	itard (D3)	
Water-S	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)		1	FAC-Neutral	Test (D5)	
Fleid Obser	vations:		1							
Surface Wat	ter Present? Y	esNo	Depth (in	iches):						
Water Table		es No		,		-				
			1				and Usedania	or December	. V	11-
Saturation P	resent? r pillary fringe)	es No	Debru (ii	nches):		- Asen	and Hydrolog	gy Present	165	No
	corded Data (stream	gauge, monitori	ng well, aerial	photos, pr	revious ins	pections),	if available:			
	•	- <del>-</del> ·				•				
Remarks:										
i veindire.										

WETLAND DETERMINATION DATA FORM - Arid West Region

Cute of Jage porter

Project/Site: Wildward 1	Zueh City/County: Ch	Sampling Date: //-10 -
Applicant/Owner:		State: WA Sampling Point: DP#4
Investigator(s): Ed Semi	Section, Township, Ra	nge;
		convex, none): Slope (%):
Subregion (LRR):		Long: Datum:
Soil Map Unit Name:		NWi classification:
Are climatic / hydrologic conditions on the site typica		1 - 1 - M
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		eeded, explain any answers in Remarks.)
		ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	Is the Sampleo	
Wetland Hydrology Present? Yes	No within a Wetlan	nd? Yes No
Remarks:	<del>                                     </del>	The second of th
United Company		
VEGETATION – Use scientific names of		
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1	The second second	Number of Dominant Species That Are OBL, FACW, or FAC:
2		
3		Total Number of Dominant Species Across All Strata: (B)
4		
	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:		Prevalence Index worksheet:
1. 2.		Total % Cover of: Multiply by:
3		OBL species x1=
4.		FACW species x 2 =
5		FAC species x 3 =
	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)	60 NI	UPL species x 5 =
		Column Totals: (A) (B)
2.	<del> </del>	Prevalence Index = B/A =
3. 4.		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.01
7		Morphological Adaptations <sup>1</sup> (Provide supporting
8		data in Remarks or on a separate sheet)
	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1.		be present, unless disturbed or problematic.
2	= Total Cover	Hydrophytic
		Vegetation
	6 Cover of Biotic Crust	Present? Yes No
Remarks:		
	1	

Sampling Point: D/#4

(Inches) Coor (molst) % Color (molst) % Type Loc Texture Remarks    Program   Program	Color (molst)	Depth Matrix	Redox Features	
ydric Soli Indicators: (Applicable to all LRRa, unless otherwise noted.)  Histosol (A1)	ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)	inches) Color (molst) % C		
VDROLOGY Vetland Hydrology Indicators:  **Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soll Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Seaturation Present?  Ves  No  Depth (inches):  Seaturation Present? Yes  No  Seaturat	VDROLOGY  Vettand Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Aquatic Invertebrates (B13)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soll Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Water-Stained Leaves (B9)  Diptr (Explain in Remarks)  Depth (inches):  Water Table Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	lydric Soli Indicators: (Applicable to all LRR  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type:	Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)	Indicators for Problematic Hydric Solls <sup>3</sup> :  1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Vettand Hydrology Indicators:  Irimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Satt Crust (B12)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water Stained Leaves (B9)  Other (Explain in Remarks)  Depth (inches):  Vater Table Present?  Yes No  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vettand Hydrology Indicators:  Irimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Satt Crust (B11)  Setic Crust (B12)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Sediment Deposits (B3) (Riverine)  Deposits (B3) (Riverine)  Crayfish Burrows (C8)  Seturation Visible on Aerial Imagery (C2)  Thin Muck Surface (C7)  Shalfow Aquitard (D3)  FAC-Neutral Test (D5)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Depth (inches):  Sediment Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Drift Deposi			Hydric Son Present? Tes NO
Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Surface Water (A1)  High Water Table (A2)  Satt Crust (B12)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Riverine)  Drainage Patterns (B10)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Presence of Reduced Iron (C4)  Surface Soll Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Feld Observations:  Surface Water Present?  Ves No  Depth (inches):  Settration Present?  Yes No  Depth (inches):  Settration Present?  Yes No  Depth (inches):  Settration Present?  Yes No  Depth (inches):  Settration Present? Yes No	Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soll Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B1)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B13)  Drift Deposits (B3) (Riverine)  Drift Deposits (B13)  Drift Deposits (B10)  Drainage Patterns (B	YDROLOGY		
Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Riverine)  Aquatic Invertebrates (B13)  Drift Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)  Drainage Patterns (B10)  Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Depth (inches):  Saturation Present?  Yes  No  Drainage Patterns (B10)  Drainage Patterns (B10)  Drainage Patterns (B10)  Drainage Patterns (B10)  Drainage Patterns (B1	Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Dry-Season Water Table (C2)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Sediment Deposits (B3) (Riverine)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Seturation Visible on Aerial Imagery (C)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Seturation Present?  Yes No Depth (Inches):  Seturation Present? Yes No Depth			
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Ves No Depth (inches): Saturation Present? Ves No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (C5 Saturation Visible on A	High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine)  Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Seturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Factorial Test (D5)  Water Table Present?  Wes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):			0
Aquatic Invertebrates (B13)	Aquatic Invertebrates (B13)	Primary Indicators (minimum of one required; ch		
Water Marks (B1) (Nonriverine)	Water Marks (B1) (Nonriverine)	Primary Indicators (minimum of one required; ch Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Tinin Muck Surface (C7)  Water-Stained Leaves (B9)  Depth (inches):  Surface Water Present?  Westand Hydrology Present? Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Tield Observations:  Surface Water Present?  Wes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Living Roots (C3)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soll Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (CS Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Staturation Present?	Drift Deposits (B3) (Nonriverine)	Primary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Surface Soll Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation Visible on Aerial Imagery (C5 Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Staturation Staturation Present?	Surface Soil Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation Visible on Aerial Imagery (C Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Vater-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Shallow Aquitard (D3) Shallow Aquitard (D3) FAC-Neutral Test (D5)	Primary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrivarine)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-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):  Seturation Present? Yes No Depth (inches):  Includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Security finge)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators (minimum of one required; ch.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)  Roots (C3) Dry-Season Water Table (C2)
Field Observations:  Surface Water Present? Yes No Depth (inches):	Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Cincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators (minimum of one required; ch.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)  g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Cincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water Present? Yes No Depth (inches):	Primary Indicators (minimum of one required; ch.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soll Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Sol	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C8)
Nater Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present? Yes No	Primary Indicators (minimum of one required; ch.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soll Cracks (B6)  Inundation Visible on Aerial Imagery (B7)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present? Yes No	Primary Indicators (minimum of one required; ch.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soll Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No _	Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators (minimum of one required; ch.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soll Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sol Thin Muck Surface (C7) Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
		Primary Indicators (minimum of one required; ch.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sol Thin Muck Surface (C7) Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Remarks:	Remarks:	Primary Indicators (minimum of one required; ch.  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Saturation Present? Yes No Saturation Present? Yes No Sincludes capillary fringe)	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sol Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) ls (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
		Primary Indicators (minimum of one required; ch.  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Saturation Present? Yes No Saturation Present? Yes No No	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sol Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) ls (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
		Primary Indicators (minimum of one required; ch.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soll Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No  Water Table Present? Yes No  Saturation Present? Yes No  Saturation Present? Yes No  Saturation Present? Yes No  Saturation Present? Yes No  Sincludes capillary fringe)  Describe Recorded Data (stream gauge, monitor	Selt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sol Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) ls (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No