WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/11/14	
Applicant:		Enbridge		-						County:	Red Lake	
Investigators						A or LRR):	MLRA 56		State:	MN		
Soil Unit: I61A Landform: Talf				NWI Classification: Local Relief: LL						Cample Daint	454m4224 f4	
Landform:		1.	atituda, 17				6562	Dotum:		Sample Point	u-151n42w24-f1	
Slope (%): 0 - 2% Latitude: 47.8851196 Longitude: -95.9856563 Datum: Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No Section:												
Are Vegetation				tly disturbed?	ai: (ii iio, ex		e normal circun			Township:		
Are Vegetation		☑ or Hydrology				7 (1)	☑ Yes	□No	COCITE:	Range:	Dir:	
SUMMARY C			itarany p	robicinatio:			00			range.	DII.	
Hydrophytic Vegetation Present? No Hydric Soils Present? No												
					_			Is This Sampling Point Within A Wetland? No				
Remarks:	The upland	sample point is loca	No Ited within		field Vege	tation is	dominated by	orchard gras	ss timothy	and milk-vet	ch	
T tomanto.	····o apiaira	odinpio ponicio ioda		a monou nay				51 01 la la gi a c	,,,		···	
HYDROLOG	Υ											
		in atoms (Chank all th		Minimous of a								
		icators (Check all th	nat apply;	Minimum of or	ne primary	or two s	econdary requi	rea):	Cacandan			
Primary:	: A1 - Surface \	Nater			B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks	
	A2 - High Wa			B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturation				C1 - Hydro	gen Sulfic	le Odor			B10 - Drainag	e Patterns	
	B1 - Water M				C2 - Dry S						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		
		n Visible on Aerial Imag	gery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ												
	Surface Water Present? Yes Depth: (in.) Wetland Hydrology Present? N											
Water Table		Yes	Dep	oth:				Trottana i	.yu.o.ogy		<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 indicat	tors of we									
Remarks:	No primary	or secondary indicat	tors of we									
SOILS	. ,	·		land hydrolog	y were obs	erved.						
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-15 11-15 11-15	iption (Description, D=Deplication,	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/2 5/2 2/1 Indicators (checking)	ded to doc ix, CS=Cove 9 10 6i 21 ck here if	cument the indired/Coated Sand Color (100) Hue_7.5YF Color (100) Solution of the indired sand sand sand sand sand sand sand san	y were obsicator or cograins; Loca Moist) A 4/6 not presented ox at Matrix	monfirm the tion: PL=P Mottl % 10 10 tt):	e absence of ir ore Lining, M=Matr es Type	Location M	LFS LFS LFS LIFS LFS Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	c Soils ¹ (LRR F, G, H)	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-15 11-15 11-15	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 4/2 5/2 2/1 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	ded to doo ix, CS=Cove 9 10 6i 21 11 ck here if	sument the ind red/Coated Sand Color (Color (y were obs icator or co Grains; Loca Moist) A 4/6 A 4/6 not presen Redox I Matrix Mucky Miner. Gleyed Matrix Ourk Surface d Dark Surface Depressions	month with the second s	e absence of ir	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S1 F18 - Red uc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression Ced Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-15 11-15 11-15 NRCS Hydr	Hue_10YR Tic Soil Field A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A4- I cm Mu A11- Deplete A12- Thick D S2- 2.5 cm Mu S3- 5 cm Mu S4- Sandy G Type: Soil consists	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 4/2 5/2 2/1 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 I leyed Matrix gravel of a black fine sandy loa	ded to doc ix, CS=Cove	ument the ind red/Coated Sand Color (100	were obs icator or cc Grains; Loca Moist) R 4/6 Moist) R 4/6 Moist Moist	month the served. Mottl % 10 10 10 x concent	e absence of irrore Lining, M=Matrices Type C ARA 72, 73 of LRF Hydric So	Location M RH)	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Red uc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi Led Vertic Parent Material Shallow Dark S ain 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-f1				
VEGETATIO	N (Species identified in all uppercase are	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:(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. 0 x 2 = 0				
Total Cover					FAC spp. 0 x 3 = 0				
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 117 x 4 = 468				
1.	Stratum (Flot 6)22. To it. radias)				UPL spp. 0 x 5 = 0				
2.									
3.					Total 117 (A) 468 (B)				
4.					10(a) 117 (r) 100 (D)				
5.					Prevalence Index = B/A = 4.000				
					Prevalence Index = B/A = 4.000				
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) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Dactylis glomerata	60	Y	FACU					
2.	Phleum pratense	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.	Melilotus officinalis	2	N	FACU					
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.				
o.	Total Cover =	117			•				
	Total Cover -	117	-						
Woody Vino St	ratum (Plot size: 30 ft. radius)								
1.	ratum (1 101 SIZE. 30 II. Taulūs)								
2.				_					
3.					Hydrophytic Veretation Presents N				
				_	Hydrophytic Vegetation Present?N				
5.									
4.	T			_					
	Total Cover =	0							
Remarks:	Vegetation is dominated by orchard grass, tir	nothy, and	milk-vetc	h. The are	ea has been recently mowed.				
Additional R	Remarks:								