## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	06/27/14											
,		Enbridge																					
Applicant:	_	•				0	- (141 D.)	L DD\\-	MI DA FO		County:	Kittson											
Investigators:		BCS/BEH				Subregion			MLRA 56		State:	MN											
Soil Unit:	1278A							Classification:															
Landform:	Talf					cal Relief:					Sample Point	u-160n50w10-c2											
Slope (%):	0 - 2%		Latitude: 4			Longitude:			Datum:														
Are climatic/h	nydrologic co	nditions on the site	typical f	for this	time of yea	ar? (If no, exp	lain in rema	arks)	⊡Yes	□ No	Section:												
Are Vegetation	on 🖵 Soil	☐ or Hydrology	□gnific	cantly c	disturbed?		Are	normal circum	nstances pre	esent?	Township:												
Are Vegetation	on 📮 Soil	☐ or Hydrology	□aturall	ly prob	lematic?			Yes	□No		Range:	Dir:											
SUMMARY O	F FINDINGS	3																					
Hydrophytic \			1	No					Hydric Soil	ls Present?	No												
Wetland Hyd			_	No		•					nt Within A W	etland? <b>No</b>											
Remarks:		sample area is loca			RP field an	d dominate	ed by bio	hluestem	io i i ilo cai	mpiling i on		onana. III											
rtemants.	The apiana	sample area is loca	ated with	iii a o	iti ilcia ali	a dominat	ca by big	g blucotom.															
HADBOI OCA	v																						
HYDROLOGY	ř																						
Wetland Hy	drology Indi	icators (Check all t	that appl	ly; Mini	imum of on	e primary	or two se	econdary requi	red):														
Primary:										Secondary:													
	A1 - Surface \					B11 - Salt (					B6 - Surface S												
A2 - High Water Table						B13 - Aqua		0.1				Vegetated Concave Surface											
	A3 - Saturatio B1 - Water Ma					C1 - Hydrog C2 - Dry Se					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)											
	B2 - Sedimen							pheres on Living	Poots (not till		C8 - Crayfish I												
	B3 - Drift Dep					C4 - Presei			1,000 (1101 1111	` <b>!</b>		n Visible on Aerial Imagery											
	B4 - Algal Mat					C7 - Thin M				_	D2 - Geomorp												
	B5 - Iron Depo					Other (Expl					D5 - FAC-Neu												
	B7 - Inundatio	n Visible on Aerial Imag	gery								D7 - Frost-Hea	aved Hummocks (LRR F)											
	B9 - Water-St	ained Leaves																					
Field Observ	/ations:																						
Surface Water	er Present?	Yes	[	Depth:		(in.)																	
Water Table	Present?	Yes $\Box$	Г	Depth:		(in.)			wetland H	lydrology l	Present?	N											
Saturation Pr		Yes ☑			17	(in.)						<del></del>											
D 11 D	1 15 1 1							75 77 77 77				Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
	,	<u> </u>					, ,																
Describe Reco	,	stream gauge, monitoraturated at 17 inches					, ,		vere observ	ed.													
Remarks:	,	<u> </u>					, ,		vere observ	ed.													
Remarks:	The soil is s	aturated at 17 inche	es; no p	rimary	or seconda	ary wetland	d hydrolo	ogy indicators w		ed.													
Remarks:  SOILS Profile Descri	The soil is s	aturated at 17 inches	es; no p	rimary	or secondary	ary wetland	d hydrolo	ogy indicators we absence of in	idicators.)	ed.													
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Remarks:  SOILS Profile Descri (Type: C=Concen	The soil is s	be to the depth nee	es; no p	docum	ent the indic	cator or co	hydrolo onfirm the ion: PL=Pc	e absence of in ore Lining, M=Matr	idicators.)														
Remarks: SOILS Profile Descri (Type: C=Concen	The soil is s	be to the depth nee etion, RM=Reduced Matrix Color (Moist)	es; no p	docum- covered/0	or secondary	cator or co	d hydrolo onfirm the	e absence of in	idicators.)	Texture		Remarks											
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-7 7-16 16-20 16-20  NRCS Hydri	The soil is s  ption (Description, D=Deplete Intration, D=Deplete Intra	be to the depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  3/2  4/2  2/1  Indicators (che	es; no p	documerovered/do	ent the indicoated Sand (Coated	cator or co Grains; Locat Moist)	onfirm the	e absence of incre Lining, M=Matres Type	Location	Texture SIC C C C A Indicators 1 A9 - 1 cm M	for Problemation	c Soils <sup>1</sup>											
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w10-c2			
					<u>.</u>			
VEGETATION	N (Species identified in all uppercase are Plot size: 30 ft. radius)	e non-native	species.)					
Tiee Stratum (	Species Name	0/ Cayer	Deminent	Ind Ctatus	Dominance Test Worksheet			
1.	Species Name	% Cover	Dominant	Ind.Status	Dominance rest Worksheet			
2.					Number of Deminent Species that are OBL EACIN or EAC:			
					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 1 (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. 0 x 1 = 0			
	Total Cover =	0			FACW spp. 0 x 2 = 0			
	•		_		FAC spp. 0 x 3 = 0			
Sanling/Shruh	Stratum (Plot size: 15 ft. radius)				FACU spp. 75 x 4 = 300			
1.	Stratum (Flot Size: 15 ft. radius)				UPL spp. 0 x 5 = 0			
2.								
3.					T-1-1 75 (A) 200 (D)			
					Total 75 (A) 300 (B)			
4.								
5.					Prevalence Index = B/A = 4.000			
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) *			
Horb Stratum (I	Plot cizo: 6 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Plot size: 5 ft. radius)  Andropogon gerardii	60	Υ	FACU	Froblem Hydrophytic Vegetation (Explain)			
2.			N	FACU	* Indicators of hydric soil and wetland hydrology must be			
	Cirsium arvense	5			present, unless disturbed or problematic.			
3.	Taraxacum officinale	5	N	FACU				
4.	Glycyrrhiza lepidota	5	N	FACU	Definitions of Vegetation Strata:			
5.								
6					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.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
				_				
14.				_	Woody Vines - All woody vines, regardless of height.			
15.					YYOOQY VIIIeS - All Woody VIIIes, regaldless of fieldlif.			
	Total Cover =	75	_					
Woody Vine Str	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? N			
5.				_				
4.								
<u>'</u>	Total Cover =	0		_				
Remarks:	The upland sample area is dominated by big							
ixemaiks.	The apiana sample area is dominated by big	Diucoteiii.						
Additional R	Remarks:							
L								