WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	10/02/14					
Applicant:		Enbridge							County:	Red Lake					
Investigators	:	LEB/DGL			Subregion	(MLRA or LRR):	MLRA 56		State:	MN					
Soil Unit:	139A					NWI Classificat	ion:								
Landform:	Talf			Lo	cal Relief: L	<u>.L</u>			Sample Point	u-151n42w15-bb1					
	0 - 2%		Latitude: 47.8		Longitude: -		Datum:								
Are climatic/h	nydrologic co	nditions on the site	e typical for t	this time of yea	ar? (If no, expla	ain in remarks)	⊡Yes	□ No	Section:						
Are Vegetation	on 🖵 Soil	☐ or Hydrology	□gnificant	tly disturbed?		Are normal cire	cumstances pr	esent?	Township:						
Are Vegetation		or Hydrology				☑ Ye	es □No		Range:	Dir:					
SUMMARY C									3.						
Hydrophytic \			No				Hydric Soi	ls Present?	No						
Wetland Hyd			No		-		Hydric Soils Present? No Is This Sampling Point Within A Wetland? No								
				o from the we	tland in a la	rge cattle pasture.	is this sa	inpling Folia	it vviuiiii A vv	elialiu! NO					
Remarks.	The uplanu	sample point is lo	cated upsion	e nom the we	lianu in a ia	ige calle pasitire.									
HYDROLOGY	Y														
Wetland Hy	drology Ind	icators (Check all	that apply; N	Minimum of on	e primary o	r two secondary re	quired):								
Primary:	:	,				·	. ,	Secondary:	-						
A1 - Surface Water					B11 - Salt Cı	rust				Soil Cracks					
	A2 - High Wa				B13 - Aquati					Vegetated Concave Surface					
	A3 - Saturatio					en Sulfide Odor			B10 - Drainage						
	B1 - Water Ma					ason Water Table				Rhizospheres on Living Roots (till	.ed)				
	B2 - Sedimen					d Rhizospheres on Liv	ring Roots (not til		C8 - Crayfish I						
	B3 - Drift Dep									n Visible on Aerial Imagery Phic Position					
l H	B4 - Algal Ma B5 - Iron Dep				Other (Expla				D5 - FAC-Neu						
		osits In Visible on Aerial Im	nagery		Other (Expla	III 1 <i>)</i>				aved Hummocks (LRR F)					
	B9 - Water-St		lagery					_	D7 - 1103(-110)	avea Hammooks (ERRY)					
_															
Field Observ	otional														
			_		<i>(</i> ;)										
Surface Water			Dep	th:	(in.)		Wetland F	lydrology I	Present?	N					
Water Table		Yes	Dep	th:	(in.)			.,		<u> </u>					
Saturation Pr	resent?	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:									
		stream gauge, moni or secondary indic													
Remarks:															
Remarks: SOILS	No primary	or secondary indic	cators of wet	land hydrology	were obser	rved.	of indicators \								
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary indicates be to the depth ne	cators of wet	land hydrology	were obsercator or cor	rved.									
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary indicates to the depth ne	cators of wet	land hydrology	were obsercator or cor	rved.									
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary indicates be to the depth ne	cators of wet	land hydrology	were obsercator or cor	rved. If the absence on: PL=Pore Lining, M=									
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary indices be to the depth ne etion, RM=Reduced Matrix	eeded to doc atrix, CS=Cover	ument the indi	cator or cor	nfirm the absence on: PL=Pore Lining, M= Mottles	Matrix)								
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary indicates be to the depth ne	cators of wet	ument the indi	cator or cor	rved. If the absence on: PL=Pore Lining, M=		Texture		Remarks					
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary ption (Descriptration, D=Depletration, D=Depletration)	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cover	ument the indired/Coated Sand	cator or cor	nfirm the absence on: PL=Pore Lining, M= Mottles	Matrix)	SIL		Remarks					
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	ption (Descriptration, D=Deplied Hue_10YR	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 2/1 5/2	eeded to docatrix, CS=Cover	ument the indired/Coated Sand	cator or con Grains; Locatio	firm the absence on: PL=Pore Lining, M= Mottles % Type	Matrix)	SIL		Remarks					
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydri	No primary ption (Descriptration, D=Depli Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 5/2 Indicators (chairs)	eeded to docatrix, CS=Cover	ument the indi red/Coated Sand Color (I 0 0 0 ndicators are r	cator or congrains; Location Moist) Moist) not present) edox Matrix ducky Mineral	Mottles Type	Location	SIL FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)					
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-bb1				
VEGETATION	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.	Quercus macrocarpa	15	Υ	FACU					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
5.					Total Number of Borninant opecies Across Air otrata.				
6.					Descent of Deminant Species That Are ODL FACIAL or FAC: 22.20/ (A/D)				
					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. 15 x 1 = 15				
	Total Cover =	15			FACW spp. 25 x 2 = 50				
	•		_		FAC spp. 0 x 3 = 0				
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 75 x 4 = 300				
1.	Character (Florenze: To it. Tadias)				UPL spp. 0 x 5 = 0				
2.									
3.					Total 445 (A) 205 (D)				
					Total(A)(B)				
4.									
5.					Prevalence Index = B/A = 3.174				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
10.	_ Total Cover =	0							
	Total Cover –	U	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phleum pratense	35	Υ	FACU					
2.	Agrostis gigantea	25	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Fragaria virginiana	15	N	FACU	present, unless disturbed or problematic.				
4.	Carex pellita	10	N	OBL	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	10	N	FACU	•				
6	Carex granularis	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
8.									
				-	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
9.					Sapling/Snrub - Woody plants less than 3 m. DBH, Tegardiess 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.				
	Total Cover =	100							
1	Total Cover –	100	_						
Maria 1 17 - 51	ont on (District on OO file and C.)								
	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.				_					
	Total Cover =	0							
Remarks:			s and has	heen gra	7ed				
Remarks: The vegetation is dominated by non-hydrophytic species and has been grazed.									
Additional Remarks:									
1									
1									