WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit:		L3R Enbridge KRG/BCS			Subregio	•	A or LRR): I Classification	MLRA 56		Date:08/05/14County:MarshallState:MN	
Landform:	Rise	Lo	cal Relief:			·		Sample Point: u-155n45w17-a2			
Slope (%):	0 - 2%		Latitude: 48		Longitude			Datum:			
	•	nditions on the site			ar? (If no, ex					Section:	
Are Vegetation		□, or Hydrology □, or Hydrology	•	•		Ar	e normal circun ☑ Yes	nstances pr □ No	esent?	Township: Range: Dir:	
SUMMARY C				problematic			₪ 165			Range. Dir.	
	Vegetation Pre		No					Hydric Soi	Is Present?	No	
• • •	drology Preser		No		-					nt Within A Wetland? No	
Remarks: The upland point is located in an open meadow dominated by graminoids.											
HYDROLOGY											
	A1 - Surface W A2 - High Wate A3 - Saturation B1 - Water Ma B2 - Sediment B3 - Drift Depo B4 - Algal Mat B5 - Iron Depo	er Table rks Deposits osits or Crust sits n Visible on Aerial Im			e primary B11 - Salt B13 - Aqua C1 - Hydro C2 - Dry S C3 - Oxidiz C4 - Prese C7 - Thin N Other (Exp	 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 D7 - Frost-Heaved Hummocks (LRR F) 					
Field Observations: Depth: (in.) 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 indicators of wetland hydrology 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				Mottl			_		
Depth (In.)		Color (Moist)		% Color (I	Moist)	%	Туре	Location	Texture	Remarks	
0-12	Hue_10YR	2/1		00			<u> </u>	N 4	CL		
12-18 12-18	Hue_10YR Hue_10YR	5/3 3/2		65 Hue_10YR 20	5/6	5	С	M	FS FS		
12-18	Hue_10YR	2/1		10					CL		
		<i></i> / 1									
NRCS Hydr	A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Mu	bedon ic Sulfide Layers (LRR F) k (LRR FGH) l Below Dark Surface irk Surface cky Mineral ucky Peat or Peat (LR ky Peat or Peat (LR	e RR G, H)	indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	edox Matrix Jucky Miner Gleyed Matri I Matrix ark Surface I Dark Surfa epressions	al x ace	Indicators for Problematic Soils ¹ 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) RA 72, 73 of LRR H) ¹Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 				
Restrictive Laye	r Type:			Depth:			Hydric So	il Present?	<u> </u>		
Restrictive Layer Remarks:	Soil consists	of dark clay loam	over fine s			s of the				- atrix is a mix of two colors. No hydric soil	

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VEGETATIO		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: 2 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 4 (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.		0			$OBL spp. 0 \qquad x \ 1 = 0$				
	Total Cover =	0			FACW spp. 30 X 2 = 60				
					FAC spp. 15 X 3 = 45				
	Stratum (Plot size: 15 ft. radius)		V		FACU spp. 80 x 4 = 320				
1.	Salix interior	5	Y Y	FACW	UPL spp. 10 X 5 = 50				
2.	Populus balsamifera	5	Y	FACW					
3.					Total <u>135</u> (A) <u>475</u> (B)				
4.									
5.					$Prevalence Index = B/A = \underline{3.519}$				
6.									
7.					Undrenbutie Verstation Indiantere.				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.		10			Dominance Test is > 50%				
	Total Cover =	10			$\underline{\qquad} Prevalence Index is \leq 3.0 *$				
					Morphological Adaptations (Explain) *				
	(Plot size: 5 ft. radius)			FAOL	Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	40	Y	FACU					
2.	Phleum pratense	30	<u> </u>	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3.	Agrostis gigantea	20	<u>N</u>	FACW					
4.	Bromus inermis	10	<u>N</u>		Definitions of Vegetation Strata:				
5.	Sonchus arvensis	10	N	FAC	_				
6	Cirsium arvense	5	<u>N</u>	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Solidago gigantea	5	<u>N</u>	FAC	height (DBH), regardless of height.				
8.	Melilotus officinalis	5	N	FACU					
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.					4				
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	125							
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
Total Cover = 0									
Remarks: Vegetation is dominated by Kentucky bluegrass, timothy, and black bent grass.									
Additional Remarks:									