WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date: County:	10/15/14			
Applicant: Enbridge										Red Lake			
Investigators: BCS/KRG				Subregion (MLRA or LRR): MLRA 56					State:	MN			
Soil Unit:	159A					WI Classification	:		_				
Landform:	Talf				al Relief: LL				Sample Point	u-151n42w24-r1			
Slope (%):	0 - 2%		Latitude: 47.880		Longitude: -95.		Datum		-				
		onditions on the site			? (If no, explain ir		⊡Yes	D No	Section:				
Are Vegetatio		I C or Hydrology				Are normal circur	•	esent?	Township:				
Are Vegetation		I D or Hydrology	Liturally prob	ematic?		Yes	□No		Range:	Dir:			
SUMMARY C													
Hydrophytic			No				Hydric Soils Present						
Wetland Hyd			No		Is This Sampling Po od forest community dominated by quaking aspen, bur oak,								
Remarks:	The upland	sample point is loo	cated within a h	ardwood fore	est communit	y dominated by qu	aking asper	n, bur oak, o	chokecherry,	and Pennsylvania sedge	t.		
HYDROLOG	Y												
Wetland Hy	drology Ind	icators (Check all	that apply; Min	imum of one	primary or tv	o secondary requ	ired):						
Primary:								Secondary					
A1 - Surface Water					811 - Salt Crust				B6 - Surface S				
	A2 - High Wa A3 - Saturatio				313 - Aquatic Fa 31 - Hydrogen S					Vegetated Concave Surface			
	B1 - Water M				2 - Dry Seaso					Rhizospheres on Living Roo	ts (tilled)		
	B2 - Sedimer					nizospheres on Living	Roots (not til	k 🗖	C8 - Crayfish				
	B3 - Drift Dep					f Reduced Iron				n Visible on Aerial Imagery			
	B4 - Algal Ma				7 - Thin Muck	Surface							
	B5 - Iron Dep	osits on Visible on Aerial Im			Other (Explain)				D5 - FAC-Neu	tral Test aved Hummocks (LRR F)			
		tained Leaves	lagely						DI - FIUSI-RE	aved Fullimocks (LRR F)			
Field Observ	vations:												
Surface Wate		Yes 🔲	Denth [.]		(in.)								
Water Table		Yes	Depth:		(in.)		Wetland H	lydrology	Present?	N			
		Yes			(in.)								
		Saturation Present? Yes Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
			-		-								
Describe Reco Remarks:		stream gauge, moni or secondary indic	-		-								
Remarks:			-		-								
Remarks:	No primary	or secondary indic	cators of wetland	d hydrology v	vere observe	d.	ndicators)						
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetland	d hydrology v	vere observe	d. n the absence of i							
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Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetland	d hydrology v	vere observe ator or confirm ains; Location: F	d. n the absence of i							
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indic ibe to the depth ne letion, RM=Reduced Ma Matrix	cators of wetland	d hydrology v ent the indica Coated Sand Gr	vere observe ator or confiri ains; Location: F M	d. n the absence of i 'L=Pore Lining, M=Mat ottles		Texture		Remarks			
Remarks: SOILS Profile Descri	No primary	or secondary indic ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist)	eeded to docum atrix, CS=Covered/ %	d hydrology v	vere observe ator or confiri ains; Location: F M	d. n the absence of i 'L=Pore Lining, M=Mat ottles	rix)	Texture		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary ption (Descr htration, D=Depl Hue_10YR	or secondary indic ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docum atrix, CS=Covered/ % 100	d hydrology v ent the indica Coated Sand Gr	vere observe ator or confiri ains; Location: F M	d. n the absence of i 'L=Pore Lining, M=Mat ottles	rix)	SIL	Gravel fragment				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 NRCS Hydr	No primary ption (Descr tration, D=Depi Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic EF A3 - Black Hi	or secondary indic ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/2 Indicators (ch pipedon stic	eeded to docum atrix, CS=Covered/ % 100 100 100 neck here if indi	d hydrology v ent the indic: Coated Sand Gr Color (M Color (M Cators are no S5 - Sandy Rei S6 - Stripped N F1 - Loamy Mu	ator or confirmation of confirmation of confirmation of confirmation of the confirmati	d. n the absence of i i'L=Pore Lining, M=Mai ottles 6 Type	Location	SIL SC Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S	for Problemati Muck (LRR I, J) t Prairie Redox surface (LRR G)	c <u>Soils1</u> (LRR F, G, H)			
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w24-r1					
VEGETATION		e non-native	species.)							
Tree Stratum (Plot size: 30 ft. radius)									
4	Species Name Populus tremuloides	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet					
1.	Populus tremuloides Quercus macrocarpa	40	Y	FAC						
2.	Quercus macrocarpa	15	Y	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)					
3.										
<u>4.</u> 5.					Total Number of Dominant Species Across All Strata: 6 (B)					
5. 6.					Research of Deminant Species That Are OBL EACIN or EAC: 22,28((A/D)					
7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)					
8.					Prevalence Index Worksheet					
9.										
9. 10.					Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0					
10.	Total Cover =	55			FACW spp. 2 $x 2 = 4$					
		55	_		FAC spp. $\frac{2}{61}$ X $3 = \frac{4}{183}$					
Sopling/Shrub 6	Stratum (Plot size: 15 ft. radius)				FAC spp. 57 x 4 = 228					
1.	Quercus macrocarpa	15	Y	FACU	UPL spp. 50 x 5 = 250					
2.	Populus tremuloides	10	Y	FAC						
3.	Prunus virginiana	10	Y	FACU	Total 170 (A) 665 (B)					
4.	Cornus racemosa	5	N	FAC						
5.	Rosa blanda	2	N	FACU	Prevalence Index = B/A = 3.912					
6.	Ribes hirtellum	1	N	FAC						
7.		•								
8.	<u>_</u>				Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
	Total Cover =	43			Prevalence Index is ≤ 3.0 *					
	· · · · · · · · · · · · · · · · · · ·				Morphological Adaptations (Explain) *					
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Carex pensylvanica	50	Y	NI						
2.	Geum aleppicum	10	Ν	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Zizia aurea	5	N	FAC	present, unless disturbed or problematic.					
4.	Pteridium aquilinum	5	Ν	FACU	Definitions of Vegetation Strata:					
5.	Thalictrum dioicum	2	N	FACW						
6					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 =	72								
	atum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.										
Domerica	Total Cover =	0	kin the -	nonucard	abrub lawara, with abalyapharay also assesses in the short-lawar. Demaster of					
Remarks:					shrub layers, with chokecherry also common in the shrub layer. Pennsylvania					
sedge dominates the herbaceous layer. Approximately 30% of the sample area is unvegetated and covered by leaf litter.										
Additional Remarks:										
2										