WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/11/14
Applicant:		Enbridge								County:	Pennington
Investigators		RAJ/BEH/MRK		Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit:	I24A						I Classification	:			
Landform:	Dip				cal Relief					Sample Point	w-154n45w25-b2
Slope (%):	0 - 2%		Latitude: 48.1		_	-96.370		Datum:		_	
Are climatic/l	hydrologic co	nditions on the site	e typical for t	nis time of ye	ar? (If no, ex	plain in rema	arks)	Yes	□ No	Section:	
Are Vegetation		□, or Hydrology	•	•		Are	e normal circur	mstances pro	esent?	Township:	
Are Vegetation		☑, or Hydrology	□aturally pr	oblematic?			Yes	□ No		Range:	Dir:
SUMMARY C	OF FINDINGS	5									
Hydrophytic \	Vegetation P	resent?	Yes		_			Hydric Soi	Is Present?	Yes	
Wetland Hydrology Present?							Is This Sampling Point Within A Wetland? Yes				etland? Yes
Remarks:	A Willow-Ca	arr dominated by a	a mix of willow	v spp. and mi	xed grami	noids in a	a central area	of a cultivate	ed field. A	portion of the	area appears to have been
	cultivated a	t one time, but not	for several y	ears. Accord	ling to the	landown	er, it is enrolled	d in the CRP	program.		
HYDROLOG	Υ										
Wetland Hy	drology Ind	icators (Check all	that apply; N	linimum of or	ne primary	or two s	econdary requi	ired):			
Primary		()	, , , , , ,		,		, , , , , , , , , , , , , , , , , , , ,	, ,	Secondary	<u>:</u>	
	A1 - Surface \	Water			B11 - Salt	Crust			B6 - Surface S	Soil Cracks	
	•				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainag	
	B1 - Water Mar B2 - Sedimen				C2 - Dry S		spheres on Living	Roots (not till	- ¢ □	C8 - Crayfish	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•					duced Iron	110013 (1101 1111			n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin I				✓	D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)			✓	D5 - FAC-Neu	
		n Visible on Aerial Im	nagery							D7 - Frost-He	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
5 : 110:	4.										
Field Observ					41						
Surface Water		Yes □	Dept		_ (in.)			Wetland F	Hydrology	Present?	Υ
Water Table		Yes	Dept		_ (in.)			1101101101	.,		<u> </u>
Saturation P	resent?	Yes	Dept	h:	_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream gauge, moni	itoring well, a	erial photos, pr	evious insp	pections),	if available:				
	<u> </u>				evious insp	pections),	if available:				
Describe Reco	<u> </u>	stream gauge, moni f wetland hydrolog			evious insp	oections),	if available:				
	<u> </u>				evious insp	oections),	if available:				
Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog be to the depth ne	gy are presen	t. Iment the ind	icator or co	onfirm th	e absence of ir				
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Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma	gy are presen	t. Iment the ind	icator or co	onfirm th	e absence of ir ore Lining, M=Mat				
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators o	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma	eeded to docu	t. ument the indiged/Coated Sand	icator or co Grains; Loca	onfirm thation: PL=P	e absence of ir ore Lining, M=Mat	rix)			
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators o	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Cover	t. ument the indicated Sand Color (icator or co Grains; Loca	onfirm th	e absence of ir ore Lining, M=Mat		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	eeded to docu atrix, CS=Cover	t. Iment the indiged/Coated Sand Color (icator or co Grains; Loca (Moist)	onfirm thation: PL=P	e absence of ir ore Lining, M=Mat	rix)	SCL		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-12 12-14 14-20 NRCS Hydr	Hue_10YR Hue_5Y Hue_2.5Y Hue_10YR Hue_10YR Hue_5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 7/2 6/2 5/8 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	eeded to docu atrix, CS=Cover	Color () Hue_10YR Hue_2.5Y dicators are in the self of the self	icator or congrains; Local (Moist) 6 6/6 6/2 not preser Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface d Dark Surface d Dark Surface lains Depres	onfirm the ation: PL=P Mottle % 4 10 at):	e absence of ir ore Lining, M=Mates es Type C C C	Location	SCL SIC LFS FS Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	a calcic horizon/ for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi ced Vertic Parent Material v Shallow Dark S ain in Remarks)	caliche hardpan c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-12 12-14 14-20 NRCS Hydr	iption (Descrintration, D=Deplintration,	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/2 6/2 5/8 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) leyed Matrix 0 inches of black sar	eeded to docu atrix, CS=Cover % 100 100 90 neck here if ir	Color (CO) Hue_10YR Hue_2.5Y Hue_2.5Y Adicators are in the serious of the serio	icator or congrains; Local (Moist) R 6/6 6/2 not present discovery Mucky Miner Gleyed Matrix Dark Surfaced Dark	Mottle % A 10 Ation: PL=P Mottle % A 10 At 10	e absence of ir ore Lining, M=Mates es Type C C C Hydric Solution and. The calcic hyminance of bright	Location M M M Poil Present? Incrizon is of first orange in the	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	a calcic horizon/ for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks) hydrophytic vegetated or problematic. an the other layer ayer. Though n	caliche hardpan c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present, ers and likely is an aquitard, o specific hydric soil indicators are

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-154n45w25-b2				
VEGETATIO	` ` `	e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	% Cover	<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: 100.0% (A/B)				
7.					(742)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. $\frac{48}{100}$ X 1 = $\frac{48}{100}$				
	Total Cover =	0	OBL spp. 48						
			FAC spp. $\underline{\qquad}$ $X 3 = \underline{\qquad}$						
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\qquad \qquad $				
1.	Salix petiolaris	30	Υ	OBL	UPL spp. $\underline{\qquad}$ $x = \underline{\qquad}$ $\underline{\qquad}$				
2.	Salix interior	30	Υ	FACW					
3.	Salix discolor	15	N	FACW	Total 164 (A) 283 (B)				
4.	Salix bebbiana	10	N	FACW					
5.					Prevalence Index = B/A = 1.726				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.									
10.		85							
Total Cover =			_		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
_	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Agrostis gigantea	25	Υ	FACW					
2.	Phalaris arundinacea	20	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Carex pellita	10	N	OBL	present, unless disturbed or problematic.				
4.	Poa palustris	5	N	FACW	Definitions of Vegetation Strata:				
5.	Juncus dudleyi	5	N	FACW					
6	Salix petiolaris	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Lycopus americanus	3	N	OBL	height (DBH), regardless of height.				
8.	Symphyotrichum lanceolatum	3	N	FACW					
9.		1	N	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
	Packera pseudaurea	1			Sapinig/Sin ub - 17 cost, plante lees than 5 km 22 kg resets of height				
10.	Sonchus arvensis	1	N	FAC					
11.	Ambrosia artemisiifolia	1	N	FACU	All book account from wearth a book are accounted as a finite				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	79							
			_						
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.	(1.12.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.								
2.									
3.					Hydronhytic Vagetation Present?				
					Hydrophytic Vegetation Present?Y				
5.									
4.	T : 10								
	Total Cover =								
Remarks: A Shrub-Carr community dominated by willow spp. and a mix of graminoids. Hydrophytic vegetation is present.									
Additional Remarks:									