WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/30/14	
Applicant:	Enbridge									County:	Pennington	
Investigators:					Subregion (MLRA or LRR): MLRA 56					State:	MN	
Soil Unit:	I59A						I Classification:			1		
Landform:	Depression				cal Relief:					Sample Point	w-152n43w10-f1	
Slope (%):	0 - 2%		Latitude: 47.9				1865000	Datum:				
	·	nditions on the sit			ar? (If no, exp				□ No	Section:		
Are Vegetation		☑, or Hydrology	•	•		Are	e normal circun	nstances pr	esent?	Township:		
Are Vegetation		☑, or Hydrology	□aturally p	oblematic?			Yes	□ No		Range:	Dir:	
SUMMARY O												
Hydrophytic \			Yes		_				Is Present?			
Wetland Hyd			Yes							nt Within A W		
Remarks:	Wetland is a	a fallow field that h	nas been rec	ently tilled, mo	ost likely be	eing prep	pared to farm n	ext year. Re	emnants of	cattails and r	ush species are scatte	red about.
HYDROLOG\	Y											
Wetland Hv	droloav Indi	cators (Check all	l that apply: N	/linimum of or	ne primary	or two se	econdary requi	red):				
Primary:		(0			· · · · · · · · · · · · · · · · · · ·		, , , , , , , , , , , , , , , , , , ,		Secondary:			
☐ A1 - Surface Water					B11 - Salt	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wat				B13 - Aqua						Vegetated Concave Surface	ce
	A3 - Saturation				C1 - Hydro					B10 - Drainage		t - (t:lll)
	B1 - Water Ma B2 - Sediment				C2 - Dry So		iter Table spheres on Living	Roots (not till	 	C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Ro	ots (tillea)
	B3 - Drift Dep	•			C4 - Prese			Noots (not till		•	n Visible on Aerial Imagery	/
	B4 - Algal Mat				C7 - Thin N				✓	D2 - Geomorp		
	B5 - Iron Depo				Other (Exp	lain)				D5 - FAC-Neu		
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observe												
Field Observ			_		(! \							
Surface Water		Yes	Dep		_ (in.)			Wetland F	Hydrology	Present?	Υ	
Water Table		Yes	Dep		- (in.)				, ,,		_	
Saturation Pr	'esent'?	Yes □	I Jan	'h'								
		163	Dep		(in.)							
Describe Reco		tream gauge, mon	<u> </u>			ections),	if available:					
Describe Reco	orded Data (s		itoring well, a	erial photos, pr		ections),	if available:					
Remarks:	orded Data (s	tream gauge, mon	itoring well, a	erial photos, pr		ections),	if available:					
Remarks:	orded Data (s Wetland sar	tream gauge, mon	itoring well, a	erial photos, pr depression.	evious insp	·						
Remarks: SOILS Profile Descri	orded Data (s Wetland sar ption (Descri	tream gauge, moning point is located to the depth ne	itoring well, acted in a slight	erial photos, prodepression. ument the indi	evious insp	onfirm the	e absence of ir					
Remarks: SOILS Profile Descri	orded Data (s Wetland sar ption (Descri	tream gauge, mon	itoring well, acted in a slight	erial photos, prodepression. ument the indi	evious insp	onfirm the	e absence of ir					
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-10 10-17 17-20 NRCS Hydri	ption (Descriptration, D=Depleter) Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Epi	mple point is located to the depth new etion, RM=Reduced Matrix Color (Moist) 2/1 5/4 5/2 Indicators (chapedon)	itoring well, acted in a slight seeded to docted atrix, CS=Cover 10 80 80 80 80 80 80 80 80 80 80 80 80 80	crial photos, prodepression. Iment the indicators are in the indicators are included and included and indicators are included and	cator or co Grains; Loca Moist) 4/6 5/6	Mottle % 5 20	e absence of inore Lining, M=Matrees Type C	Location M M	SCL COS C Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	c Soils ¹	
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-10 10-17 17-20 NRCS Hydri	ption (Descriptration, D=Depleter A1 - Histosol A2 - Histic Epi A3 - Black Histosol A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Discords	mple point is located to the depth new etion, RM=Reduced Matrix Color (Moist) 2/1 5/4 5/2 Indicators (characters) pedon tice of Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface	itoring well, acted in a slight seeded to document to	Color (Hue_7.5YF Hue_10YR S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox F F7 - Depleted F8 - Redox F	Moist) Redox I Matrix Mucky Mineral Gleyed Matrix Dark Surface Depressions	Mottle Mottle 20 t):	e absence of inore Lining, M=Matrees Type C C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-152n43w10-f1
					•
VEGETATION	(Species identified in all uppercase a	re 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:3(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 25
	Total Cover =	0			FACW spp. 50 \times $2 = 100$
					FAC spp. $0 X 3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.	Salix interior	35	Υ	FACW	UPL spp. $0 x 5 = 0$
2.					
3.					Total(A)(B)
4.					
5.					Prevalence Index = B/A =
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	35			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	20	Υ	OBL	
2.	Phalaris arundinacea	15	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Eleocharis palustris	5	N	OBL	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - 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.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	40			
	rotal cover =	- 40			
Woody Vino Str	ratum (Plot size: 30 ft. radius)				
1	atulii (Flot size. 30 it. radius)				
2.					
3.					Hydrophytic Vocatation Brocant?
					Hydrophytic Vegetation Present?Y
5. 4.				_	
4.	Total Cover =	· 0			
Domarka			porrow loc	of cottoil o	and road concry grace
Remarks:	Wetland sample point is dominated by sand	bar willow,	narrow-lea	di Callali a	nd reed canaly grass.
Additional R	emarks:				