WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/02/14	
Applicant:		Enbridge								County:	Red Lake	
Investigators		LEB/DGL			Subregion	n (MI RA	or LRR)	MLRA 56		State:	MN	
Soil Unit:	I39A	LLD/D OL	l l		_oubrogioi	•	Classification:			Oldio.	- Thirt	
					aal Daliafi		Ciassilication	·			4544045.44	
Landform:	Side slope				cal Relief:		100			Sample Point:	u-151n42w15-t1	
Slope (%):	0 - 2%		Latitude: 47.9		Longitude:			Datum				
Are climatic/		nditions on the site		nis time of yea	ar? (If no, exp			⊡Yes	□ No	Section:		
Are Vegetati	on 🖵 Soil	☐ or Hydrology	□gnificantly	v disturbed?		Are	normal circun	nstances pr	esent?	Township:		
Are Vegetati		☐ or Hydrology					Yes	□No		Range:	Dir:	
SUMMARY O			p	, , , , , , , , , , , , , , , , , , ,						rango.	5	
Hydrophytic '	•		No		_				ils Present?			
Wetland Hyd			No						mpling Poir	nt Within A We	etland? No	
Remarks:	The upland	sample point is loo	cated upslope	from the we	tland on a	slight slo	ope in a hay fie	ld.				
	•					•						
HYDROLOG	V											
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all	that apply: M	inimum of on	e primary	or two se	econdary requi	red):				
Primary		(, , , , ,				Secondary	,		
	A1 - Surface	Nater		П	B11 - Salt (Crust				B6 - Surface S	oil Cracks	
I =	A2 - High Wa				B13 - Aqua						Vegetated Concave Surfa	ace
1 5	A3 - Saturation				C1 - Hydro					B10 - Drainage		100
I	B1 - Water M				C2 - Dry Se						Rhizospheres on Living R	Roots (tilled)
1 6	B2 - Sedimen						pheres on Living	Roots (not til		C8 - Crayfish E		tooto (tilled)
	B3 - Drift Dep				C4 - Prese			rtooto (not tii			n Visible on Aerial Imager	ov
1 6	B4 - Algal Ma				C7 - Thin M					D2 - Geomorp		,
1	B5 - Iron Dep				Other (Exp		100			D5 - FAC-Neut		
1 6		n Visible on Aerial Im	agery	_	Other (Exp	iaii)					ived Hummocks (LRR F)	•
	B9 - Water-S		lager y						_	D7 - 1103(-1100	ived Hallimocks (ERRY)	
	Do Water o	dirica Ecaveo										
Field Obser	vations:											
Surface Wat	er Present?	Yes	Depth	n:	(in.)			VA/41		D40	NI.	
Water Table	Present?	Yes	Denth	1:	(in.)			wetiand i	Hydrology	Present?	N	
Saturation P		Yes			(in.)						-	
Saturation	i eserit:	res 🗀	Depth	I.	(111.)							
					. ,							
Describe Rec	orded Data (s	stream gauge, moni	toring well, ae	rial photos, pr		ections),	if available:					
					evious insp		if available:					
Describe Rec Remarks:		stream gauge, moni or secondary indic			evious insp		if available:					
Remarks:					evious insp		if available:					
Remarks:	No primary	or secondary indic	cators of wetla	and hydrology	evious insp	erved.						
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetla	and hydrology ment the indi	evious insp	erved.	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetla	and hydrology ment the indi	evious insp	erved.	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetla	and hydrology ment the indi	evious insp	erved.	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetla	and hydrology ment the indi	evious insp	erved.	e absence of ir ore Lining, M=Mati					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indices be to the depth ne etion, RM=Reduced Matrix	eeded to docu	ment the indi	evious insp were obsor- cator or co Grains; Locat	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concei	No primary	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu	ment the indi	evious insp were obsor- cator or co Grains; Locat	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Mati		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-22	No primary iption (Descriptration, D=Depl	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/2	eeded to docu eatrix, CS=Covere	ment the indi d/Coated Sand Color (i	cator or cc Grains; Locat Moist)	onfirm the tion: PL=Pe Mottle % 2	e absence of ir ore Lining, M=Matr es Type C	Location	SCL CL			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-22 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to docu eatrix, CS=Covere % 100 98	ment the indi d/Coated Sand (Color () Hue_10YR dicators are r	cator or cc Grains; Locat Moist) 3/6 not present	monfirm the lion: PL=Po Mottle % 2 tt):	e absence of ir ore Lining, M=Matr es Type C	Location M	Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-22 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 4/2 Indicators (ch	eded to docularity, CS=Covere % 100 98 eeck here if in	ment the indi d/Coated Sand of Color (I) Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy G	cator or cc Grains; Locat Moist) 3/6 and present	erved. confirm the tion: PL=Po Mottle % 2 2 tt):	e absence of ir ore Lining, M=Matr es Type C	Location M	Indicators is A9 - 1 cm M A16 - Coasts S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-22 NRCS Hydr	No primary iption (Descritation, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eded to docu eatrix, CS=Covere % 100 98 eeck here if in	ment the indi d/Coated Sand of Color (i) Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depletec F6 - Redox D F7 - Depletec	cator or co Grains; Locat Moist) 3/6 and present edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface	months and the served. Mottle % 2 tt):	e absence of ir ore Lining, M=Matr es Type C	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) : Prairie Redox (urface (LRR G) Plains Depression ded Vertic	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-22 NRCS Hydr	No primary Iption (Description (Description) Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifice A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (chairpedon strice in Sulfide Layers (LRR F) of (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR Fleyed Matrix	eeded to docu	ment the indi id/Coated Sand in Color (i Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	cator or co Grains; Locat Moist) 3/6 anot present edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	months of the served of the se	e absence of ir ore Lining, M=Matr es Type C	Location M C C C C C C C C C C C C	Indicators 1 A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S Sain in Remarks)	E Soils¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Sturface	st be present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-t1			
VEGETATION		non-native	species.)					
Tree Stratum (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: 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 =	0			FACW spp. 5 x 2 = 10			
	-		_		FAC spp. 0 x 3 = 0			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 65 x 4 = 260			
1.	Rosa arkansana	10	Υ	FACU	UPL spp. 40 X 5 = 200			
2.								
3.					Total 110 (A) 470 (B)			
4.					· · · · · · · · · · · · · · · ·			
5.					Prevalence Index = B/A = 4.273			
6.					1 Tevalcrice findex = D/A = 4.273			
7.	_							
8.					Hydrophytic Veretation Indicators			
					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.		40			Dominance Test is > 50%			
	Total Cover =	10	_		Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Fragaria virginiana	30	Y	FACU				
2.	Bromus inermis	30	Υ	UPL	* Indicators of hydric soil and wetland hydrology must be			
3.	Poa pratensis	20	Υ	FACU	present, unless disturbed or problematic.			
4.	Solidago nemoralis	10	N	NI	Definitions of Vegetation Strata:			
5.	Symphyotrichum ericoides	5	N	FACU				
6	Symphyotrichum lanceolatum	5	N	FACW	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.								
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.	(1.100 0120. 00 10 10 10 100)							
2.				_				
3.					Hydrophytic Vegetation Present? N			
5.					Trydrophytic vegetation resent:			
4.				_				
→.	Total Cover =	0		_				
Demarke:			10					
Remarks: The vegetation is dominated by non-hydrophytic species.								
Additional R	emarks:							