WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	09/29/14						
Applicant:		Enbridge							County:	Red Lake						
Investigators		LEB/DGL			Subregion	(MLRA or LRR):	MLRA 56		State:	MN						
Soil Unit:	159A			_		NWI Classific	ation:									
Landform:	Talf			Lo	cal Relief: I	<u>LL</u>			Sample Point	u-151n42w15-b1						
(/	0 - 2%		Latitude: 47.			-96.028533	Datum									
Are climatic/h	nydrologic co	nditions on the sit	e typical for	this time of yea	ar? (If no, expl	ain in remarks)	⊡Yes	□ No	Section:							
Are Vegetation	on 🖵 Soil	☐ or Hydrology	□gnifican	ly disturbed?		Are normal of	circumstances pr	esent?	Township:							
Are Vegetation		or Hydrology				~	Yes □No		Range:	Dir:						
SUMMARY C									3.							
			No				Hydric Soi	ile Present?	No							
Hydrophytic Vegetation Present? Wetland Hydrology Present?				No No			Hydric Soils Present? No Is This Sampling Point Within A Wetland? No									
		sample point is lo		/ unclope from	the wetten	d in a fanced no		mpiling Foli	it vviuiiii A vv	elialiu! NO						
Remarks.	The uplanu	sample point is to	cated slightly	upsiope iroin	tile wettari	u iii a iericeu pas	sture.									
	_															
HYDROLOGY	Y															
Wetland Hy	drology Indi	icators (Check all	I that apply; I	Minimum of on	e primary o	or two secondary	required):									
Primary:		•				•		Secondary:	-							
A1 - Surface Water					B11 - Salt C	rust				Soil Cracks						
	A2 - High Wa				B13 - Aquat					Vegetated Concave Surface						
	A3 - Saturatio					en Sulfide Odor			B10 - Drainag							
	B1 - Water Ma					ason Water Table				Rhizospheres on Living Roots (till	led)					
	B2 - Sedimen					ed Rhizospheres on			C8 - Crayfish I							
	B3 - Drift Dep B4 - Algal Ma									n Visible on Aerial Imagery						
	B5 - Iron Dep				Other (Expla				D5 - FAC-Neu							
		n Visible on Aerial Im	nagery		Other (Expire	all I)				aved Hummocks (LRR F)						
	B9 - Water-St		lagery					_	D7 - 1103(-110)	aved Hammooks (ERRY)						
_																
Field Observ	otional															
			_		<i>(</i> : \											
Surface Water			Dep	th:	(in.)		Wetland H	Hydrology I	Present?	N						
Water Table		Yes	Dep	th:	(in.)			.,		<u> </u>						
Saturation Pr	esent?	Yes \square	Dep	th:	(in.)	Saturation Present? Yes Depth: (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																
Describe Reco	orded Data (s	stream gauge moni	itoring well a	erial photos pr	evious inspe	ections) if available	le·									
							le:									
		stream gauge, moni or secondary indic					le:									
Remarks:							le:									
Remarks: SOILS	No primary	or secondary indic	cators of wet	land hydrology	were obse	erved.										
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wet	and hydrology	were obse	erved.	e of indicators.)									
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Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth neetion, RM=Reduced M	cators of wet	and hydrology	were obse	nfirm the absencon: PL=Pore Lining, N	e of indicators.)	1								
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indices be to the depth neetion, RM=Reduced M Matrix	cators of wet	ument the indi	were obse cator or cor Grains; Location	erved. Infirm the absence on: PL=Pore Lining, Mottles	e of indicators.) M=Matrix)	Texture SICL		Remarks						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-18 NRCS Hydri	Ption (Description), D=Deption (Description),	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 4/2 Indicators (chipedon	eeded to doc atrix, CS=Cove	ument the indi red/Coated Sand Color (I	cator or col Grains; Location Moist) Moist) not present; edox Matrix	mfirm the absence on: PL=Pore Lining, Mottles Mottles Typ	e of indicators.) M=Matrix) e Location	SICL SICL SICL Indicators 1 A9 - 1 cm M	luck (LRR I, J) Prairie Redox	c Soils¹ (LRR F, G, H)						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-18 NRCS Hydri	Ption (Descritration, D=Depli Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 4/2 Indicators (chairmann and chairmann and ch	eeded to doceatrix, CS=Cove % 10 10 neck here if i	ument the indi red/Coated Sand Color (I	cator or col Grains; Location Moist) Moist) not present; edox Matrix Hucky Mineral Gleyed Matrix	infirm the absenction: PL=Pore Lining, Nottles Mottles Typ	e of indicators.) d=Matrix) e Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils¹ (LRR F, G, H)						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-18 NRCS Hydri	ption (Descritration, D=Depli Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 4/2 Indicators (chairmann and chairmann and ch	eeded to doc atrix, CS=Cove	ument the indi red/Coated Sand of Color (I 0 0 0 0 0 style="background-color: green; color: green; c	cator or col Grains; Location Moist) Moist) not present; edox Matrix lucky Mineral scleyed Matrix I Matrix ark Surface	mfirm the absence on: PL=Pore Lining, Mottles Mottles Typ	e of indicators.) M=Matrix) e Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S1 F16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)						
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-18 NRCS Hydri	ption (Descritration, D=Depli Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 4/2 Indicators (chain and a stick of the stick (LRR FGH) delow Dark Surface	eeded to doceatrix, CS=Cove % 10 10 neck here if i	ument the indi red/Coated Sand of Color (I) Co	Cator or cor Grains; Location Moist) Moist) Mot present; edox Matrix Mucky Mineral sleyed Matrix I Matrix I Matrix ark Surface Dark Surface	mfirm the absence on: PL=Pore Lining, Mottles Mottles Typ	e of indicators.) d=Matrix) e Location C C C C C C C C C C C C C C C C C C C	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression Ced Vertic Parent Material	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-18 NRCS Hydri	ption (Descritration, D=Deplementation, D=Deplem	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 4/2 Indicators (chairman and chairman a	eeded to docceatrix, CS=Cove % 10 10 neck here if i	ument the indi red/Coated Sand of Color (I 0 0 0 0 S5 - Sandy R S6 - Stripped F6 - Stripped F6 - Redox D F7 - Depletec F8 - Redox D	Moist) Moist) Moist) Mot present; edox Matrix Mucky Mineral Bleyed Matrix I Matrix I Matrix I Dark Surface epressions	mfirm the absence on: PL=Pore Lining, Nottles % Typ	e of indicators.) d=Matrix) e Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressiced Vertic Parent Material Shallow Dark S	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-18 NRCS Hydri	No primary ption (Description (Description) Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2- Histic Ep A3- Black His A4- Hydroget A4- Hydroget A1- Thick D S1- Sandy M S2- 2.5 cm M S3-5 cm Mu S4- Sandy G	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 4/2 Indicators (chairman and chairman a	eeded to docceatrix, CS=Cove % 10 10 neck here if i	ument the indi red/Coated Sand of Color (I 0 0 0 0 S5 - Sandy R S6 - Stripped F6 - Stripped F6 - Redox D F7 - Depletec F8 - Redox D	Moist) Moist) Moist) Mot present, edox Matrix Mucky Mineral sleyed Matrix Matrix Matrix Matrix Matrix Matrix Matrix Ark Surface park Surface pressions ains Depress	mfirm the absence on: PL=Pore Lining, N Mottles % Typ	e of indicators.) #=Matrix) e Location C C C C C C C C C C C C C C C C C C C	Indicators of hundess disturbed	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	sent,					
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-b1				
VEGETATION		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				
	-		_		FAC spp. 0 x 3 = 0				
Sapling/Shrub Stratum (Plot size: 15 ft. radius)					FACU spp. 75 x 4 = 300				
1.					UPL spp. 25 x 5 = 125				
2.									
3.					Total 100 (A) 425 (B)				
4.					··				
5.					Prevalence Index = B/A = 4.250				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
10.		0			Prevalence Index is ≤ 3.0 *				
	10101 00101		_		Morphological Adaptations (Explain) *				
Herh Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	25	Υ	UPL	1 Toblem Hydrophydic Vegetation (Explain)				
2.	Phleum pratense	20	· Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Trifolium hybridum	20	Y	FACU	present, unless disturbed or problematic.				
4.	Fragaria virginiana	15	N .	FACU	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	10	N	FACU	Deminions of Vegetation Strata.				
6	Melilotus officinalis	5	N	FACU	Tree				
7.	Cirsium arvense	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
8.	Cirsium aivense	5	IN	FACU	g (= = - /)g = = = = = = = .				
9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.					Sapining/Silitub - Woody Planto loss than one. BBH, Togardiess of Holgiti.				
11.					Herb - All herbaceous (non-woody) plants, regardless of size.				
12.					Herb - All Herbaceous (Holl-woody) plants, regardless of size.				
13.									
14.				_	Woody Vines - All woody vines, regardless of height.				
15.					VVOODY VINES - All WOODY VINES, regardless of neight.				
	Total Cover = _	100	_						
	ratum (Plot size: 30 ft. radius)								
1.				_					
2.				_					
3.				_	Hydrophytic Vegetation Present? N				
5.									
4.				_					
<u> </u>	Total Cover =	. 0	—						
Remarks:	The vegetation is dominated by non-hydrophy	ytic specie	s. The ve	getation ha	as been moderately grazed.				
		· · · ·	· · · ·						
Additional Remarks:									