WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/04/14
Applicant:		Enbridge								County:	Red Lake
Investigators	·	NTT/BEH			Sul	oregion (MLF	RA or LRR).	MLRA 56		State:	MN
Soil Unit:	ors: NTT/BEH Subregion (MLRA or LRR): MLRA 56 I50A NWI Classification:								Olulo.		
Landform:	Rise				Lasali		vi Ciassilication	·		0 I . D	454=4040 =2
				= 0.10001		Relief: VV	2015			Sample Point	u-151n42w10-e3
Slope (%):	3 - 7%		Latitude: 4			ngitude: -96.0		Datum			
Are climatic/		nditions on the site		or this time	of year?			⊡Yes	□ No	Section:	
Are Vegetati	on 🖵 Soi	I ☐ or Hydrology	□gnifica	antly disturb	ed?	<i>A</i>	re normal circur	nstances pr	esent?	Township:	
Are Vegetati		or Hydrology					Yes	□No		Range:	Dir:
SUMMARY (problemat	• •					rtango.	5
Hydrophytic	0		<u>N</u>						ils Present?		
Wetland Hyd			N					Is This Sa	mpling Poin	nt Within A W	etland? No
Remarks:	The upland	point is located wi	ithin an as	pen forest.	Scattered	d groundcove	r vegetation is p	resent with	mostly bare	soils. Domin	ant vegetation is quaking asper
	and gray do	gwood.									
HYDROLOG											
HIDKOLOG	I										
Wetland Hy	drology Ind	icators (Check all	I that apply	y; Minimum	of one pr	imary or two	secondary requi	red):			
Primary	:	,			•	•		•	Secondary:		
						- Salt Crust			B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			□ B13	- Aquatic Fau	na			B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturation				☐ C1	- Hydrogen Su	fide Odor			B10 - Drainage	e Patterns
	B1 - Water M	arks			☐ C2	- Dry Season \	/ater Table				Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	t Deposits					ospheres on Living	Roots (not til	le 🔲	C8 - Crayfish E	Burrows
	B3 - Drift Dep					 Presence of I 					n Visible on Aerial Imagery
	B4 - Algal Ma					- Thin Muck St	rface			D2 - Geomorp	
	B5 - Iron Dep				☐ Oth	er (Explain)				D5 - FAC-Neu	
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Field Obser	vations:										
	er Present?	Yes 🔲	D	lonth:		in \					
		_		epth:		(in.)		Wetland H	Hydrology I	Present?	N
Water Table		Yes 🔲	D	epth:		in.)			•		
Saturation P	resent?	Yes \square	D	epth:	((in.)					
Describe Rec	orded Data (stream gauge moni	itorina well	aerial nhote	ns nrevio	us inspection	t) if available:				
		stream gauge, moni			os, previo	us inspection	s), if available:				
Describe Rec Remarks:		stream gauge, moni hydrology indicato			os, previo	us inspection	s), if available:				
Remarks:					os, previo	us inspection	s), if available:				
					os, previo	us inspection	s), if available:				
Remarks:	No wetland		ors presen	t.	·	·		ndicators.)			
Remarks: SOILS Profile Descr	No wetland	hydrology indicato	ors presen	t.	e indicato	or or confirm	the absence of in				
Remarks: SOILS Profile Descr	No wetland	hydrology indicator	ors presen	t.	e indicato	or or confirm	the absence of in				
Remarks: SOILS Profile Descr	No wetland	hydrology indicators ibe to the depth ne	ors presen	t.	e indicato	or or confirm s; Location: PL	the absence of in				
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix	ors presen	ocument the	e indicato Sand Grain	or or confirm s; Location: PL Mo	the absence of in Pore Lining, M=Mat tles	rix)	Toyturo		Pomarko
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to d	ocument the	e indicato	or or confirm s; Location: PL Mo	the absence of in		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland iption (Descriptration, D=Depi	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to d	ocument the overed/Coated % Coated	e indicato Sand Grain	or or confirm s; Location: PL Mo	the absence of in Pore Lining, M=Mat tles	rix)	SCL		Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-10 10-20 NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	hydrology indicators ibe to the depth neetion, RM=Reduced Mis Matrix Color (Moist) 2/1 7/1 4/2 Indicators (chair)	eeded to deatrix, CS=Co	t. ocument the overed/Coated % Ci 100 100 100 100 if indicators □ S5 - Sa □ S6 - St	e indicato Sand Grain Dior (Mois are not p	Moott) %	the absence of in Pore Lining, M=Mattles Type	Location	SCL VFS C Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
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Remarks: SOILS Profile Descr (Type: C=Conce) Depth (In.) 0-6 6-10 10-20 NRCS Hydi	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu	hydrology indicators ibe to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 7/1 4/2 Indicators (chapiedon stic in Sulfide il Layers (LRR F) ck (LRR FGH)	eeded to d atrix, CS=Co	S5 - Sa S6 - St F1 - Lo F3 - De F6 - Re	e indicato Sand Grain Dior (Mois are not p ndy Redox ipped Mat amy Muck amy Gleye pleted Mat dox Dark s	mor or confirm s; Location: PL Mo st) % present): crix y Mineral d Matrix rix Surface	the absence of in Pore Lining, M=Mattles Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S1 F16 - High F F18 - Reduc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material	C Soils (LRR F, G, H)
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Remarks: SOILS Profile Descr (Type: C=Conce	Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D	hydrology indicators ibe to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 7/1 4/2 Indicators (chairpedon stic in Sulfide ILayers (LRR F) ck (LRR FGH) and Below Dark Surface ark Surface	eeded to d atrix, CS=Co	## Colument the overed/Coated % Col	e indicatc Sand Grain Dlor (Mois are not p are not p any Muck- amy Gleye pleted Mat dox Dark s pleted Dark dox Depre	mor or confirms; Location: PL Moost) % present): crix y Mineral d Matrix rix Sourface k Surface ssions	the absence of in Pore Lining, M=Mattes Type	Location	Indicators f A9 - 1 cm f A16 - Coast S7 - Dark S0 F16 - High F TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w10-e3					
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	50	Υ	FAC						
2.	Quercus macrocarpa	20	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)					
3.			•	17100	(1)					
					Total Number of Deminent Cossiss Assess All Charter F (D)					
4.					Total Number of Dominant Species Across All Strata: (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp. 0 x 1 = 0					
	Total Cover =	70			FACW spp. 0 x 2 = 0					
	10101 00101		_		FAC spp. 70 x 3 = 210					
0 - 1 - 10 - 10	Olasta a (Distaina 45 fi and a)				· · · · · · · · · · · · · · · · · · ·					
	Stratum (Plot size: 15 ft. radius)			E40	FACU spp. 45					
1.	Cornus racemosa	20	Υ	FAC	UPL spp. 0 x 5 = 0					
2.										
3.					Total 115 (A) 390 (B)					
4.			-	-						
5.					Prevalence Index = B/A = 3.391					
6.										
7.	-									
					Hudronbutta Vanatation Indicators					
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
	Total Cover =	20	_		Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Poa pratensis	15	Υ	FACU						
2.	Fragaria virginiana	10	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.					present, unless disturbed or problematic.					
4.					Definitions of Vegetation Strata:					
5.					Definitions of Vegetation offata.					
				-	Tree					
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.										
15.					Woody Vines - All woody vines, regardless of height.					
13.	T				**************************************					
	Total Cover =	25	_							
Woody Vine Str	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.					, , , , <u> </u>					
4.										
· · ·	Total Cover =									
Total Cover = 0 Remarks: The upland vegetation is dominated by quaking aspen and gray dogwood.										
Remarks: The upland vegetation is dominated by quaking aspen and gray dogwood.										
Additional Remarks:										