## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:								Date:	06/25/14			
Applicant: Enbridge											Marshall	
Investigators: NTT/KRG/EAB				Subregion (MLRA or LRR): MLRA 56							MN	
Soil Unit:	I133A						I Classification:	:				
Landform:	Side slope				cal Relief:		0.10			Sample Point:	u-158n48w9-b1	
Slope (%):	3 - 7%		ide: 48.52		Longitude			Datum:				
	, ,	nditions on the site typi			ar? (If no, ex	1			□ No	Section: Township:		
Are Vegetation			disturbed?		Are normal circumstances present?							
Are Vegetation			urally prob	olematic?			✓ Yes	□ No		Range:	Dir:	
SUMMARY C			No									
Hydrophytic Vegetation Present?					-				ls Present?		(I IO N.	
Wetland Hyd			No			1 11 0	1	is This Sar	mpling Poin	t Within A W	etland? <b>No</b>	
Remarks: The upland point is located within an agricultural field that is planted with Glycine max.												
	·											
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all that a	apply; Mir	nimum of on	e primary	or two se	econdary requi	red):				
<u>Primary:</u>	-								Secondary:		_	
	A1 - Surface				B11 - Salt					B6 - Surface S		
	A2 - High Wa A3 - Saturatio				B13 - Aqua C1 - Hydro					B8 - Sparsely B10 - Drainage	Vegetated Concave Surface	
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen			_			spheres on Living	Roots (not till	• -	C8 - Crayfish B		
	B3 - Drift Dep						duced Iron				n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp		
	B5 - Iron Dep	osits In Visible on Aerial Imagery	,		Other (Exp	olain)				D5 - FAC-Neu	tral Test aved Hummocks (LRR F)	
	B9 - Water-St	0 1								D1 - F1051-F166	aved Hummocks (ERR F)	
	20 77 6107 0											
Field Observ	vations:											
Surface Water		Yes	Depth:		(in.)							
Water Table		Yes	Depth:		(in.)			Wetland H	lydrology l	Present?	N	
Saturation Pr		Yes	Depth:		- (in.)						<del></del>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
				al photos, pr	evious insp	ections),	if available:					
Remarks:		stream gauge, monitoring hydrology indicators pre		al photos, pr	evious insp	ections),	if available:					
Remarks:				al photos, pr	evious insp	ections),	if available:					
Remarks:	No wetland	hydrology indicators pre	esent.		·	,		adicators \				
Remarks:  SOILS Profile Descri	No wetland	hydrology indicators probe to the depth needed	esent.	nent the indi	cator or co	onfirm th	e absence of in					
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Remarks:  SOILS Profile Descri	No wetland	hydrology indicators probe to the depth needed etion, RM=Reduced Matrix, C	esent.	nent the indi	cator or co	onfirm th	e absence of in ore Lining, M=Matr					
Remarks:  SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicators probe to the depth needed etion, RM=Reduced Matrix, C	esent.  I to docum	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No wetland  ption (Descri	hydrology indicators probe to the depth needed etion, RM=Reduced Matrix, Color (Moist)	esent.  I to documes=Covered	nent the indi	cator or co	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14	No wetland  Iption (Descri	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	esent.  I to docum CS=Covered  % 100	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture C		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No wetland  ption (Descri	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	esent.  I to documes=Covered	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture C C		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14	No wetland  Iption (Descri	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	esent.  I to docum CS=Covered  % 100	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture C		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14	No wetland  Iption (Descri	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	esent.  I to docum CS=Covered  % 100	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture C C		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18	No wetland  ption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1 4/1	esent.  I to docum CS=Covered	nent the indi /Coated Sand Color (	cator or co	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	ix)	Texture C		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18	No wetland  Iption (Descri	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1 4/1	esent.  I to docum CS=Covered	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr	ix)	C			
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18  NRCS Hydr	No wetland  Iption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1 4/1	esent.  I to docum CS=Covered	Color (	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	C C	or Problemation		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18  NRCS Hydr	No wetland  ption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  4/1  Indicators (check h	esent.  I to docum CS=Covered	Color (  Cators are r	cator or cograins; Loca  Moist)  not presented a continuous contin	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	C C Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18  NRCS Hydr	No wetland  Iption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 4/1  Indicators (check has ipedon	esent.  I to docum CS=Covered	Color (  Cotor (  Color (  S5 - Sandy R  S6 - Stripped	cator or co Grains; Loca Moist) Moist) not presented	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F	uck (LRR I, J) Prairie Redox (L	c Soils <sup>1</sup> LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18  NRCS Hydr	No wetland  Iption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  4/1  Indicators (check has ipedon etic.)	esent.  I to docum CS=Covered	Color (  Cators are r	cator or cograins; Loca  Moist)  not presented a matrix Mucky Miner	mottle which was al	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St	luck (LRR I, J) Prairie Redox (L urface (LRR G)	c Soils <sup>1</sup> LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	hydrology indicators probe to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 4/1  Indicators (check history ipedon sticen Sulfide Layers (LRR F)	% 100 100 nere if ind	Color (  Color (  S5 - Sandy R  S6 - Stripped  F1 - Loamy N  F2 - Loamy C  F3 - Depleted	cator or cograins; Loca  Moist)  Moist)  not presented with the company of the co	mottle which was all x	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression eed Vertic	c Soils <sup>1</sup> LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	hydrology indicators probe to the depth needed etion, RM=Reduced Matrix, Control (Moist)  2/1 4/1  Indicators (check hostic ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH)	% 100 100 nere if ind	Color (  Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	cator or congrains; Local  Moist)  Moist)  not present edox Matrix Mucky Miner Gleyed Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix	mottle which was all and a second conformation and a second conformati	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression red Vertic Parent Material	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18  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	hydrology indicators pro be to the depth needed etion, RM=Reduced Matrix, C  Matrix  Color (Moist)  2/1  4/1  Indicators (check has been stice and Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface	% 100 100 100 nere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	cator or configurations; Local Moist)  Moist)  not present edox Matrix Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Matri	mottle which was all and a second conformation and a second conformati	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-18  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	hydrology indicators probe to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 4/1  Indicators (check has been been been been been been been bee	% 100 100 100 nere if ind	Color (  Color (  S5 - Sandy R  S6 - Stripped  F1 - Loamy N  F2 - Loamy C  F3 - Depleted  F6 - Redox D  F7 - Depleted  F8 - Redox D	cator or congrains; Local  Moist)  Moist)  Motrix Mucky Miner Gleyed Matrix Mat	mottle when the state of the st	e absence of inore Lining, M=Matrees  Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression red Vertic Parent Material	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-158n48w9-b1
VEGETATION	` ` `	non-native	species.)		
Tree Stratum (	Plot size: 30 ft. radius)				Dominana Tast Markahast
1	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1. 2.					Number of Deminant Species that are OBL EACW or EAC:
3.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3. 4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					Total Number of Borninant Species Across All Strata(D)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					(142)
8.					Prevalence Index Worksheet
9.					Total % Cover of:
10.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Total Cover =	0			FACW spp. $0   x 2 = 0$
			<del></del>		FAC spp. $0   x   3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				OBL spp. 0
1.					UPL spp. $\frac{25}{}$ $x = \frac{125}{}$
2.					
3.					Total 40 (A) 185 (B)
4.					
5.					Prevalence Index = B/A = 4.625
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Total Cavar	0			Dominance Test is > 50%
	Total Cover = _	0	_		Prevalence Index is ≤ 3.0 *
Llamb Ctmatuma //	Distriction Eff radius)				Morphological Adaptations (Explain) *
1 derb Stratum (I	Plot size: 5 ft. radius)  Glycine max	25	V	NI	Problem Hydrophytic Vegetation (Explain) *
2.	Elymus repens	25 15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Ligitus repens	13	<u>'</u>	1 700	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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	40	_		
	(D)				
Woody Vine Str	atum (Plot size: 30 ft. radius)				-
2.					-
3.					Hydrophytic Vegetation Present? N
5.					Hydrophytic vegetation Fresent? N
4.					
	Total Cover =	0			
Remarks:			gricultura	l field. Glv	cine max is uniformly planted with some Elymus repens mixed throughout.
	5		J 23.3.		)
Additional R	emarks:				