## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/14/14	
Applicant:		Enbridge								County:	Marshall	
Investigators	S:	BEH/MRK			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	169A			NWI Classification:								
Landform:	Depression				_ocal Relief:					Sample Point:	w-156n46w17-e4	
Slope (%):	0 - 2%		Latitude: 48.		Longitude:			Datum:				
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)   Yes □ No Section:												
Are Vegetation		□, or Hydrology	•	•	?	Are	e normal circun	-	esent?	Township:		
Are Vegetation		, ,	□aturally p	oblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C												
									Soils Present? Yes Sampling Point Within A Wetland? Yes			
			Yes	alamain ata al I			hamerand and					
Remarks: The wetland is a seasonally-flooded basin dominated by slough grass and barnyard grass. The site is near an excavated drainage and is within a field that												
appears to be tilled and planted during dry periods.												
HYDROLOG												
-		icators (Check all	that apply;	/linimum of o	one primary	or two s	econdary requi	red):				
<u>Primary</u>	_	A		_	- 544 6 1	•			Secondary:		110	
	<ul><li>□ A1 - Surface Water</li><li>□ A2 - High Water Table</li></ul>			[	□ B11 - Salt ( □ B13 - Aqua					B6 - Surface S	oil Cracks /egetated Concave Surface	
	A3 - Saturatio				•					B10 - Drainage	-	
	B1 - Water M			□ C1 - Hydrogen Sulfide Odor □ □ □ C2 - Dry Season Water Table □							Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen	•					spheres on Living	Roots (not tille	• 🗆	C8 - Crayfish E		
	B3 - Drift Dep						educed Iron				Nicolar Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep						ace		<b>☑</b>	D2 - Geomorph D5 - FAC-Neut		
		on Visible on Aerial Ima	agery	-	other (Exp	iaii ij					ved Hummocks (LRR F)	
	B9 - Water-St		0 )								,	
Field Obser	vations:											
Surface Wat	er Present?	Yes □	Dep	th:	(in.)			Watland H	lydrology [	Procent?	Υ	
Water Table	Present?	Yes □	Dep	th:	(in.)			wettand n	lydrology F	-resent?	<u>'</u>	
Saturation P	resent?	Yes □	Dep	th:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	stream gauge, monit	toring well, a	erial photos.	orevious insp	ections).	<u> </u>					
				•	orevious insp	ections),	, if available:					
Describe Rec Remarks:		stream gauge, monit was observed at th		•	orevious insp	ections),	, if available:					
				•	orevious insp	ections),	, if available:					
Remarks:  SOILS Profile Descri	Algal crust v	was observed at the	ne sample po	int.  ument the in	dicator or co	onfirm th	e absence of ir					
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Remarks:  SOILS Profile Descri	Algal crust v	was observed at the be to the depth neetion, RM=Reduced Ma	ne sample po	int.  ument the in	dicator or co	onfirm th	e absence of ir ore Lining, M=Mati					
Remarks:  SOILS Profile Descri (Type: C=Concer	Algal crust v	was observed at the be to the depth neterion, RM=Reduced Ma	eded to doc atrix, CS=Cove	ument the in	dicator or co	onfirm th tion: PL=P Mottl	e absence of ir Fore Lining, M=Matr	rix)				
Remarks:  SOILS Profile Descri (Type: C=Concer	Algal crust viption (Descri	was observed at the be to the depth neetion, RM=Reduced Ma	eeded to doc atrix, CS=Cove	ument the in ed/Coated San	dicator or co	onfirm th	e absence of ir ore Lining, M=Mati		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10	Algal crust viption (Descri	be to the depth neetion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to doc atrix, CS=Cove	ument the in ed/Coated San	dicator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr es Type	Location	FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-13	Algal crust viption (Description, D=Deplementation, D=Deplementati	was observed at the be to the depth neetion, RM=Reduced Marking Matrix  Color (Moist)  2/1 6/2	eeded to doc eatrix, CS=Cove	color Color Hue_10Y	dicator or co	onfirm the	e absence of in Fore Lining, M=Matr es Type	Location M	FSL FS		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-13 13-16	Algal crust viption (Description, D=Deplementation, D=Deplementati	was observed at the be to the depth nemetion, RM=Reduced Marrix  Color (Moist)  2/1  6/2  6/2	eeded to doc eatrix, CS=Cove	color Hue_10Y	dicator or condition of the dicator of conditions described by the dicator of conditions describ	Mottl % 35 5	es  Type  C  C	Location  M M	FSL FS FS		Remarks	
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Remarks:  SOILS Profile Descric (Type: C=Concer  Depth (In.) 0-10 10-13 13-16 16-23  NRCS Hydr	Algal crust vintration (Descrintration, D=Deplementation, D=Deplem	was observed at the be to the depth neetion, RM=Reduced Marix  Color (Moist)  2/1 6/2 6/2 7/2  Indicators (characters)	eeded to doc eatrix, CS=Cove	Color Hue_10Y Hue_10Y CS5 - Sandy	dicator or cod Grains; Loca  (Moist)  (R 6/8 (R 6/8 (R 5/8)  e not presen	Mottl % 35 5	e absence of incore Lining, M=Matro	Location  M M M	FSL FS FS LFS Indicators f	uck (LRR I, J)	: Soils <sup>1</sup>	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-13 13-16 16-23  NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	was observed at the be to the depth neetion, RM=Reduced Marking Matrix  Color (Moist)  2/1 6/2 6/2 7/2  Indicators (characters and Sulfide Layers (LRR F)	eeded to doc eatrix, CS=Cove	Color Color Hue_10Y Hue_10Y Hue_10Y Color	dicator or cod Grains; Loca  (Moist)  (R 6/8 (R 6/8 (R 5/8)  e not present (Redox ed Matrix (Mucky Miner of Gleyed Matrix) (Gleyed Matrix) (ed Matrix)	Mottl % 35 5 6 t):	e absence of incore Lining, M=Matro	Location	FSL FS FS LFS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ed Vertic	: Soils <sup>1</sup>	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-156n46w17-e4			
VEGETATIO	N (Species identified in all uppercase ar	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:(A)			
3.								
4.					Total Number of Dominant Species Across All Strata:(B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. $\frac{65}{30}$ $x = \frac{65}{60}$ FACW spp. $\frac{30}{30}$ $x = \frac{65}{60}$			
	Total Cover =	0	FACW spp x 2 = 60					
					FAC spp. $30$ $\times 3 = 90$			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $5   x   4 = 20$			
1.					UPL spp. $0   x   5 = 0$			
2.								
3.					Total 130 (A) 235 (B)			
4.								
5.					Prevalence Index = B/A = 1.808			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					X Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *			
			_		Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Beckmannia syzigachne	60	Υ	OBL				
2.	Echinochloa crus-galli	30	Υ	FAC	* Indicators of hydric soil and wetland hydrology must be			
3.	Rumex stenophyllus	10	N	FACW	present, unless disturbed or problematic.			
4.	Leptochloa fusca	10	N	FACW	Definitions of Vegetation Strata:			
5.	Epilobium coloratum	5	N	OBL				
6	Rumex fueginus	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Trifolium hybridum	5	N	FACU	height (DBH), regardless of height.			
8.	Persicaria pensylvanica	5	N	FACW				
9.	reisicana pensyivanica			17.000	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.				_	Capinig/Chi ab			
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.					rier b - 7 th horsesses (non wessy) plants, regardless of size.			
14.					Woody Vines - All woody vines, regardless of height.			
15.	Tatal Oassa	400			WOOdy Vines - All Woody Vines, Tegardiess of Height.			
	Total Cover =	130						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?Y			
5.								
4.								
	Total Cover =							
Remarks:	The sample point is dominated by slough gra	ass and ba	rnyard gra	ISS.				
Additional R	Remarks:							