WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit:	s: BEH/NTT I53A						NW	A or LRR): I Classification	<u>MLRA 56</u> n:		Date: 09/17/14 County: Pennington State: MN	
Landform: Slope (%):	Talf 3 - 7%		Latitude: 4	8 11/		cal Relief: Longitude:		9042	Datum		Sample Point: u-154n44w32-f1	
		onditions on the sit				-				□ No	Section:	
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Image: Yes No Section: Are Vegetation Image: Soil Image: Soil												
Are Vegetation		I □, or Hydrology	•					☑ Yes	-		Range: Dir:	
SUMMARY C			·	·								
Hydrophytic V	Vegetation P	resent?	N	0		_			Hydric Soi	ils Present?	' No	
Wetland Hyd			N	-						mpling Poin	nt Within A Wetland? No	
Remarks: Upland sample point dominated by grasses and goldenrods, upslope from a wet meadow dip.												
HYDROLOG	Y											
Wetland Hy Primary:	•••	icators (Check al	ll that apply	/; Mir	nimum of on	e primary	or two s	econdary requ	uired):	Secondary:		
Image: A1 - Surface Water Image: B11 - Salt Crust Image: B6 - Surface Soil Cracks Image: A2 - High Water Table Image: B13 - Aquatic Fauna Image: B6 - Surface Soil Cracks Image: A3 - Saturation Image: B13 - Aquatic Fauna Image: B6 - Surface Soil Cracks Image: B13 - Aquatic Fauna Image: B13 - Aquatic Fauna Image: B6 - Surface Soil Cracks Image: B13 - Aquatic Fauna Image: B13 - Aquatic Fauna Image: B10 - Drainage Patterns										 B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-Neutral Test 		
Field Observ	vations:											
Surface Wat	er Present?	Yes 🛛	D	epth:		(in.)			Wetland H	- - - - - - - - - - - - - - - - - - -	Present? N	
Water Table		Yes 🛛		epth:		(in.)			Wettand	iyarologyi		
Saturation P	resent?	Yes 🛛	D	epth:		_ (in.)						
Describe Rec	orded Data (stream gauge, mon	nitoring well,	, aeria	al photos, pre	evious insp	ections),	if available:				
Remarks: No primary or secondary hydrological indicators were observed.												
SOILS												
		ibe to the depth ne letion, RM=Reduced M										
				10100,								
		Matrix		Mott				es				
Depth (In.)		Color (Moist)		%	Color (Moist)	%	Туре	Location	Texture	Remarks	
0-13	Hue_10YR	2/1	-	100						С		
13-20	Hue_10YR	2/1		65						С		
13-20	Hue_10YR	5/2		25	Hue_10YR	5/8	7	С	М	С		
					Hue_7.5YR	5/6	3	С	М	С		
20-26	Hue_2.5Y	5/3		80	Hue_10YR		16	С	M	С		
					Hue_2.5Y		4		Μ	С		
	 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) 				icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	edox Matrix Jucky Minera Gleyed Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix	al x ice	□ A9 - 1 cm M □ A16 - Coasi □ S7 - Dark S □ F16 - High I □ F18 - Reduc □ TF2 - Red F □ TF12 - Very □ Other (Expl RA 72, 73 of LRR H)			for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material v Shallow Dark Surface ain in Remarks)	
Restrictive Layer	Layer Type:				Depth:			Hydric Soil Present? N				
	. , , , , , , , , , , , , , , , , , , ,			·								
Remarks: Soil is dark clay underlain by a highly mixed layer of clay. The bottom layer is depleted clay with redox concentrations and depletions. No hydric soil indicators are present. The light-colored matrix may be influenced by calcium carbonate content.												

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-154n44w32-f1	
VEGETATIO		are non-native	species.)			
Tree Stratum	(Plot size: 30 ft. radius)					
	Species Name	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet	
1.						
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)	
3.						
4.					Total Number of Dominant Species Across All Strata: 2 (B)	
5.						
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (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. 15 x 2 = 30	
					FACW spp. 15 x 2 = 30 FAC spp. 25 x 3 = 75	
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 60 x 4 = 240	
1.					UPL spp. 0 $x 5 = 0$	
2.						
3.					 Total 100 (A) 345 (B)	
4.						
5.					Prevalence Index = B/A = 3.450	
6.						
7.						
8.					- Hydrophytic Vagatation Indicators:	
					Hydrophytic Vegetation Indicators:	
9.					Rapid Test for Hydrophytic Vegetation	
10.		0			Dominance Test is > 50%	
	Total Cover	=0			Prevalence Index is ≤ 3.0 *	
					Morphological Adaptations (Explain) *	
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *	
1.	Poa pratensis	30	Y	FACU		
2.	Panicum virgatum	20	Y	FAC	* Indicators of hydric soil and wetland hydrology must be	
3.	Solidago altissima	15	Ν	FACU	present, unless disturbed or problematic.	
4.	Agrostis gigantea	10	Ν	FACW	Definitions of Vegetation Strata:	
5.	Poa palustris	5	Ν	FACW		
6	Trifolium pratense	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast	
7.	Dactylis glomerata	5	N	FACU		
8.	Solidago gigantea	5	N	FAC	-	
9.	Phleum pratense	5	N	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.	
10.						
11.					-	
11.	1				Herb - All herbaceous (non-woody) plants, regardless of size.	
12.						
13.					-	
					Woody Vines - All woody vines, regardless of height.	
15.	T + 10	4.0.0			-	
	Total Cover	= 100	_			
Woody Vine St	tratum (Plot size: 30 ft. radius)					
1.						
2.						
3.					Hydrophytic Vegetation Present? N	
5.						
4.						
	Total Cover	· = 0				
Remarks:	The sample site is dominated by Kentucky		nd switchc	grass.		
		0		-		
Additional	Pomorko					
Additional F						
1						