WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14	
Applicant:		Enbridge								County:	Red Lake	
Investigators	:	BEH/NTT			Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	159A					NWI	Classification					
Landform:	Talf			Lo	cal Relief:	VL				Sample Point:	u-152n42w30-a1	
Slope (%):	3 - 7%		Latitude: 47.9		Longitude:		52982	Datum		1		
		nditions on the site						⊡Yes	_ □ No	Section:		
		or Hydrology			лі : (п по, ехр		normal circun			1		
Are Vegetation				ly disturbed?		Ale		•	esent?	Township:		
Are Vegetation		☐ or Hydrology	∟ aturally pi	roblematic?			Yes	□No		Range:	Dir:	
SUMMARY C												
Hydrophytic \	Vegetation P	resent?	No					Hydric Soi	ils Present?	' Yes		
Wetland Hyd	Irology Prese	nt?	No		-			Is This Sa	mpling Poir	nt Within A W	etland? No	
Remarks:			field, upslor	oe from a seas	onally-floo	oded swa	le. Site contair	ns hydric so	oil, but no ot	her wetland ir	ndicators were observed.	
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LIVEROL CO	v											
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all	that apply; N	Minimum of or	e primary	or two se	econdary requi	red):				
Primary:		•	11.37		. ,		, ,	,	Secondary:			
	A1 - Surface	Water			B11 - Salt (Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aqua	tic Fauna				B8 - Sparsely '	Vegetated Concave Surface	
	A3 - Saturation	n			C1 - Hydro					B10 - Drainage		
	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Roots (til	lled)
	B2 - Sedimen						pheres on Living	Roots (not til		C8 - Crayfish E		
	B3 - Drift Dep				C4 - Prese						n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin M		ice			D2 - Geomorp		
	B5 - Iron Dep			Ц	Other (Expl	lain)				D5 - FAC-Neu		
	B9 - Water-St	on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
"	ba - Water-Si	laineu Leaves										
Field Observ	vations:											
Surface Water	er Present?	Yes \square	Dept	th:	(in.)			Motland	-ludrologu	Dragant?	N	
Water Table	Present?	Yes \square	Dept	th:	(in.)			vvetianu i	Hydrology	Present	N	
Saturation Pr	resent?	Yes \square	Dept		(in.)							
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Describe Reco		stream gauge, moni	itoring well, a	erial photos, pr	evious insp	ections),	if available:					
Describe Reco		stream gauge, moni or secondary hydr	itoring well, a	erial photos, pr	evious insp	ections),	if available:					
			itoring well, a	erial photos, pr	evious insp	ections),	if available:					
			itoring well, a	erial photos, pr	evious insp	ections),	if available:					
Remarks: SOILS	No primary		itoring well, a	erial photos, procators observe	evious insp	·		ndicators.)				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	Pition (Descrintration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S3 - 5 cm Mu	or secondary hydrologous better to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/2 Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ucky Mineral fucky Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	itoring well, acrological indiceseded to documentaria, CS=Coversity, CS=	ument the indired/Coated Sand Color (Color (Hue_7.5YF S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F8 - Redox D	evious inspect. Cator or cc Grains; Locat Moist) 6/8 5/6 hot present edox Matrix flucky Minera	monfirm the months of the mont	e absence of ir	Location M M C C C C C C C C C C C C C C C C C	Indicators In A9 - 1 cm M S IC SIC SIC SIC SIC SIC SIC SIC SIC SI	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S Sain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	sent,
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	ption (Descriptation, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y ic 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	or secondary hydrologous beto the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/2 Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRI leyed Matrix	itoring well, acrological indiceseded to documentaria, CS=Covers % 100 85	wment the indired/Coated Sand Color (Hue_10YR Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depletee F6 - Redox D F1 - High Pl	evious inspectors of control of c	monfirm the construction of the construction o	e absence of irrore Lining, M=Matrices Type C C C Hydric So	Location M M RH)	Indicators 1 A9 - 1 cm M A9 - 1 cm M S7 - Dark S F16 - High F F18 - Reduc TF12 - Very Other (Expla	duck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetat ed or problematic.	c. Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be pres	sent,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n42w30-a1
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: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (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
		0			FACW spp. 0 x 2 = 0
	10101 00101		_		FAC spp. 0 x 3 = 0
Sanling/Shruh	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.	Stratum (Flot size. 15 it. radius)				UPL spp. 80
2.					Δ1 Ε 3μμ
3.					Total 80 (A) 400 (B)
4.					Total 80 (A) 400 (B)
					Developed Index = D/A = 5000
5.					Prevalence Index = B/A = 5.000
6.					
7.					
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.	Zea mays	80	Y	NI	
2.					* 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.				_	
14.					
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	80			,
	Total Cover –	60	_		
\\\ \\\ \\ \\ \\ \\ \\ \\ \\ \\					
1.	ratum (Plot size: 30 ft. radius)				
2.					
				_	Hydronhytia Vagatation Branchta M
3.					Hydrophytic Vegetation Present? N
5.	l e			_	
4.	<u> </u>			_	
D !	Total Cover =	0			
Remarks:	Cultivated corn dominates the sample site.				
Additional F	Remarks:				
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