WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/08/14					
Applicant: Enbridge										County:	Red Lake					
Investigators: BCS/KRG				Subregion (MLRA or LRR): MLRA 56						State:	MN					
Soil Unit:	159A						Classification:									
Landform:	Talf				cal Relief:			_		Sample Point	u-151n42w23-b2					
Slope (%):	0 - 2%		Latitude: 47.890		Longitude:			Datum:		_						
		nditions on the site			ar? (If no, exp				□ No	Section:						
Are Vegetation		, or Hydrology				Are r	normal circun	•	esent?	Township:						
Are Vegetation		🖵 or Hydrology	Laturally prob	lematic?			⊡ Yes	□No		Range:	Dir:					
SUMMARY C																
Hydrophytic	-			Yes			Hydric Soils Present? No									
Wetland Hyd			No				Is This Sampling Point			nt Within A W	etland? No					
Remarks: Sample point is located on an upland island within a forested wetland dominated by quaking aspen.																
HYDROLOG	Y															
Wetland Hy	drology Ind	icators (Check all	that apply; Min	imum of on	e primary o	or two sec	condary requi	red):								
Primary:								,	Secondary:							
	A1 - Surface				B11 - Salt C		Ĺ			B6 - Surface S						
	A2 - High Wa A3 - Saturatio				B13 - Aquat		Orlea				Vegetated Concave Surface					
	B1 - Water M			□ C1 - Hydrogen Sulfide Odor □ B10 - Drainage □ C2 - Dry Season Water Table □ C3 - Oxidized F							Rhizospheres on Living Roots (tilled)					
	B2 - Sedimen						heres on Living	Roots (not till		C8 - Crayfish I						
	B3 - Drift Dep				C4 - Preser						NVisible on Aerial Imagery					
	B4 - Algal Ma				C7 - Thin M		e			D2 - Geomorp						
	B5 - Iron Dep				Other (Expl	lain)				D5 - FAC-Neu						
	B7 - Inundatio B9 - Water-Si	n Visible on Aerial Im	lagery							D7 - Frost-Hea	aved Hummocks (LRR F)					
	D3 - Water-Si	aneu Leaves														
Field Observ	vations															
		V 🗖	Death		(in)											
Surface Wate		_						Wetland H	ydrology	Present?	Ν					
Water Table		Yes	Depth:		(in.)											
Saturation Pr	resent?	Yes 🗳	Depth:		Saturation Present? Yes Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																
Describe Reco	orded Data (s	stream gauge, moni	itoring well, aeria	al photos, pre	evious insp	ections), if	f available:									
Describe Reco Remarks:		stream gauge, moni or secondary wetla	-			ections), if	f available:									
			-			ections), if	f available:									
Remarks: SOILS	No primary	or secondary wetla	and hydrology ii	ndicators of	oserved.	-										
Remarks: SOILS Profile Descri	No primary	or secondary wetla	and hydrology in eeded to docum	ndicators of	cator or co	onfirm the	absence of ir									
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Remarks: SOILS Profile Descri	No primary	or secondary wetle be to the depth ne etion, RM=Reduced Ma	and hydrology in eeded to docum	ndicators of	cator or co	onfirm the ion: PL=Pore	absence of ir									
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary wetla be to the depth ne etion, RM=Reduced Ma Matrix	and hydrology in reded to docum atrix, CS=Covered/	ent the indicators of	oserved. cator or co Grains; Locati	onfirm the ion: PL=Pore Mottles	absence of ir re Lining, M=Matr	ix)	Taskura		Demetic					
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w23-b2														
VEGETATION		e non-native	species.)																
	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: 4 (A)														
3.																			
4.					Total Number of Dominant Species Across All Strata: 7 (B)														
5.																			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 57.1% (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. 24 x 2 = 48														
					FAC spp. 64 x 3 = 192														
	Stratum (Plot size: 15 ft. radius)				FACU spp. 32 x 4 = 128														
1.	Cornus alba	20	Y	FACW	UPL spp. 4 x 5 = 20														
2.	Rosa woodsii	10	Y	FACU															
3.	Populus tremuloides	5	N	FAC	Total <u>124</u> (A) <u>388</u> (B)														
4.	Quercus macrocarpa	5	N	FACU															
5.	Salix bebbiana	2	N	FACW	Prevalence Index = B/A = <u>3.129</u>														
6.	Viburnum rafinesqueanum	2	N	NI															
7.	Cornus racemosa	2	N	FAC	Hudronbutio Variation Indiantary														
8.					Hydrophytic Vegetation Indicators:														
9. 10.					Rapid Test for Hydrophytic Vegetation														
10.	Total Cover =	46			X Dominance Test is > 50% Prevalence Index is ≤ 3.0 *														
		40	_																
Horb Stratum (Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *														
1.	Geum aleppicum	10	Y	FACU															
2.	Ribes hirtellum	5	Ý	FAC	* Indicators of hydric soil and wetland hydrology must be														
3.	Galium boreale	5	Ý	FACU	present, unless disturbed or problematic.														
4.	Solidago gigantea	5	Ý	FAC	Definitions of Vegetation Strata:														
5.	Taraxacum officinale	2	Ν	FACU															
6	Equisetum pratense	2	Ν	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast														
7.	Thalictrum dasycarpum	2	Ν	FAC	height (DBH), regardless of height.														
8.	Carex pensylvanica	2	Ν	NI															
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 =	33	_																
	ratum (Plot size: 30 ft. radius)																		
1. 2.	1																		
<u> </u>					Hydrophytic Vegetation Present?														
3. 5.					Hydrophytic Vegetation Present? Y														
5. 4.	J			_															
+.	Total Cover =	0		_															
Remarks: Upland sample area is dominated by quaking aspen in the tree stratum, red-osier dogwood and Woods' rose in the shrub stratum, and yellow avens, northern gooseberry, northern bedstraw, and giant goldenrod in the herbaceous layer. Herb stratum is sparsely vegetated, with 60% bare ground.																			
										Additional Remarks:									