## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/01/14
Applicant:		Enbridge								County:	Kittson
Investigators		BEH/BCS			Subregio		or LRR):	MLRA 56		State:	MN
Soil Unit:	1134A			<u> </u>			Classification:				
Landform:	Shoulder		1 11 1 40 6		cal Relief:		404007	Deture		Sample Point:	u-160n49w31-b1
Slope (%):	<u>3 - 7%</u>	onditions on the site	Latitude: 48.6			-97.020		Datum: □Yes	⊡ No	Castian	
	, ,		21		II ? (If no, ex		e normal circun			Section:	
Are Vegetation Are Vegetation		I □, or Hydrology I □, or Hydrology		y disturbed?		Ale	e normai circun ⊡ Yes		esent	Township:	Dim
SUMMARY C				oblematic?			⊡ 1 <del>6</del> 3			Range:	Dir:
Hydrophytic V			Nie					Hudria Sai	Is Present?	No	
Wetland Hyd	•		<u>No</u> No							t Within A W	etland? No
Remarks:				e from a roads	ide ditch	on the tr					t and a mixture of upland
Remarks.		d forbs cover the s									
HYDROLOG	•				10001100	ingir ame					
		icators (Check all	that apply; N	linimum of on	e primary	or two se	econdary requi	red):	0		
Primary:	A1 - Surface	Water			B11 - Salt	Crust			Secondary:	B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio	n			C1 - Hydro	ogen Sulfid	e Odor			B10 - Drainage	Patterns
	B1 - Water M				C2 - Dry S			Desta (set til			Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidiz C4 - Prese		pheres on Living	Roots (not til		C8 - Crayfish E	o Visible on Aerial Imagery
	B4 - Algal Ma			_	C7 - Thin I					D2 - Geomorp	
	B5 - Iron Dep	osits			Other (Exp					D5 - FAC-Neu	tral Test
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	wed Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
<b>F</b> : 1   <b>A</b>											
Field Observ					<i>(</i> ; )						
Surface Wate			Dept	h:	(in.)			Wetland H	lydrology l	Present?	Ν
Water Table		Yes		h:	(in.)						<u> </u>
Saturation Pr	esent?	Yes 🛛	Dept	h:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
			-			pections),	if available:				
		stream gauge, moni or secondary hydr	-			pections),	if available:				
Remarks:			-			pections),	if available:				
Remarks: SOILS	No primary	or secondary hydr	ological indic	ators were ob	served.			adiactore )			
Remarks: SOILS Profile Descri	No primary	or secondary hydro	eeded to docu	ators were ob	served.	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary hydr	eeded to docu	ators were ob	served.	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary hydr ibe to the depth ne etion, RM=Reduced Ma	eeded to docu	ators were ob	served.	onfirm the	e absence of ir ore Lining, M=Matr				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-21 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	or secondary hydr ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral Mucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR) leyed Matrix	eded to doct atrix, CS=Cover % 100 95 ee fack here if in f f f f f f f f f f f f f f f f f f f	Action Street of the indiced/Coated Sand (Coated Sand (Co	served. cator or co grains; Loca Moist) 4/4 4/4 ot preser adox Matrix ucky Miner Matrix Matrix Matrix Matrix Surface Dark Surface Dark Surface Dark Surface	Mottle	e absence of ir ore Lining, M=Matr 25 Type C C 20 RA 72, 73 of LRF RA 72, 73 of LRF	ILocation	C C C J A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla 'Indicators of h unless disturbe	uck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ed Vertic arent Material Shallow Dark S ain in Remarks) wdrophytic vegetat ed or problematic.	: <u>Soils<sup>1</sup></u> RR F, G, H) MS (LRR H, outlisde MLRA 72, 73)

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-160n49w31-b1
VEOFELE					
VEGETATIO	N (Species identified in all uppercase an Plot size: 30 ft. radius)	re non-native	species.)		
	<u>Species Name</u>	% 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 \qquad x \ 1 =  0 \qquad \qquad $
	Total Cover =	0	_		FACW spp. 0 $x = 0$
					FAC spp. 5 $x 3 = 15$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 35 x 4 = 140
1. 2.					UPL spp. <u>45</u> X 5 = <u>225</u>
<u> </u>	1				Total 85 (A) 380 (B)
3. 4.	<u> </u>				Total <u>85</u> (A) <u>380</u> (B)
4. 5.	<u> </u>				Prevalence Index = B/A = <b>4.471</b>
5. 6.	<u> </u>				
7.	J				
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	Total Cover =	0			Prevalence Index is ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	45	Y	NI	
2.	Poa pratensis	10	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Phleum pratense	10	Ν	FACU	present, unless disturbed or problematic.
4.	Calystegia sepium	5	N	FAC	Definitions of Vegetation Strata:
5.	Polygonum achoreum	5	N	FACU	
6	Taraxacum officinale	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Amaranthus retroflexus	5	N	FACU	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.				-	Mandu Munne All woody vince recertless of brinkt
15.		07			Woody Vines - All woody vines, regardless of height.
	Total Cover =	85	_		
Woody Vine Of	ratum (Plat aiza: 20 ft radius)				
1.	ratum (Plot size: 30 ft. radius)				
2.				-	
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0		_	
Remarks:			nixture of	grasses a	nd forbs are also present at varying densities.
	· · · · · ·				
Additional R	temarks:				