WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit:	:: <u>I53A</u>	L3R Enbridge BEH/NTT	-	_	Subregio	•	A or LRR): I Classification:	MLRA 56		Date:09/16/14County:PenningtonState:MN	
Landform:	Talf				cal Relief:					Sample Point: u-154n44w32-b2	
Slope (%):	0 - 2%		e: 48.11		Longitude:			Datum:			
	• •	onditions on the site typic			af? (If no, exp				\square No	Section:	
Are Vegetation		I □, or Hydrology □sign I □, or Hydrology □atu				AI	e normal circum ☑ Yes		esent?	Township: Range: Dir:	
SUMMARY C			any pro				103				
Hydrophytic '			No					Hydric Soi	ls Present?	' No	
Wetland Hyd	-		No		-					nt Within A Wetland? No	
Remarks: The upland sample point is located in a grassland, upslope from a wetland complex.											
	V										
HYDROLOGY 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 tille C3 - Oxidized Rhizospheres on Living Roots (not tille									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 Observations: Surface Water Present? Yes 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 primary or secondary hydrological indicators were observed.											
		ibe to the depth needed t									
(Type: C=Concer	ntration, D=Depl	etion, RM=Reduced Matrix, CS	=Covered	d/Coated Sand (Grains; Locat	tion: PL=P	Pore Lining, M=Matri	x)			
		Matrix		1		Mottl					
Depth (In.)		Color (Moist)	%	Color (I	Moist)	- WOU	Type	Location	Texture	Remarks	
<u>0-8</u>	Hue_10YR	· · · · · ·	100			70	Турс	Location	SIC	Kentaiks	
8-12	Hue_2.5Y	6/2	75	Hue_10YR	5/6	15	С	М	SIC	Gravel fragments	
				Hue_10YR		7	C	М	SIC		
				Hue_5YR	3/3	3	С	М	SIC		
12-21	Hue_2.5Y	6/3	65	Hue_10YR		25	С	М	SIC		
				Hue_2.5Y		10	D	Μ	SIC		
NRCS Hydric Soil Field Indicators (check here if indicators are not present): Image: Construction of the											
	A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Dark Surface lucky Mineral Mucky Peat or Peat (LRR G, H cky Peat or Peat (LRR F)	S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Matrix Iucky Minera Ieyed Matrix I Matrix ark Surface I Dark Surfa epressions	x ce	 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) MLRA 72, 73 of LRR H) ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.					
Restrictive Layer						Hydric Soil Present? N					
				•			nt redox features. The depleted layer is not thick enough to meet any hydric				
Remarks:		and the second sec	- to set a firm of		and the second						

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-154n44w32-b2				
-									
VEGETATIO	N (Species identified in all uppercase a	are non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (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: 0.0% (A/B)				
7.									
8.		1			Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					$OBL spp. \qquad 0 \qquad x \ 1 = 0$				
	Total Cover	= 0			FACW spp. 5 $x 2 = 10$				
					$FAC spp. 10 \qquad x 3 = 30$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				OBL spp. 0 x 1 = 0 FACW spp. 5 x 2 = 10 FAC spp. 10 x 3 = 30 FACU spp. 65 x 4 = 260				
1.					UPL spp. 35 X 5 = 175				
2.					113 - 113				
3.					Total 115 (A) 175 (P)				
					Total <u>115</u> (A) <u>475</u> (B)				
<u>4.</u> 5.					Drovolance Index P/A 400				
					Prevalence Index = $B/A = $ 4.130				
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.	Bromus inermis	35	Y	UPL					
2.	 Dactylis glomerata	30	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Poa pratensis	15	Ν	FACU	present, unless disturbed or problematic.				
4.	Sonchus arvensis	10	N	FAC	Definitions of Vegetation Strata:				
5.	Cirsium arvense	10	N	FACU					
6	Elymus repens	10	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Phalaris arundinacea	5	N	FACW	height (DBH), regardless of height.				
8.		<u> </u>		17.000					
9.		1			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
<u> </u>	<u> </u>				Saping/Sinub - Woody plane loss than o in 221, logaraloss of holgh.				
	1								
11.					Hart All berbacous (pon-woody) plants, regardless of size				
12.		1			Herb - All herbaceous (non-woody) plants, regardless of size.				
13.	 								
14.									
15.	1				Woody Vines - All woody vines, regardless of height.				
	Total Cover	= 115							
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 smooth brome and orchard grass.									
Temane. The bample site is dominated by smooth brome and oronard grabe.									
Additional F	Remarks:								