WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/01/14
Applicant:		Enbridge									County:	Red Lake
Investigators	:	LEB/DGL				Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	139A	39A NWI Classification:										
Landform:	Side slope										Sample Point	: u-151n42w15-q1
Slope (%):	26 - 60%		Latitude: 4			Longitude:			Datum:			
		nditions on the site				Ir? (If no, exp			☑Yes	□ No	Section:	
Are Vegetation		or Hydrology			disturbed?		Are	e normal circum ☑ Yes	istances pre □No	esent?	Township:	D'
Are Vegetation			Laturan	iy prob	lematic?			⊡ res			Range:	Dir:
SUMMARY C				NI-					Hudria Cail	la Dragant?	No	
, , ,	Hydrophytic Vegetation Present? Vetland Hydrology Present?					No No			Hydric Soils Present? Is This Sampling Poin			'etland? No
Remarks:		sample point is loc			rom a roads	ide ditch	wetland i	on a steen slon			t vvitilii A vv	eliano: NO
remarks.	The upland	sample point is loc	bated upo	siope i	Tom a roads	side diteri	welland	on a steep slop	C HCXL to th	c road.		
HYDROLOG	v											
									1)			
		cators (Check all	that appl	ly; Mın	imum of on	e primary	or two se	econdary requii	ed):	0		
Primary:	: A1 - Surface \	Vater			П	B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks
A1 - Surface Water A2 - High Water Table				☐ B13 - Aquatic Fauna								Vegetated Concave Surface
	A3 - Saturatio					C1 - Hydro			Odor 🔲			e Patterns
	B1 - Water Ma					C2 - Dry Se			D ((C'')			Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep					C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till		C8 - Crayfish	n Visible on Aerial Imagery
	B4 - Algal Mat					C7 - Thin N					D2 - Geomorp	
	B5 - Iron Depo	osits				Other (Exp	lain)				D5 - FAC-Nei	
		n Visible on Aerial Ima	agery								D7 - Frost-He	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Observ	votiono											
Surface Water		Vaa		Donth:		(in)						
Water Table		Yes ☐ Yes ☐		Depth: _		(in.)			Wetland H	lydrology I	Present?	N
						(in.)						-
Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
								if available:				
Describe Reco		tream gauge, monit or secondary indica						if available:				
Remarks:								if available:				
Remarks:	No primary	or secondary indica	ators of v	wetlan	d hydrology	were obs	erved.		dicators)			
Remarks: SOILS Profile Descri	No primary		ators of v	wetland docum	d hydrology ent the indic	were obs	erved.	e absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth need	ators of v	wetland docum	d hydrology ent the indic	were obs	erved.	e absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth need	ators of v	docum	d hydrology ent the indic	were obs	erved.	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri	No primary	be to the depth neetion, RM=Reduced Ma	ators of v	wetland docum	d hydrology ent the indic	were obs	erved. onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth neetion, RM=Reduced Ma	ators of v	docum	ent the indic	were obs	erved. onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr es	(x)	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist)	ators of v	docum covered/	ent the indic	were obs	erved. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es	(x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary iption (Descri	be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist)	ators of v	docum docum overed// %	ent the indic Coated Sand C Color (N	were obs cator or co grains; Local Moist) ot presen	erved. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f	or Problemati	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Deple iric Soil Field A1- Histosol	be to the depth needetion, RM=Reduced Ma Matrix Color (Moist) Indicators (che	ators of v	docum covered/ %	ent the indic Coated Sand C Color (N	cator or co crains; Local Moist) ot presen	erved. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Deple intration (Descrintration, D=Deple intration (Descrintration, D=Deple intration, D=D	be to the depth needetion, RM=Reduced Ma Matrix Color (Moist) Indicators (checkpedon)	ators of v	docum covered/ %	ent the indic Coated Sand O Color (N Color Sand Sand Sand Sand Sand Sand Sand Sand	were obs cator or co grains; Local Moist) ot presen edox Matrix	erved. Onfirm the tion: PL=Pe Mottle % tt):	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Deple ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needetion, RM=Reduced Ma Matrix Color (Moist) Indicators (che	ators of v	docum covered// %	ent the indicoated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Sand Sand Sand Sand Sand Sand San	were obs cator or cc Grains; Loca Moist) ot presen edox Matrix ucky Minera	erved. confirm the tion: PL=Po Mottle % tt):	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation) ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needetion, RM=Reduced Markix Color (Moist) Indicators (checking a Sulfide	ators of v	docum docum vovered// %	ent the indic Coated Sand C Color (N Color (N Co	were obs cator or co grains; Loca Moist) oot presen edox Matrix ucky Miner: leyed Matrix	erved. confirm the tion: PL=Po Mottle % tt):	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils ¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	ntration, D=Deplementation, D=	be to the depth needetion, RM=Reduced Ma Matrix Color (Moist) Indicators (check pedon titic is Sulfide Layers (LRR F) ks (LRR F6H) d Below Dark Surface	eded to centrix, CS=Cd	wetland document for the following state of t	ent the indicoated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Sand Sand Sand Sand Sand Sand San	were obs cator or cc Grains; Loca Moist) ot presen edox Matrix ucky Minera leyed Matrix Matrix Surface Dark Surface	months with the served and the serve	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Red uc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S	c Soils¹ (LRR F, G, H)) ONS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	no primary iption (Descrintration, D=Depleted A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D	be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist) Indicators (che ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eded to centrix, CS=Cd	docummovered//	ent the indicoated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Sand Sand Sand Sand Sand Sand San	were obs cator or co Grains; Loca Moist) oot presen edox Matrix ucky Miner; leyed Matrix Matrix ark Surface Dark Surface park Surf	months of the served. In the served of the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Red uc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material	c Soils¹ (LRR F, G, H)) ONS (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-q1				
					<u> </u>				
VEGETATION (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft. radius)									
Tree Guatam (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Specific Name	70 OOVCI	Dominant	ind.Otdtu3	Domination Foot Workshoot				
2.					Number of Dominant Species that are OBL, FACW, or FAC: (A)				
					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 2 (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				
10.	_l Total Cover =	0			FACW spp. 0 x 2 = 0				
	Total Cover =	0	_						
					FAC spp. 0 x 3 = 0				
	Stratum (Plot size: 15 ft. radius)				FACU spp x 4 =				
1.					UPL spp. 40				
2.									
3.				·	Total 90 (A) 400 (B)				
4.									
5.					Prevalence Index = B/A = 4.444				
6.									
7.									
					Hudronk, die Verstelien Indiestere				
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.	Bromus inermis	40	Υ	UPL					
2.	Poa pratensis	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Trifolium hybridum	15	N	FACU	present, unless disturbed or problematic.				
4.	Setaria pumila	5	N	FACU	Definitions of Vegetation Strata:				
	Setalia purilla	5	IN	FACU	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.									
14.									
					Woody Vines - All woody vines, regardless of height.				
15.					YYOOQY VIIIeS - All Woody VIIIes, Tegaluless of Height.				
	Total Cover =	90	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.		-	-						
3.					Hydrophytic Vegetation Present? N				
5.					, , , , , , , , , , , , , , , , , , ,				
4.									
→.	Total Cover =	0							
Domarka:	The vegetation is deminated by non-budgeth	0	o and has	hoon re-	Lently mowed. Bare ground is present at approximately 10%.				
Remarks:	The vegetation is dominated by non-hydroph	iyuc specie	s and nas	been rec	entry mowed. Bare ground is present at approximately 10%.				
Additional Remarks:									