WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:		L3R Enbridge KRG/NTT		- Lo	_Subregio cal Relief:	NW	A or LRR): I Classificatio	<u>MLRA 56</u> n:		Date:08/02/14County:MarshallState:MNSample Point:u-155n45w7-c1	
Slope (%):	3 - 7%	nditiona on the cit	Latitude: 48.25		Longitude:			Datum			
Are Climatic/I		nditions on the sit	• •		a r ? (If no, exp	1	^{arks)} e normal circu	⊻ Yes Imstances pr	□ No resent?	Section: Township:	
Are Vegetation		□, or Hydrology	• •				e normal circa ☑ Yes	-		Range: Dir:	
SUMMARY C											
Hydrophytic	•		Yes		-				ils Present?		
Wetland Hyd			No	o ovicting pir	olino corr	idar Va	notation in dan			t Within A Wetland? No	
Remarks: The upland point is located at the edge of an existing pipeline corridor. Vegetation is dominated by clovers and small willows.											
HYDROLOGY											
Wetland Hy Primary	A1 - Surface A2 - High Wa A3 - Saturatio B1 - Water M B2 - Sedimen B3 - Drift Dep B4 - Algal Ma	l that apply; Mi	 Winimum of one 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 						 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 		
B5 - Iron Deposits Other (Explain) D5 - FAC-Neutral Test B7 - Inundation Visible on Aerial Imagery D7 - Frost-Heaved Hummocks (LRR F) B9 - Water-Stained Leaves Heaves											
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: Remarks: No wetland hydrology indicators were observed.											
Remarks:	No wetland	nydrology indicate	ors were obser	ved.							
SOILS											
		ibe to the depth ne etion, RM=Reduced M									
(Type: C=Concer					51a1115, LOCA			atrix <i>)</i>			
		Matrix				Mottl	es				
Depth (In.)		Color (Moist)	%	Color (, ,	%	Туре	Location		Remarks	
0-3	Hue_10YR		98	Hue_7.5YR	4/6	2	С	М	FS		
3-8	Hue_10YR		100		A/C		<u> </u>	Ν.4	FS		
8-18	Hue_10YR	3/2	98	Hue_7.5YR	4/6	2	С	M	FS		
NRCS Hydric Soil Field Indicators (check here if indicators are not present): Indicators for Problematic Soils¹ 											
	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) A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) A5 - Stratified Layers (LRR F) F3 - Depleted Matrix F18 - Reduced Vertic A9 - 1 cm Muck (LRR FGH) F6 - Redox Dark Surface TF2 - Red Parent Material A11 - Depleted Below Dark Surface F7 - Depleted Dark Surface TF12 - Very Shallow Dark Surface A12 - Thick Dark Surface F8 - Redox Depressions (MLRA 72, 73 of LRR H) Other (Explain in Remarks) S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Indicators of hydrophytic vegetation and wetland hydrology must S2 - 2.5 cm Mucky Peat or Peat (LRR F) S3 - 5 cm Mucky Peat or Peat (LRR F) Indicators of hydrophytic vegetation and wetland hydrology must										
Restrictive Layer	r Type:			Depth:			Hydric Soil Present? N				
Remarks: Soil is fine sand with small amounts of redox. No hydric soil indicators are met.											

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Project/Site:	L3R				Sample Point: u-155n45w7-c1					
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius)									
	<u>Species Name</u>	% Cover	Dominant	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: 3 (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)					
7.					release of Dominant Opecies that Are ODE, FAOW, of FAO (AD)					
					Prevalence Index Worksheet					
8.										
9.					Total % Cover of: Multiply by:					
10.		•			OBL spp. 25 X 1 = 25					
	Total Cover =	0			FACW spp.15x2 =30FAC spp.10x3 =30					
					FAC spp. 10 $X 3 = 30$					
	Stratum (Plot size: 15 ft. radius)				FACU spp. 65 x 4 = 260					
1.					UPL spp. 0 $x 5 = 0$					
2.										
3.					Total <u>115</u> (A) <u>345</u> (B)					
4.										
5.	-				Prevalence Index = $B/A = 3.000$					
6.										
7.	-									
8.	-				Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
10.	Tatal Causar									
	Total Cover =	0			$X = Prevalence Index is \le 3.0 *$					
					Morphological Adaptations (Explain) *					
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Melilotus officinalis	40	Y	FACU						
2.	Trifolium repens	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Salix petiolaris	25	Y	OBL	present, unless disturbed or problematic.					
4.	Poa palustris	10	Ν	FACW	Definitions of Vegetation Strata:					
5.	Equisetum arvense	10	N	FAC						
6	Equisetum hyemale	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.					height (DBH), regardless of height.					
8.										
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.	<u> </u>				Saping/Shrub - Woody plants less than 5 m. DBH, regardless of height.					
11.					I I and All borbaccous (non-weach) plants, recordings of size					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.										
15.					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? Y					
5.										
4.	T_11_1 O	<u>^</u>								
Total Cover = 0										
Remarks: Vegetation is dominated by sweetclover, white clover, and small meadow willows.										
Additional Remarks:										