## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14
Applicant:		Enbridge								County:	Marshall
Investigators		NTT/BEH			_Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	I24A			<u> </u>			Classification:				
Landform:	Depression				ocal Relief:					Sample Point:	w-155n45w34-m1
Slope (%):	3 - 7%		atitude: 48.1		Longitude:			<u>Datum:</u>			
		onditions on the site			ar? (If no, exp	1			□ No	Section:	
Are Vegetation			•	ly disturbed?		Are	normal circum	-	esent?	Township:	
Are Vegetation			⊐aturally pi	roblematic?				□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \	•		Yes		_				ils Present?		(I = 10 <b>V</b> = 2
Wetland Hyd			Yes	La carta de la Cara	1 ( C . l . l	T1	1			t Within A W	
Remarks:		•					•	•	bare soil pro	esent with sid	ugh grass and reed canary
		ered throughout. Thi	is wetland i	s bordered by	a road and	d carries	into the roadsi	de ditch.			
HYDROLOG'	Y										
Wetland Hy	drology Ind	icators (Check all the	hat apply; N	Minimum of or	ne primary	or two se	econdary requi	red):			
Primary:	_								Secondary:	1	
	A1 - Surface				B11 - Salt (				✓	B6 - Surface S	
	A2 - High Wa A3 - Saturation				B13 - Aqua		o Odor				Vegetated Concave Surface
	B1 - Water M				C1 - Hydro C2 - Dry Se					B10 - Drainage	Rhizospheres on Living Roots (tilled
	B2 - Sedimer						pheres on Living	Roots (not till	le 🗆	C8 - Crayfish E	
	B3 - Drift Dep	•			C4 - Prese			•			Note: 1 Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ice		✓	D2 - Geomorp	
	B5 - Iron Dep		01 0 M1 /		Other (Exp	lain)			☑	D5 - FAC-Neut	
		on Visible on Aerial Imaç tained Leaves	gery						П	D7 - Frost-nea	ved Hummocks (LRR F)
	Do Water C	tained Leaves									
Field Observ	vations:										
Surface Wate		Yes □	Dep	th·	(in.)						
Water Table		Yes ☑	Dep		_ (in.)			Wetland F	Hydrology I	Present?	Υ
Saturation Pr		Yes $\square$	Dep		– (in.)						<del></del>
		_	Бор		_ ()						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
	•			erial photos, p	evious insp	ections),	if available:				
Remarks:	•	stream gauge, monito e present at 16 inche		erial photos, p	evious insp	ections),	if available:				
Remarks:	•			erial photos, p	revious insp	pections),	if available:				
Remarks:	Water table	e present at 16 inche	9S.		·	,		dicators )			
Remarks:  SOILS Profile Descri	Water table	e present at 16 inche	es.	ument the ind	icator or co	onfirm the	e absence of in				
Remarks:  SOILS Profile Descri	Water table	e present at 16 inche	es.	ument the ind	icator or co	onfirm the	e absence of in				
Remarks:  SOILS Profile Descri	Water table	ibe to the depth neeletion, RM=Reduced Matr	es.	ument the ind	icator or co	onfirm the	e absence of in ore Lining, M=Matr				
Remarks:  SOILS Profile Descri (Type: C=Concer	Water table	ibe to the depth needletion, RM=Reduced Matrix	ded to doci	ument the ind red/Coated Sand	icator or co Grains; Locat	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Water table iption (Descr	ibe to the depth needletion, RM=Reduced Matrix  Color (Moist)	ded to doci	ument the ind red/Coated Sand Color	icator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr				Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Water table  ption (Descriptration, D=Dep	ibe to the depth needletion, RM=Reduced Matrix  Color (Moist)  2/1	ded to docurix, CS=Cover	ument the ind red/Coated Sand Color	icator or co Grains; Locat	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr	ix)	CL		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Water table iption (Descr	ibe to the depth needletion, RM=Reduced Matrix  Color (Moist)  2/1	ded to doci	ument the ind red/Coated Sand Color	icator or co Grains; Locat	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr	ix)			Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30	Water table  ption (Description, D=Dep	ibe to the depth neeletion, RM=Reduced Matrix  Color (Moist)  2/1  5/1	% 100	ument the ind	icator or co	Mottle	e absence of in ore Lining, M=Matr es Type	ix)	CL		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Water table  ption (Description, D=Dep	ibe to the depth neeletion, RM=Reduced Matrix  Color (Moist)  2/1  5/1	% 100	ument the ind red/Coated Sand Color	icator or co	Mottle	e absence of in ore Lining, M=Matr	ix)	CL FSL		_
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30  NRCS Hydr	Water table  Iption (Description, D=Dep  Hue_10YR Hue_10YR  Fic Soil Field	ibe to the depth neeletion, RM=Reduced Matrix  Color (Moist)  2/1  5/1	% 100	ument the indicators are	icator or co Grains; Locat (Moist)	Mottle	e absence of in ore Lining, M=Matr es Type	Location	CL FSL	or Problematic	_
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30  NRCS Hydr	Water table  ption (Description, D=Dep  Hue_10YR Hue_10YR A1- Histosol	ibe to the depth needletion, RM=Reduced Matrix  Color (Moist)  2/1  5/1  I Indicators (che	% 100	ument the indred/Coated Sand Color of the co	icator or co Grains; Locat (Moist) not present	Mottle	e absence of in ore Lining, M=Matr es Type	Location	CL FSL Indicators f A9 - 1 cm M	luck (LRR I, J)	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30  NRCS Hydr	Water table  Iption (Description, D=Dep  Hue_10YR Hue_10YR  Fic Soil Field	ibe to the depth needletion, RM=Reduced Matrix  Color (Moist)  2/1 5/1  I Indicators (che	% 100	ument the indicators are  S5 - Sandy F	icator or co Grains; Local (Moist) not present	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi	ibe to the depth needletion, RM=Reduced Matrix  Color (Moist)  2/1  5/1  Indicators (cheaning and color stice)	% 100	ument the indred/Coated Sand Color of the co	icator or co Grains; Local (Moist) not present	mottle  Mottle  w t):	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0	luck (LRR I, J) Prairie Redox ( urface (LRR G)	: Soils <sup>1</sup> LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth needletion, RM=Reduced Matrix  Color (Moist)  2/1  5/1  Indicators (cheaning and color stice)	% 100 100 ck here if in	ument the ind red/Coated Sand Color O O O O S5 - Sandy F S6 - Stripped F1 - Loamy	icator or co Grains; Local (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix	mottle  Mottle  w t):	e absence of in ore Lining, M=Matr es 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	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth needletion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (chean Sulfide di Layers (LRR F) and control of the color (LRR F) and color (LRR FGH)	% 100 100 ck here if in	color of Col	icator or co Grains; Local (Moist) (Moist) not present Redox d Matrix Mucky Mineral Gleyed Matrix Dark Surface	mottle  Mottle  // // // // // // // // // // // // /	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressions ed Vertic Parent Material	Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	ibe to the depth needletion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (chean Sulfide de Layers (LRR FGH) led Below Dark Surface	% 100 100 ck here if in	color of Col	icator or co Grains; Local (Moist) (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	mottle  Mottle  // // // // // // // // // // // // /	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-30  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth needletion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (chean Sulfide de Layers (LRR F) lick (LRR FGH) led Below Dark Surface Dark Surface	% 100 100 ck here if in	ument the indicated Sand  Color (0)  Color (0)  S5 - Sandy F  S6 - Stripped F1 - Loamy (1) F2 - Loamy (1) F3 - Deplete F6 - Redox [1] F7 - Deplete F8 - Redox [1]	icator or co Grains; Local (Moist) (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surface Depressions	mottle  Mottle  %  t):	e absence of incore Lining, M=Matroes  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressions ed Vertic Parent Material	Soils <sup>1</sup> 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-155n45w34-m1				
					•				
<b>VEGETATIO</b>	N (Species identified in all uppercase	are non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<b>Dominant</b>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)				
3.		1							
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
5.		=							
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.	<u></u>				(142)				
8.	J				Prevalence Index Worksheet				
					Total 0/ Cover of Multiply by				
9.					Total % Cover of: Multiply by:				
10.	Total Cover				$OBL spp. \underline{\qquad \qquad \qquad } 0$				
	Total Cover	= 0	OBL spp. 50						
					FAC spp. $0 \times 3 = 0$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0   X   4 = 0$				
1.					UPL spp. $0   x   5 = 0$				
2.									
3.					Total <u>70</u> (A) <u>90</u> (B)				
4.									
5.					Prevalence Index = $B/A = 1.286$				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	_lTotal Cover	= 0			X Prevalence Index is ≤ 3.0 *				
	Total Cover								
					Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *				
1.	Beckmannia syzigachne	20	Y	OBL					
2.	Schoenoplectus tabernaemontani	20	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Phalaris arundinacea	15	Y	FACW	present, unless disturbed or problematic.				
4.	Typha angustifolia	10	N	OBL	Definitions of Vegetation Strata:				
5.	Phragmites australis	5	N	FACW					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.		1			height (DBH), regardless of height.				
8.		4							
9.		1			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.									
12.		-			<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
					rierb - 7 in Horbacocae (Herr troody) plants, regardless of oiles.				
13.	<u> </u>								
14.					All weeks wines regardless of beight				
15.	1				Woody Vines - All woody vines, regardless of height.				
	Total Cover	= 70							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.		1							
4.									
	Total Cover	= 0							
Remarks:			reed canai	ry drass a	nd soft-stem bulrush. A large portion of the wetland is covered in bare soil with				
rtomanto.	•	• •	rood oariai	iy grado a	Ta doit didn't bailed. A large pertient of the wettaria to develor in baile deli with				
some areas of planted wheat still growing.									
Additional Remarks:									