WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/13/14	
Applicant:		Enbridge								County:	Red Lake	
Investigators		KRG/BCS			Subregio		or LRR):	MLRA 56		State:	MN	
Soil Unit:	160A						Classification					
Landform:	Rise				cal Relief:					Sample Point	u-151n42w24-j1	
Slope (%):	0 - 2%		Latitude: 47.882			-95.977		Datum:				
		onditions on the site			ar? (If no, exp			⊡Yes	□ No	Section:		
Are Vegetati		I C or Hydrology				Are	normal circun	•	esent?	Township:		
Are Vegetati		I 🔄 or Hydrology		plematic?			Yes	□No		Range:	Dir:	_
SUMMARY (No						- ia			
Hydrophytic												
Wetland Hyd	The unlend	ent?	No	wood forced	Ladiacant	to on ovic	ting ningling a					
Remarks:				wood tores	ladjacent	to an exis	sung pipeline c	comdor. veg	etation is d	iominated by	quaking aspen in the cano	эру
		ogwood in the shru	D Stratum.									_
HYDROLOG												
Wetland Hy	drology Ind	icators (Check all	that apply; Mir	nimum of or	ne primary	or two se	econdary requi	red):				
Primary				_		. .			Secondary:			
 A1 - Surface Water A2 - High Water Table 					B11 - Salt B13 - Aqua					B6 - Surface S	OII Cracks Vegetated Concave Surface	
	A3 - Saturatio						e Odor					
	B1 - Water M			□ C1 - Hydrogen Sulfide Odor □ □ C2 - Dry Season Water Table □							Rhizospheres on Living Roots	(tilled)
	B2 - Sedimen						pheres on Living	Roots (not till				
	B3 - Drift Dep										n Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M Other (Exp		ce			D2 - Geomorp D5 - FAC-Neu		
		on Visible on Aerial Im	nagerv			iairi)					aved Hummocks (LRR F)	
		tained Leaves	- 5 - 7								,	
Field Obser	vations:											
Surface Wat	er Present?	Yes 🛛	Depth:		(in.)			Wetland H	wdrology I	Procont?	Ν	
Water Table	Present?	Yes 🛛	Depth:		(in.)			wettanu n	iyurology i	resent:		
Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	stream gauge, moni	itoring well, aeria	al photos, pr	evious insp	pections),	if available:					_
			-			-	if available:					
Describe Rec Remarks:		stream gauge, moni or secondary indic	-			-	if available:					
			-			-	if available:					
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetlar	nd hydrology	y were obs	onfirm the	e absence of ir					
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Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetlar	nd hydrology	y were obs	onfirm the	e absence of ir ore Lining, M=Mate					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indic ibe to the depth ne etion, RM=Reduced M Matrix	eeded to docum atrix, CS=Covered	nent the indi	y were obs icator or co Grains; Loca	erved. Onfirm the tion: PL=Pc Mottle	e absence of ir ore Lining, M=Matr	rix)	Tautura		Demetic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	or secondary indic ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to docum atrix, CS=Covered	nd hydrology	y were obs icator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Mate		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	No primary	or secondary indic ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to docum atrix, CS=Covered % 100	nent the indi	y were obs icator or co Grains; Loca	erved. Onfirm the tion: PL=Pc Mottle	e absence of ir ore Lining, M=Matr	rix)	SCL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	No primary	or secondary indices in the depth network of the de	eeded to docum atrix, CS=Covered % 100	nent the indi	y were obs icator or co Grains; Loca	erved. Onfirm the tion: PL=Pc Mottle	e absence of ir ore Lining, M=Matr	rix)	SCL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18	No primary iption (Descr intration, D=Dept Hue_10YR Hue_10YR	or secondary indices in the depth new second and the depth new second a	eeded to docum atrix, CS=Covered % 100 100	nent the indi (Coated Sand	y were obs	erved. onfirm the tion: PL=Pc Mottle %	e absence of ir ore Lining, M=Matr ss Type	rix)	SCL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18	No primary iption (Descr intration, D=Dept Hue_10YR Hue_10YR	or secondary indices in the depth new field of the depth new field o	eeded to docum atrix, CS=Covered % 100	nent the indi (Coated Sand	y were obs	erved. onfirm the tion: PL=Pc Mottle %	e absence of ir ore Lining, M=Matr	rix)	SCL LS			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	No primary iption (Descr intration, D=Depi Hue_10YR Hue_10YR ic Soil Field	or secondary indices in the depth new second and the depth new second a	eeded to docum atrix, CS=Covered % 100 100 eeck here if ind	id hydrology nent the indi (Coated Sand Color (y were obs	erved. onfirm the tion: PL=Pc Mottle %	e absence of ir ore Lining, M=Matr ss Type	Location	SCL LS Indicators f	or Problemati		
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w24-j1				
VEGETATIO		e non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	<u>50</u>	Y	FAC	Dominance rest worksheet				
2.	Quercus macrocarpa	2	N	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)				
3.		-		17100					
4.					Total Number of Dominant Species Across All Strata: 7 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)				
7.					()				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					$OBL spp. 0 \qquad x 1 = 0$				
	Total Cover =	52			FACW spp. 0 $x 2 = 0$				
		_		FAC spp. 79 x $3 = 237$					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 72 x $4 = 288$				
1.	Cornus racemosa	25	Y	FAC	UPL spp. 0 $x 5 = 0$				
2.	Quercus macrocarpa	10	Y	FACU					
3.	Rosa blanda	10	Y	FACU	Total 151 (A) 525 (B)				
4.					、				
5.					Prevalence Index = B/A = 3.477				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	45			Prevalence Index is ≤ 3.0 *				
			_		Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Geum aleppicum	25	Y	FACU					
2.	Solidago canadensis	10	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Poa pratensis	10	Y	FACU	present, unless disturbed or problematic.				
4.	Galium boreale	5	N	FACU	Definitions of Vegetation Strata:				
5.	Veronicastrum virginicum	2	N	FAC					
6	Zizia aurea	2	N	FAC	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 =	54	_						
	ratum (Plot size: 30 ft. radius)								
1.				_					
2.	<u> </u>								
3.					Hydrophytic Vegetation Present? N				
5.	ļ								
4.				_					
Demerter	Total Cover =	0		u de entre	a in the should alwalt up it into a source to part they in the department of the second state				
Remarks: Vegetation is dominated by quaking aspen in the canopy and gray dogwood in the shrub stratum. Herbaceous vegetation is moderately sparse, and									
dominated by yellow avens, Canada goldenrod, and Kentucky bluegrass.									
Additional Remarks:									
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