## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	l62A Talf	L3R Enbridge BJC/RAJ			cal Relief:	NW	A or LRR): I Classification:			Date:09/23/14County:PenningtonState:MNSample Point:u-154n44w33-y1	
Slope (%): Are climatic/t	0 - 2%	Latit Dinditions on the site typ	ude: <mark>48.11</mark>		Longitude:			Datum: ☑ Yes	□ No	 Section:	
Are Vegetatio		I □, or Hydrology □si				1	e normal circum			Township:	
Are Vegetation	on 🗆 Soi	I □, or Hydrology □a	turally prob				⊠ Yes	□ No <sup>'</sup>		Range: Dir:	
SUMMARY OF FINDINGS											
Hydrophytic Vegetation Present?NoHydric Soils Present? YesWetland Hydrology Present?NoIs This Sampling Point Within A Wetland?											
Remarks:			ad field domi	nated by r	asture (	arasses. The ar					
Remarks: The upland sample point is located in a hayed field dominated by pasture grasses. The area is upland, but is NWI-mapped. The vegetation has been hayed but is still identifiable.											
HYDROLOG											
	A1 - Surface A2 - High Wa A3 - Saturatio B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatio	ater Table on larks nt Deposits posits at or Crust			B11 - Salt ( B13 - Aqua C1 - Hydro C2 - Dry Se C3 - Oxidiz	Crust atic Fauna gen Sulfic eason Wa ed Rhizo nce of Re Juck Surf	de Odor ater Table spheres on Living educed Iron	·	e	7: 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 Observ Surface Wate Water Table Saturation Pr Describe Reco	er Present? Present? resent?	Yes □ Yes □ Yes □ stream gauge, monitorin	Depth: Depth: Depth: g well, aeri		(in.) (in.) (in.) evious insp	pections)	, if available:	Wetland F	lydrology ∣	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)											
									1		
Denth (In.)		Matrix	0/	O al a m (l	(A = : = t)	Mottl		Location	<b>.</b>	Demeric	
Depth (In.) 0-14		Color (Moist)	<u>%</u>	Color (I	vioist)	%	Туре	Location	Texture SCL	Remarks	
14-18	Hue_10YR Hue_2.5Y			Hue_10YR	5/8	5	С	M	SC		
14-10	1106_2.01		30		5/0	5		IVI			
NRCS Hydr	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 be   S2 - 2.5 cm Mucky Peat or Peat (LRR F) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Indicators of hydrophytic vegetation and wetland hydrology must be							Muck (LRR I, J) St Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Iced Vertic Parent Material y Shallow Dark Surface lain in Remarks)			
Restrictive Layer	r Type	:		Depth:			Hydric So	I Present?	V		
				•			Hydric Soil Present? Y				
Remarks:	i ne soils m	neet the A12 indicator; I	nowever, t	ne area doe:	s not supp	ort hydr	opnytic vegetati	on and no i	naicators o	of wetland hydrology were observed.	

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w33-y1			
		e non-native	species.)					
ree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet			
1.		<u>/// Cover</u>	Dominant	<u>1110.018103</u>				
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.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					$OBL spp. \underline{0} X 1 = \underline{0}$			
	Total Cover =	0			OBL spp. 0 x 1 = 0   FACW spp. 0 x 2 = 0   FAC spp. 5 x 3 = 15   FACU spp. 55 x 4 = 220   UDL spp. 40 x 5 = 200			
					FAC spp. 5 $X 3 = 15$			
	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccc} FACU \text{ spp.} & 55 & X \ 4 = & 220 \\ UPL \text{ spp.} & 40 & X \ 5 = & 200 \end{array}$			
<u> </u>					UPL spp. $40   x   5 = 200$			
3.					Total 100 (A) 435 (B)			
4.								
5.					Prevalence Index = B/A = <b>4.350</b>			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	0			Prevalence Index is $\leq 3.0 *$			
					Morphological Adaptations (Explain) *			
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Bromus inermis	40	Y	UPL				
2.	Poa pratensis	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Lotus corniculatus	15	<u>N</u>	FACU	present, unless disturbed or problematic.			
<u>4.</u>	Cirsium arvense	10	<u>N</u>	FACU	Definitions of Vegetation Strata:			
5.	Solidago gigantea	5	<u>N</u>	FAC	Troo			
<u> </u>	Taraxacum officinale	5	N	FACU	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
8.					hoight (DDH), rogaraicee of hoight			
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.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	100						
Woody Vine St	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? N			
5.	1							
4.		^						
	Total Cover =							
Remarks:	I he upland sample point is dominated by sn	nooth brom	e and Ker	ntucky blue	egrass. The vegetation has been hayed in the area, but is still identifiable.			
Additional F	Remarks:							