WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R											10/03/14
Applicant: Enbridge											Red Lake
Investigators: NTT/BEH				Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit: 159A NWI Classification										-	
Landform:	Depression				cal Relief:					Sample Point:	w-151n42w9-j1
Slope (%):	3 - 7%		Latitude: 47.91		Longitude:			Datum			
		nditions on the site			ar? (If no, exp			⊡Yes	D No	Section:	
Are Vegetati						e normal circumstances present?		esent?	Township:		
Are Vegetati		🖵 or Hydrology	Liturally pro	blematic?			Yes	□No		Range:	Dir:
SUMMARY (
Hydrophytic	-		Yes						Is Present?		
	drology Prese		Yes							t Within A W	
Remarks:		l is a fresh wet mea	adow that is l	ocated in a la	irge open	meadow	area. The wet	land vegeta	ition is dom	inated by woo	olly sedge and reed canary
	grass.										
HYDROLOG	Y										
Wetland Hy	drology Ind	cators (Check all	that apply; M	nimum of on	e primary	or two se	econdary requi	red):			
Primary	<u>.</u>							,	Secondary:		
A1 - Surface Water					B11 - Salt (B6 - Surface S	
A2 - High Water Table					B13 - Aqua						Vegetated Concave Surface
 A3 - Saturation B1 - Water Marks 				□ C1 - Hydrogen Sulfide Odor □ B10 - Drainage Patterns □ C2 - Dry Season Water Table □ C3 - Oxidized Rhizospheres							
	B2 - Sedimen				C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not til		C8 - Crayfish E	
	B3 - Drift Dep			C4 - Prese	nce of Re	duced Iron	,		C9 - Saturation	n Visible on Aerial Imagery	
	B4 - Algal Mat			C7 - Thin M		ace					
	B5 - Iron Depo	osits n Visible on Aerial Ima	0.000		Other (Exp	lain)				D5 - FAC-Neu	tral Test aved Hummocks (LRR F)
	B9 - Water-St		agery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B5 - Walci-Ol										
Field Obser	vatione										
	ter Present?	Vaa 🗖	Donth		(in)						
								Wetland H	lydrology	Present?	Y
Water Table		_									—
Saturation P	Saturation Present? Yes Depth: (in.)										
Describe Rec		tream gauge, monit	-								
Describe Rec Remarks:			-					n hydrophyt	tic vegetatio	n present and	d landscape position.
Remarks:			-					n hydrophyl	lic vegetatio	n present and	d landscape position.
Remarks: SOILS	No primary	wetland hydrology	indicators pre	esent. Wetlar	nd hydrolog	gy is ass	sumed based o		tic vegetatio	n present and	d landscape position.
Remarks: SOILS Profile Descri	No primary	wetland hydrology be to the depth nee	eded to docu	esent. Wetlar	nd hydrolog	gy is ass	sumed based of each of ir	ndicators.)	tic vegetatio	n present and	d landscape position.
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-24 NRCS Hydr RCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A1 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mur S3 - 5 cm Mur S4 - Sandy Gi Type:	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (cho suffide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface Jucky Peat or Peat (LRF cky Peat or Peat (LRF	eded to docum atrix, CS=Covere % 100 90 eck here if ind eck here if ind	Sent. Wetlar	d hydrolog cator or cc Grains; Locat Moist) 6/8 6/8 not present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depres	gy is ass onfirm th tion: PL=P Mottle % 10 10 t):	e absence of ir ore Lining, M=Matr es Type C C RA 72, 73 of LRF	Location M C C C C C C C C C C C C C C C C C C	Indicators 1 A9 - 1 cm M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	For Problematii Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio zed Vertic 'arent Material Shallow Dark S ain in Remarks) hydrophytic vegetal	Remarks

WETLAND DETERMINATION DATA FORM

Great Plains Region

Glassical solution (Point 100) Classical solution (Point 100) Inter Water 100 Inter Water 100 <th c<="" th=""><th>Project/Site:</th><th>L3R</th><th></th><th></th><th></th><th>Sample Point: w-151n42w9-j1</th></th>	<th>Project/Site:</th> <th>L3R</th> <th></th> <th></th> <th></th> <th>Sample Point: w-151n42w9-j1</th>	Project/Site:	L3R				Sample Point: w-151n42w9-j1
Sector Manual Pot etc:::::::::::::::::::::::::::::::::::	VECETATION						
Score Dama Score Dama Score Dama Dominance Test Worksheet 1.			e non-native s	species.)			
2.			% Cover	Dominant	Ind.Status	Dominance Test Worksheet	
3.							
4.						Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)	
5.						Total Number of Dominant Species Across All Strate: 3 (B)	
6.							
7.						Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
9.	7.					1	
10. Total Cover = 0 OBL spp. 4.1 4.5 Septing/Bruck Strutum (Plot size: 15 ft radius) FACW spp. 5.1 1.4 0 1 1 1.4 0 1.45 0 1.45 0 3.1 1 1.45 0 1.45 0 1.45 0 0 1.45 0 0 1.45 0 0 1.45 0 0 1.45 0 0 1.45 0 0 1.45 0 0 0 1.45 0 0 0 1.45 0						Prevalence Index Worksheet	
Total Cover 0 PACW spc. 50 x 2 = 100 3aplingStrub. Stratum (Pot size: 15 ft radue)							
Seping/Shub Shrutum (Plot size: 15 ft. radius) FAC spp. 0 X 3 = 0 1 FAC spp. 0 X 5 = 0 2 0 X 5 = 0 3 0 X 5 = 0 4. 0 X 5 = 0 5. 0 X 5 = 0 6. 0 X 5 = 0 7. 0 X 5 = 0 8. 0 0 X 5 = 9. 0 X 5 = 0 10. 0 X 7 0 10. 0 X 7 0 X 7 9. 0 X 7 0 X 7 10. 0 X 7 0 X 7 10. 0 X 7 0 X 7 10. 0 X 7 0 X 7 2. 10 0 X 7 0 3. 7 0 X 7 0 1 10. 0 0 1 1 0 1	10.	Tatal Cavar -	0				
SeptingShoub Stratum (Plot size: 15 ft. radius) FACU spp. a a 1			U	-			
1.	Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)					
3.							
4.]	
5.						Total <u>95</u> (A) <u>145</u> (B)	
6.		<u> </u>					
7.						$\frac{1.526}{2}$	
8.							
9.		<u></u>				Hydrophytic Vegetation Indicators:	
Total Cover = Herb Stratum (Plot size: 5 ft. radius)	9.						
Herb Stratum (Plot size: 5 ft radius) 45 Y OBI 1. Carex pelline auradinacea 30 Y FACW * Indicators of hydric soil and welland hydrology must be problematic. 3. Proeprine auradinacea 20 Y FACW * Indicators of hydric soil and welland hydrology must be problematic. 5.	10.					X Dominance Test is > 50%	
Herb Stratum (Plot size: 5 ft. radius)		Total Cover =	0	_			
1. Carex pullie 45 Y OBL 2. Phalaris annohacea 30 Y FACW * Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic. 4.							
2. Phalaris anndracea 30 Y FACW * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4.			45	Y	OBI	Problem Hydrophytic Vegetation (Explain) *	
3. Pea palustris 20 Y FACW present, unless disturbed or problematic. 4.						* Indicators of hydric soil and wetland hydrology must be	
5. 6 7. 8. 9. 10. 11. 12. 13. 14. 15. Total Cover =		Poa palustris					
6						Definitions of Vegetation Strata:	
7.							
8. 9. 10. 11. 12. 13. 14. 15. Total Cover =95 Woody Vines Stratum (Plot size: 30 ft. radius) 1. 2. 3. 5. 4. Total Cover = Year Hydrophytic Vegetation Present? Y Remarks: The wetland vegetation is dominated by woolly sedge, fowl bluegrass, and reed canary grass.						Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast	
9.							
10.						Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.	
12.							
13.	11.					1	
14.						Herb - All herbaceous (non-woody) plants, regardless of size.	
15. Woody Vines - All woody vines, regardless of height. Total Cover =95						_	
Total Cover =95 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 4. Total Cover =0 Hydrophytic Vegetation Present?Y Remarks: The wetland vegetation is dominated by woolly sedge, fowl bluegrass, and reed canary grass.						Woody Vines - All woody vines, regardless of height	
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 5. 4. Total Cover = 0 Remarks: The wetland vegetation is dominated by woolly sedge, fowl bluegrass, and reed canary grass.	10.	Total Cover =	95				
1.			00	-			
2.	Woody Vine Str	atum (Plot size: 30 ft. radius)					
3. Hydrophytic Vegetation Present? Y 5. Hydrophytic Vegetation Present? Y 4. Total Cover = 0 Remarks: The wetland vegetation is dominated by woolly sedge, fowl bluegrass, and reed canary grass.						_	
5.		l					
4. Total Cover = 0 Remarks: The wetland vegetation is dominated by woolly sedge, fowl bluegrass, and reed canary grass.		<u> </u>				Hydrophytic Vegetation Present? Y	
Total Cover = 0 Remarks: The wetland vegetation is dominated by woolly sedge, fowl bluegrass, and reed canary grass.		l				-	
Remarks: The wetland vegetation is dominated by woolly sedge, fowl bluegrass, and reed canary grass.	···	Total Cover =	0				
Additional Remarks:	Remarks:			owl blueg	rass, and	reed canary grass.	
Additional Remarks:							
Additional Remarks:							
	Additional R	emarks:					