WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R								Date:	10/09/14			
Applicant:	Enbridge				0	- (NAL DA	I DD\-	MI DA 50		County:	Red Lake		
Investigators Soil Unit:				Subregion (MLRA or LR				MLRA 56		State:	MN		
Landform:	Rise			- Lo	cal Relief:		Classification			Sample Point	u-151n42w23-c1		
Slope (%):	3 - 7%	Latitue	de: 47.89		Longitude:		0106	Datum:		Cumple 1 cm	<u>u 10111421120 01</u>		
		nditions on the site typic							□No	Section:			
Are Vegetation				disturbed?			normal circun	nstances pre	esent?	Township:			
Are Vegetation		☐ or Hydrology ☐tt	ırally pro	blematic?			✓ Yes	□No		Range:	Dir:		
SUMMARY C													
Hydrophytic \			No					Hydric Soil					
Wetland Hydrology Present?				No			Is This Sampling Point Within A Wetland? No				etland? No		
Remarks: The upland sample point is located on a slight rise between an unmaintained road and an existing pipeline corridor. Vegetation is dominated by red clover and sweet clover.													
HADBOLOGA		1.											
HYDROLOGY													
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary: Secondary:													
	A1 - Surface \	Nater			B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks		
	A2 - High Wa	ter Table		☐ B13 - Aquatic Fauna ☐ ☐ C1 - Hydrogen Sulfide Odor ☐ ☐ C2 - Dry Season Water Table ☐							■ B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio										e Patterns		
	B1 - Water Ma B2 - Sedimen										Rhizospheres on Living Roots (tilled) Burrows		
	B3 - Drift Dep	osits			C4 - Prese	nce of Red	duced Iron	(C9 - Saturation	n Visible on Aerial Imagery		
	B4 - Algal Ma B5 - Iron Dep			☐ C7 - Thin Muck Surface ☐						D2 - Geomorp D5 - FAC-Neu			
		osits in Visible on Aerial Imagery									trai Test aved Hummocks (LRR F)		
	B9 - Water-St								_		(=::::,		
	Field Observations:												
Surface Water			Depth:		(in.)			Wetland H	lvdrology	Present?	N		
Water Table		Yes							, 3,		<u> </u>		
Saturation Pr	resent?	Yes	Depth:		(in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
							if available:						
Remarks:		or secondary indicators					if available:						
Remarks:							if available:						
Remarks: SOILS	No primary	or secondary indicators	of wetlar	nd hydrology	were obs	erved.		ndicators.)					
Remarks: SOILS Profile Descri	No primary		of wetlar	nd hydrology	were obs	erved.	e absence of ir						
Remarks: SOILS Profile Descri	No primary	or secondary indicators be to the depth needed etion, RM=Reduced Matrix, C	of wetlar	nd hydrology	were obs	erved. onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati						
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indicators be to the depth needed etion, RM=Reduced Matrix, C Matrix	to docum	nd hydrology ment the india I/Coated Sand (were obs	erved. onfirm the tion: PL=Pc	e absence of ir ore Lining, M=Matr	ix)					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indicators be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist)	to docur S=Covered	nd hydrology	were obs	erved. onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4	No primary iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist)	to docur S=Covered % 100	ment the india 3/Coated Sand (were obs	erved. onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr es Type	Location	SL		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indicators be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist)	to docur S=Covered	ment the india //Coated Sand (Color (I	were obs cator or co Grains; Loca Moist)	erved. onfirm the tion: PL=Pc Mottle	e absence of ir ore Lining, M=Matr es Type C	Location M	SL C	Mixed matrix.	Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-13	No primary ption (Descrintration, D=Depli Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 3/2	to docur S=Covered % 100 90	nent the india i/Coated Sand (Color (I Hue_10YR	were obs cator or co Grains; Loca Moist) 6/1 2/1	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr es Type C	Location M	SL C		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-13 NRCS Hydr	No primary ption (Descrintration, D=Depli Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 3/2	to docurres=Covered % 100 90 ere if ind	nent the india i/Coated Sand (Color (I Hue_10YR	were obs cator or co Grains; Loca Moist) 6/1 2/1 not presen	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SL C C				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-13 NRCS Hydr	No primary ption (Description, D=Deplication, D=De	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 3/2 Indicators (check has ipedon	to docur s=Covered % 100 90 ere if ind	nent the india //Coated Sand (Color (I Hue_10YR Hue_10YR Idicators are r S5 - Sandy R S6 - Stripped	were obs cator or co Grains; Loca Moist) 6/1 2/1 not presen edox Matrix	monfirm the tion: PL=Po Mottle % 5 5 tt):	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SL C C Indicators 1 A9 - 1 cm M A16 - Coast	for Problematie luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-13 NRCS Hydr	Ption (Descrintration, D=Depli Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 3/2 Indicators (check in the color of the	to docurres=Covered % 100 90 ere if inc	ment the indidicated Sand (Indicated Sand (Ind	were obs cator or co Grains; Loca Moist) 6/1 2/1 anot presen edox Matrix lucky Minera	monfirm the tion: PL=Po Mottle % 5 5 tt):	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SL C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematie luck (LRR I, J) Prairie Redox (urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w23-c1				
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)						
	(Plot size: 30 ft. radius)								
	Species Name	% Cover	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: 1 (B)				
5.					Total Number of Dominant Species Across All Strata.				
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				
		0			FACW spp. 0 x 2 = 0				
	Total Gover –	0	_		ΓΛΟ στο				
					FAC spp. 1 x 3 = 3				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 90 x 4 = 360				
1.					UPL spp. 10				
2.			-						
3.					Total 101 (A) 413 (B)				
4.					 -				
5.					Prevalence Index = B/A = 4.089				
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 /	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Trifolium pratense	60	Υ	FACU	r roblem riyurophytic vegetation (Explain)				
2.					* Indicators of hydric soil and wetland hydrology must be				
	Melilotus officinalis	20	N	FACU	present, unless disturbed or problematic.				
3.	Medicago sativa	10	N	NI					
4.	Setaria pumila	5	N	FACU	Definitions of Vegetation Strata:				
5.	Phleum pratense	5	N	FACU					
6	Sonchus arvensis	1	N	FAC	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.				
					Oupling/Official Control Present Control Contr				
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 =	101							
	Total Cover =	101	_						
	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
<u>'</u>	Total Cover =	0							
Domarke:	Vegetation is dominated by red clover.	U							
Remarks: Vegetation is dominated by red clover.									
Additional Remarks:									