## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge								Date: County:	10/01/14 Pennington	
Investigators		MRK/OTG		Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	I16F				NWI Classification:							
Landform:	Depression	Local Relief: LC 33 Longitude: -96.1305656667 Datum:					Sample Point:	w-152n43w14-a1				
Slope (%):	0 - 2% hydrologic co	nditions on the sit	Latitude: 47.		-			Datum: ☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology				1	e normal circun			Township:		
Are Vegetation		□, or Hydrology	•	•			⊠ Yes	□ No		Range:	Dir:	
SUMMARY C												
	Hydrophytic Vegetation Present?YesNetland Hydrology Present?Yes								Is Present?			
Remarks:		nt? mple point is locat	Yes ted in a Shru	h-Carr comm	unity			is this Sal	mpling Poin	nt Within A W	etland? Yes	
Remarks.	Welland Sal				unity.							
HYDROLOGY												
	Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):											
Primary	<u>.</u>	·							Secondary:			
						Crust atic Fauna				<ul> <li>B6 - Surface Soil Cracks</li> <li>B8 - Sparsely Vegetated Concave Surface</li> </ul>		
	A3 - Saturatio				C1 - Hydro					B10 - Drainage		
	B1 - Water Ma				C2 - Dry S						Rhizospheres on Living Roots (tilled)	
	B2 - Sediment B3 - Drift Dep	•					spheres on Living duced Iron	Roots (not till	• •	C8 - Crayfish E	o Visible on Aerial Imagery	
	B4 - Algal Mat	t or Crust			C7 - Thin M				$\checkmark$	D2 - Geomorp	hic Position	
	B5 - Iron Depo	osits n Visible on Aerial In	20000		Other (Exp	olain)				D5 - FAC-Neut		
	B9 - Water-St		nagery							D7 - FIOSI-Hea	aved Hummocks (LRR F)	
Field Observations:												
Surface Wat		Yes	Dep		_ (in.)			Wetland H	lydrology	Present?	Y	
Water Table Saturation P		Yes 🗆 Yes 🗆	Dep Der		_ (in.) (in.)						<u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Wetland is located in a depression and supports hydrophytic vegetation.												
Romarks <sup>.</sup>	Wotland is I	ocated in a denre	section and er	innorte hydror	bytic year	tation						
Remarks:	Wetland is I	ocated in a depre	ession and su	pports hydrop	ohytic vege	tation.						
SOILS												
SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to doc	ument the inc	icator or co	onfirm the	e absence of ir					
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SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to doc 1atrix, CS=Cove	ument the inc red/Coated Sand	icator or co	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr					
SOILS Profile Descri	iption (Descri ntration, D=Deple	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	ument the inc red/Coated Sand	icator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	iption (Descri ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc latrix, CS=Cove	ument the inc red/Coated Sand	icator or co Grains; Loca (Moist)	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri ntration, D=Deple	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	ument the inc red/Coated Sand	icator or co Grains; Loca (Moist)	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)			Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	iption (Descri ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc latrix, CS=Cove	ument the inc red/Coated Sand	icator or co Grains; Loca (Moist)	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	iption (Descri htration, D=Deple Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	eeded to doc latrix, CS=Cove	ument the inc red/Coated Sand Color 0 5 Hue_10YF	icator or co Grains; Loca (Moist) (4/6	onfirm the tion: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	iption (Descri ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	eeded to doc latrix, CS=Cove	ument the inc red/Coated Sand	icator or co Grains; Loca (Moist) (4/6	onfirm the tion: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type C	Location	SCL FSL	for Problematic		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	iption (Descri htration, D=Deple Hue_10YR Hue_2.5Y 	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to doc latrix, CS=Cove	ument the ind red/Coated Sand Color 0 5 Hue_10YF	icator or co Grains; Loca (Moist) (Moist) 2 4/6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onfirm the tion: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type C	Location M	SCL FSL Indicators f	luck (LRR I, J)	<u>c Soils<sup>1</sup></u>	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to doc latrix, CS=Cove	ument the ind red/Coated Sand Color 0 5 Hue_10YF 1 1 S5 - Sandy I 2 S5 - Sandy I 3 S6 - Strippe	icator or co Grains; Loca (Moist) (Moi	onfirm the tion: PL=Pe Mottle % 15 15	e absence of in ore Lining, M=Matr es Type C	Location M	SCL FSL Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	<u>Soils<sup>1</sup></u> (LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	iption (Descri htration, D=Deple Hue_10YR Hue_2.5Y 	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to doc latrix, CS=Cove	ument the ind red/Coated Sand Color 0 5 Hue_10YF	icator or co Grains; Loca (Moist) (Moi	onfirm the tion: PL=P Mottle % 15 15 t):	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SCL FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox ( urface (LRR G)	<u>Soils<sup>1</sup></u> (LRR F, G, H)	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface	eeded to doc latrix, CS=Cove	ument the ind red/Coated Sand Color 0 5 Hue_10YF 5 Hue_10YF 6 Hue_10YF 6 Hue_10YF 7 Hue_10YF 7 Hue_10YF 7 Hue_10YF 7 Hue_10YF 7 Sandy I 7 Sandy I	icator or co Grains; Loca (Moist) (Moi	Mottle Mottle % 15 15 ix ace	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SCL FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic	<mark>: Soils<sup>1</sup></mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-152n43w14-a1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 10 $x 1 = 10$
	 Total Cover =	0			FACW spp. 85 X 2 = 170
	-		FAC spp. $50$ x 3 = 150		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.	Salix discolor	40	Y	FACW	UPL spp. $0   x   5 = 0$
2.	Salix petiolaris	10	Y	OBL	
3.					Total 145 (A) 330 (B)
4.					
5.					Prevalence Index = B/A = 2.276
6.	-				
7.	-				
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	 Total Cover =	50			
		50	_		
					Morphological Adaptations (Explain) *
Herb Stratum (	(Plot size: 5 ft. radius)			<b>E</b> 40	X Problem Hydrophytic Vegetation (Explain) *
1.	Panicum virgatum	50	<u> </u>	FAC	
2.	Symphyotrichum lanceolatum	30	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Phalaris arundinacea	15	N	FACW	present, unless disturbed or problematic.
4.					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.					1
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	95			
			_		
Woody Vino St	tratum (Plot size: 30 ft. radius)				
					-
2.					
					Hudrophytic Verstetien Present?
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Tatal Oaura	0			
Darra	Total Cover =	0			
Remarks:	Wetland sample point is dominated by pussy	willow, me	eadow will	ow, wand	panic grass and white panicled aster.
				<u> </u>	
Additional F	Remarks:				