WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/30/14	
Applicant:		Enbridge								County:	Kittson	
Investigators		BCS/BEH			Subregio		or LRR):	MLRA 56		State:	MN	
Soil Unit:	1248A			_			Classification					
Landform:	Talf				cal Relief:		-101000			Sample Point	u-160n50w14-a2	
Slope (%):	0 - 2%	nditiona on the sit.	Latitude: 48.			-97.084		Datum:				
	, ,	nditions on the site			dí? (If no, ex		e normal circun	⊡Yes	No No	Section:		
Are Vegetati Are Vegetati	on E Soli	or Hydrology or Hydrology or Hydrology				Ale	riormai circui ⊡ Yes		esent	Township:	Dir:	
SUMMARY (E 103			Range:	DII.	
Hydrophytic			No					Hydric Soi	Is Present?	No		
	brology Prese		No		-					t Within A W	etland? No	
Remarks:				led agricultura	I field whic	h has be	en planted to				um-maintenance dirt co	ounty
	road.			iou ugiiouituiu								, and y
HYDROLOG	Y											
		cators (Chook all	that apply:	Minimum of or	o primon/	or two or	oondony roqui	rod):				-
Primary		cators (Check all	i that apply,		ie primary	UI LWU SE	econically requi	ieu).	Secondary:			
	A1 - Surface \	Vater			B11 - Salt	Crust				B6 - Surface	Soil Cracks	
	A2 - High Wat				B13 - Aqua						Vegetated Concave Surfac	æ
	A3 - Saturatio B1 - Water Ma										e Patterns Rhizospheres on Living Ro	ote (tilled)
	B2 - Sedimen			H			pheres on Living	Roots (not til				lots (tilled)
	B3 - Drift Dep	osits			C4 - Prese	ence of Red	duced Iron			C9 - Saturatio	n Visible on Aerial Imagery	
	B4 - Algal Mat				C7 - Thin I		ice					
	B5 - Iron Depo B7 - Inundatio	n Visible on Aerial Im	naderv		Other (Exp	piain)				D5 - FAC-Neu D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - Water-St		lagery						-	Di - most-ne		
Field Obser	vations:											
Surface Wat	er Present?	Yes 🛛	Dep	th:	(in.)			Wotland H	lydrology	Procont?	N	
Water Table		Yes 🗹	Dep	th: 15	(in.)			Wetlanu	iyurology	riesent:	<u> </u>	
Saturation P	resent?	Yes 🛛	Dep	th: <u>13</u>	(in.)							
Describe Rec	orded Data (s	tream gauge, moni	itoring well, a	erial photos, pr	evious insp	pections),	if available:					
Describe Rec Remarks:		tream gauge, moni or secondary wetla				-	if available:					
Remarks:						-	if available:					
Remarks: SOILS	No primary	or secondary wetla	and hydrolog	gy indicators w	ere obser	ved.						
Remarks: SOILS Profile Descri	No primary	or secondary wetla	and hydrolog	y indicators w ument the ind	ere obser	ved.	e absence of ir					
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Remarks: SOILS Profile Descri	No primary	or secondary wetla	and hydrolog	y indicators w ument the ind	ere obser	ved.	e absence of ir pre Lining, M=Mate					
Remarks: SOILS Profile Descri	No primary iption (Descri ntration, D=Deple	be to the depth ne	and hydrolog	gy indicators w ument the ind red/Coated Sand	ere obser cator or co Grains; Loca	ved. onfirm the tion: PL=Pc	e absence of ir pre Lining, M=Mate		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri ntration, D=Deple	be to the depth ne etion, RM=Reduced Ma Matrix	and hydrolog	y indicators w ument the ind red/Coated Sand	ere obser cator or co Grains; Loca	ved. onfirm the tion: PL=Pc Mottle	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-15 15-20 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depleter Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mur S3 - 5 cm Mur S3 - 5 cm Mur S4 - Sandy G r Type: The soil is a	be to the depth ne tion, RM=Reduced Mi Matrix Color (Moist) 2.5/1 6/2 2/1 Indicators (ch ipedon tic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface Layers or Peat (LR cky Peat or Peat (LR eyed Matrix	eeded to doo latrix, CS=Cove 9 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	y indicators w ument the ind red/Coated Sand Color (0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	ere obser	ved. onfirm the tion: PL=Pc Mottle % 10 10 t): al x sce ssions (MLI ed clay w	e absence of ir ore Lining, M=Matrices Type C C RA 72, 73 of LRF Hydric So	ix)	C C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla ¹ Indicators of f unless disturbe	luck (LRR I, J) Prairie Redox (urface (LRR G Plains Depressi ed Vertic arent Material Shallow Dark 3 ain in Remarks ad or problematic.	<u>c Soils¹</u> LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Surface	

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w14-a2
VECETATIO					
VEGETATIO	N (Species identified in all uppercase ar (Plot size: 30 ft. radius)	e non-native s	species.)		
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
<u>4.</u> 5.					Total Number of Dominant Species Across All Strata: 1 (B)
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. 10 X 4 40 UPL spp. 70 X 5 350
2.	<u> </u>				οι ε spp. <u>//</u> × σ = <u>350</u>
3.					Total <u>80</u> (A) <u>390</u> (B)
4.					
5.					Prevalence Index = B/A = 4.875
6.			-		
7.					
8.					Hydrophytic Vegetation Indicators:
9. 10.					Rapid Test for Hydrophytic Vegetation
10.	Total Cover =	0			Dominance Test is > 50% Prevalence Index is ≤ 3.0 *
		0	-		Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	70	Y	NI	· · · · · · · · · · · · · · · · ·
2.	Amaranthus retroflexus	10	Ν	FACU	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.				-	Definitions of Vegetation Strata:
5.					Trac
6 7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast 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.					Weady Vince All woody vince recording of bright
15.	Tatal Origina	00			Woody Vines - All woody vines, regardless of height.
	Total Cover =	δU	-		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	,,				
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	Total Origina	0			
Remarks:	Total Cover = The upland sample area is dominated by cul		at		
Additional F	Remarks:				
L					