WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/14/14	
	Applicant: Enbridge									County:	Red Lake	
Investigators: KRG/BCS				Subregion (MLRA or LRR): MLRA 56					State:	MN		
Soil Unit:	159A		NWI Classification:						_			
Landform:	Talf				cal Relief:					Sample Point	u-151n42w24-l1	
Slope (%):	0 - 2%		Latitude: 47.8			-95.9787		Datum				
		nditions on the site			ar? (If no, exp			⊡Yes	D No	Section:		
Are Vegetati		G or Hydrology				Are	normal circun	•	esent?	Township:		
Are Vegetati		D or Hydrology	Laturally pro	oblematic?			Yes	□No		Range:	Dir:	
SUMMARY (
				No					Is Present?			
			No	ale and former of		the state of the set	to al las source labo					
Remarks: The upland sample point is located in a hardwood forest community dominated by quaking aspen and bur oak, with bracken fern in the ground layer.												
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all	that apply; M	inimum of on	e primary	or two sec	condary requi	red):				
Primary				_		<u> </u>			Secondary:			
A1 - Surface Water					B11 - Salt B13 - Aqua					B6 - Surface S	oil Cracks Vegetated Concave Surface	
	 A2 - High Water Table A3 - Saturation 					gen Sulfide	Odor		H			
						eason Wate		Rhizospheres on Living Roots (ti	illed)			
	B2 - Sedimen			C3 - Oxidized Rhizospheres on Living Roots (not tille							Burrows	-
	B3 - Drift Dep	osits									Note: Not	
	B4 - Algal Ma B5 - Iron Dep	t or Grust nsits			Other (Exp		e			D2 - Geomorp D5 - FAC-Neu		
		n Visible on Aerial Im	lagery			Jann)					aved Hummocks (LRR F)	
	B9 - Water-St		- <u>-</u>						_			
Field Obser	vations:											
Surface Wat	er Present?	Yes 🛛	Depth	1:	(in.)			Watland L	ludrology	Dresent?	N	
Water Table Present? Yes Depth: (iii.) Wetland Hydrology Present? N										N		
Saturation P	resent?	Yes 🛛	Depth		(in.)							/
Describe Rec	orded Data (s	stream gauge, moni	itoring well, ae	rial photos, pr	evious insr	pections), if	f available:					
		stream gauge, moni	-				f available:					
Describe Rec Remarks:		stream gauge, moni or secondary indic	-				f available:					
Remarks:	No primary	or secondary indic	ators of wetla	and hydrology	were obs	erved.						
Remarks: SOILS Profile Descri	No primary	or secondary indic	eded to docu	and hydrology ment the indi	were obs	onfirm the	absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary indic	eded to docu	and hydrology ment the indi	were obs	onfirm the	absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary indic	eded to docu	and hydrology ment the indi	were obs	onfirm the	absence of ir re Lining, M=Mate		1			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix	eeded to docu	ment the indi	cator or co Grains; Loca	erved. onfirm the tion: PL=Por Mottles	absence of ir re Lining, M=Matr	rix)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere %	ment the indi d/Coated Sand	cator or co Grains; Loca	onfirm the	absence of ir re Lining, M=Mate		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No primary iption (Descrintration, D=Depl Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covere % 100	ment the indi	cator or co Grains; Loca	erved. onfirm the tion: PL=Por Mottles	absence of ir re Lining, M=Matr	rix)	SICL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eeded to docu atrix, CS=Covere % 100 100	ment the indi	vere obs cator or co Grains; Loca Moist)	onfirm the tion: PL=Por Mottles	absence of ir re Lining, M=Matr s Type	Location	SICL SCL			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eeded to docu atrix, CS=Covere % 100 100	ment the indi	vere obs cator or co Grains; Loca Moist)	onfirm the tion: PL=Por Mottles	absence of ir re Lining, M=Matr s Type	Location	SICL SCL	calcium carbonat		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-18 NRCS Hydr	No primary iption (Descrintration, D=Depindration, D=Depindra	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/3 Indicators (ch ipedon stic	eeded to docu atrix, CS=Covere % 100 100 97 eeck here if in	ment the indi d/Coated Sand Color (Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	were obs cator or co Grains; Loca Moist) 4/6 4/6 hot presen edox Matrix Mucky Miner. Bleyed Matri	merved.	absence of ir re Lining, M=Matu s Type C	Location M M	SICL SCL SCL ADDATE: A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	e accumulations <u>c Soils¹</u> (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-18 NRCS Hydr U	No primary iption (Descrintration, D=Depindration, D=Depindra	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to docu etrix, CS=Covere % 100 100 97 eeck here if in	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted	were obs cator or cc Grains; Loca Moist) 4/6 4/6 hot presen edox Matrix Mucky Miner. Bleyed Matri I Matrix ark Surface I Dark Surfa	al x	absence of ir re Lining, M=Matu s Type C	Location M	SICL SCL SCL A9 - 1 cm N A9 - 1 cm N A76 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S	e accumulations <u>c Soils1</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depindration, D=Depindra	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to docu atrix, CS=Covere % 100 100 97 eeck here if in c c c c c c c c c c c c c c c c c c c	ment the indi d/Coated Sand Color (Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	were obs cator or cc Grains; Loca Moist) 4/6 4/6 not presen edox Matrix Mucky Miner. Sleyed Matri I Matrix ark Surface I Dark Surfa epressions ains Depres	Mottles	absence of ir re Lining, M=Matri s Type C C	Location M M Location	Indicators of l A9 - 1 cm M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressii ced Vertic Parent Material Shallow Dark S ain in Remarks)	e accumulations <u>c Soils1</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	Isent,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydroge 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:	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR ky Peat or Peat (LR leyed Matrix	eded to docu atrix, CS=Covere % 100 97 97 97 97 97 97 97 97 97 97 97 97 97	ment the indi d/Coated Sand (Color () Hue_7.5YR Hue_7.5YR Hue_7.5YR S5 - Sandy R S5 - Sandy R S5 - Sandy R S6 - Stripped S6 - Stripped S6 - Stripped F3 - Depleted F8 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	were obs cator or cc Grains; Loca Moist) 4/6 4/6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ace	absence of ir re Lining, M=Matri s Type C C	itx) Location M M C C C C C C C C C C C C C C C C C	SICL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of I unless disturbo	for Problematic luck (LRR I, J) Prairie Redox Urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	e accumulations <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be pre	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depleter Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR ky Peat or Peat (LR leyed Matrix	eeded to docu atrix, CS=Covere % 100 100 97 eeck here if in eeck here if in E RR G, H) R F)	ment the indi d/Coated Sand (Color (Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F2 - Loamy C F3 - Depleted F3 - Depleted F3 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl Depth:	were obs cator or cc Grains; Loca Moist) 4/6 4/6 100 presen edox Matrix Mucky Miner- Bleyed Matri Natrix ark Surface I Dark Surfa epressions ains Depres	ace	absence of ir re Lining, M=Matri s Type C C	itx) Location M M C C C C C C C C C C C C C C C C C	SICL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of I unless disturbo	for Problematic luck (LRR I, J) Prairie Redox Urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	e accumulations <u>c Soils1</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	

WETLAND DETERMINATION DATA FORM

Great Plains Region

1. Populus tremuloides 30 Y	FAC FACU	Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index Worksheet
% Cover Dominant Ind 1. Populus tremuloides 30 Y 2. Quercus macrocarpa 10 Y F 3.	FAC	Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
Species Name % Cover Dominant Integration 1. Populus tremuloides 30 Y Y 2. Quercus macrocarpa 10 Y F 3. 10 Y F 4. 5. - - 6. - - - 7. - - - 8. - - - 9. - - - 10. Total Cover = 40 -	FAC	Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
1. Populus tremuloides 30 Y 2. Quercus macrocarpa 10 Y F 3.	FAC	Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
2. Quercus macrocarpa 10 Y F 3.		Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
3.		Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
4.		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
5.		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
6.		
7.		
8. 9. 10. Total Cover = 40		Brouglance Index Workshoot
9. 10. Total Cover = <u>40</u>		
10		
Total Cover = <u>40</u>		
		$\begin{array}{cccc} \text{OBL spp.} & 0 & x & 1 = & 0 \\ \text{FACW spp.} & 5 & x & 2 = & 10 \end{array}$
Sapling/Shrub Stratum (Plot size: 15 ft radius)		···
		···
	FAC	FACU spp. 80 X 4 = 320 UPL spp. 15 X 5 = 75
	UPL	
	FAC	Total 150 (A) 555 (B)
4.		
5.		Prevalence Index = B/A = 3.700
6.		
7.		
8.		Hydrophytic Vegetation Indicators:
9.		Rapid Test for Hydrophytic Vegetation
10.		Dominance Test is > 50%
Total Cover = 15		Prevalence Index is ≤ 3.0 *
		Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)		Problem Hydrophytic Vegetation (Explain) *
	FACU	
	FACU	* Indicators of hydric soil and wetland hydrology must be
3. Carex pensylvanica 10 N	NI	present, unless disturbed or problematic.
	FACU	Definitions of Vegetation Strata:
	FACU	
	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
	FACW	height (DBH), regardless of height.
	FAC	
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 = 95		-
Woody Vine Stratum (Plot size: 30 ft. radius)		
1.		
2.		
3.		Hydrophytic Vegetation Present? N
5.		· · · · · · · · · · · · · · · · · · ·
4.		
Total Cover = 0		
Remarks: Vegetation is dominated by quaking aspen in the canopy with a spars	rse mix (of shrubs below. Herbaceous vegetation is dominated by bracken fern with yellow
avens and Pennsylvania sedge.		
Additional Remarks:		
L		