WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/30/14		
Applicant:		Enbridge		Subregion (MLRA or LRR): MLRA						County:	Red Lake		
Investigators	:	NTT/BEH		Subregion (MLRA or LRR):						State:	MN		
Soil Unit:	I38A		•	NWI Classification:						1			
Landform:	Depression				cal Relief:			-		Sample Point	w-151n42w5-h3		
Slope (%):	8 - 15%		Latitude: 47.		Longitude:		337	Datum:		Campio : cint.			
		nditions on the site							□No	Castian			
					ai ! (if no, ex					Section:			
Are Vegetati		☐ or Hydrology		tly disturbed?		Are	e normal circun		esent?	Township:			
Are Vegetati		☐ or Hydrology	□ aturally p	roblematic?			Yes	□No		Range:	Dir:		
SUMMARY (OF FINDING:	6											
Hydrophytic '	Vegetation P	resent?	Yes					Hydric Soi	ls Present?	Yes			
Wetland Hyd			Yes		_						etland? Yes		
Remarks:					compley	and currounds							
Remarks: The wetland is a fresh wet meadow located within a large wetland complex and surrounded by a hardwood forest. A four-wheeler trail goes through the wetland. Wetland vegetation is dominated by Canada bluejoint, woolly sedge, and fowl blue grass.													
		elianu vegelalion i	is dominated	i by Canada b	iuėjoini, wo	July Seu	ge, and lowi bit	ue grass.					
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	I that annly:	Minimum of or	ne nrimary	or two se	econdary requi	red)·					
Primary		Cators (Oncor an	i tilat apply,	viii iii ii di di	ic primary	OI (WO 3)	coordary requi	icu).	Secondary				
	A1 - Surface \	Nater			B11 - Salt	Crust				B6 - Surface S	oil Cracks		
1	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface		
1 5	A3 - Saturation				C1 - Hydro					B10 - Drainage			
I	B1 - Water M										Rhizospheres on Living Roots (tilled)		
I	B2 - Sedimen										Burrows		
I =	B3 - Drift Dep				C4 - Prese			(Nisible on Aerial Imagery		
I =	B4 - Algal Ma									D2 - Geomorp			
I 🗆	B5 - Iron Dep				Other (Exp				7	D5 - FAC-Neut	tral Test		
	B7 - Inundation	n Visible on Aerial Im	nagery		` '	,				D7 - Frost-Hea	ved Hummocks (LRR F)		
	B9 - Water-St		0 ,								,		
Field Obser	vatione:												
			_		<i>(</i> : \								
	er Present?	_		th:	_ (in.)			Wetland F	lydrology	Present?	Υ		
Water Table	Present?	Yes \square	Dep	th:	(in.)			· · · · · · · · · · · · · · · · · · ·	.yu.o.ogy		. <u></u> .		
Saturation P	resent?	Yes \square	Dep	th:	(in.)								
Describe Des	· · , ,												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary wetland hydrology indicators are present. Wetland hydrology is assumed based on hydrophytic vegetation and landscape position.													
Remarks:								ed on hydro	phytic vege	tation and lan	dscape position.		
								ed on hydro	phytic vege	tation and lan	dscape position.		
								ed on hydro	phytic vege	tation and lan	dscape position.		
Remarks: SOILS	No primary		indicators a	re present. W	etland hyd	rology is	assumed base		phytic vege	tation and lan	dscape position.		
Remarks: SOILS Profile Descri	No primary iption (Descri	wetland hydrology	indicators a	re present. W	etland hyd	rology is	assumed base e absence of ir	ndicators.)	phytic vege	tation and lan	dscape position.		
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doc latrix, CS=Cove	rument the ind	etland hyd icator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	ndicators.)	Texture	tation and lan	dscape position. Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-25 NRCS Hydr	No primary Iption (Description) Hue 10YR Hue 2.5Y Hue 2.5Y Hue 2.5Y A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A11- Deplete A12- Thick D S1- Sandy M S3- 5 cm Mu S3- 5 cm Mu	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 4/2 5/4 Indicators (chairman and the color strict of th	windicators a eeded to doceatrix, CS=Cove % 10 60 10 neck here if i	ument the ind red/Coated Sand Color (0) Hue_10YF Hue_10YF Hue_10YF S5 - Sandy F S6 - Stripped F1 - Loamy (1) F2 - Loamy (1) F3 - Deplete F6 - Redox [1] F7 - Deplete F8 - Redox [1]	etland hyd icator or cc Grains; Loca Moist) Redox Moist Mo	mology is confirm the tion: PL=Pr Mottle % 10 30 50 tt):	e absence of ir ore Lining, M=Matr	Location M M M	Texture C SL C LS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Redur TF2 - Red F TF12 - Very Other (Explain	Mixed matrix. for Problematic fuck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material s Shallow Dark S ain in Remarks)	Remarks 2 Soils¹ LRR F, G, H) 200S (LRR H, outside MLRA 72, 73)		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-25 NRCS Hydr	No primary Iption (Description	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 4/2 5/4 Indicators (chairman and the color strict of th	windicators a eeded to doceatrix, CS=Cove % 10 60 10 neck here if i	ument the ind red/Coated Sand Color (0) Hue_10YF Hue_10YF Hue_10YF O Hue_10YF Color (0) Color (0) Hue_10YF Hue_10YF Color (0) Hue_10YF Hue_10YF Color (0) Hue_10YF Hue_10YF Color (0) F3 - Sandy F F4 - Loamy I F2 - Loamy I F3 - Deplete F6 - Redox I F7 - Deplete F8 - Redox I F16 - High P	etland hyd icator or co Grains; Loca Moist) R 6/8 2/1 R 6/8 Redox I Matrix Mucky Miner. Gleyed Matrix Dark Surface d Dark Surface d Dark Surface d Dark Surface lains Depres	mology is confirm the tion: PL=Pr Mottle % 10 30 50 tt):	e absence of ir ore Lining, M=Matrices Type C C C	Location M M M R H)	Texture C SL C LS Indicators of I A9 - 1 Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain I Indicators of I unless disturbed	Mixed matrix. Mixed matrix. for Problematic fluck (LRR I, J) I brairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Poshallow Dark S ain in Remarks)	Remarks 2: Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-25 NRCS Hydr	No primary Iption (Description	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 4/2 5/4 Indicators (chairman and the color strict of th	windicators a eeded to doceatrix, CS=Cove % 10 60 10 neck here if i	ument the ind red/Coated Sand Color (0) Hue_10YF Hue_10YF Hue_10YF S5 - Sandy F S6 - Stripped F1 - Loamy (1) F2 - Loamy (1) F3 - Deplete F6 - Redox [1] F7 - Deplete F8 - Redox [1]	etland hyd icator or co Grains; Loca Moist) R 6/8 2/1 R 6/8 Redox I Matrix Mucky Miner. Gleyed Matrix Dark Surface d Dark Surface d Dark Surface d Dark Surface lains Depres	mology is confirm the tion: PL=Pr Mottle % 10 30 50 tt):	e absence of ir ore Lining, M=Matrices Type C C C	Location M M M	Texture C SL C LS Indicators of I A9 - 1 Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain I Indicators of I unless disturbed	Mixed matrix. Mixed matrix. for Problematic fluck (LRR I, J) I brairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Poshallow Dark S ain in Remarks)	Remarks 2: Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-151n42w5-h3					
VEGETATIO	N (Species identified in all uppercase are	e 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: 4 (A)					
3.					` ,					
4.					Total Number of Dominant Species Across All Strata: 4 (B)					
5.					Total Number of Borninant openies Across Air Strata.					
					D 4 (D 1 40 1 T) 44 ODI F10W F10 400 00((A/D)					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp. 25 x 1 = 25					
	Total Cover =	0			FACW spp. 90 x 2 = 180					
	-		_		FAC spp. 10 x 3 = 30					
Capling/Chrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0					
	Salix discolor	20	Υ	FACW	··· ———					
1.					UPL spp 0					
2.	Cornus racemosa	10	Υ	FAC						
3.					Total 125 (A) 235 (B)					
4.										
5.				-	Prevalence Index = B/A = 1.880					
6.										
7.	i i									
8.					Hydrophytic Vegetation Indicators:					
9.										
					Rapid Test for Hydrophytic Vegetation					
10.	J				X Dominance Test is > 50%					
	Total Cover =	30	_		X Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Calamagrostis canadensis	40	Υ	FACW						
2.	Carex pellita	25	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be					
3.	Carex sartwellii	15	N	FACW	present, unless disturbed or problematic.					
4.	Poa palustris	15	N	FACW	Definitions of Vegetation Strata:					
5.	1			171011	Dominiono di Vogotation di ata					
					Troo					
6				_	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.					
7.				_	Height (DD11), 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.					
13.	T				1100uy 111103 ,,,,					
	Total Cover =	95	_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.					<u> </u>					
4.				_						
· ·	Total Cover =	0								
Total Cover = 0										
Remarks: Dominant vegetation includes Canada bluejoint and woolly sedge.										
Additional Remarks:										