WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	I111A Talf		_ Loca	Subregior al Relief:	NW	Date: County: State: Sample Point	08/29/14 Marshall MN u-157n47w21-c1					
Slope (%):	0 - 2%	Latitude: 48.41		Longitude:			Datum:]			
	hydrologic conditions on the site	• •		? (If no, exp	Ī				Pr0tected002			
Are Vegetation		• •			AIE		umstances pr s □ No	esent?	Township: Range:	Dir:		
	OF FINDINGS		biomado.				5 110		Runge.			
	Vegetation Present?	No					Hydric Soi	ls Present?	Yes			
• • •	rology Present?	No					Is This Sa	mpling Poin	nt Within A W	etland? No		
Remarks:	The upland sample point is lo	cated in a soyl	bean field, adja	acent to a	a roadsi	de ditch wetla	and.					
HYDROLOG	Y											
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 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 C4 - Presence of Reduced Iron C9 - Saturation Visible on Aerial Imagery B5 - Iron Deposits Other (Explain) D2 - Geomorphic Position B7 - Inundation Visible on Aerial Imagery D7 - Frost-Heaved Hummocks (LRR F) B9 - Water-Stained Leaves B9 - Water-Stained Leaves												
Field Observations: Surface Water Present? Yes Depth: (in.) Water Table Present? Yes Depth: (in.) Saturation Present? Yes Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? N												
Remarks: No primary or secondary hydrological indicators were observed.												
SOILS Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
	ntration, D=Depletion, RM=Reduced Ma											
	Matrix				Mottle			_				
Depth (In.)	Color (Moist)	%	Color (M	oist)	%	Туре	Location	Texture		Remarks		
0-14	Hue_10YR 2/1	100						CL	Very fine sandy			
14-21	Hue_2.5Y 5/1	100						CL	Very fine sandy			
	+		++									
NRCS Hydric Soil Field Indicators (check here if indicators are not present): Indicators for Problematic Soils ¹ A1- Histosol S5 - Sandy Redox A9 - 1 cm Muck (LRR I, J) A2 - Histic Epipedon S6 - Stripped Matrix A16 - Coast Prairie Redox (LRR F, G, H) A3 - Black Histic F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G)									(LRR F, G, H)			
	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 (L	e 🛛 RR G, H)	□ F16 - High Plains Depressions (MLRA 72, 73 of LRR H)									
	S3 - 5 cm Mucky Peat or Peat (LR S4 - Sandy Gleyed Matrix	K F)							nydrophytic vegeta ed or problematic.	tion and wetland hydrology must be present,		
Restrictive Layer	r Type:	Type: Depth:					Hydric Soil Present? Y					
Remarks: Soil is dark clay loam with very fine sand, underlain by depleted clay loam with very fine sand. The profile meets hydric soil indicator A12-Thick Dark Surface.												

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Project/Site:	L3R				Sample Point: u-157n47w21-c1		
VEGETATIO		are non-native	e species.)				
Tree Stratum ((Plot size: 30 ft. radius)	% Cover	Dominant	Ind Status	Dominance Test Worksheet		
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status			
2.	I				Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)		
3.		_			Number of Dominant Species that are OBE, FACW, of FAC(A)		
]				Total Number of Deminent Species Acress All Strates 1 (P)		
4.					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.							
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.					OBL spp. 0 $X 1 = 0$		
	Total Cover	=0			FACW spp. 0 $x 2 = 0$		
					OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.1x3 =3FACU spp.2x4 =8		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp 2 _ x 4 = _ 8		
1.					UPL spp. 90 X 5 = 450		
2.							
3.					Total 93 (A) 461 (B)		
4.							
5.					Prevalence Index = B/A = 4.957		
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	90	Y	NI			
2.	-		N	FACU	* Indicators of hydric soil and wetland hydrology must be		
3.	Setaria pumila		N	FACU	present, unless disturbed or problematic.		
	Fallopia convolvulus						
4.	Echinochloa crus-galli] 1	N	FAC	Definitions of Vegetation Strata:		
5.		_			Trace		
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.		
7.					neight (DBH), regardless of height.		
8.							
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? N		
5.	-						
4.	<u>,</u>						
	Total Cover	= 0					
Remarks:	The sample site is dominated by soybean.						
Additional Remarks:							
Additional R	kemarks:						