## WETLAND DETERMINATION DATA FORM Great Plains Region

Are Vegetation Are Vegetation SUMMARY CO Hydrophytic V	I75ADepression0 - 2%nydrologic coonQonQSoilOFFINDINGVegetation P	Lati nditions on the site typ □, or Hydrology □si □, or Hydrology □a S resent?	gnificantly c aturally prob	<mark>561</mark> time of yea listurbed?	cal Relief: Longitude:	NW LC -96.353 Iain in rema	l Classification: 520 arks) e normal circum ☑ Yes	Istances pre □ No Hydric Soil	<ul> <li>No</li> <li>esent?</li> <li>s Present?</li> </ul>	Township: Range: Yes	08/25/14 Pennington MN w-154n44w18-g2 Dir:
Wetland Hyd Remarks:	Wetland Hydrology Present?       Yes       Is This Sampling Point Within A Wetland?       Yes         Remarks:       A shallow marsh in a roadside ditch.       The wetland grades into sedge meadow in small areas, but overall is a shallow marsh.       All parameters of wetland										
conditions are met. HYDROLOGY											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):       Secondary:         Primary:       A1 - Surface Water       B11 - Salt Crust       B6 - Surface Soil Cracks         A2 - High Water Table       B13 - Aquatic Fauna       B8 - Sparsely Vegetated Concave Surface         A3 - Saturation       C1 - Hydrogen Sulfide Odor       B10 - Drainage Patterns         B1 - Water Marks       C2 - Dry Season Water Table       B10 - Drainage Patterns         B2 - Sediment Deposits       C3 - Oxidized Rhizospheres on Living Roots (not tille       C8 - Crayfish Burrows         B3 - Drift Deposits       C7 - Thin Muck Surface       D2 - Geomorphic Position         B5 - Iron Deposits       Other (Explain)       D2 - Geomorphic Position         B7 - Inundation Visible on Aerial Imagery       Other (Explain)       D5 - FAC-Neutral Test         B9 - Water-Stained Leaves       B9 - Water-Stained Leaves       D7 - Frost-Heaved Hummocks (LRR F)											
Field Observations:       Surface Water Present? Yes       Depth:       (in.)         Water Table Present?       Yes       Depth:       (in.)         Saturation Present?       Yes       Depth:       0         O       (in.)       Wetland Hydrology Present?       Y											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:         Remarks:       The soil is saturated to the surface. Aquatic snails are present. Wetland hydrology is present.											
SOILS Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)											
Matrix				Mottles							
Depth (In.) 0-1	Hue_10YR	Color (Moist)	% 100	Color (I	Moist)	%	Туре	Location	Texture		Remarks
	1							1	1	1	

NPCS Hydric Soil Field Indicators (check here if indicators are not present).

	A1- Histosol A2 - Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) A11 - Depleted Below Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix	<ul> <li>S5 - Sandy Redox</li> <li>S6 - Stripped Matrix</li> <li>F1 - Loamy Mucky Mineral</li> <li>F2 - Loamy Gleyed Matrix</li> <li>F3 - Depleted Matrix</li> <li>F6 - Redox Dark Surface</li> <li>F7 - Depleted Dark Surface</li> <li>F8 - Redox Depressions</li> <li>F16 - High Plains Depressions (ML)</li> </ul>	Indicators for Problematic Soils <sup>1</sup> A9 - 1 cm Muck (LRR I, J)         A16 - Coast Prairie Redox (LRR F, G, H)         S7 - Dark Surface (LRR G)         F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)         F18 - Reduced Vertic         TF2 - Red Parent Material         TF12 - Very Shallow Dark Surface         Other (Explain in Remarks)				
Restrictive Laye Remarks:		Depth:	Hydric Soil Present? Y				

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Project/Site:	L3R				Sample Point: w-154n44w18-g2	
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)			
Tree Stratum	(Plot size: 30 ft. radius)					
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet	
1.						
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)	
3.						
4.					Total Number of Dominant Species Across All Strata: 3 (B)	
5.						
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)	
7.						
8.					Prevalence Index Worksheet	
9.					Total % Cover of: Multiply by:	
10.					OBL spp. 77 X 1 = 77	
	Total Cover =	0			FACW spp. $31$ x 2 = $62$	
	-				FAC spp. 0 $x 3 = 0$	
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				OBL spp.       77       X       1 =       77         FACW spp.       31       X       2 =       62         FAC spp.       0       X       3 =       0         FACU spp.       0       X       4 =       0	
<u> </u>	Salix petiolaris	15	Y	OBL	UPL spp. 0 $\times$ 5 = 0	
2.						
3.					Total 108 (A) 139 (B)	
4.						
5.					Prevalence Index = $B/A = 1.287$	
6.						
7.						
8.					Hydrophytic Vegetation Indicators:	
9.					Rapid Test for Hydrophytic Vegetation	
10.					X Dominance Test is > 50%	
10.	Total Cover =	15			$\frac{1}{X} \qquad \text{Prevalence Index is } 3.0 \text{ *}$	
		15				
					Morphological Adaptations (Explain) *	
	Plot size: 5 ft. radius)		Y		Problem Hydrophytic Vegetation (Explain) *	
1.	Schoenoplectus acutus	30	•	OBL		
2.	Carex lasiocarpa	30	Y	OBL	* Indicators of hydric soil and wetland hydrology must be	
3.	Mentha arvensis	15	<u>N</u>	FACW	present, unless disturbed or problematic.	
4.	Phalaris arundinacea	10	<u>N</u>	FACW	Definitions of Vegetation Strata:	
5.	Juncus arcticus	5	N	FACW		
6	Lycopus asper	1	N	OBL	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast	
7.	Argentina anserina	1	N	FACW	height (DBH), regardless of height.	
8.	Carex buxbaumii	1	N	OBL		
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.	
10.						
11.						
12.					Herb - All herbaceous (non-woody) plants, regardless of size.	
13.						
14.						
15.					Woody Vines - All woody vines, regardless of height.	
	Total Cover =	93				
	-					
Woody Vine St	ratum (Plot size: 30 ft. radius)					
1.						
2.						
3.					Hydrophytic Vegetation Present? Y	
5.						
4.	<u>,</u>					
···	Total Cover =	0				
Remarks: A shallow marsh community dominated by hardstem bulrush and woolly sedge in a roadside ditch. Hydrophytic vegetation is present.						
A shallow marsh community dominated by hardstern bundsh and woolly sedge in a roadside ditch. Trydrophytic vegetation is present.						
Additional F	Remarks:					