WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/26/14
Applicant:		Enbridge								County:	Pennington
Investigators	S:	MRK/OTG			_Subregio	n (MLRA d	•	MLRA 56		State:	MN
Soil Unit:	150A						Classification	·			
Landform:	Dip				ocal Relief:					Sample Point:	w-153n43w33-c1
Slope (%):	0 - 2%		atitude: 48.0			-96.1836		Datum:			
		onditions on the site t			ar? (If no, exp	1		Yes	□ No	Section:	
Are Vegetation			•	tly disturbed?		Are	normal circun	-	esent?	Township:	
Are Vegetation			⊐aturally p	roblematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic '	•		Yes		_				Is Present?		11 12 W
Wetland Hyd			Yes							t Within A W	
Remarks:	The wetlan	d sample point is loc	cated in a s	easonally-floo	oded basin	in the mid	ddle of a cultiv	ated wheat	field. The s	ite is within a	n existing pipeline corridor.
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all th	hat apply; I	Minimum of o	ne primary	or two sec	condary requi	red):			
<u>Primary</u>									Secondary:		
	A1 - Surface				B11 - Salt				V	B6 - Surface S	
	A2 - High Wa A3 - Saturation				B13 - Aqua		Odor				Vegetated Concave Surface
	B1 - Water M					ogen Sulfide eason Wate				B10 - Drainage	e Fatterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimer						pheres on Living	Roots (not till	• -	C8 - Crayfish B	
	B3 - Drift Dep	•		_		ence of Redu		(1100			n Visible on Aerial Imagery
	B4 - Algal Ma					Muck Surfac	ce		✓	D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)			☑	D5 - FAC-Neu	
		on Visible on Aerial Imag tained Leaves	gery							D7 - Frost-Hea	aved Hummocks (LRR F)
	by - water-s	taineu Leaves									
Field Obser	vations:										
		V =	D	41	(in)						
Surface Wat		Yes		th:	_ (in.)			Wetland F	lydrology l	Present?	Υ
Water Table Saturation P		Yes □ Yes □	•	th:	_ (in.) _ (in.)						
I Saturation P	resent?	Yes 🗆	Dep	in:	(111.)						
			·		_ ` ´						
	orded Data (stream gauge, monito	·		_ ` ´	pections), if	f available:				
			oring well, a	erial photos, p	_ ` ´	pections), if	f available:				
Describe Rec Remarks:		stream gauge, monito	oring well, a	erial photos, p	_ ` ´	pections), if	f available:				
Describe Rec Remarks:	The wetland	stream gauge, monito d is located in a dip v	oring well, a	erial photos, p e soil cracks.	revious insp						
Describe Rec Remarks: SOILS Profile Descri	The wetland	stream gauge, monito d is located in a dip v ibe to the depth need	oring well, a with surface	erial photos, pe soil cracks.	revious insp	onfirm the	absence of ir				
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Describe Rec Remarks: SOILS Profile Descri	The wetland	stream gauge, monito d is located in a dip v ibe to the depth need letion, RM=Reduced Matri	oring well, a with surface	erial photos, pe soil cracks.	revious insp	onfirm the	absence of ir re Lining, M=Mati				
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	stream gauge, monito d is located in a dip value ibe to the depth need letion, RM=Reduced Matrix	oring well, a with surfact ded to doc rix, CS=Cove	erial photos, pe soil cracks. ument the incred/Coated Sand	revious insp icator or co Grains; Loca	onfirm the tion: PL=Por Mottles	absence of ir re Lining, M=Mati s	ix)	Toyturo		Pomarks
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, Depontration, Depontration, Depontration) ric Soil Field A1- Histosol A2 - Histic Ep	stream gauge, monito d is located in a dip v ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checon points)	ded to doc	erial photos, p e soil cracks. ument the incred/Coated Sand Color ndicators are S5 - Sandy S6 - Strippe	revious inspections in the content of the content o	onfirm the tion: PL=Por	absence of ir re Lining, M=Mati s Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	iption (Description, D=Deportration, D=Deportration) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi	stream gauge, monito d is located in a dip v ibe to the depth need letion, RM=Reduced Matrix Color (Moist) Indicators (check pipedon stic	ded to doc	erial photos, p e soil cracks. ument the incred/Coated Sand Color Color ndicators are S5 - Sandy S6 - Strippe F1 - Loamy	icator or congrains; Loca (Moist) not present Redox d Matrix Mucky Miner	onfirm the tion: PL=Por	absence of ir re Lining, M=Mati s Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	iption (Description, D=Deportration, D=Deportration) A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	stream gauge, monito d is located in a dip v ibe to the depth need letion, RM=Reduced Matrix Color (Moist) Indicators (check Dipedon Stic In Sulfide H Layers (LRR F)	ded to doc rix, CS=Cove	erial photos, p e soil cracks. ument the incred/Coated Sand Color Color S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete	icator or congrains; Loca (Moist) not present definition of Matrix Mucky Miner Gleyed Matrix definition of Matrix	Mottles // Mottles // All All All All All All All All All A	absence of ir re Lining, M=Mati s Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic	c Soils ¹ (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n43w33-c1
					•
VEGETATIO		are 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:(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: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 5
	Total Cover	= 0	FACW spp 0		
			Total % Cover of: Multiply by: OBL spp. 5 x 1 = 5 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0 UPL spp. 0 x 5 = 0		
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp 0
1.					UPL spp. $\underline{\qquad}$ \times 5 = $\underline{\qquad}$ $\underline{\qquad}$
2.		<u> </u>			
3.					Total5 (A)5 (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 ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	5	Υ	OBL	
2.					* Indicators of hydric soil and wetland hydrology must be
3.					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.					Tierb
14.					-
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cavan				Woody Villes - All Woody Villes, Togardiess of Height.
	Total Cover	= 5			
11/ 1 1/ 0:					
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.]			_	Hardward of Warratett B. 10 V
3.					Hydrophytic Vegetation Present?Y
5.					
4.	T				
	Total Cover		0 - 2		
Remarks:	The wetland sample point is dominated by	narrowleaf of	cattail.		
Additional R	lemarks:				
Ī					