## WETLAND DETERMINATION DATA FORM Great Plains Region

			·							Data	00/00/44
Project/Site:		L3R								Date:	09/26/14
Applicant:		Enbridge			<b>-</b> · · ·	<i>(</i>				County:	Pennington
Investigators		RAJ/BJC			_Subregior	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	169A					NWI	I Classification:				
Landform:	Depression			Lc	cal Relief:	CC				Sample Point	w-153n44w3-c1
Slope (%):	0 - 2%		Latitude: 48.1	065	Longitude:	-96.290	773	Datum:		1	
. ,		onditions on the sit							□ No	Section:	
Are Vegetatio		I ⊠, or Hydrology	* *		<u></u>	1	e normal circum			Township:	
Are Vegetation		I □, or Hydrology	•			/ 11 -	⊠ Yes		500m	Range:	Dir:
				Julemane:			E 150			Range.	
SUMMARY C											
Hydrophytic	-		Yes		_			Hydric Soil			
	drology Prese		Yes							t Within A W	
Remarks:		flooded basin domina e obviously disturbed									pipeline activities; the soils and ptland.
HYDROLOG	Y										
Wetland Hy	/drology Ind	icators (Check al	II that apply; №	1inimum of or	e primary	or two se	econdary requir	red):	0		
Primary:				_		0			Secondary:		
	A1 - Surface				B11 - Salt (					B6 - Surface S	
	A2 - High Wa A3 - Saturatio				B13 - Aqua						Vegetated Concave Surface
	B1 - Water Ma				C1 - Hydrog C2 - Dry Se					B10 - Drainage	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not tille		C8 - Crayfish I	
	B3 - Drift Dep	•			C3 - Oxidiz C4 - Presei					•	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M					D2 - Geomorp	<b>U</b> .
	B5 - Iron Dep				Other (Expl					D5 - FAC-Neu	
		on Visible on Aerial In	nagerv			ian iy					aved Hummocks (LRR F)
		tained Leaves							_		
Field Observ	vations:										
			Dent		(in )						
Surface Wat		Yes 🗆	Dept		_ (in.)			Wetland H	vdrology l	Present?	Υ
Water Table		Yes 🗆	Dept		_ (in.)				.)		
Saturation P	resent?	Yes 🗆	Dept	h:	_ (in.)						
	and al Data (										
Describe Rec	orded Data (S	stream daude, mon	nitoring well, ac	vrial photos, pr	evious insp	pections).	if available:				
Describe Reco Remarks:	The wetland		ression beside	e mounded so	oil over the	existing		southwest.	There is a	dried algal cr	ust in microdepressions
Remarks:	The wetland		ression beside	e mounded so	oil over the	existing		southwest.	There is a	dried algal cr	ust in microdepressions
Remarks: SOILS	The wetland throughout	d area is in a depr the wetland area.	ression beside Indicators of	e mounded so wetland hydr	oil over the ology are p	existing present.	pipeline to the		There is a	dried algal cr	ust in microdepressions
Remarks: SOILS Profile Descri	The wetland throughout throughout throughout the second se	d area is in a depr the wetland area. ibe to the depth ne	ression beside Indicators of eeded to docu	e mounded so wetland hydr ument the indi	il over the ology are p icator or co	existing present.	pipeline to the e absence of in	dicators.)	There is a	dried algal cr	ust in microdepressions
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetland throughout f iption (Descrintration, D=Depleter ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type: The soils ca	d area is in a deprithe wetland area.	ce	a mounded so wetland hydr ument the indi ed/Coated Sand Color ( Color ( Color ( Color ( Color ( S5 - Sandy R S6 - Stripped F1 - Loamy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F6 - Redox D F7 - Depleted F8 - Redox D F8 - Redox D F8 - Redox D F16 - High P	icator or co Grains; Locat Moist) Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surface d Dark Surface d Dark Surface d Dark Surface	existing present. onfirm the tion: PL=Po Mottle % t): al x ace ssions (ML	e absence of in ore Lining, M=Matrices Type	dicators.) ix) Location Location I I I I I I I I I I I I I	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla <sup>1</sup> Indicators of h unless disturbe	or Problematic uck (LRR I, J) Prairie Redox of urface (LRR G) Plains Depressio eed Vertic Parent Material Shallow Dark S ain in Remarks) bydrophytic vegeta ed or problematic.	Remarks

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w3-c1
		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>/8 COver</u>	Dominant	<u>1110.5tatus</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.	1				
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>100.0%</b> (A/B)
7.					
8.	J				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					$OBI spp \qquad 80 \qquad x \ 1 = \qquad 80$
101	 Total Cover =	0			FACW spp. 0 x 2 = 0
					$FAC spp. \qquad 0 \qquad x 3 = \qquad 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				OBL spp.80x1 =80FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.0x4 =0
<u>1.</u>					$UPL spp. \qquad 0 \qquad X \ 5 = 0$
2.					
3.					Total <mark>80</mark> (A) <b>80</b> (B)
4.					
5.					Prevalence Index = $B/A = 1.000$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	 Total Cover =	0			X Prevalence Index is $\leq 3.0$ *
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Alisma triviale	30	Y	OBL	
2.	Eleocharis acicularis	30	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Schoenoplectus tabernaemontani	15	N	OBL	present, unless disturbed or problematic.
4.	Persicaria amphibia	5	N	OBL	Definitions of Vegetation Strata:
5.					
6					<b>Tree -</b> 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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	80			
		00	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
<u>1.</u>					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:		-	ater plants	ain with a	carpet of needle spike-rush and scattered softstem bulrush. Hydrophytic
rtomanto.	vegetation is present.				
Additional F	Pomarke.				
Additional F					