WETLAND DETERMINATION DATA FORM Great Plains Region

										-	
Project/Site:		L3R								Date:	08/05/14
Applicant:		Enbridge								County:	Red Lake
Investigators				Subregion (MLRA or LRR):						State:	MN
Soil Unit:	159A	I.			_	•	l Classification:	MLRA 56		1	
Landform:	Side slope				ocal Relief:			-		Sample Point	u-151n42w14-b1
Slope (%):	3 - 7%		Latitude: 47.		Longitude:		10605	Datum:		Campio i omi	<u> </u>
		nditions on the site							□No	0	
								⊒Yes		Section:	
Are Vegetation		☐ or Hydrology		itly disturbed?		Are	e normal circun	•	esent?	Township:	
Are Vegetation	on 📮 Soil	☐ or Hydrology	□aturally p	problematic?			Yes	□No		Range:	Dir:
SUMMARY (OF FINDINGS	3									
Hydrophytic '			No					Hydric Soi	ls Present?	No.	
Wetland Hyd			No.		_					nt Within A W	etland? No
	The unless	sample point is do				had waala					
Remarks:	The upland	sample point is ut	ommated by	SHIOOTH DIOH	ie and iocai	ieu upsio	pe or a roadsic	de dilcri, will	ılıı wılat ap	ipears to be a	ii olu iairiisteau.
HYDROLOG	Υ										
		icators (Check all	I that apply:	Minimum of a	no primon	or two o	ooondon, roqui	rod\.			
		icators (Check all	i that apply;	Minimum of C	ne primary	or two se	econdary requi	rea):	0		
Primary:		Matan		_	☐ B11 - Salt	O			Secondary		Sail Canala
☐ A1 - Surface Water ☐ A2 - High Water Table										B6 - Surface S	
l H	A2 - High wa A3 - Saturatio			☐ B13 - Aquatic Fauna☐ C1 - Hydrogen Sulfide Odor						B10 - Sparsely	Vegetated Concave Surface
l H	B1 - Water M										e Patterns Rhizospheres on Living Roots (tilled
l H	B2 - Sedimen			☐ C3 - Oxidized Rhizospheres on Living Roots (not tille☐ C4 - Presence of Reduced Iron☐ C7 - Thin Muck Surface☐ ☐							Surrows
	B3 - Drift Dep										n Visible on Aerial Imagery
1 5	B4 - Algal Ma										hic Position
1	B5 - Iron Dep										tral Test
1 5		n Visible on Aerial Im	nagery	-	- Other (EXP	,iaiii)					aved Hummocks (LRR F)
	B9 - Water-St		lagery						_	D1 - 1103(-110)	avea Hammocks (ERRY)
_	20 114(0) 0										
F: 1101											
Field Obser											
Surface Wat	er Present?	Yes	Dep	oth:	(in.)			Wotland L	lydrology	Drocont?	N
Water Table	Present?	Yes	Der	oth:	(in.)			wellanu r	iyurology	rieseiiti	IN
Saturation Pr	resent?	Yes \square		oth:	(in.)						
		100 _	501		()						
Describe Rec	orded Data (s	stream gauge, monit	itoring well, a	aerial photos, p	revious insp	pections),	if available:				
Remarks:		stream gauge, moni or secondary wetla				pections),	if available:				
						oections),	if available:				
Remarks:						pections),	if available:				
Remarks:	No primary	or secondary wetla	and indicato	ors were obse	rved.			ndicators)			
Remarks: SOILS Profile Descri	No primary	or secondary wetle	and indicato	ors were obse	rved.	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary wetla	and indicato	ors were obse	rved.	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary wetla be to the depth ne etion, RM=Reduced M	and indicato	ors were obse	rved.	onfirm the	e absence of ir ore Lining, M=Mati		T	1	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary wetla be to the depth ne etion, RM=Reduced M Matrix	eeded to doo	cument the incred/Coated Sand	rved. dicator or co	onfirm the	e absence of ir ore Lining, M=Matr	rix)	<u> </u>		
Remarks: SOILS Profile Descri	No primary	or secondary wetla be to the depth ne etion, RM=Reduced M	and indicato	cument the incred/Coated Sand	rved.	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary wetla be to the depth ne etion, RM=Reduced M Matrix	eeded to doo	cument the incered/Coated Sand	rved. dicator or co	onfirm the	e absence of ir ore Lining, M=Matr	rix)	Texture SCL	Sparse gravel fra	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the incered/Coated Sand	dicator or co	onfirm the	e absence of ir ore Lining, M=Matr	rix)		Sparse gravel fra	gments
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No primary	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the incered/Coated Sand	dicator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL	1	gments
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the incered/Coated Sand	dicator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL	1	gments
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the incered/Coated Sand	dicator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL	1	gments
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the incered/Coated Sand	dicator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL	1	gments
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the incered/Coated Sand	dicator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL	1	gments
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-16	No primary iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 3/2	eeded to docatrix, CS=Cove	cument the incered/Coated Sand Color	dicator or cd Grains; Loca (Moist)	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	SCL	1	gments
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-16	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 3/2	eeded to docatrix, CS=Cove	cument the incered/Coated Sand	dicator or cd Grains; Loca (Moist)	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	SCL SC	Sparse gravel fra	gments
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-16 NRCS Hydr	No primary iption (Description, D=Deption, D=Deption, D=Deption) Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 3/2	eeded to docatrix, CS=Cove	cument the incred/Coated Sand 6 Color 00 Hue_10Y	dicator or co	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location M	SCL SC	Sparse gravel fra	gments
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-16 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 3/2 Indicators (chipedon	eeded to doc atrix, CS=Cove	cument the incered/Coated Sand 6 Color 00 Hue_10Yl indicators are	Micator or co	Mottle 96 10 10 10 10 10 10 10 10 10 10 10 10 10	e absence of ir ore Lining, M=Matr es Type	Location M	SCL SC Indicators 1 A9 - 1 cm M A16 - Coast	Sparse gravel fra Sparse gravel fra For Problematic Muck (LRR I, J) t Prairie Redox (gments gments c Soils¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-16 NRCS Hydr	No primary iption (Descrintration, D=Depl Hue 10YR Hue 2.5Y A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 3/2 Indicators (chain and the color is th	eeded to docatrix, CS=Cove	cument the incered/Coated Sand 6 Color 00 Hue_10Yi indicators are S5 - Sandy S6 - Strippe F1 - Loamy	(Moist) R 3/6 not present	Mottle % 10 11 11 11 11 11 11 11 11 11 11 11 11	e absence of ir ore Lining, M=Matr es Type	Location M	Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S	Sparse gravel fra for Problemation fuck (LRR I, J) t Prairie Redox uurface (LRR G)	gments gments c Soils¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-16 NRCS Hydr	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type:	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 3/2 Indicators (chairman and a stick and a sufficied before the color of the co	eeded to doc atrix, CS=Cove	cument the incred/Coated Sand 6 Color 6 Color 10 Hue_10Y 10 S5 - Sandy 10 S6 - Strippy 10 F2 - Loamy 10 F3 - Deplett 10 F6 - Redox 10 F8 - Redox 10 F16 - High I	Micator or co	Mottle Mottle	e absence of ir ore Lining, M=Matr es Type C C RA 72, 73 of LRF	Location M RH)	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Sparse gravel fra for Problematic Muck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material v Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	gments gments C Soils (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-151n42w14-b1				
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: 1 (A)				
3.					(1)				
					Total Number of Dentisent Openies Assess All Objects (D)				
4.					Total Number of Dominant Species Across All Strata:(B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)				
7.									
8.		-			Prevalence Index Worksheet				
9.		=			Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
10.	_l				· · · · · · · · · · · · · · · · · · ·				
	Total Cover =	0	_		FACW spp. 17				
					FAC spp. 24				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 37 x 4 = 148				
1.	Salix interior	5	Υ	FACW	UPL spp. 35 X 5 = 175				
2.		-	-						
3.					Total 113 (A) 429 (B)				
4.					1.2. (D)				
					December 1 december 2010				
5.					Prevalence Index = B/A = 3.796				
6.	<u>_</u>								
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
10.	Total Cayor -								
	Total Cover =	5	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	35	Υ	UPL					
2.	Poa pratensis	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Solidago gigantea	20	N	FAC	present, unless disturbed or problematic.				
4.	Phalaris arundinacea	10	N	FACW	Definitions of Vegetation Strata:				
					Definitions of Vegetation offata.				
5.	Melilotus officinalis	5	N	FACU	_				
6	Cirsium arvense	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Lathyrus palustris	2	N	FACW	height (DBH), regardless of height.				
8.	Equisetum arvense	2	N	FAC					
9.	Panicum virgatum	2	N	FAC	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.	Solidago canadensis	2	N	FACU					
11.									
				_	Herb - All herbaceous (non-woody) plants, regardless of size.				
12.					TIEFD = / III INCIDAGEOUS (ITOT-WOODY) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	108			•				
	Total Cover –	100	_						
M/	and any (Distriction on the second of the se								
	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.				_	Hydrophytic Vegetation Present? N				
5.									
4.									
→.	Total Causa =	0							
Demontra	Total Cover =		a and IZ:	ادا د مامینات	annes with a verial of other analog inter				
Remarks:	The upland sample area is dominated by sm	ooth brom	e and Ken	ilucky blue	egrass, with a variety of other species interspersed throughout.				
Additional E	Remarks:								
Additional Remarks:									
l									
i									