## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators: Soil Unit: Landform: Slope (%): Are climatic/h Are Vegetatic Are Vegetatic SUMMARY O Hydrophytic V Wetland Hyd	I70A         Dip         3 - 7%         nydrologic co         on □ Soil         on □ Soil         OF FINDINGS         Vegetation P	resent?	□significantly	978972 s time of yea disturbed?	cal Relief: Longitude:	NW CL -96.424	Classification:	Datum: ☑ Yes Instances pre □ No Hydric Soil	No esent? s Present?	Section: Township: Range:	09/24/14 Marshall MN : u-155n45w34-i1 Dir: etland? No
Remarks: NWI polygon in a soybean field. The sample site contains hydric soil and is located in a dip. Vegetation is sparse with no hydrophytes; soybeans are in the same condition within the dip as in higher areas outside of it. No apparent wetland hydrology was observed. A created drainage exits the dip to the west; the site was likely drained to facilitate agriculture. Drainage appears successful; the soil is a relict feature and the site is no longer functioning as a wetland.											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):         Primary:       Secondary:         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       C3 - Oxidized Rhizospheres on Living Roots (not tilk         B2 - Sediment Deposits       C3 - Oxidized Rhizospheres on Living Roots (not tilk       C8 - Crayfish Burrows         B3 - Drift Deposits       C7 - Thin Muck Surface       D2 - Geomorphic Position         B5 - Iron Deposits       Other (Explain)       D5 - FAC-Neutral Test         B7 - Inundation Visible on Aerial Imagery       D7 - Frost-Heaved Hummocks (LRR F)         B9 - Water-Stained Leaves       B9 - Water-Stained Leaves											
Field Observations:Depth:Surface Water Present?YesDepth:Water Table Present?YesDepth:Saturation Present?YesDepth:								Present?	<u>N</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The site is situated in a slight dip that would collect water, but no other hydrology indicators were observed. 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				Mottle	es	_			
Depth (In.)		Color (Moist)	%	Color (I	Moist)	%	Туре	Location	Texture		Remarks
0-8 8-10	Hue_10YR Hue_10YR	2/1 5/3	100						SCL		
10-21	Gley1	5/5GY	90	Hue_10YR	6/8	10	С	M	C		

NRCS Hydri	ic Soil Field Indicators (check here i	if indicators are not present):	
NRCS Hydri	ic Soil Field Indicators (check here i 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	<ul> <li>if indicators are not present):</li> <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 (MI</li> </ul>	Indicators for Problematic Soils1A9 - 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 VerticTF2 - Red Parent MaterialTF12 - Very Shallow Dark SurfaceOther (Explain in Remarks)
	S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix		<sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer	Туре:	Depth:	Hydric Soil Present? Y
Remarks:	Soil is dark sandy clay loam underlain b F2-Loamy Gleyed Matrix.	y a thin layer of brown sand. Botton	m layer is gleyed clay with redox concentrations. Profile meets hydric soil indicator

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w34-i1					
VEGETATIO		e non-native s	species.)							
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	<b>Dominance Test Worksheet</b>					
1.			Dominant	<u>1110.5tatus</u>						
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)					
3.	J									
4.	<u> </u>				Total Number of Dominant Species Across All Strata: 1 (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)					
7.	<u></u>									
8.	J				Prevalence Index Worksheet					
9.					<u>Total % Cover of:</u> <u>Multiply by:</u>					
10.					$-\frac{1}{OBL \text{ spp.}}  0  x  1 = 0$					
	Total Cover =	0			OBL spp.       0       x       1 =       0         FACW spp.       0       x       2 =       0         FAC spp.       0       x       3 =       0         FACU spp.       5       x       4 =       20					
	-		_		FAC spp. 0 $x 3 = 0$					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20					
1.					UPL spp. <u>45</u> x 5 = <u>225</u>					
2.										
3.					Total <u>50</u> (A) <u>245</u> (B)					
4.										
5.					Prevalence Index = $B/A = 4.900$					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Glycine max	45	Y	NI						
2.	Elymus repens	5	Ν	FACU						
3.					present, unless disturbed or problematic.					
4.					Definitions of Vegetation Strata:					
5.										
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.					height (DBH), regardless of height.					
8.										
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.										
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.										
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	50	_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.										
Total Cover = 0										
Remarks:	The sample site is dominated by cultivated so	oybean with	n scattere	d quack g	grass.					
			_	_		_				
Additional Remarks:										