WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/10/14	_
Applicant: Enbridge										Red Lake	_	
Investigators		KRG/BCS			Subregio		or LRR):	MLRA 56		State:	MN	-
Soil Unit:	<u>161A</u>						Classification:					
Landform:	Talf		1 17.0		cal Relief:		5005	Deture		Sample Point	u-151n42w24-e	1
Slope (%):	0 - 2%	nditions on the site	Latitude: 47.8		Longitude:			Datum: ⊡Yes	□ No	Continu		
Are Vegetation		or Hydrology			al ? (if no, exp		e normal circun			Section: Township:		
Are Vegetation		G or Hydrology					⊻ Yes		CSCIII!	Range:	Dir:	
SUMMARY C				oblematic						Range.	DII.	
Hydrophytic V			No					Hydric Soi	Is Present?	2 No		
Wetland Hyd	-		No		•					nt Within A W	etland? No	
		sample point is loo		a mowed havf	ield. Veae	tation is	dominated by c					
							· · · · · · · · · · · · · · · · · · ·	. . .				
HYDROLOG	Y											
		icators (Check all	that apply: N	linimum of on	o nrimarv	or two se	econdary requi	red).				
Primary:		icators (Check all	that apply, N		e primary	01 100 50	econdary requi	ieu).	Secondary:			
	A1 - Surface	Water			B11 - Salt					B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave S	Surface
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry So					B10 - Drainage	e Patterns Rhizospheres on Livi	ing Poots (tilled)
	B2 - Sedimen			H	C2 - Dry Si C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish I		ng Roots (tilled)
	B3 - Drift Dep				C4 - Prese	nce of Re	duced Iron				n Visible on Aerial Im	agery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp		
	B5 - Iron Dep	osits In Visible on Aerial Im	agery		Other (Exp	lain)				D5 - FAC-Neu	tral Test aved Hummocks (LR	R F)
	B9 - Water-St		lagery							Di - Host-hea	aved Hummocks (LIV	((1))
_												
Field Observ	vations:											
Surface Wate	er Present?	Yes 🛛	Dept	n:	(in.)			Wetlend	ludual a mu	Dues a ut 2	N	
Water Table	Present?	Yes 🛛		n:	(in.)			wetland F	lydrology	Present?	N	
Saturation Pr	resent?	Yes 🛛	Dept	ו:	(in.)							
					. ()							
Describe Reco	orded Data (s					ections),	if available:					
		stream gauge, moni	itoring well, a	rial photos, pro	evious insp		if available:					
			itoring well, a	rial photos, pro	evious insp		if available:					
		stream gauge, moni	itoring well, a	rial photos, pro	evious insp		if available:					
Remarks: SOILS Profile Descri	No primary	stream gauge, moni or secondary indic	toring well, accepted ators of wetle	rial photos, pro and hydrology iment the indi	evious insp were obs cator or co	erved.	e absence of ir					
Remarks: SOILS Profile Descri	No primary	stream gauge, moni or secondary indic	toring well, accepted ators of wetle	rial photos, pro and hydrology iment the indi	evious insp were obs cator or co	erved.	e absence of ir					
Remarks: SOILS Profile Descri	No primary	stream gauge, moni or secondary indic be to the depth ne etion, RM=Reduced Ma	toring well, accepted ators of wetle	rial photos, pro and hydrology iment the indi	evious insp were obs cator or co	erved. Onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	stream gauge, moni or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix	itoring well, ae cators of wetl eeded to docu atrix, CS=Cover	rial photos, pro and hydrology iment the indi ad/Coated Sand (evious insp were obs cator or co Grains; Loca	erved. onfirm the tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	ix)	Toytura		Pomarka	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 5-11 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type: Soil consist	tream gauge, moni or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/2 4/2 3/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF leyed Matrix	toring well, ae eaded to docu atrix, CS=Cover % 100 45 45 eck here if ir c c c c c c c c c c c c c c c c c c c	dicators are r S5 - Sandy R S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl.	Avious insp were obs cator or co Grains; Loca Moist) 4/6 4/6 4/6 edox Matrix and presen edox Matrix ark Surface Dark Surface pressions ains Depress 11"	erved. onfirm the tion: PL=P Mottle % 10 10 t): al x sice sisons (ML vith redo.	e absence of ir ore Lining, M=Matr es Type C C RA 72, 73 of LRF Hydric So x concentratior	ILocation M R H)	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of f unless disturb	Muck (LRR I, J) I Prairie Redox v urface (LRR G) Plains Depression ced Vertic Parent Material v Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72 Surface tion and wetland hydrolog	gy must be present,

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w24-e1
VEGETATIO		re non-native	e species.)		
Tree Stratum (Plot size: 30 ft. radius) Species Name	0/ Caver	Dominant	Ind.Status	Dominance Test Worksheet
1.		% Cover	Dominant	Ind.Status	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.	<u> </u>				Total Number of Dominant Species Across All Strata: 2 (B)
5.					(2)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					()
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 0 x 2 = 0
			_		FAC spp. 2 x 3 = 6
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 124 x 4 = 496
1.					UPL spp. 0 x 5 = 0
2.					
3.					Total <u>126</u> (A) <u>502</u> (B)
4.					
5.					Prevalence Index = B/A = <u>3.984</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)		V	FACU	Problem Hydrophytic Vegetation (Explain) *
1.	Dactylis glomerata	55	Y Y	FACU	* Indicators of hydric soil and watland hydrology must be
2.	Phleum pratense	25		FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. 4.	Poa pratensis	15 15	N N	FACU FACU	Definitions of Vegetation Strata:
4. 5.	Astragalus agrestis Taraxacum officinale	5	N	FACU	Deminitions of vegetation Strata.
6	Melilotus officinalis	5	N	FACU	Tree
7.	Cirsium arvense	2	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.	Plantago major	2	N	FAC	
9.	Symphyotrichum ericoides	2	N	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.		-		17100	
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	126			
			_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	Vegetation is dominated by orchard grass ar	nd timothy.			
Additional R	Remarks:				