WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators			Subregion (MLRA or LRR): <u>MLRA 56</u>					Date:09/27/14County:PenningtonState:MN		
Soil Unit: Landform:	I53A Depression			Lo	NWI Classification: ocal Relief: CC					Sample Point: w-154n44w28-b3
Slope (%):	0 - 2%		Latitude: 48.		Longitude			Datum:		
	• •	ditions on the site			ar? (If no, ex			Yes		Section:
Are Vegetation		□, or Hydrology □, or Hydrology	•	•		A	e normal circu ☑ Yes		esent?	Township: Range: Dir:
		, ,					103			
	Vegetation Pre		Yes	3	_			Hydric Soil	ls Present?	? Yes
	rology Presen		Yes						mpling Poir	nt Within A Wetland? Yes
Remarks:	Willow-Carr	dominated by me	adow willow	v and sedges. T	The site is	near a p	petroleum pipel	line corridor.		
HYDROLOGY										
	A1 - Surface W A2 - High Wate A3 - Saturation B1 - Water Mar B2 - Sediment B3 - Drift Depo B4 - Algal Mate B5 - Iron Depos	Vater er Table Neposits sits or Crust sits Visible on Aerial Im			B11 - Salt B13 - Aqua C1 - Hydro C2 - Dry S C3 - Oxidiz C4 - Prese C7 - Thin N	 e primary or two secondary required): B11 - Salt Crust B13 - Aquatic Fauna C1 - Hydrogen Sulfide Odor C2 - Dry Season Water Table C3 - Oxidized Rhizospheres on Living Roots (not tille C4 - Presence of Reduced Iron C7 - Thin Muck Surface Other (Explain) Secondary: B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (not tille C3 - Oxidized Rhizospheres on Living Roots (not tille C4 - Presence of Reduced Iron C7 - Thin Muck Surface D2 - Geomorphic Position D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F) 				
	er Present? Present? resent? orded Data (st	Yes □ Yes □ Yes □ ream gauge, mon	Dep Dep toring well, a		-			Wetland H	lydrology	Present? Y
Remarks: Site is an area that collects water and vegetation passes the FAC-neutral test.										
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				Mott	es			
Depth (In.)	(Color (Moist)	9	6 Color (Moist)	%	Туре	Location	Texture	Remarks
0-2	Hue_10YR	2/1	10	00					Μ	
2-5	Hue_10YR	2/1	10						MMI	
5-11	Hue_10YR	4/1	8		6/6	3	С	M	SC	
5-11	Hue_10YR	2/1		5	0/0				MMI	
11-21	Hue_5Y	6/2	8	0 Hue_10YR	6/8	20	C	M	С	gravel fragments
NRCS Hydric Soil Field Indicators (check here if indicators are A1- Histosol S5 - Sandy F A2 - Histic Epipedon S6 - Strippedon									for Problematic Soils ¹ Muck (LRR I, J) st Prairie Redox (LRR F, G, H)	
	A3 - Black Histic☑F1 - Loamy MA4 - Hydrogen Sulfide□F2 - Loamy MA5 - Stratified Layers (LRR F)☑F3 - DepletedA9 - 1 cm Muck (LRR FGH)□F6 - Redox DA11 - Depleted Below Dark Surface□F7 - DepletedA12 - Thick Dark Surface□F8 - Redox DS1 - Sandy Mucky Mineral□F16 - High PS2 - 2.5 cm Mucky Peat or Peat (LRR G, H)□					ix e ace	LRA 72, 73 of LR		Surface (LRR G) Plains Depressions _(LRR H, outside MLRA 72, 73) uced Vertic Parent Material ry Shallow Dark Surface lain in Remarks)	
									¹ Indicators of I	hydrophytic vegetation and wetland hydrology must be present,
		ky Peat or Peat (LR								bed or problematic.
	S3 - 5 cm Mucl S4 - Sandy Gle	ky Peat or Peat (LR		Depth:			Hydric So	oil Present?	unless disturb	

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n44w28-b3				
VEGETATIO		e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (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. 110 X 1 = 110				
	Total Cover =	0			FACW spp. 45 x $2 =$ 90 FAC spp. 1 x $3 =$ 3 FACU spp. 0 x $4 =$ 0				
			FAC spp. 1 $X 3 = 3$						
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x $4 = 0$				
1.	Salix petiolaris	35	Y	OBL	UPL spp. 0 \times 5 = 0				
2.	Spiraea alba	5	N	FACW					
3.	Populus tremuloides	1	N	FAC	Total <u>156</u> (A) <u>203</u> (B)				
4.		•							
5.					Prevalence Index = B/A = 1.301				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
<u> </u>									
10.	 Total Cover	11			$\frac{X}{X} \text{Dominance Test is } 50\%$				
	Total Cover =	41			$X = \frac{X}{2} $ Prevalence Index is $\leq 3.0 *$				
					Morphological Adaptations (Explain) *				
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Carex pellita	45	Y	OBL					
2.	Calamagrostis canadensis	25	Y	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Carex atherodes	15	N	OBL	present, unless disturbed or problematic.				
4.	Carex sartwellii	10	N	FACW	Definitions of Vegetation Strata:				
5.	Lycopus uniflorus	10	N	OBL					
6	Lysimachia thyrsiflora	5	Ν	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Spartina pectinata	5	Ν	FACW	height (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.									
13.	1				4				
14.					Woody Vines - All woody vines, regardless of height.				
10.	Tatal Oaver	445			VVOCUY VIIIES - VIII WOOdy VIIIes, Togaraloos of Holgita				
	Total Cover =	115							
VVoody Vine St	tratum (Plot size: 30 ft. radius)								
1.	1								
2.									
3.	1				Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks:	Meadow willow dominates the shrub compor	nent. Wool	ly sedge a	nd Canad	a bluejoint dominate the herbaceous layer, along with other sedge species.				
			-						
Additional Remarks:									
1									