## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date:	06/26/14		
Applicant: Enbridge										County:	Kittson		
Investigators: EAB/RAJ				Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	1132A						Classification:						
Landform: Slope (%):	Depression 0 - 2%		1 - 414 - 1 - 1 - 1 - 1 - E /		cal Relief: Longitude:		111	Detum		Sample Point:	w-159n48w31-f1		
		nditions on the site	Latitude: 48.54					Datum: □Yes	⊡ No	Section:			
Are Vegetation		or Hydrology			u: (ii no, ex		normal circun						
Are Vegetatio		G or Hydrology					⊻ Yes		cocint?	Township: Range:	Dir:		
SUMMARY C										Range.	DII.		
	Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes												
				Yes			Is This Sampling Poin				etland? Yes		
Remarks:	The wetland	t is a basin located		at field Area	s of oak-le	eaf goose	efoot and bare	soil cover th	ne wetland	The area was	s planted this year, but the crops		
r tornantor		and strong soil an											
HYDROLOG													
			the standard NA										
-		icators (Check all	that apply; M	inimum of on	e primary	or two se	econdary requi	rea):	Secondary				
Primary:	A1 - Surface	Water			B11 - Salt	Crust			Secondary:	B6 - Surface S	oil Cracks		
1	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface		
<b>I</b>	A3 - Saturatio			C1 - Hydrogen Sulfide Odor							Patterns		
	B1 - Water M B2 - Sedimen			□       C3 - Oxidized Rhizospheres on Living Roots (not till       □         □       C4 - Presence of Reduced Iron       □         □       C7 - Thin Muck Surface       ☑							Rhizospheres on Living Roots (tilled) Burrows		
	B3 - Drift Dep										Nisible on Aerial Imagery		
1	B4 - Algal Ma	t or Crust									hic Position		
	B5 - Iron Dep			Other (Explain)						D5 - FAC-Neu			
	B7 - Inundatio B9 - Water-Si	n Visible on Aerial Im	lagery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	D5 - Water-O												
Field Observ	vations												
Surface Wate		Yes 🛛	Depth		(in.)								
Water Table		Yes 🗹	Depth		(in.) (in.)			Wetland H	lydrology	Present?	Y		
		Yes 🗹		-	(in.)								
Saturation Present? Yes Depth: 0 (in.)													
Decesile - Dece	and a Data /	· · · · · · · · · · · · · · · · · · ·	tenten contractioner and	del electro a su			if a vallable v						
		stream gauge, moni	-			-			totod voolo	of ourfood un	to a manager time of the		
Describe Reco Remarks:	A high wate		-			-		the unvege	tated pools	of surface wa	ter present in other areas of the		
Remarks:			-			-		the unvege	tated pools	of surface wa	ter present in other areas of the		
Remarks: SOILS	A high wate wetland.		ved at a depth	of 8 inches.	Recent ra	ins have	contributed to	-	tated pools	of surface wa	ter present in other areas of the		
Remarks: SOILS Profile Descri	A high wate wetland.	r table was observ	ed at a depth	of 8 inches.	Recent ra	ins have	contributed to e absence of ir	dicators.)	tated pools	of surface wa	ter present in other areas of the		
Remarks: SOILS Profile Descri	A high wate wetland.	r table was observ be to the depth ne etion, RM=Reduced Ma	ed at a depth	of 8 inches.	Recent ra	onfirm the	contributed to e absence of ir pre Lining, M=Matr	dicators.)	tated pools	of surface wa	ter present in other areas of the		
Remarks: SOILS Profile Descri (Type: C=Concer	A high wate wetland.	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix	red at a depth reded to docur atrix, CS=Covere	of 8 inches.	Recent ra	ins have onfirm the tion: PL=Pc Mottle	contributed to e absence of ir ore Lining, M=Matr	ndicators.) ix)		of surface wa			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	A high wate wetland. ption (Descrintration, D=Depl	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docun atrix, CS=Covere %	of 8 inches.	Recent ra	onfirm the	contributed to e absence of ir pre Lining, M=Matr	dicators.)	Texture	of surface wa	ter present in other areas of the Remarks		
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-159n48w31-f1					
VEGETATION	N (Species identified in all uppercase ar Plot size: 30 ft. radius)	e non-native	species.)							
	<u>Species Name</u>	% Cover	Dominant	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: 2 (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
7. 8.	<u> </u>				Prevalence Index Worksheet					
0. 9.					Total % Cover of: Multiply by:					
					$\frac{10 \text{ cover or }}{\text{OBL spp.}}  10 \qquad \text{x } 1 = 10$					
10.	Total Cover =	0			FACW spp. 0 x 2 = 0					
					FAC spp. 10 $x 3 = 30$					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20					
1.					UPL spp. 1 x 5 = $\frac{5}{5}$					
2.										
3.					Total <u>26 (</u> A) <u>65 (</u> B)					
4.										
5.					Prevalence Index = B/A = 2.500					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.		0			X Dominance Test is > 50%					
	Total Cover =	0	_		$X = \frac{1}{2} \text{Prevalence Index is } \le 3.0 \text{ *}$					
Horb Stratum (	Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *					
1.	Chenopodium glaucum	10	Y	FAC						
2.	Persicaria lapathifolia	10	Y	OBL	* Indicators of hydric soil and wetland hydrology must be					
3.	Artemisia annua	5	N	FACU	present, unless disturbed or problematic.					
4.	Triticum aestivum	1	N	NI	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.					All berkesseur (nen weedu) slante regerdless of size					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13. 14.										
				-	Woody Vines - All woody vines, regardless of height.					
15.	Total Cover =	26			Troody Tilles - a art-, tast, tast door of high					
		20	_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.	ĺ									
3.					Hydrophytic Vegetation Present? Y					
5.										
4.										
	Total Cover =									
Remarks:										
Additional Remarks:										