WETLAND DETERMINATION DATA FORM Great Plains Region

		T											
Project/Site:		L3R									Date:	09/18/14	
Applicant:		Enbridge				0.1	- /B 41 - 5	\ DD\	MI DA TO		County:	Marshall	
Investigators		NTT/BEH				Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I53A			<u> </u>		I D - I' - (-		I Classification	:			455- 4500 64	
Landform:	Depression 3 - 7%		Latitude: 48.	216000		cal Relief:		2210	Detum		Sample Point:	w-155n45w28-f1	
Slope (%):		onditions on the site				Longitude:			Datum:	□ No	Section:		
						air (ir no, exp							
Are Vegetation Are Vegetation		□, or Hydrology □, or Hydrology		•			Air	e normal circur ☑ Yes		esent	Township:	Dir:	
SUMMARY C			Haturally p	TODI C ITI	alic			<u> </u>	□ I 10		Range:	DII.	
			Yes						Hydric Soi	ls Present?	Yes		
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes				Hydric Soils Present? Yes Is This Sampling Point Within A We				etland? Yes	
Remarks:		d is a seasonally-fl			d within	a farmed	bean fie	eld Crops are r					ev are
rtomarto.		ner vegetation pres					boarr no	na. Crope are p		agnoat the r	najority of the	o aroa, annough an	cy are
HYDROLOG		ior regetation proc		9 117 91 2	an dom								
		inatora (Chaale all	l that apply	Minima	m of on	0 10 10 10 10 10 10 10 10 10 10 10 10 10	or two o		irod\.				
		icators (Check all	i that apply;	viinimui	m or on	e primary	or two s	econdary requi	rea):	Socondon.			
<u>Primary:</u> □	<u>.</u> A1 - Surface	Water			П	B11 - Salt	Crust			<u>Secondary:</u> ☑	B6 - Surface S	Soil Cracks	
	A2 - High Wa					B13 - Aqua		ì				Vegetated Concave S	Surface
	A3 - Saturation					C1 - Hydro	gen Sulfic	de Odor			B10 - Drainage	e Patterns	
	B1 - Water M					C2 - Dry S			5			Rhizospheres on Livir	ng Roots (tilled)
	B2 - Sedimer B3 - Drift Dep	•						spheres on Living educed Iron	Roots (not till	l€ 🔲	C8 - Crayfish E	Burrows า Visible on Aerial Ima	ngory.
	B4 - Algal Ma					C7 - Thin N					D2 - Geomorp		agery
	B5 - Iron Dep					Other (Exp				☑	D5 - FAC-Neu		
		on Visible on Aerial Im	nagery			` '	,				D7 - Frost-Hea	aved Hummocks (LRF	₹ F)
	B9 - Water-S	tained Leaves											
Field Observ			_			<i>(</i> ')							
Surface Wate		Yes		oth:		_ (in.)			Wetland F	Hydrology F	Present?	Υ	
Water Table		Yes	•	oth:		(in.)							
Saturation Pr	resent?	Yes □	Dep	oth:		(in.)							
						-							
Describe Rec	orded Data (stream gauge, moni	itoring well, a	erial ph	otos, pr	• ` ′	ections),	l , if available:					
Describe Reco	<u> </u>	stream gauge, moni hydrology indicato				evious insp	,	•	soil crackin	ng, geomorp	hic position a	and the FAC-Neutr	al test.
Remarks:	<u> </u>					evious insp	,	•	soil crackin	ng, geomorp	hic position a	and the FAC-Neutr	ral test.
Remarks:	No primary	hydrology indicato	ors were obs	erved. \	Vetland	evious insp d hydrolog	y is assi	umed based on		ng, geomorp	hic position a	and the FAC-Neutr	ral test.
Remarks: SOILS Profile Descri	No primary	hydrology indicato	prs were obs	erved. \	Wetland	evious insp d hydrolog	y is assu	umed based on the absence of in	ndicators.)	ng, geomorp	hic position a	and the FAC-Neutr	al test.
Remarks: SOILS Profile Descri	No primary	hydrology indicato	prs were obs	erved. \	Wetland	evious insp d hydrolog	y is assu	umed based on the absence of in	ndicators.)	ng, geomorp	hic position a	and the FAC-Neutr	al test.
Remarks: SOILS Profile Descri	No primary	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma	prs were obs	erved. \	Wetland	evious insp d hydrolog	y is assu onfirm th	umed based on ne absence of in Pore Lining, M=Mat	ndicators.)	ng, geomorp	hic position a	and the FAC-Neutr	ral test.
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix	eeded to doc latrix, CS=Cove	erved. \ cument to red/Coate	Wetland the indi	evious insp d hydrolog cator or co Grains; Loca	y is assu onfirm th tion: PL=P	umed based on the absence of in Pore Lining, M=Mat	ndicators.) rix)		hic position a		ral test.
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doo	erved. \	Wetland	evious insp d hydrolog cator or co Grains; Loca	y is assu onfirm th	umed based on ne absence of in Pore Lining, M=Mat	ndicators.)	Texture	hic position a	and the FAC-Neutr	al test.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No primary iption (Descr	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doo latrix, CS=Cove	erved. \	the indied Sand	evious insponential hydrolog cator or control of cator or cator o	onfirm th	ne absence of in Pore Lining, M=Mat	ndicators.) rix) Location		hic position a		ral test.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14	No primary iption (Description, D=Depl	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	eeded to doc latrix, CS=Cove	erved. \ eument tred/Coate	the indied Sand	evious inspending hydrolog cator or control cator or	onfirm the	ne absence of incore Lining, M=Mat	Location	Texture C C	hic position a		ral test.
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/2	eeded to doc latrix, CS=Cove	erved. \ eument t red/Coate	the indied Sand (evious inspections in the control of	y is assured by its assur	e absence of incore Lining, M=Mat	Location	Texture C C	hic position a		ral test.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/2	eeded to doc latrix, CS=Cove	erved. \ eument t red/Coate	the indied Sand (evious inspections in the control of	y is assured by its assur	ne absence of incore Lining, M=Mat	Location	Texture C C SCL		Remarks	ral test.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	No primary iption (Description, D=Deplementation, D=Deplementation	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/2	eeded to doc latrix, CS=Cove	erved. \ cument t red/Coate	the indied Sand (evious inspectator or constrains; Local Moist) 6/8 6/8 not presen	y is assured by its assur	e absence of incore Lining, M=Mat	Location	Texture C C SCL	or Problematic	Remarks	ral test.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR	hydrology indicato ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/2 Indicators (ch	eeded to doc latrix, CS=Cove	erved. \ cument to red/Coate D Hue of the red/Coate ndicato	the indied Sand (evious inspections in the control of	y is assured by its assur	e absence of incore Lining, M=Mat	Location M M	Texture C C SCL Indicators f A9 - 1 cm M		Remarks	ral test.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/2 Indicators (ch	eeded to doc latrix, CS=Cove	erved. \ cument to the red/Coate D Hue to the red/Coate ndicato S5 - S6 -	Color (2_10YR 10YR Sandy R Stripped Loamy N	cator or co Grains; Loca Moist) 6/8 6/8 not presen edox Matrix fucky Miner	y is assured by is assured by is assured by is assured by it is a sured by	e absence of incore Lining, M=Mat	Location M M	Texture C C SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicato ibe to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 5/2 6/2 Indicators (characters)	eeded to doo latrix, CS=Cove	erved. \ cument to the red/Coate Do Hue to the red/Coate ndicato \$5 - 1	the indicated Sand Color (Color (Colo	cator or co Grains; Loca Moist) 6/8 6/8 not presen edox Matrix flucky Minera	y is assured by is assured by is assured by is assured by it is a sured by	e absence of incore Lining, M=Mat	Location M M	Texture C C SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/2 Indicators (ch	eeded to doc latrix, CS=Cove	erved. \ cument to red/Coate D Hue of the red/Coate ndicato \$5 - 1	Color (2_10YR 2_10YR 2_10YR 2_10YR 3_10YR 4_10YR 4_10YR 4_10YR 4_10YR 5_10YR 5_10YR 6_10YR 6	cator or cograins; Loca Moist) 6/8 6/8 6/8 anot presented with the company of the company o	y is assured by is assured by is assured by is assured by the second by	e absence of incore Lining, M=Mat	Location M M	Texture C C SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduce	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic	Remarks c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/2 Indicators (change) stic n Sulfide I Layers (LRR F) ck (LRR FGH)	eeded to doc latrix, CS=Cove	erved. \ cument to red/Coate D Hue of the red/Coate D Hue of the red/Coate D F1 - I I I I I I I I I I I I I I I I I I	Color (2_10YR 2_10YR 2_10YR 2_10YR 3_10YR 4_10YR 4_10YR 4_10YR 4_10YR 5_10YR 5_10YR 6_10YR 6	cator or co Grains; Loca Moist) 6/8 6/8 6/8 not presen edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface	y is assured by is assured by is assured by is assured by it is a sured by	e absence of incore Lining, M=Mat	Location M M	Texture C C SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material	Remarks E Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato ibe to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 5/2 6/2 Indicators (characters) ipedon stic in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface	eeded to doc latrix, CS=Cove	erved. \ cument to red/Coate D Hue of the red/Coate D Hue of the red/Coate D F1 - I I I I I I I I I I I I I I I I I I	Color (2_10YR 2_10YR 2_10YR 2_10YR 3_10YR 4_10YR 4	cator or cograins; Loca Moist) 6/8 6/8 6/8 anot presented with the company of the company o	y is assured by is assured by is assured by is assured by it is a sured by	e absence of incore Lining, M=Mat	Location M M	Texture C C SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S	Remarks E Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/2 Indicators (characters) ipedon stic in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface park Surface	eeded to doc latrix, CS=Cove	erved. \ cument f red/Coate D Hue O Hue O Hue The state of the sta	Color (2 10YR 2 10YR 2 10YR 3 Stripped Loamy N Loamy N Depleted Redox D Depleted Redox D	cator or congrains; Locator or congrains; Lo	y is assurbing the tion: PL=P Mottl % 10 20 t):	e absence of incore Lining, M=Mat	Location M M ——————————————————————————————	Texture C C SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material	Remarks E Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72,	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 S3 - 5 cm Mu	hydrology indicato ibe to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 5/2 6/2 Indicators (characters) ipedon stic in Sulfide I Layers (LRR F) ck (LRR FGH) ck (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (Licky Peat or Pea	eeded to doo latrix, CS=Cove 9 10 9 10 9 Reck here if	erved. \ cument f red/Coate D Hue O Hue O Hue The state of the sta	Color (2 10YR 2 10YR 2 10YR 3 Stripped Loamy N Loamy N Depleted Redox D Depleted Redox D	cator or congrains; Locator or congrains; Lo	y is assurbing the tion: PL=P Mottl % 10 20 t):	e absence of incore Lining, M=Mat	Location M M ——————————————————————————————	Texture C C SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark Sin in Remarks)	Remarks E 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-155n45w28-f1		
VEGETATIO		e 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:1(A)		
3.							
4.					Total Number of Dominant Species Across All Strata: 2 (B)		
5.							
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)		
7.							
8.					Prevalence Index Worksheet		
9.					-		
10.					Total % Cover of: Multiply by:		
10.	_l Total Cover =				$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
	rotal Cover =	0	FACW spp. $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$				
0 11 /01 1	0				OBL spp. 10		
	Stratum (Plot size: 15 ft. radius)				FACU spp0		
1.					UPL spp. $\underline{\qquad \qquad 5 \qquad \qquad }$ X 5 = $\underline{\qquad \qquad 25 \qquad }$		
2.							
3.					Total 16 (A) 37 (B)		
4.							
5.					Prevalence Index = B/A = 2.313		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					Dominance Test is > 50%		
10.	 Total Cover =	0			X Prevalence Index is ≤ 3.0 *		
	10tai 00vei =		_				
I I Of a f	(District on E (1 on 1) or				Morphological Adaptations (Explain) *		
	(Plot size: 5 ft. radius)		V	001	Problem Hydrophytic Vegetation (Explain) *		
1.	Schoenoplectus fluviatilis	10	T T	OBL	* La Parte de détait de la lancie de la lanc		
2.	Glycine max	5	Υ	NI	* Indicators of hydric soil and wetland hydrology must be		
3.	Persicaria maculosa	1	N	FACW	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.					1		
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.					1.5.5		
					-		
14.					Mandy Visco All woody vince regardless of height		
15.					Woody Vines - All woody vines, regardless of height.		
	Total Cover =	16	_				
Woody Vine St	tratum (Plot size: 30 ft. radius)						
1.							
2.							
3.					Hydrophytic Vegetation Present?		
5.							
4.							
	Total Cover =	0					
Remarks: The majority of the wetland is covered with bare dirt. Stunted beans are present as well.							
Remarks.	The majority of the wettand is covered with the	are unt. Of	unica bea	ins are pre	Soft as well.		
Additional F	Remarks:						