WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	06/28/14	
Applicant:		Enbridge			.					County: State:	Kittson	
Investigators	<u> </u>					Subregion (MLRA or LRR): MLRA 56					MN	
Soil Unit:	1132A						I Classification:					
Landform:	Depression				cal Relief:					Sample Point	: <u>w-159n49w25-d1</u>	
Slope (%):	0 - 2%		atitude: 48.5		Longitude:			Datum:				
-	<u>, ,</u>	nditions on the site			ar? (If no, exp				☑ No	Section:		
Are Vegetati		G or Hydrology				Are	e normal circun	•	esent?	Township:		
		🖵 or Hydrology	Liturally pro	oblematic?			Yes	□No		Range:	Dir:	
SUMMARY OF FINDINGS												
	Vegetation P		Yes					Hydric Soil				
	drology Prese	Yes					Is This Sampling Point Within A Wetland? Yes					
Remarks: The wetland is a shallow marsh located within a roadside ditch. The vegetation is dominated by northern water plantain, prairie cordgrass, and reed canary grass. An unplanted, weedy field lies adjacent to the ditch to the east.												
	•	nplanted, weedy fiel	Id lies adjace	ent to the ditc	h to the ea	ast.						
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all t	hat apply; M	inimum of on	e primary	or two se	econdary requi	red):				
Primary	<u>r:</u>	·							Secondary:			
	A1 - Surface			B11 - Salt					B6 - Surface Soil Cracks			
 ✓	 A2 - High Water Table A3 - Saturation 				B13 - Aqua						Vegetated Concave Surface	
	B1 - Water M			□ C1 - Hydrogen Sulfide Odor □ B10 - Draina □ C2 - Dry Season Water Table □ C3 - Oxidize							Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen				C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not tille		C8 - Crayfish	Burrows	
	B3 - Drift Dep						duced Iron				n Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu		
		on Visible on Aerial Ima	aerv		Other (Exp	nann)					aved Hummocks (LRR F)	
	B9 - Water-Si		gery						-			
_												
Field Obser	vations:											
Surface Wat	ter Present?	Yes 🗹	Depth	n: 7	(in.)							
Water Table		Yes 🔲		1:	(in.)			Wetland H	ydrology I	Present?	Y	
Saturation P	resent?	Yes 🗹	Depth		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Domarka:	Docont rain		-			-		inco soile or	uld not bo	compled in t	he readelide ditch. The ditch may	
Remarks:		s have influenced th	ne surface w	ater level. Th	e water ta	ble dept	h is unknown s					
Remarks:	support min	s have influenced th	ne surface w	ater level. Th	e water ta	ble dept	h is unknown s				he roadside ditch. The ditch may survey, despite the unusually wet	
		s have influenced th	ne surface w	ater level. Th	e water ta	ble dept	h is unknown s					
SOILS	support min month.	s have influenced th or flow following ex	ne surface w treme rainst	vater level. Th orms, but the	e water ta re is no de	ble dept efined be	h is unknown s ed and bank. W	ater was no				
SOILS Profile Descr	support min month. iption (Descri	s have influenced th	treme rainst	vater level. Th orms, but the ment the indi	e water ta re is no de cator or co	able dept efined be	h is unknown s ed and bank. W e absence of ir	ater was no				
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SOILS Profile Descr (Type: C=Conce Depth (In.)	support min month. iption (Descri- ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	s have influenced the or flow following extension of the depth needetion, RM=Reduced Materian Matrix Color (Moist) Indicators (che spedon stic	e surface w treme rainst eded to docu rix, CS=Covere %	dicators are r S5 - Sandy R S6 - Stripped	e water is no de cator or cc Grains; Loca Moist) Not presen edox Matrix lucky Miner	able dept efined be ponfirm th tion: PL=P Mottle %	h is unknown s ed and bank. W e absence of ir ore Lining, M=Matr es Type	later was no	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St	or Problematii uck (LRR I, J) ?rairie Redox (I urface (LRR G)	Remarks	
SOILS Profile Descr (Type: C=Conce Depth (In.)	support min month. iption (Descri- ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei	s have influenced the or flow following experimental or flow f	e surface w treme rainst ded to docu rix, CS=Covere %	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	e water is no de cator or cc Grains; Loca Moist) Not presen edox Matrix lucky Miner. leyed Matri	able dept efined be ponfirm th tion: PL=P Mottle %	h is unknown s ed and bank. W e absence of ir ore Lining, M=Matr es Type	ldicators.) ix)	Texture Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F	or Problematii uck (LRR I, J) Prairie Redox (L Plains Depressi	Remarks	
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SOILS Profile Descr (Type: C=Conce Depth (In.)	support min month. iption (Descri- ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	s have influenced the or flow following examples to the depth needetion, RM=Reduced Materian Matrix Color (Moist) Indicators (che lipedon stic n Sulfide Layers (LRR FGH) d Below Dark Surface ark Surface ark Surface ark Surface ark Surface description of the start	e surface w treme rainst ded to docu rix, CS=Covere %	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	e water is no de cator or cc Grains; Loca Moist) Moist) ot presen edox Matrix Lucky Miner, leyed Matri Matrix Matrix ark Surface Dark Surface	ble dept efined be onfirm th tion: PL=P Mottle % t):	h is unknown s ed and bank. W e absence of ir ore Lining, M=Matr es Type	Idicators.) ix) Location	Indicators of A9 - 1 cm M A16 - Cost F S7 - Dark St F18 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemati uck (LRR I, J) Prairie Redox (L riface (LRR G) Plains Depressi riace Vertic arent Material	Remarks <u>c Soils1</u> 	
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SOILS Profile Descr (Type: C=Conce Depth (In.)	support min month. iption (Descri- ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	s have influenced the or flow following examples to the depth need	re surface w treme rainst eded to docu rix, CS=Covere % % % * * * * * * * * * * * * * *	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	e water is no de cator or cc Grains; Loca Moist) Moist) ot presen edox Matrix Lucky Miner, leyed Matri Matrix Matrix ark Surface Dark Surface	ble dept efined be onfirm th tion: PL=P Mottle % t):	h is unknown s ed and bank. W e absence of ir ore Lining, M=Matr es Type	Idicators.) ix) Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P F12 - Very Other (Expla	or Problematii uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S in in Remarks)	Remarks c Soils ¹ LRR F, G, H) ONS (LRR H, outlisde MLRA 72, 73) Surface	
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SOILS Profile Descr (Type: C=Conce Depth (In.)	support min month. iption (Descri- ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroged A5 - Stratific A4 - Hydroged A9 - 1 cr mfu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	s have influenced the or flow following examples to the depth need to flow following examples to the depth need to the d	re surface w treme rainst eded to docu rix, CS=Covere % % % * * * * * * * * * * * * * *	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	e water is no de cator or cc Grains; Loca Moist) Moist) ot presen edox Matrix Lucky Miner, leyed Matri Matrix Matrix ark Surface Dark Surface	ble dept efined be onfirm th tion: PL=P Mottle % t):	h is unknown s ed and bank. W e absence of ir ore Lining, M=Matr es Type	ldicators.) ix) Location	Indicators of h ST - Dark Si F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematii uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ed Vertic arrent Material Shallow Dark S in in Remarks)	Remarks c Soils ¹ LRR F, G, H) ONS (LRR H, outlisde MLRA 72, 73) Surface	
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SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr NRCS Hydr C C C C C C C C C C C C C C C C C C C	support min month. iption (Descri- ntration, D=Depl fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hige A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy G	s have influenced the or flow following examples in the depth need to the depth need	R G, H) F)	dicators are r S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	e water ta re is no de Cator or cc Grains; Loca (Voist) (Voist	al cees	h is unknown s ed and bank. W e absence of ir es Type Type RA 72, 73 of LRF	Idicators.) ix) Location	Indicators of A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	or Problematii uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegeta dor problematic.	Remarks c Soils ¹ LRR F, G, H) ONS (LRR H, outlisde MLRA 72, 73) Surface	

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-159n49w25-d1					
VEGETATIO	N (Species identified in all uppercase ar Plot size: 30 ft. radius)	e non-native	species.)							
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: <u>3</u> (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)					
7.					Dravalance Index Werkshoet					
8. 9.	<u> </u>				Prevalence Index Worksheet					
9. 10.					Total % Cover of: Multiply by: OBL spp. 15 X 1 = 15					
10.	Total Cover =	0			OBL spp. 15 X 1 = 15 FACW spp. 55 X 2 = 110					
			_		FAC spp. 1 x 3 = 3					
Sapling/Shrub Stratum (Plot size: 15 ft. radius)					FACU spp. 16 x 4 = 64					
1.	(UPL spp. 0 \times 5 = 0					
2.										
3.					Total 87 (A) 192 (B)					
4.										
5.					Prevalence Index = B/A = 2.207					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.	Tatal Oaven	0			X Dominance Test is > 50%					
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *					
Harb Stratum (Diataiza: Eft. radius)				Morphological Adaptations (Explain) *					
	Plot size: 5 ft. radius) Spartina pectinata	20	Y	FACW	Problem Hydrophytic Vegetation (Explain) *					
2.	Phalaris arundinacea	20	Y	FACW	* Indicators of hydric soil and wetland hydrology must be					
3.	Elymus repens	15	Y	FACU	present, unless disturbed or problematic.					
4.	Symphyotrichum lanceolatum	10	N	FACW	Definitions of Vegetation Strata:					
5.	Alisma triviale	10	Ν	OBL						
6	Mentha arvensis	5	Ν	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Beckmannia syzigachne	5	Ν	OBL	height (DBH), regardless of height.					
8.	Cirsium arvense	1	Ν	FACU						
9.	Apocynum cannabinum	1	Ν	FAC	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.					Woody Vines - All woody vines, regardless of height.					
15.	Total Cover =	07			TOOUY TIES - A Roody Theo, regulated of height.					
	Total Cover -	01								
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.										
4.										
	Total Cover =			-						
Remarks: The sample site is dominated by prairie cordgrass and reed canary grass, with a mix of wetland herbs present.										
Additional Remarks:										