WETLAND DETERMINATION DATA FORM Great Plains Region

		1											
Project/Site:		L3R								Date:	10/01/14		
Applicant:		Enbridge								County:	Red Lake		
Investigators	:	LEB/DGL			Subregion	n (MLRA or	r LRR):	MLRA 56		State:	MN		
Soil Unit:	139A			_,		NWI CI	lassification	:					
Landform:	Talf			Lo	cal Relief:	LL				Sample Point:	u-151n42w15-n1		
Slope (%):	0 - 2%		Latitude: 47.90			-96.025894		Datum:					
Are climatic/h	hydrologic co	nditions on the site	e typical for th	is time of yea	ar? (If no, exp	olain in remarks	s)		□ No	Section:			
Are Vegetation	on 🖵 Soil	☐ or Hydrology	□gnificantly	disturbed?		Are no	ormal circun	nstances pro	esent?	Township:			
Are Vegetation		or Hydrology					Yes	□No		Range:	Dir:		
SUMMARY C										3			
			No					Hydric Soi	ls Present?	No			
Hydrophytic Vegetation Present? Wetland Hydrology Present?				No .			Hydric Soils Present? No Is This Sampling Point Within A Wetland? No						
		sample point is lo		from a roads	side ditch v	wetland in a	a flat area of				ctiana: NO		
ixemaiks.	The upland	sample point is lo	cated upsiope	iioiii a ioau	side ditori	welland in a	a ilat alea oi	i a large cat	lie pasitire.				
HYDROLOG	Y												
Wetland Hy	drology Ind	icators (Check all	that apply; Mi	nimum of on	e primary	or two seco	ondary requi	red):					
Primary:	<u>:</u>								Secondary:				
A1 - Surface Water					B11 - Salt (B6 - Surface S			
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface	:e	
	A3 - Saturatio					gen Sulfide C				B10 - Drainage			
	B1 - Water M					eason Water		D			Rhizospheres on Living Ro	ots (tilled)	
	B2 - Sedimen B3 - Drift Dep					ea Knizospne nce of Reduc	eres on Living	Roots (not till		C8 - Crayfish E	Burrows n Visible on Aerial Imagery		
l H	B4 - Algal Ma					luck Surface				D2 - Geomorp			
l H	B5 - Iron Dep				Other (Expl		;			D5 - FAC-Neut			
		n Visible on Aerial Im	agery	_	Otrici (Expi	iairi)					aved Hummocks (LRR F)		
	B9 - Water-St		lagery						_	D7 110001100	rea Hammooko (Eratti)		
_													
Field Observ	vations:												
Surface Water		V □	Danth		(in)								
			Depth		(in.)			Wetland F	lydrology I	Present?	N		
Water Table		Yes 🔲			(in.)						_		
Saturation Pr	resent?	Yes 🚨	Saturation Present? Yes Depth: (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Reco	orded Data (s	stream gauge, moni	itoring well, aer	ial photos, pro	evious insp	ections), if a	available:						
							available:						
Remarks:		stream gauge, moni or secondary indic					available:						
Remarks:							available:						
Remarks: SOILS	No primary	or secondary indic	cators of wetla	nd hydrology	were obse	erved.		ndicators.)					
Remarks: SOILS Profile Descri	No primary		cators of wetla	nd hydrology	were obse	erved.	absence of ir						
Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth ne	cators of wetla	nd hydrology	were obse	erved.	absence of ir						
Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth ne	cators of wetla	nd hydrology	were obse	erved. onfirm the a	absence of ir Lining, M=Mate						
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indices be to the depth ne etion, RM=Reduced Matrix	eeded to docur	nd hydrology ment the indi d/Coated Sand	were observed on the control of the	erved. onfirm the a tion: PL=Pore Mottles	absence of ir Lining, M=Mati	rix)	Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docuratrix, CS=Covered	nd hydrology	were observed on the control of the	erved. onfirm the a	absence of ir Lining, M=Mate		Texture		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docuratrix, CS=Covered	nd hydrology ment the indi d/Coated Sand	cator or co	erved. onfirm the a tion: PL=Pore Mottles	absence of ir Lining, M=Mati	rix)			Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 2/1 4/3	eded to docur eatrix, CS=Covered % 100 95	ment the indi di/Coated Sand (Color (I Hue_10YR	cator or co Grains; Locat Moist) 4/6 not present	onfirm the a ation: PL=Pore Mottles % 5	absence of ir Lining, M=Mati Type	Location M	SICL CL Indicators 1	for Problematic			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 4/3 Indicators (chippedon	eeded to documentarix, CS=Covered % 100 95 neck here if inc	ment the indi d/Coated Sand of Color (I) Hue_10YR dicators are r S5 - Sandy R S6 - Stripped	were observed where observed were observed with the observed were observed where observed were observed which were observed where observed were observed where observed were observed which were observed where observed were observed which we will also an experience which which were observed	onfirm the a dion: PL=Pore Mottles % 5 tt):	absence of ir Lining, M=Mati Type	Location M	SICL CL Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 4/3 Indicators (chairs)	eded to docuratrix, CS=Coverer % 100 95 eeck here if inc	ment the indi d/Coated Sand of Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M	were observed where observed were observed with the control of the	onfirm the a ation: PL=Pore Mottles % 5 tt):	absence of ir Lining, M=Mati Type	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S6	luck (LRR I, J) Prairie Redox (urface (LRR G)	: <u>Soils¹</u> LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Histic Ep A4 - Hydroge	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/3 Indicators (ch	eded to document in the control of wetland i	ment the indi di/Coated Sand of Color (I Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G	cator or co Grains; Locat Moist) 4/6 anot present edox Matrix Mucky Minera Gleyed Matrix	onfirm the a ation: PL=Pore Mottles % 5 tt):	absence of ir Lining, M=Mati Type	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-n1
VEGETATION		e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Quercus macrocarpa	10	Υ	FACU	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 4 (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 =	10			FACW spp. 10
	10101 00101	10	_		FAC spp. 0 x 3 = 0
Capling/Chrub (Stratum (Plot cizo: 15 ft radius)				
	Stratum (Plot size: 15 ft. radius)				· · · · · · · · · · · · · · · · · · ·
1. 2.					UPL spp 0
					Tatal (40) (A) (D)
3.					Total 110 (A) 420 (B)
4.					
5.					Prevalence Index = B/A = 3.818
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) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phleum pratense	20	Υ	FACU	
2.	Poa pratensis	20	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Trifolium hybridum	20	Y	FACU	present, unless disturbed or problematic.
4.	Taraxacum officinale	15	N	FACU	Definitions of Vegetation Strata:
5.	Agrostis gigantea	10	N	FACW	Definitions of Vegetation offata.
6	Achillea millefolium	5	N	FACU	Tree
7.		5			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
	Symphyotrichum ericoides		N	FACU	
8.	Melilotus officinalis	5	N	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
9.				_	Sapling/Snrub - Woody plants less than 3 m. DBH, Tegardiess 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 Str	ratum (Plot size: 30 ft. radius)				
1.	,				
2.					
3.					Hydrophytic Vegetation Present? N
5.					in a regulation resonate
4.				_	
+.	Total Carrar -	0			
Domarka:	Total Cover = The vegetation is dominated by non-hydroph	0	<u></u>		
Remarks:	the vegetation is dominated by non-nydroph	yuc specie	:5.		
Additional R	Remarks:				