WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/15/14
Applicant:		Enbridge									County:	Red Lake
Investigators		BCS/KRG				Subregion	n (MI RA	or LRR).	MLRA 56		State:	MN
Soil Unit:	I59A	Boontito	L			_ cubi ogici	•	Classification:			Olato.	
								Ciassification.				
Landform:	Talf					cal Relief:					Sample Point:	u-151n41w19-b1
Slope (%):	0 - 2%		Latitude:	47.8769	9373	Longitude:	-95.9609	9018	Datum:			
Are climatic/l	hydrologic co	nditions on the site	e typical	for this t	time of year	ar? (If no, exp	olain in rema	rks)	⊡Yes	□No	Section:	
Are Vegetation		□ or Hydrology			isturbed?			normal circun		esent?	Township:	
							7110	☑ Yes		Journe :		D '.
Are Vegetation		☐ or Hydrology	∟∎turai	ly proble	ematic?			⊡ res			Range:	Dir:
SUMMARY C	OF FINDING:	S										
Hydrophytic '	Vegetation P	resent?		No					Hydric Soil	s Present?	No	
Wetland Hyd				No		-					nt Within A We	etland? No
					U- I			4.4				
Remarks:	i ne upiano	sample point is lo	cated in a	a smoot	tn brome-c	iominated	area nex	it to a tilled agr	icultural flei	a upsiope i	rom the assoc	ciated wetland.
HYDROLOG	V											
Wetland Hy	drology Ind	icators (Check all	I that app	ly; Minir	mum of on	e primary	or two se	econdary requi	red):			
Primary		•		•		. ,		, ,	,	Secondary		
	A1 - Surface	Water			П	B11 - Salt (Crust				B6 - Surface S	oil Cracks
A1 - Surface Water A2 - High Water Table				☐ B13 - Aquatic Fauna								Vegetated Concave Surface
1 5	A3 - Saturation					C1 - Hydro		o Odor			B10 - Drainage	
l H						C2 - Dry Se						
	B1 - Water M								D (((- 1))			Rhizospheres on Living Roots (tilled)
_	B2 - Sedimer							pheres on Living	Roots (not till		C8 - Crayfish E	
	B3 - Drift Dep					C4 - Prese						Nisible on Aerial Imagery
	B4 - Algal Ma							ce			D2 - Geomorpl	
	B5 - Iron Dep					Other (Expl	lain)				D5 - FAC-Neut	
	B7 - Inundation	on Visible on Aerial Im	nagery								D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-S	tained Leaves										
_												
F: 1101												
Field Obser												
Surface Wat	er Present?	Yes	1	Depth:		(in.)						
Water Table	Present?	Yes \square		. –		-			Wetland H	lydrology	Present?	N
				. –								
Saturation P	resent?	Yes \square		Depth:		(in.)						
						(,						
Describe Rec	orded Data (stream gauge moni	itorina we				ections)	if available.				
		stream gauge, moni		ell, aerial	photos, pr	evious insp		if available:				
Describe Reco		stream gauge, moni or secondary indic		ell, aerial	photos, pr	evious insp		if available:				
				ell, aerial	photos, pr	evious insp		if available:				
Remarks:				ell, aerial	photos, pr	evious insp		if available:				
Remarks:	No primary	or secondary indic	cators of	ell, aerial wetland	photos, pro	evious insp	erved.		adicators)			
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of veeded to	wetland	photos, produced by the photos, produced by the photos of	evious insp	erved.	e absence of ir				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 6-14 14-18 NRCS Hydr	No primary ption (Descritration, D=Depi Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary indicators or secondary indicators ibe to the depth neetion, RM=Reduced Mineral Matrix Color (Moist) 2/1 3/2 2/1 4/2 Indicators (chairs)	cators of deeded to deatrix, CS=C	docume Covered/C % 100 90 10 100 if indic.	photos, production of the indicated Sand Color (in the indicated Sand Sand Sand Sand Sand Sand Sand San	cator or cc Grains; Locat Moist)	erved. onfirm the tion: PL=Pc Mottle % tt):	e absence of ir ore Lining, M=Matr es Type	Location	SICL C C LFS Indicators : A9 - 1 cm M A16 - Coast	luck (LRR I, J) t Prairie Redox (: Soils¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 6-14 14-18 NRCS Hydr	No primary ption (Description (Description) Hue 10YR Hue 2.5Y Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black Hi	or secondary indicators or secondary indicators ibe to the depth neletion, RM=Reduced M Matrix Color (Moist) 2/1 3/2 2/1 4/2 Indicators (chair)	cators of deeded to deatrix, CS=C	docume Covered/C % 100 90 10 100 e if indic.	photos, properties of the indicated Sand of Color (I	cator or cc Grains; Locat Moist) not present edox Matrix Mucky Minera	erved. confirm the tion: PL=Pc Mottle % Line is a confirment of the tion o	e absence of ir ore Lining, M=Matr es Type	Location	SICL C C LFS Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S	fluck (LRR I, J) t Prairie Redox (urface (LRR G)	: Soils¹ LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 6-14 14-18 NRCS Hydr	Pition (Description) (Descript	or secondary indicators ibe to the depth neetion, RM=Reduced M. Matrix Color (Moist) 2/1 3/2 2/1 4/2 Indicators (chart sick (LRR F) ck (LRR FGH) cd (LRR FGH) cd Below Dark Surface ucky Mineral fucky Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	eeded to eeded to eatrix, CS=C	docume Covered/C % 100 90 10 100 100 FF	cators are r SS - Sandy R SI - Loamy R SI - Redox D	cator or cc Grains; Locat Moist) Moist) mot present edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surfa epressions	months and the served. Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators in A9 - 1 cm in M in A16 - Coast S7 - Dark S F16 - High F18 - Reduct F12 - Red F F1712 - Very Other (Explain Indicators of Indicato	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material r Shallow Dark S ain in Remarks)	E Soils 1 LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Pition (Description) (Descript	or secondary indicators ibe to the depth neetion, RM=Reduced M. Matrix Color (Moist) 2/1 3/2 2/1 4/2 Indicators (chair) Indicators (chair) Ed Below Dark Surface and Surface ucky Mineral flucky Peat or Peat (LR Rey Peat or Peat (LR	eeded to eeded to eatrix, CS=C	docume Covered/C % 100 90 10 100 100 FF	cators are r S5 - Sandy R 66 - Stripped 11 - Loamy N 12 - Loamy N 12 - Loamy C 13 - Depletec 14 - Redox D 15 - Redox D 16 - High Pl	cator or co Grains; Locat Moist) Moist) Mot present edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	months and the served. Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators of unless disturbed	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material r Shallow Dark S ain in Remarks)	E: Soils ¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Furface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Ption (Descritration, D=Depineration, D=Depine	or secondary indicators (chapters)	eeded to a catrix, CS=C	docume Covered/C % 100 90 100 100 S S F F F F F F F F F F F F F F F F F	cators are r Solve Sandy R Golor (I Color (I	cator or co Grains; Locat Moist) Moist) edox Matrix Mucky Minera Sleyed Matrix ark Surface I Dark Surfa epressions ains Depres	months and the served. Mottle % Mottle which is a served and the	e absence of irrore Lining, M=Matrices Type FA 72, 73 of LRF Hydric So	Location RH)	Indicators: A9 - 1 cm M A16 - Coast F18 - Reduct F18 - Reduct F12 - Red F TF12 - Very Other (Explainless disturbed) N	Muck (LRR I, J) I Prairie Redox (I Prairie Redox (Plains Depression Depression Ced Vertic Parent Material I Shallow Dark S ain in Remarks) Inversible Advantage of the problematic.	E: Soils ¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Furface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n41w19-b1
VEGETATION		e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Populus tremuloides	2	N	FAC	
2.					Number of Dominant Species that are OBL, FACW, or FAC:1 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	2			FACW spp. 0 x 2 = 0
			_		FAC spp. 17
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 7
1.	Populus tremuloides	15	Υ	FAC	UPL spp. 95 x 5 = 475
2.	Rosa blanda	2	N	FACU	
3.					Total 119 (A) 554 (B)
4.					··
5.					Prevalence Index = B/A = 4.655
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	17			Prevalence Index is ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
Herh Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	95	Υ	UPL	1 Tobletti Hydrophydd Vegetatioti (Explain)
2.	Cirsium arvense	5	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.				_	
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.				_	11010
14.				_	
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Carrar =	100			1100ay 111100,g
	Total Cover =	100	_		
Woody Vizz Of	rotum (Diet einer 20 ft redire)				
1.	atum (Plot size: 30 ft. radius)				
2.				_	
3.				-	Hudranhutia Vacatatian Brassata N
				_	Hydrophytic Vegetation Present? N
5.					
4.	T-1-10	^			
Domarka	Total Cover =	0 brome			
Remarks:	Upland sample area is dominated by smooth	bronne.			
Additional R	emarks:				