WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/01/14	
Applicant:		Enbridge									County:	Red Lake	
Investigators	:	NTT/BEH			Subregion (MLRA or LRF				MLRA 56		State:	MN	
Soil Unit:	I59A	159A NWI Classification:											
Landform:	Depression	ssion Local Relief: CL								Sample Point	w-151n42w9-c2		
Slope (%):	16 - 25%		Latitude: 4			Longitude:			Datum:				
Are climatic/h	hydrologic co	nditions on the site	typical f	or this	time of yea	r? (If no, exp			⊡Yes	□ No	Section:		
Are Vegetation	on 📮 Soil	☐ or Hydrology	□gnific	antly o	disturbed?		Are	e normal circum	istances pre	esent?	Township:		
Are Vegetation	on 📮 Soil	☐ or Hydrology	□aturally	y prob	lematic?			Yes	□No		Range:	Dir:	
SUMMARY C	OF FINDINGS	6											
Hydrophytic Vegetation Present?									Hydric Soil	ls Present?	Yes		
Wetland Hyd	etland Hydrology Present?				Yes			Is This Sampling Point			t Within A W	etland? Yes	
Remarks:	The wetland cattail.	l is a shallow marsh	h located	d within	n a roadside	ditch adj	acent to	a railroad track	. Dominant	vegetation	includes ree	d canary grass and narrow-leaf	
HYDROLOG	Υ												
Wetland Hy	drology Indi	icators (Check all t	that appl	y; Min	imum of one	e primary	or two se	econdary requi	red):				
Primary:		N/				D44 C-14	O			Secondary:		Sail Canala	
A1 - Surface WaterA2 - High Water Table						B11 - Salt (B13 - Aqua						Soil Cracks	
	A3 - Saturatio					C1 - Hydro					☐ B8 - Sparsely Vegetated Concave Surface☐ B10 - Drainage Patterns		
	B1 - Water Ma					C2 - Dry Se	eason Wa	ter Table			C3 - Oxidized	Rhizospheres on Living Roots (tilled	
	B2 - Sedimen							pheres on Living	Roots (not till		C8 - Crayfish I		
	B3 - Drift Dep							duced Iron				n Visible on Aerial Imagery	
	B4 - Algal Mat B5 - Iron Depo					C7 - Thin N Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu		
		n Visible on Aerial Ima	agery		_	Otrici (Exp	iaii)					aved Hummocks (LRR F)	
	B9 - Water-St		3- 7									,	
Field Observ	vations:												
Surface Water	er Present?	Yes \square		Depth:		(in.)			Motland H	ludrologu I	Dracant?	V	
Water Table	Present?	Yes \square		Depth:		(in.)			wetiand h	lydrology I	Present?	Υ	
Saturation Pr	resent?	Yes \square		Depth:		(in.)						_	
LDescribe Reci	orded Data (s	tream gauge monito	oring well	Laeria	al photos pre	vious insp	ections)	if available:					
	· ·	stream gauge, monito					,		hytic vegets	ation preser	nt and landed	ane nocition	
Remarks:	· ·	stream gauge, monitors hydrology indicators					,		hytic vegeta	ation preser	nt and landsc	ape position.	
Remarks:	· ·						,		hytic vegeta	ation preser	nt and landsc	ape position.	
Remarks:	No primary	hydrology indicators	s presen	nt. We	tland hydrol	ogy is ass	umed ba	ased on hydrop		ation preser	nt and landsc	ape position.	
Remarks: SOILS Profile Descri	No primary		eded to d	nt. Wei	tland hydrole	ogy is ass	onfirm th	ased on hydrop e absence of in	dicators.)	ation preser	nt and landsc	ape position.	
Remarks: SOILS Profile Descri	No primary	hydrology indicators be to the depth nee	eded to d	nt. Wei	tland hydrole	ogy is ass	onfirm th	ased on hydrop e absence of in	dicators.)	ation preser	nt and landsc	ape position.	
Remarks: SOILS Profile Descri	No primary	hydrology indicators be to the depth nee	eded to d	nt. Wei	tland hydrole	ogy is ass	onfirm th	e absence of in ore Lining, M=Matr	dicators.)	ation preser	nt and landsc	ape position.	
Remarks: SOILS Profile Descri	No primary	hydrology indicators be to the depth nee	eded to d	nt. Wei	tland hydrole	ogy is ass cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matr	dicators.)	ation preser	nt and landsc	ape position. Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth nee etion, RM=Reduced Mat	eded to d	docum	ent the indic	ogy is ass cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matr	dicators.)		nt and landsc		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary Iption (Descrintration, D=Deple	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	s presen	docum overed//	ent the indic Coated Sand C Color (N	cator or corrains; Local	onfirm the	e absence of in ore Lining, M=Matr es Type	dicators.) x) Location	Texture	or Problemati	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) Indicators (che ipedon stic n Sulfide Layers (LRR F)	s presen	it. West	ent the indic Coated Sand C Color (N Color (N Color Sand Sand Sand Sand Sand Sand Sand Sand	cator or corrains; Local Moist) ot presen edox Matrix ucky Minera leyed Matrix Matrix Matrix Matrix	med based ba	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sg F16 - High F F18 - Reduc	or Problemati uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic	Remarks c Soils¹ (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-151n42w9-c2			
VEGETATION	(Species identified in all uppercase are	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: 2 (A)			
3.					Trainber of Borninant opcolor that are OBE, From, of Fro.			
					T. (D) (D)			
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.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 50 x 1 = 50			
-	Total Cover =	0			FACW spp. 50 x 2 = 100			
	-		_		FAC spp. 0 x 3 = 0			
Caaliaa (Chark C	Nest as (Dist size, 45 ft andias)				··· ———			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0			
1.					UPL spp. 0 x 5 = 0			
2.								
3.					Total 100 (A) 150 (B)			
4.								
5.					Prevalence Index = B/A = 1.500			
6.								
7.	J							
8.					Hydrophytic Vagetation Indicators:			
					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.	<u> </u>				X Dominance Test is > 50%			
	Total Cover = _	0	_		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Phalaris arundinacea	40	Υ	FACW				
2.	Typha angustifolia	40	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Carex pellita	10	N	OBL	present, unless disturbed or problematic.			
4.	Equisetum hyemale	10	N	FACW	Definitions of Vegetation Strata:			
5.	Equisitain nyemaic	10	11	TAOW	Definitions of Vegetation offata.			
					Tuna			
6				_	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7.					neight (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.	T	400			TYOOUY VIIIGS - 7 1000y Finos, Togardious of Holgin.			
	Total Cover =	100	_					
Woody Vine Str	atum (Plot size: 30 ft. radius)							
1.								
2.		-	-					
3.					Hydrophytic Vegetation Present? Y			
5.								
4.				-				
	Total Causer =	0		_				
Pomarka:	Total Cover = The wetland vegetation is dominated by reed	0	acc and n	arrow loof	Football			
Remarks:	The wettand vegetation is dominated by reed	canary gr	ass and n	arrow-ieai	Cattaii.			
Additional Remarks:								