WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/17/14	
Applicant:		Enbridge								County:	Red Lake	
Investigators	s:	KRG/BCS		Subregion (MLRA or			or LRR):	MLRA 56		State:	MN	
Soil Unit:	I59A NWI Classification:											
Landform:	Talf				Local Relief	: LL				Sample Point	u-151n41w19-e1	
Slope (%):	0 - 2%		Latitude: 47	7 877776		: -95.9626	6352	Datum:	•			
		onditions on the site						⊡Yes	□No	Section:		
							normal circun			1		
Are Vegetati		or Hydrology		antly disturbed		Ale			esent	Township:		
Are Vegetati		I ☐ or Hydrology	Laturally	problematic	?		✓ Yes	□No		Range:	Dir:	
SUMMARY (
Hydrophytic	Vegetation P	resent?	No	0				Hydric Soi	Is Present?	No		
Wetland Hyd	drology Prese	ent?	No	0				Is This Sa	mpling Poin	t Within A W	etland? No	
Remarks:	The upland	sample point is lo	cated withi	in an open w	odland dom	inated by	quaking asper	in the can	opy and Ker	ntucky bluear	ass in the herbaceous layer.	
						,	3 - 1		-1-7	, , , , ,		
HYDROLOG	v											
Wetland Hy	drology Ind	icators (Check all	I that apply	r; Minimum of	one primary	or two se	econdary requi	red):				
Primary	<u>:</u>								Secondary:			
	A1 - Surface				□ B11 - Salt				B6 - Surface S			
	A2 - High Wa				☐ B13 - Aqu						Vegetated Concave Surface	
	A3 - Saturation									B10 - Drainage Patterns		
	B1 - Water M				C2 - Dry S			Danta (Rhizospheres on Living Roots (tilled)	
	B2 - Sedimer				C3 - Oxidi		pheres on Living	Roots (not till		C8 - Crayfish I	Burrows n Visible on Aerial Imagery	
	B3 - Drift Dep B4 - Algal Ma				C7 - Thin I					D2 - Geomorp		
l H	B5 - Iron Dep				Other (Exp		ice			D5 - FAC-Neu		
l i		on Visible on Aerial Im	nagery		L Other (LA	Jiaii i)					aved Hummocks (LRR F)	
		tained Leaves	lagery						_	D7 - 1103(-110)	avea Hammocks (ERRY)	
_												
Field Obser	votional											
		_			,, ,							
Surface Wat		_	D€	epth:	(in.)			Wetland F	lydrology I	Present?	N	
Water Table	Present?	Yes \square	De	epth:	(in.)			· · · · · · · · · · · · · · · · · · ·	.yu.o.ogy .		<u></u>	
Saturation P	resent?	Yes \square		epth:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (etream gauge moni	itoring well			nections)	if available:					
				aerial photos	, previous ins		if available:					
Describe Rec Remarks:		stream gauge, moni		aerial photos	, previous ins		if available:					
Remarks:				aerial photos	, previous ins		if available:					
Remarks:	No primary	or secondary indic	cators of w	aerial photos etland hydrol	, previous ins ogy were obs	served.						
Remarks: SOILS Profile Descr	No primary	or secondary indicates in the secondary indicate	cators of we	aerial photos etland hydrol ocument the	, previous insogy were obs	served.	e absence of ir					
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indicates of the depth neletion, RM=Reduced Marketon, RM=Re	eeded to do	aerial photos etland hydrol ocument the vered/Coated Sa	, previous insogy were obs	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks	
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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 - Black Hi A4 - Hydroge A5 - Stratifier A9 - 1 cm ML A11 - Deplete A12 - Thick E	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 3/2 2/1 Indicators (chapted on stick of the stick	eeded to do latrix, CS=Con	aerial photos etland hydrol ocument the vered/Coated Sa % Cole 1000 600 440 f indicators a S5 - San S6 - Strip F1 - Loan F2 - Loan F3 - Depl F6 - Redc F7 - Depl F8 - Redc	previous insignogy were observed on the control of	Mottle %	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 F18 - Red P TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic 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-151n41w19-e1				
VEGETATION		non-native	species.)						
Tree Stratum (Plot size: 30 ft. radius)								
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	45	Y	FAC					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)				
3.									
4.					Total Number of Dominant Species Across All Strata: (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
	Total Cover =	45			FACW spp. 2				
	_				FAC spp. 45 x 3 = 135				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 104 x 4 = 416				
1.	Amelanchier alnifolia	5	Υ	FACU	UPL spp. 0 x 5 = 0				
2.	Rosa blanda	2	Y	FACU					
3.					Total 151 (A) 555 (B)				
4.									
5.					Prevalence Index = B/A = 3.675				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	7			Prevalence Index is ≤ 3.0 *				
	. o.a. oo.o		_		Morphological Adaptations (Explain) *				
Herh Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	70	Υ	FACU	Troblem Hydrophylic Vegetation (Explain)				
2.	Sanicula marilandica	10	N .	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Geum aleppicum	10	N	FACU	present, unless disturbed or problematic.				
4.	Galium boreale	5	N	FACU	Definitions of Vegetation Strata:				
5.	Galium triflorum	2	N	FACU	Definitions of Vegetation offata.				
6	Thalictrum dioicum	2	N	FACW	Tree				
7.	mandram diolean		IN	TACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
8.					, , , , , , , , , , , , , , , , , , ,				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.				-	Sapining/Siriub = 110000) Planto 1000 than 0 mil. 2511, 10gardioco of norgini.				
11.					Herb - All herbaceous (non-woody) plants, regardless of size.				
12.					Hern - All herbaceous (horr-woody) plants, regardless of size.				
13.				_					
14.					Was d. Vissas All woody vinos regardless of height				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	99	_						
	ratum (Plot size: 30 ft. radius)								
1.				_					
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.				_					
	Total Cover =	0							
Remarks:	The upland vegetation is dominated by quaki	ng aspen	in the can	opy and K	entucky bluegrass in the herbaceous layer.				
Additional Remarks:									
]									