WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/11/14	
Applicant:		Enbridge								County:	Red Lake	
Investigators				Subregion (MLRA or L				MLRA 56		State:	MN	
Soil Unit: Landform:	I59A Talf			NWI Classification: Local Relief: LL						Cample Daint	454m42w24 h4	
		1.	atituda. 17				0141	Dotum:		Sample Point	u-151n42w24-h1	
Slope (%): 0 - 2% Latitude: 47.8843528 Longitude: -95.9829141 Datum: Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑Yes ☐ No Section:												
Are Vegetati				tly disturbed?	ar: (II 110, ex		e normal circun			Township:		
Are Vegetati		☑ or Hydrology				/ "	☑ Yes	□No	oodiit:	Range:	Dir:	
SUMMARY O			itarany p	robicinatio:						range.	Dii.	
Hydrophytic Vegetation Present? No Hydric Soils Present? Yes												
Wetland Hyd			No		-					nt Within A W	etland? No	
Remarks:	The upland	sample point is loca			ield Vege	tation is	dominated by o	orchard gras	s Kentuck	v bluegrass	and milk-vetch	
	riio apiaila	odinpio ponicio ioda		a	ioiai rogo		20acca 2) c	onala grac	, , , , , , , , , , , , , , , , , , , ,	., 2.acg. acc,	a	
HYDROLOG	Y											
		:t (Obl H		Minimum of au								
		icators (Check all th	nat apply; I	Minimum of or	ie primary	or two s	econdary requi	rea):	Cocondon			
Primary		Nater		П	R11 - Salt (Crust			Secondary:	B6 - Surface S	Soil Cracks	
□ A1 - Surface Water □ B11 - Salt Crust □ B2 - High Water Table □ B13 - Aquatic Fauna									Vegetated Concave Surface			
	A3 - Saturatio				C1 - Hydro					B10 - Drainag		
	B1 - Water M				C2 - Dry S			D1 - /1 ('''			Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till		C8 - Crayfish I	Burrows n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp		
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neu	tral Test	
		n Visible on Aerial Imag	gery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
F: 1101												
Field Obser		=	_		<i>(</i> : \							
	ter Present?		Dep	th:	(in.)			Wetland H	lydrology I	Present?	N	
Water Table		Yes		th:							<u> </u>	
Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No primary or secondary indicators of wetland hydrology were observed.												
Remarks:	No primary	or secondary indicat	tors of wet	land hydrology	were obs	erved.						
	No primary	or secondary indicat	tors of wet	land hydrology	were obs	erved.						
SOILS		·		, 0,								
SOILS Profile Descri	iption (Descri	be to the depth need	ded to doc	ument the indi	cator or co	onfirm th						
SOILS Profile Descri	iption (Descri	·	ded to doc	ument the indi	cator or co	onfirm th						
SOILS Profile Descri	iption (Descri	be to the depth need etion, RM=Reduced Matri	ded to doc	ument the indi	cator or co	onfirm th	ore Lining, M=Matr					
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth need etion, RM=Reduced Matri Matrix	ded to doc ix, CS=Cove	ument the indi	cator or co	onfirm th tion: PL=P Mottl	ore Lining, M=Matr	ix)	Tevture		Remarks	
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth need etion, RM=Reduced Matri Matrix Color (Moist)	ded to doc	eument the indired/Coated Sand	cator or co	onfirm th	ore Lining, M=Matr		Texture		Remarks	
SOILS Profile Descri (Type: C=Concer	iption (Descrintration, D=Depl	be to the depth need etion, RM=Reduced Matri Matrix Color (Moist)	ded to doo ix, CS=Cove	rument the indired/Coated Sand Color (cator or co	onfirm th tion: PL=P Mottl	ore Lining, M=Matr	ix)	FSL		Remarks	
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SOILS Profile Descri (Type: C=Concer	iption (Descrintration, D=Depl	be to the depth need etion, RM=Reduced Matri Matrix Color (Moist)	ded to doo ix, CS=Cove	red/Coated Sand Color (cator or co	onfirm th tion: PL=P Mottl	ore Lining, M=Matr	ix)	FSL		Remarks	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11 11-18 NRCS Hydr	Hue 10YR Hue 10YR Hue 10YR Hue 2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratific A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth need etion, RM=Reduced Matrix Color (Moist) 2/1 6/2 4/2 Indicators (check ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR Fky Peat or Peat (LRR Fkeyed Matrix)	ded to doo ix, CS=Cove	ument the indired/Coated Sand Color (Color (United Sand Sand Sand Sand Sand Sand Sand San	Moist) 5/6 Sedox Matrix Mucky Mineral Bleyed Matrix Jark Surface J Dark Surface J Dark Surface	Mottli % 10 10 t):	es Type C C Hydric So ts indicator A11-	Location M R H)	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si F18 - High F F18 - Red uc TF2 - Red F TF12 - Very Other (Explain of hunless disturbed) Y www Dark Surfa	duck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression cod Vertic Parent Material Shallow Dark Sain in Remarks) hydrophytic vegeta ed or problematic.	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w24-h1				
VEGETATION		non-native	species.)						
Tree Stratum (Plot size: 30 ft. radius)								
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata:3(B)				
5.									
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. 4 x 2 = 8				
1000 00701					FAC spp. 0 x 3 = 0				
Sanling/Shruh S	Stratum (Plot size: 15 ft. radius)				FACU spp. 112				
1.	Salix discolor	2	N	FACW	UPL spp. 0 x 5 = 0				
2.					3. 2 spp				
3.					Total 116 (A) 456 (B)				
4.					Total 116 (A) 456 (B)				
5.					Dravialance Index = D/A =				
					Prevalence Index = B/A = 3.931				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	2	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Dactylis glomerata	50	Υ	FACU					
2.	Poa pratensis	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Astragalus agrestis	25	Υ	FACU	present, unless disturbed or problematic.				
4.	Cirsium arvense	5	N	FACU	Definitions of Vegetation Strata:				
5.	Setaria pumila	5	N	FACU					
6	Agrostis gigantea	2	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Taraxacum officinale	2	N	FACU	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.				
10.	Total Comme	444			1100uy 111103				
	Total Cover = _	114	_						
	ratum (Plot size: 30 ft. radius)								
1.									
2.				_					
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =	0							
Remarks:	Vegetation is dominated by orchard grass, Ke	entucky bli	uegrass, a	ind milk-ve	etch. The area has been recently mowed.				
Additional Remarks:									
Auditional Notification									