WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	09/23/14	
Applicant:		Enbridge	_								Marshall	
Investigators								MLRA 56		State:	MN	
Soil Unit: Landform:	I18A Depression				cal Relief:		I Classification	:		Comple Deint	w-155n45w34-c1	
Slope (%):	0 - 2%		e: 48.20				7599	Datum:			W-1331143W34-C1	
Slope (%): 0 - 2% Latitude: 48.206514 Longitude: -96.427599 Datum: Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes □ No Section:												
Are Vegetation □, Soil □, or Hydrology □significantly disturbed? Are normal circu										Township:		
Are Vegetation	•	, , ,	olematic?			✓ Yes	□ No		Range:	Dir:		
SUMMARY C			<i>y</i> 1							9		
Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes												
Wetland Hydrology Present?				Yes				Is This Sai	mpling Poin	int Within A Wetland? Yes		
Remarks: The wetland is a seasonally-flooded basin located within a soybean field with little vegetation growing within the wetland. The only vegetation throughout the												
wetland is sparse individual narrow-leaved cattails.												
HYDROLOG	Υ											
Wetland Hy	drology Indi	cators (Check all that a	pply; Mir	nimum of on	e primary	or two s	econdary requi	red):				
<u>Primary:</u>					_	_			Secondary:		-	
	A1 - Surface \				B11 - Salt (\square	B6 - Surface So		
	A2 - High Wat A3 - Saturatio				B13 - Aqua C1 - Hydro				☑	B8 - Sparsely v B10 - Drainage	egetated Concave Surface	
	B1 - Water Ma				C2 - Dry Se						Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen						spheres on Living	Roots (not till	le 🗆	C8 - Crayfish Bu		
	B3 - Drift Dep						educed Iron				Visible on Aerial Imagery	
	B4 - Algal Mat				C7 - Thin M		ace		☑	D2 - Geomorph		
	B5 - Iron Depo	วรเร n Visible on Aerial Imagery		П	Other (Exp	iain)				D5 - FAC-Neutr	rai i est ved Hummocks (LRR F)	
	B9 - Water-St									D1 - 1103t-11eav	ved Hammocks (LIKIT)	
Field Observ	vations:											
Surface Wate	er Present?	Yes	Depth:		(in.)			Matles de		D	V	
Water Table	Present?	Yes	Depth:		(in.)			wetiand F	lydrology l	Present?	Υ	
Saturation Pr	resent?	Yes	Depth:		. (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	tream gauge, monitoring v	well, aeri	al photos, pre	evious insp	ections).	<u>l</u> . if available:					
	,					· ·		il cracking a	ınd landsca	pe position.		
Describe Reco	,	tream gauge, monitoring v hydrology indicators are				· ·		il cracking a	ınd landsca	pe position.		
	,					· ·		il cracking a	ınd landsca	pe position.		
Remarks: SOILS Profile Descri	No primary	hydrology indicators are be to the depth needed t	present.	Wetland hy	rdrology is	assume	ed based on soined based on so	ndicators.)	ınd landsca	pe position.		
Remarks: SOILS Profile Descri	No primary	hydrology indicators are	present.	Wetland hy	rdrology is	assume	ed based on soined based on so	ndicators.)	ınd landsca	pe position.		
Remarks: SOILS Profile Descri	No primary	hydrology indicators are be to the depth needed t etion, RM=Reduced Matrix, CS	present.	Wetland hy	rdrology is	assume onfirm th	ed based on soine absence of in Pore Lining, M=Mati	ndicators.)	ınd landsca	pe position.		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth needed tetion, RM=Reduced Matrix	present. o docum	Netland hy	cator or co	onfirm th	ed based on soine absence of involved the control of the control o	ndicators.)		pe position.	Danasalas	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Color (Moist)	o docum E-Covered	Wetland hy	cator or co	assume onfirm th	ed based on soine absence of in Pore Lining, M=Mati	ndicators.)	Texture	pe position.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15	No primary iption (Descri	be to the depth needed to	o docum =Covered % 100	nent the indicated Sand Coolor (I	cator or co Grains; Locat	assume onfirm th tion: PL=P Mottle	ed based on soine absence of ingreen controls of the control of	ndicators.)		pe position.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth needed to	o docum E-Covered	Color (I	cator or co Grains; Locat Moist)	onfirm the tion: PL=P	ed based on sointee absence of interesting Memory es Type C	Location M		pe position.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15	No primary iption (Descri	be to the depth needed to	o docum =Covered % 100	nent the indicated Sand Coolor (I	cator or co Grains; Locat	assume onfirm th tion: PL=P Mottle	ed based on soine absence of ingreen controls of the control of	ndicators.)		pe position.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15	No primary iption (Descri	be to the depth needed to	o docum =Covered % 100	Color (I	cator or co Grains; Locat Moist)	onfirm the tion: PL=P	ed based on sointee absence of interesting Memory es Type C	Location M		pe position.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20	No primary iption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth needed tetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/1	% 100 70	Color (I Hue_10YR Gley1	cator or co Grains; Locat Moist) 6/8 6/10GY	mottle was a sume on firm the sion: PL=P	ed based on sointee absence of interesting Memory es C D	Location M		pe position.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	No primary Iption (Descrintration, D=Depleted Primary) Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check he	% 100 70 ere if ind	Color (I Hue_10YR Gley1 icators are r	cator or co Grains; Locat Moist) 6/8 6/10GY not present	mottle was a sume on firm the sion: PL=P	ed based on sointee absence of interesting Memory es C D	Location M M	Texture C C C Indicators f	for Problematic	Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check he depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS Matrix (check he depth needed to the de	% 100 70 ere if ind	Color (I Hue_10YR Gley1 icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or co Grains; Locat Moist) 6/8 6/10GY not present	assume on firm the tion: PL=P Mottle % 10 20 t):	ed based on sointee absence of interesting Memory es C D	Location M M	Texture C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	For Problematic luck (LRR I, J) Prairie Redox (Lurface (LRR G)	Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check he dipedon stic on Sulfide	% 100 70 ere if ind	Color (I Hue_10YR Gley1 icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or co Grains; Locat Moist) 6/8 6/10GY not present	assume on firm the tion: PL=P Mottle % 10 20 t):	ed based on sointee absence of interesting Memory es C D	Location M M	Texture C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	For Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression	Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 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 Muc A11 - Deplete A12 - Thick D S1 - Sandy Mi S2 - 2.5 cm M	be to the depth needed to the tion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check he tice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, F	% 100 70 ere if ind	Color (I Hue_10YR Gley1 icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) 6/8 6/10GY not present edox Matrix flucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surfa epressions	monfirm the sion: PL=P Mottle % 10 20 t):	ed based on soil le absence of in Pore Lining, M=Matri	Location M M ——————————————————————————————	Texture C C C C A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	For Problematical Prairie Redox (LRR G) Plains Depression Ced Vertical Parent Material Shallow Dark Surain in Remarks)	Soils ¹ LRR F, G, H) OS (LRR H, outside MLRA 72, 73) urface	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	e: L3R				Sample Point:	w-155n45w34-c1		
VEGETATIO	(Species identified in all uppercase are	e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FA	AC: 1 (A)		
3.					Transor of Bornmark opposed that are OBE, 171011, or 17	(71)		
						(D)		
4.					Total Number of Dominant Species Across All Stra	ata:(B)		
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FA	AC: 100.0% (A/B)		
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.								
10.	Total Cover				OBL spp. 5			
	Total Cover =	0			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	Stratum (Plot size: 15 ft. radius)				FACU spp 0			
1.					UPL spp. $0 X 5 = 0$			
2.						_		
3.					Total 5 (A) 5	(B)		
					13(4)			
4.					Burney L. B.			
5.					Prevalence Index = B/A = 1.000			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophyt	ic Vegetation		
10.								
10.	Total Cayon							
	Total Cover =	0			X Prevalence Index is ≤ 3.0	, *		
					Morphological Adaptation	is (Explain) *		
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Veg	jetation (Explain) *		
1.	Typha angustifolia	5	Υ	OBL				
2.					* Indicators of hydric soil and wetlan	nd hydrology must be		
3.					present, unless disturbed o			
					-			
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 he	eight.		
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. D	BH. regardless of height.		
					Capinig/Oni ub - 11 eee y premie 1000 man e m. 2	, regereres er riergrin		
10.								
11.								
12.					Herb - All herbaceous (non-woody) pl	ants, regardless of size.		
13.				-				
14.					1			
15.					Woody Vines - All woody vines, regardless of	f height.		
13.	T. (10)				vvoody villes = 7 iii illoody villoo, rogalialiood of			
	Total Cover =	5						
Woody Vine S	Stratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hudronbutio Vagatation Brass	nt? V		
					Hydrophytic Vegetation Preser	IC:		
5.								
4.								
	Total Cover =							
Remarks:	The majority of the ground layer is bare soil to	oesides ve	ry sparse	amounts o	of narrow-leaf cattail.			
	· · · · · · · · · · · · · · · · · · ·							
Additional	Remarks:							