## WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site: L3R Applicant: Enbridge										Date:	09/17/14 Maraball	
				Subregion (MLRA			or I DD\	MI DA 56		County: State:	Marshall MN	
Investigators: Soil Unit:	U .				_Subregion	•	l Classification:	MLRA 56		J State.	IVIIN	
Landform:	Depression			_	cal Relief:		i Ciassilication.			Sample Point	w-156n46w33-j1	
Slope (%):	0 - 2%		Latitude: 48.2		Longitude:		6570	Datum:			w recirrence j.	
		nditions on the sit						✓ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology		y disturbed?	· · ·		e normal circum	nstances pr	esent?	Township:		
Are Vegetation		□, or Hydrology	•	-				□ No ·		Range:	Dir:	
SUMMARY C	OF FINDING	5										
Hydrophytic \	Vegetation P	resent?	Yes		_			Hydric Soi	Is Present?	? Yes		
Wetland Hyd			Yes							nt Within A W		
Remarks:				_	-			•			ominated by water plantain. The	
water plantain zone is probably farmed in dry years (but not this year). The surrounding uplands are a soybean field to the east and a hay field to the west. All parameters of wetland conditions are present.												
HYDROLOG		e present.										
		inatara (Chaalcall	l theat amply . N	Aireines une of our				. o. al\ .				
Primary:		icators (Check all	i that apply; i	linimum of or	e primary	or two se	econdary requi	rea):	Socondary			
	<u>.</u>	Water		П	B11 - Salt (	Crust			Secondary	<u>.</u> B6 - Surface S	oil Cracks	
					B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage	e Patterns	
	B1 - Water M				C2 - Dry Se			Dooto (not till			Rhizospheres on Living Roots (till	
	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till	l€ □	C8 - Crayfish E	Norrows  No Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp		
	B5 - Iron Dep	osits			Other (Exp	lain)			✓	D5 - FAC-Neu	tral Test	
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	ved Hummocks (LRR F)	
	B9 - Water-Si	tained Leaves										
Field Observ	votiona											
		V	Dans	la .	(in )							
Surface Water		Yes	Dept		- (in.)			Wetland F	Hydrology	Present?	Υ	
Water Table		Yes □ Yes □	Dept		_ (in.) _ (in.)						<del></del>	
- Span-												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
	<u>`</u>			erial photos, pr	evious insp	ections),	if available:					
Remarks:	<u>`</u>	stream gauge, mon drology is present.		erial photos, pr	evious insp	ections),	if available:					
Remarks:	<u>`</u>			erial photos, pr	evious insp	ections),	if available:					
Remarks:	Wetland hy	drology is present.			·	·		dicators				
Remarks:  SOILS Profile Descri	Wetland hy	drology is present.	eeded to docu	ument the indi	cator or co	onfirm the	e absence of in					
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Remarks:  SOILS Profile Descri	Wetland hy	drology is present.	eeded to docu	ument the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr					
Remarks:  SOILS Profile Descri (Type: C=Concer	Wetland hy	drology is present.  be to the depth neetion, RM=Reduced M	eeded to docu	ument the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks:  SOILS Profile Descri	Wetland hy	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	eeded to docu	ument the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture	the mineral comp		
Remarks:  SOILS Profile Descri (Type: C=Concer	Wetland hy	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	eeded to docu latrix, CS=Cover	ument the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)			onent is fine sandy loam	
Remarks:  SOILS Profile Descri (Type: C=Concer	Wetland hy	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 2/1	eeded to doculatrix, CS=Cover	ument the indi	cator or co Grains; Locat Moist)	onfirm the	e absence of in ore Lining, M=Matr	ix)	MMI	the mineral composeveral stratified I	onent is fine sandy loam ayers	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	Wetland hy  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 2/1	eeded to doculatrix, CS=Cover	ument the indi	cator or co Grains; Locat Moist)	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	MMI FSL	several stratified I	onent is fine sandy loam ayers	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 10-18  NRCS Hydr	Wetland hy  ption (Description, D=Depl  Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 2/1 7/1 Indicators (chain)	eeded to doculatrix, CS=Cover	Color ( D Hue_7.5YR  andicators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Locat Moist)  6/6  not present	Mottle %  30	e absence of in ore Lining, M=Matr es Type	Location	MMI FSL FS  Indicators A9 - 1 cm N A16 - Coas	several stratified I several stratified I  for Problematic Muck (LRR I, J) t Prairie Redox (	onent is fine sandy loam ayers ayers  Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1  2/1  7/1  Indicators (chains)	eeded to doculatrix, CS=Cover  % 100 40 30 neck here if ir	Color ( D Hue_7.5YR  dicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Locat Moist)  6/6  not present	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	MMI FSL FS  Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	several stratified I several stratified I several stratified I for Problematic Muck (LRR I, J) t Prairie Redox (Surface (LRR G)	onent is fine sandy loam ayers ayers  Soils  LRR F, G, H)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w33-j1
					·
<b>VEGETATION</b>		e non-native	species.)		
Tree Stratum (	(Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.					
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.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 90
	Total Cover =	0			FACW spp. $5   X 2 = 10$
					FAC spp. $10$ $\times 3 = 30$
Sapling/Shrub 9	Stratum (Plot size: 15 ft. radius)	,			FACU spp. $0   x   4 = 0$
1.					$UPL spp. \qquad 0 \qquad X  5 = \qquad 0$
2.					
3.					Total 105 (A) 130 (B)
4.					```
5.					Prevalence Index = B/A = 1.238
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	Total Cover =		_		
Llank Otractions (	Distriction 5 ft and live				Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)		\ <u>\</u>	ODI	Problem Hydrophytic Vegetation (Explain) *
1.	Alisma triviale	40	Y	OBL	* In discass of building on it and contlant the deal on containing
2.	Typha X glauca	20	Y	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Schoenoplectus tabernaemontani	20	<u>Y</u>	OBL	
4.	Echinochloa crus-galli	10	N	FAC	Definitions of Vegetation Strata:
5.	Beckmannia syzigachne	10	N	OBL	
6	Hordeum jubatum	5	N	FACW	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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
,	Total Cover =	105			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	Tadady				
2.					
3.					Hydrophytic Vegetation Present?
5.					Trydrophytic vegetation resent:
4.					
4.	Total Cover =	0			
Domorko			sin bybrid	cottoil on	d coffee bulgueb in a shallow depression. Hydrophytic vegetation is present
Remarks:	A shallow marsh community dominated by w	ater planta	ain, nyond	cattall, and	d softstem bulrush in a shallow depression. Hydrophytic vegetation is present.
Additional R	lemarks:				