WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R									Date:	09/30/14								
Applicant:		Enbridge									County:	Red Lake								
Investigators	s:	LEB/DGL				Subregion	ı (MLRA	or LRR):	MLRA 56		State:	MN								
Soil Unit:	159A						•	Classification												
Landform:					Lo	cal Relief:		Olassincation			Comple Deint	u 454p42w45 f4								
	Side slope										Sample Point:	u-151n42w15-f1								
Slope (%):	0 - 2%		Latitude: 47			Longitude:			Datum:											
Are climatic/	hydrologic co	onditions on the site	e typical fo	or this	time of year	ar? (If no, exp	lain in rema	ırks)	⊡Yes	□ No	Section:									
Are Vegetati	on 🛘 Soi	I ☐ or Hydrology	□anifica	antly d	isturbed?		Are	normal circun	nstances pro	esent?	Township:									
Are Vegetati		I □ or Hydrology						Yes	□No		Range:	Dir:								
SUMMARY			Littarany	y probi	cmatio:			00			range.	Dii.								
Hydrophytic			No			-			Hydric Soi	Is Present?	No									
Wetland Hyd	drology Prese	ent?	No	lo					Is This Sai	mpling Poin	nt Within A We	etland? No								
Remarks:		sample point is lo	cated sligh	htlv up	slope from	the wetlar	nd in a la	rge cattle past	ure.											
			.	. 7 - 1				3												
HYDROLOG	Υ																			
Wetland Hy	drology Ind	licators (Check all	that annly	v. Minii	mum of on	e nrimary	or two se	econdary requi	red).											
Primary		ilcators (Oncok an	triat apply	y, iviii iii	illulli oi oli	c primary v	or two sc	condary requi	icu).	Cocondon										
	A1 - Surface	Mator				D11 Calt (Struct			Secondary:		oil Cracks								
l H				□ B11 - Salt Crust□ B13 - Aquatic Fauna							☐ B6 - Surface Soil Cracks ☐ B8 - Sparsely Vegetated Concave Surface									
l H	A2 - High Wa							e Odor \square												
l H	A3 - Saturation					C2 - Dry Se					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)									
	B1 - Water M								Daata (aat #11				(tilled)							
	B2 - Sedimer							pheres on Living	Roots (not till		C8 - Crayfish E									
	B3 - Drift Dep					C4 - Preser					D2 - Geomorpi	Visible on Aerial Imagery								
	B4 - Algal Ma					C7 - Thin M		ice												
	B5 - Iron Dep					Other (Expl	ain)				D5 - FAC-Neut									
		on Visible on Aerial Im tained Leaves	iagery								D7 - Frost-Hea	ved Hummocks (LRR F)								
	B9 - water-S	tained Leaves																		
Field Obser	vations:																			
Surface Wat	er Present?	Ves 🗆	D(enth.		(in)														
	Surface Water Present? Yes Depth: (in.) Wetland Hydrolog									lydrology l	Present?	N								
Water Table Present? Yes □ Depth: (in.)																				
				_							Saturation Present? Yes Depth: (in.)									
				_		(in.)														
Saturation P	resent?	Yes \square	De	epth:		(in.)	ections)	if available:												
Saturation P Describe Rec	resent? corded Data (Yes stream gauge, moni	De itoring well,	epth: , aerial	l photos, pre	(in.) evious insp		if available:												
Saturation P	resent? corded Data (Yes \square	De itoring well,	epth: , aerial	l photos, pre	(in.) evious insp		if available:												
Saturation P Describe Rec Remarks:	resent? corded Data (Yes stream gauge, moni	De itoring well,	epth: , aerial	l photos, pre	(in.) evious insp		if available:												
Saturation P Describe Rec	resent? corded Data (Yes stream gauge, moni	De itoring well,	epth: , aerial	l photos, pre	(in.) evious insp		if available:												
Saturation P Describe Rec Remarks:	resent? corded Data (i No primary	Yes stream gauge, moni	itoring well,	epth: , aerial vetland	l photos, pre	(in.) evious insp were obse	erved.		ndicators.)											
Saturation P Describe Red Remarks: SOILS Profile Descr	resent? corded Data (in No primary iption (Description)	Yes stream gauge, monior secondary indicates	itoring well, cators of we	Depth:	I photos, production of the photos, production of the indicate the indicate of	(in.) evious insp were obse	erved.	e absence of ir												
Saturation P Describe Red Remarks: SOILS Profile Descr	resent? corded Data (in No primary iption (Description)	Yes stream gauge, monior secondary indicates to the depth ne	itoring well, cators of we	Depth:	I photos, production of the photos, production of the indicate the indicate of	(in.) evious insp were obse	erved.	e absence of ir												
Saturation P Describe Red Remarks: SOILS Profile Descr	resent? corded Data (in No primary iption (Description)	Yes stream gauge, monior secondary indicates to the depth neletion, RM=Reduced Market Street	itoring well, cators of we	Depth:	I photos, production of the photos, production of the indicate the indicate of	(in.) evious insp were obse	erved.	e absence of ir ore Lining, M=Mati		I										
Saturation P Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce	resent? corded Data (in No primary iption (Description)	Yes stream gauge, monior secondary indicates to the depth nedetion, RM=Reduced Matrix	Deitoring well, cators of we eeded to do atrix, CS=Con	Depth:	I photos, production of the indicated Sand G	(in.) evious insp were obse cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr	ix)											
Saturation P Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce	resent? corded Data (: No primary iption (Description, D=Dep	Yes stream gauge, monior secondary indicates to the depth neletion, RM=Reduced Matrix Color (Moist)	Deitoring well, cators of weeded to do atrix, CS=Cov	Depth:	I photos, production of the photos, production of the indicate the indicate of	(in.) evious insp were obse cator or co Grains; Locat	erved.	e absence of ir ore Lining, M=Mati		Texture		Remarks								
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Saturation P Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce	resent? corded Data (: No primary iption (Description, D=Dep	Yes stream gauge, monior secondary indicates to the depth neletion, RM=Reduced Matrix Color (Moist)	Deitoring well, cators of weeded to do atrix, CS=Cov	Depth:	I photos, production of the indicated Sand G	(in.) evious insp were obse cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr	ix)			Remarks								
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Saturation P Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-18 NRCS Hydi	resent? corded Data (No primary iption (Description, D=Dep Hue_10YR A1- Histosol A2 - Histoic Eq A3 - Black Hi A4 - Hydroge	Yes stream gauge, monior secondary indicators Stream gauge, monior secondary indicators Matrix Color (Moist) 2/1 Indicators (chapted on stice of suppose of stice on Sulfide	Deitoring well, cators of weeded to do atrix, CS=Con	ocume vetland ocume vetland if indic S F F	ent the indicated Sand (Color (I	(in.) evious insp were obse cator or co Grains; Locat Moist) not present edox Matrix lucky Minera eleyed Matrix	erved. Infirm the ion: PL=Pc Mottle % iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹								
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Saturation P Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce) Depth (In.) 0-18 NRCS Hydi	resent? rorded Data (No primary iption (Descritation, D=Dep Hue_10YR A1- Histosol A2- Histic Er A3- Black Hi A4- Hydroge A5- Stratified A9- 1 cm Mu A11- Deplete	Yes stream gauge, monior secondary indicators Indicators (chapted and indicators)	Deitoring well, cators of weeded to do atrix, CS=Con	ocume ocume overed/C % 100 if indic S F F F F F F F F F F F F	cators are r S5 - Sandy R 66 - Stripped F1 - Loamy N F2 - Loamy G 67 - Depleted F7 - Depleted	(in.) evious insp were obse cator or co Grains; Locat Moist) not present edox Matrix lucky Minera lieyed Matrix Matrix ark Surface Dark Surface	months and the served. Mottle % it):	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material Shallow Dark S	E Soils 1 LRR F, G, H) NS (LRR H, outside MLRA 72, 73)								
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-f1
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: 1 (A)
3.					(v)
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					Total Number of Dominant Species Across All Strata(B)
					D
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 10 x 1 = 10
	Total Cover =	0			FACW spp. 25 x 2 = 50
	-		_		FAC spp. 0 x 3 = 0
Sanling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 65 x 4 = 260
1.	To its radiate)				UPL spp. 0 x 5 = 0
2.					
3.					Total 100 (A) 220 (D)
					Total 100 (A) 320 (B)
4.					
5.					Prevalence Index = B/A = 3.200
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) *
Herh Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phleum pratense	30	Υ	FACU	rroblem riyarophytic vegetation (Explain)
2.	Agrostis gigantea	25	· Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Carex pellita	10	N N	OBL	present, unless disturbed or problematic.
4.	Taraxacum officinale		N	FACU	Definitions of Vegetation Strata:
		10	N	FACU	Definitions of vegetation strata.
5.	Trifolium hybridum	10			
6	Lotus comiculatus	10	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	Poa pratensis	5	N	FACU	neight (DDH), 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.				-	
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
	10101 30001	.00	_		
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.	atam (lot oizo. oo it radias)				
2.					
3.					Hydrophytic Vocatation Brosset3
					Hydrophytic Vegetation Present? N
5.					
4.				_	
D '	Total Cover =	0		h	dentally areas d
Remarks:	The vegetation is dominated by non-hydrophy	ytic specie	s and has	been mo	derately grazed.
Additional R	emarks:				