## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/12/14	
Applicant:		Enbridge									County:	Marshall	
Investigators		BEH/MRK				Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	165A				_			I Classification	n:				
Landform:	Talf			0.40=00		cal Relief:					Sample Point:	u-156n46w7-a1	
Slope (%):	3 - 7%	1141 41 14	Latitude: 48					3846667	Datum:				
		nditions on the sit				ar'? (If no, exp				□ No	Section:		
Are Vegetation		□, or Hydrology	•	•			Are	e normal circu	-	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally	problema	atic?			✓ Yes	□ No		Range:	Dir:	
SUMMARY C													
Hydrophytic \	•		No							ls Present?			
Wetland Hyd			No							mpling Poin	t Within A We	etland? <b>No</b>	
Remarks:	The upland	sample point is lo	cated withir	n a whea	t field, ı	near a sea	isonally-	flooded basin.					
<b>HYDROLOG</b>	Υ												
Wetland Hv	drology Ind	cators (Check all	I that apply:	Minimur	n of on	e primary	or two se	econdary requ	uired):				
Primary:		(Sinson an	at app.y,			o priiriai y	0	000.100.7 .090	• • • • • • • • • • • • • • • • • •	Secondary:			
☐ A1 - Surface Water				□ B11 - Salt Crust							B6 - Surface So	oil Cracks	
						B13 - Aqua						egetated Concave Sur	face
	A3 - Saturatio					C1 - Hydro					B10 - Drainage		
	B1 - Water Ma					C2 - Dry Se			a Dooto (not till			Rhizospheres on Living	Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•						spheres on Living duced Iron	g Roots (not till	• 🗆	C8 - Crayfish B	ourrows Visible on Aerial Image	on/
	B4 - Algal Ma					C7 - Thin M				]	D2 - Geomorph		ai y
	B5 - Iron Dep					Other (Exp		400			D5 - FAC-Neut		
		n Visible on Aerial Im	nagery		_	oo. (=/q	,					ved Hummocks (LRR F	F)
	B9 - Water-St		0 ,									•	,
Field Observ	vations:												
Surface Wate	er Present?	Yes □	De	epth:		(in.)			\Matland U	l l	3	N I	
Water Table	Present?	Yes □		pth:		in.)			wetland H	lydrology F	resent?	N	
Saturation Pr		Yes □		epth:		(in.)						_	
						(,							
Describe Reco	orded Data (s	tream gauge mon	vitoring well	aerial pho	otos pro	` ` `	ections)	if available:					
		tream gauge, mon		•		evious insp	ections),	if available:					
Describe Reco		tream gauge, mon or secondary hydr		•		evious insp	ections),	if available:					
Remarks:				•		evious insp	ections),	if available:					
Remarks:	No primary	or secondary hydr	rological inc	dicators v	vere ob	evious insp served.	,		indicators )				
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary hydr	rological inc	dicators v	vere ob	evious insponents served.	onfirm th	e absence of i					
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary hydr	rological inc	dicators v	vere ob	evious insponents served.	onfirm th	e absence of i					
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary hydr be to the depth ne etion, RM=Reduced M	rological inc	dicators v	vere ob	evious insponents served.	onfirm the	e absence of i					
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary hydrone be to the depth neterion, RM=Reduced M	rological inc eeded to do fatrix, CS=Cov	dicators v	vere ob he indicated Sand G	served.  cator or co	onfirm the	e absence of i	atrix)	Teyture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	or secondary hydrone be to the depth neetion, RM=Reduced Modern Matrix Color (Moist)	rological inc eeded to do fatrix, CS=Cov	cument trered/Coate	vere ob	served.  cator or co	onfirm the	e absence of i		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15	No primary  ption (Descri	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1	rological ince	cument trered/Coate	vere ob he indicated Sand G	served.  cator or co	onfirm the	e absence of i	atrix)	FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19	No primary  ption (Descrintration, D=Depleter)  Hue_10YR  Hue_10YR	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1	eeded to do fatrix, CS=Cov	cument trered/Coate	vere ob he indicated Sand G	served.  cator or co	onfirm the	e absence of i	atrix)	FSL FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15	No primary  ption (Descri	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1	eeded to do fatrix, CS=Cov	cument trered/Coate	vere ob he indicated Sand G	served.  cator or co	onfirm the	e absence of i	atrix)	FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19	No primary  ption (Descrintration, D=Depleter)  Hue_10YR  Hue_10YR	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1	eeded to do fatrix, CS=Cov	cument trered/Coate	vere ob he indicated Sand G	served.  cator or co	onfirm the	e absence of i	atrix)	FSL FSL		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19 19-25	No primary  ption (Descrintration, D=Depleter)  Hue_10YR  Hue_10YR	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1 6/3	eeded to do fatrix, CS=Cov	cument trered/Coate	he indicated Sand (	evious insponential served.  Cator or configurations; Locate Moist)	onfirm the	e absence of i	atrix)	FSL FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19 19-25	No primary  ption (Descrintration, D=Deplete Deplete D	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1 6/3	eeded to do fatrix, CS=Cov	cument trered/Coate	he indicated Sand (	evious insponential served.  Cator or configurations; Locate Moist)	onfirm the	e absence of its ore Lining, M=Ma	atrix)	FSL FSL FS	or Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19 19-25  NRCS Hydr	No primary  ption (Descrintration, D=Deplete Deplete D	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1 6/3	eeded to do fatrix, CS=Cov	cument to ered/Coate	he indicated Sand (	evious insponented.  cator or constrains; Locate  Moist)  not presented.	onfirm the	e absence of its ore Lining, M=Ma	Location	FSL FS FS	or Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19 19-25	No primary  ption (Descrintration, D=Deplete   Hue_10YR Hue_10YR Hue_2.5Y	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/1  6/3  Indicators (ch	eeded to do fatrix, CS=Cov	cument to ered/Coate	he indicated Sand (	evious insponent served.  Cator or constraints; Locate  Moist)  oot presentedox	onfirm the	e absence of its ore Lining, M=Ma	Location	FSL FSL FS Indicators f	uck (LRR I, J)	Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19 19-25  NRCS Hydr	No primary  ption (Descrintration, D=Deplete   Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1 6/3  Indicators (chain)	eeded to do fatrix, CS=Cov	cument to ered/Coate	he indicated Sand Color (I	evious insponent served.  Cator or constraints; Locate  Moist)  oot presentedox	Mottle %	e absence of its ore Lining, M=Ma	Location	FSL FS FS Indicators f A9 - 1 cm M A16 - Coast		Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19 19-25  NRCS Hydr	No primary  ption (Descrintration, D=Deplete   Hue_10YR   Hue_10YR   Hue_2.5Y  ic Soil Field  A1- Histosol   A2 - Histic Ep	be to the depth neetion, RM=Reduced M  Matrix Color (Moist) 2/1 3/1 6/3  Indicators (chains)	eeded to do fatrix, CS=Cov	cument to ered/Coate	he indicated Sand (Color (I	evious inspector or constrains; Located Moist)  oot presented was matrix	Mottle %	e absence of its ore Lining, M=Ma	Location	FSL FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su	uck (LRR I, J) Prairie Redox (I urface (LRR G)	Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19 19-25  NRCS Hydr	No primary  ption (Descrintration, D=Depleteration, D=Depleteration)  Hue_10YR  Hue_10YR  Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydrogel A5 - Stratified	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1 6/3  Indicators (chair)  ipedonetic in Sulfide Layers (LRR F)	eeded to do fatrix, CS=Cov	indicator  S5 - 3  F1 - 1  F2 - 1  F3 - 1	he indicated Sand Color (I	evious insponented.  Cator or contract or	mottle %  tion: PL=Pi  Mottle %  t):	e absence of its ore Lining, M=Ma	Location	FSL FS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc	uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio ed Vertic	Soils <sup>1</sup> LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-19 19-25  NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deple	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/1  6/3  Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH)	eeded to do fatrix, CS=Cov	indicators value of the comment to t	he indicated Sand (Color (I	evious insponented.  Cator or contract of	mottle %	e absence of its ore Lining, M=Ma	Location	FSL FS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P	uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio ed Vertic arent Material	Soils <sup>1</sup> LRR F, G, H) ns (LRR H, outside MLRA 72, 73)	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-156n46w7-a1
					•
<b>VEGETATIO</b>	N (Species identified in all uppercase are	e 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: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					(77 <i>B</i> )
8.					Prevalence Index Worksheet
					4
9.					Total % Cover of: Multiply by:
10.	Total Cavar				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Total Cover = _	0			FACW spp. $\frac{0}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$
					OBL spp. 0
	Stratum (Plot size: 15 ft. radius)				FACU spp. $10$ $\times 4 = 40$
1.					UPL spp. $70$ $x 5 = 350$
2.					
3.					Total <u>85</u> (A) <u>405</u> (B)
4.					
5.					Prevalence Index = B/A = 4.765
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.		0			Prevalence Index is ≤ 3.0 *
	Total Cover =_	0			
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	70	Y	NI	
2.	Amaranthus retroflexus	10	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Amaranthus blitoides	5	N	FAC	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.					
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.
					Herb = All Herbaccous (Horr woody) plants, regardless of size.
13.					<del> </del>
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	85			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
<del></del>	Total Cover =	0			
Pomarke:			ttorod pigu	rood choo	ios are also present
Remarks:	The sample site is dominated by cultivated w	neat. Scal	uerea bigw	reeu spec	ies are also present.
Additional F	Remarks:				