WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/30/14
Applicant:		Enbridge								County:	Red Lake
Investigators	·	LEB/DGL			Subregion	n (MI RA	or LRR):	MLRA 56		State:	MN
Soil Unit:										Otato.	
Landform:	Side slope				aal Daliafi		Ciassilication	·			454×40×45 ×4
			4= 0		cal Relief:					Sample Point:	u-151n42w15-c4
Slope (%):	0 - 2%		Latitude: 47.90		Longitude:			Datum:			
Are climatic/		nditions on the site		is time of yea	ar? (If no, exp			⊡Yes	□ No	Section:	
Are Vegetati	on 🖵 Soil	☐ or Hydrology	□gnificantly	/ disturbed?		Are	normal circun	nstances pr	esent?	Township:	
Are Vegetati		☐ or Hydrology					Yes	□No		Range:	Dir:
SUMMARY (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						rango.	5
Hydrophytic '			No		_				Is Present?		
Wetland Hyd			No					Is This Sa	mpling Poir	nt Within A We	etland? No
Remarks:	The sample	point is located sl	lightly upslope	from the we	tland in a l	large catt	le pasture.				
	•					-					
HYDROLOG	V										
HYDROLOG	ĭ										
Wetland Hy	drology Ind	icators (Check all	I that apply; M	inimum of on	e primary	or two se	condary requi	red):			
Primary			,		- 1 - 7		, , ,	,	Secondary:	:	
	A1 - Surface	Nater			B11 - Salt (Crust				B6 - Surface S	oil Cracks
I 🗆	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
I 🗆	A3 - Saturation				C1 - Hydro		e Odor			B10 - Drainage	
I =	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Roots (tille
I 🗆	B2 - Sedimen	t Deposits					pheres on Living	Roots (not till		C8 - Crayfish E	
I =	B3 - Drift Dep				C4 - Prese			(Nisible on Aerial Imagery
I 🗆	B4 - Algal Ma				C7 - Thin N	Nuck Surfac	ce			D2 - Geomorp	
I 🗆	B5 - Iron Dep				Other (Exp				□	D5 - FAC-Neut	tral Test
		n Visible on Aerial Im	nagery		` .	,				D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	ained Leaves	0 ,								,
Field Obser	vations:										
		_									
Surface Wat	er Present?	Yes \square	Depth	1:	(in.)			Wetland F	lydrology	Drosont?	N
Water Table	Present?	Yes \square	Depth	1:	(in.)			vvetiana i	iyarology	i resent:	14
Saturation P	resent?	Yes	Depth		(in.)						
Catalon Foods (ii.)											
					• • •						
Describe Rec		stream gauge, moni					if available:				
Describe Rec Remarks:		stream gauge, moni					if available:				
							if available:				
Remarks:							if available:				
Remarks:	No primary	or secondary indic	cators of wetla	and hydrology	were obs	erved.		ndicators)			
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetla	and hydrology	were obs	erved.	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetla	and hydrology	were obs	erved.	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth ne	cators of wetla	and hydrology	were obs	erved. onfirm the tion: PL=Po	e absence of ir		ı		
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	were obscartor or co	erved. Onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati	ix)			
Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth ne	cators of wetla	and hydrology	were obscartor or co	erved. onfirm the tion: PL=Po	e absence of ir		Texture		Remarks
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	were obscartor or co	erved. Onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati	ix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary iption (Descr	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covere	ment the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mati es Type	Location	SICL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary iption (Descr	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covere	ment the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mati es Type	Location	SICL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No primary iption (Descr	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3	eeded to docu atrix, CS=Covere	ment the indi d/Coated Sand Color (i	cator or cc Grains; Local Moist)	onfirm the tion: PL=Po Mottle 2	e absence of ir ore Lining, M=Mati es Type	Location	SICL CL		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 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 Matrix Color (Moist) 2/1 4/3 Indicators (chairs)	eeded to docu atrix, CS=Covere % 100 98	ment the indid/Coated Sand Color (I) Hue_10YR dicators are r	were observed where observed were observed with the control of the	onfirm the tion: PL=Po Mottle 2 2 tt):	e absence of ir ore Lining, M=Mati es Type C	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) : Prairie Redox (urface (LRR G)	: Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/3 Indicators (ch	eeded to docu atrix, CS=Covere % 100 98 neck here if in	ment the indid/Coated Sand Color (I Hue_10YR J S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	were obs cator or co Grains; Local Moist) 4/6 4/6 not presen edox Matrix Mucky Minera Eleyed Matrix Matrix Matrix Matrix	onfirm the tion: PL=Po Mottle % 1 t):	e absence of ir ore Lining, M=Mati 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 Depressio	: <u>Soils¹</u> LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-c4				
VEGETATION	(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.	Populus tremuloides	10	Υ	FAC					
2.	Quercus macrocarpa	5	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)				
3.					`` <i></i> `` /				
4.					Total Number of Dominant Species Across All Strata: 5 (B)				
5.					Total Number of Bonnian opposite / til ottala.				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)				
7.					reicent of borninant species that Ale OBL, I AGW, of I AG.				
					<u> </u>				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.]				OBL spp. 20 x 1 = 20				
	Total Cover =	15	_		FACW spp. 10				
					FAC spp. 15 x 3 = 45				
Sapling/Shrub Stratum (Plot size: 15 ft. radius)					FACU spp. 75 x 4 = 300				
1.	Populus tremuloides	5	Υ	FAC	UPL spp. 0 x 5 = 0				
2.					··· 				
3.					Total 120 (A) 385 (B)				
4.					(5)				
5.					Prevalence Index = B/A = 3.208				
					Prevalence Index = B/A = 3.208				
6.	_								
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	5			Prevalence Index is ≤ 3.0 *				
	•		_		Morphological Adaptations (Explain) *				
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phleum pratense	30	Υ	FACU					
2.	Trifolium hybridum	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Carex pellita	15	N	OBL	present, unless disturbed or problematic.				
4.	Taraxacum officinale		N						
		15		FACU	Definitions of Vegetation Strata:				
5.	Agrostis gigantea	10	N	FACW	-				
6	Carex granularis	5	N	OBL	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.				
15.	T.1.0	400			TYOOUY VIIIGS - 7 1000, 1000, 1000 or 100gill.				
	Total Cover =	100	_						
-	atum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.				_					
4.									
г.	Total Cover =	0							
Remarks:			e and ie h	eavily ara	70d				
Remarks: The vegetation is dominated by non-hydrophytic species and is heavily grazed.									
Additional Remarks:									