WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/23/14
Applicant:		Enbridge								County:	Pennington
Investigators	51	BJC/RĂJ			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I48A				NWI Classification:						
Landform:	Side slope			– Lo	Local Relief: CL						u-154n44w33-w1
Slope (%):	16 - 25%		Latitude: 48.12	22329	Longitude:	-96.317	293	Datum:]	
Are climatic/h	hydrologic co	nditions on the sit	e typical for th	is time of ye	ar? (If no, exp	olain in rema	arks)	☑ Yes	□ No	Section:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	□significantly	v disturbed?		Are	e normal circum	istances pre	esent?	Township:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	□aturally pro	blematic?			Ves	🗆 No		Range:	Dir:
SUMMARY C	of Findings	5									
Hydrophytic	Vegetation P	resent?	No		_			Hydric Soil	ls Present?	No	
Wetland Hyd	Irology Prese	nt?	No					Is This Sar	mpling Poin	nt Within A W	etland? No
Remarks:	The upland	sample point is lo	cated in a field	d buffer betw	een a soyt	bean field	d and a shallow	marsh. The	e shallow m	harsh is locat	ed along County Highway 1.
HYDROLOG	Y										
Wetland Hv	droloav Ind	cators (Check al	l that apply: M	inimum of or	ne primarv	or two se	econdarv requi	ed):			
Primary:	•••								Secondary:		
						Crust		B6 - Surface S			
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio B1 - Water Mater Mater Mater Mater Materia				C1 - Hydro C2 - Dry So					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)
	B1 - Water Ma B2 - Sedimen						spheres on Living	Roots (not till	€ □	C8 - Crayfish I	
	B3 - Drift Dep	•			C4 - Prese					•	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu	
	B7 - Inundatio B9 - Water-St	n Visible on Aerial In	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	D9 - Waler-Si	alleu Leaves									
Field Observ	vations										
		Vee U	Donth		(in)						
Surface Wate		Yes □ Yes □	Depth		_ (in.)			Wetland H	lydrology	Present?	Ν
Water Table Saturation Pr		Yes 🗆 Yes 🗆	Depth Depth		_ (in.) (in.)						—
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No indicators of wetland hydrology were observed.											
SOILS	intion (Decori	ha ta tha danth na	adad ta daaw	mont the ind	actor or or	opfirme the	a abaanaa of in	diaatara)			
Profile Descri		be to the depth ne									
Profile Descri		be to the depth ne etion, RM=Reduced M									
Profile Descri		etion, RM=Reduced M				tion: PL=P	ore Lining, M=Matr				
Profile Descri (Type: C=Concer		etion, RM=Reduced M Matrix	atrix, CS=Covere	d/Coated Sand	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr es	(x)	Texture		Remarks
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced M Matrix Color (Moist)	atrix, CS=Covere		Grains; Loca	tion: PL=P	ore Lining, M=Matr		Texture		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-10	Hue_10YR	Matrix Color (Moist) 2/1	atrix, CS=Covere % 100	d/Coated Sand	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr es	(x)	Texture LS		
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced M Matrix Color (Moist)	atrix, CS=Covere	d/Coated Sand	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr es	(x)	_	Lots of pebbles p	
Profile Descri (Type: C=Concer Depth (In.) 0-10	Hue_10YR	Matrix Color (Moist) 2/1	atrix, CS=Covere % 100	d/Coated Sand	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr es	(x)	_	Lots of pebbles p	
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Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	Hue_10YR Hue_10YR	Matrix Matrix Color (Moist) 2/1 5/4	atrix, CS=Covere % 100 100	d/Coated Sand	Grains; Locat	tion: PL=P	ore Lining, M=Matr es Type	(x)	_	Lots of pebbles p	
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	Hue_10YR	Matrix Matrix Color (Moist) 2/1 5/4	atrix, CS=Covere % 100	d/Coated Sand	Grains; Locat	tion: PL=P	ore Lining, M=Matr es	(x)	LS S		iresent
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR	Matrix Matrix Color (Moist) 2/1 5/4	atrix, CS=Covere % 100 100	d/Coated Sand Color (Grains; Locat Moist)	tion: PL=P	ore Lining, M=Matr es Type	x)	LS S Indicators f	for Problematic	iresent
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 5/4	atrix, CS=Covere % 100 100	d/Coated Sand Color (dicators are S5 - Sandy F	Grains; Locat Moist) not presen	tion: PL=P	ore Lining, M=Matr es Type	x) Location	LS S Indicators f A9 - 1 cm M	f or Problemati luck (LRR I, J)	resent
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep	etion, RM=Reduced M Matrix Color (Moist) 2/1 5/4 Indicators (ch	atrix, CS=Covere % 100 100	d/Coated Sand Color (dicators are S5 - Sandy F S6 - Stripped	Grains; Locat Moist) not presen	tion: PL=P Mottle %	ore Lining, M=Matr es Type	x)	LS S Indicators f A9 - 1 cm M A16 - Coast	f or Problemati luck (LRR I, J) Prairie Redox	c Soils ¹ (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Generation Hue_10YR	Matrix Color (Moist) 2/1 5/4 Indicators (ch	atrix, CS=Covere % 100 100	d/Coated Sand Color (dicators are S5 - Sandy F S6 - Stripped F1 - Loamy F	Grains; Locat Moist) Moist) not presen Redox I Matrix Jucky Minera	tion: PL=P Mottle % t):	ore Lining, M=Matr es Type	x) Location	LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	f <mark>or Problemati</mark> luck (LRR I, J) Prairie Redox (urface (LRR G)	oresent <u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel	ipedon Stic Stic Stic Sulfide	atrix, CS=Covere % 100 100	d/Coated Sand Color (Color (dicators are S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy (Grains; Locat Moist) Noist) not presen Redox I Matrix Jucky Minera Gleyed Matrix	tion: PL=P Mottle % t):	ore Lining, M=Matr es Type	x) Location	LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	f or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio	c Soils ¹ (LRR F, G, H)
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Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ipedon stic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface	atrix, CS=Covere % 100 100 100	d/Coated Sand Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy f F3 - Depleted F6 - Redox f F7 - Depleted F8 - Redox f	Grains; Locat Moist) Moist) not presen Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	tion: PL=P Mottle % t):	ore Lining, M=Matr es Type	x)	LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	f <mark>or Problematic</mark> luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced 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:	e: L3R				Sample Point: u-154n44w33-w1				
VEGETATIO		are non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)				Dominance Test Worksheet				
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status					
2.	1				Number of Dominant Species that are OBLEACW or EAC: (A)				
3.	<u> </u>				Number of Dominant Species that are OBL, FACW, or FAC:(A)				
					Total Number of Deminent Creation Across All Strates (P)				
<u>4.</u>					Total Number of Dominant Species Across All Strata: 2 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.					Dreveleres hader Werkehest				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.15x3 =45				
	Total Cover :	=0			FACW spp. 0 $x 2 = 0$				
					FAC spp. 15 X $3 = 45$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 45 $X 4 = 180$				
1.					UPL spp. 40 X 5 = 200				
2.]							
3.]			Total 100 (A) 425 (B)				
4.		<u> </u>							
5.		1			Prevalence Index = B/A = 4.250				
6.		1							
7.		1							
8.		1			Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.		-			Dominance Test is > 50%				
		= 0			Prevalence Index is ≤ 3.0 *				
			_		Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	40	V	UPL					
2.	-	25	· · · · · · · · · · · · · · · · · · ·	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Poa pratensis	-	N	FACU	present, unless disturbed or problematic.				
	Setaria pumila	15							
4.	Solidago gigantea	10	<u>N</u>	FAC	Definitions of Vegetation Strata:				
5.	Panicum virgatum	5	<u>N</u>	FAC					
6	Eragrostis cilianensis	5	N	FACU	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.				
	Total Cover :	= 100							
			_						
Woody Vine S	Stratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.		<u></u>							
	Total Cover :	= 0							
Remarks:			o and Kar	atueky bluv					
Remarks.	The upland sample point is dominated by s		le and Ker		egrass.				
Additional Remarks:									