WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:									Date:	08/19/14					
Applicant: Investigators		Enbridge BEH/RAJ		Subregion (MLRA or LRR):				MLRA 56		County: State:	Marshall MN				
Soil Unit:	I16F	DETI/ICAJ		Subregion (MLRA of LRR): NWI Classification						State.					
Landform:	Depression			Local Relief: LC						Sample Point	w-157n47w16-c6				
Slope (%):	0 - 2%		Latitude: 48.4			-96.732		Datum:							
		onditions on the sit			ar? (If no, exp	1		☑ Yes	□ No	Section:					
Are Vegetatio		□, or Hydrology	•	•		Are	e normal circun	-	esent?	Township:	5				
SUMMARY C		□, or Hydrology	Daturally pr	oblematic?			☑ Yes	□ No		Range:	Dir:				
Hydrophytic			Yes					Hydric Soi	ls Present?	2 Yes					
Wetland Hyd	•		Yes		_					nt Within A W	/etland? Yes				
Remarks:		d sample point is I		oxbow chann	el dominate	ed by duo	ckweed.								
HYDROLOG	V														
		icators (Check al	ll that apply: M	linimum of or	ne primary	or two se	econdary requi	red).							
Primary	•••		ii that apply, N		ic prinary	01 100 30		icu).	Secondary	<u>:</u>					
	A1 - Surface				B11 - Salt					B6 - Surface S					
· · ·	A2 - High Wa A3 - Saturatio			2 2	B13 - Aqua C1 - Hydro					B8 - Sparsely B10 - Drainag	Vegetated Concave Surface				
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled)				
	B2 - Sedimen	•					pheres on Living	Roots (not till	• •	C8 - Crayfish					
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese C7 - Thin N					D2 - Geomorp	n Visible on Aerial Imagery				
	B5 - Iron Dep	osits							\checkmark	D5 - FAC-Neu					
		on Visible on Aerial In	nagery							D7 - Frost-He	aved Hummocks (LRR F)				
	B9 - Water-Si	tained Leaves													
Field Observ	vations.														
Surface Wat		Yes 🛛	Dept	h: 12	(in.)					_					
Water Table		Yes ☑	Dept	-	(in.)			Wetland F	lydrology	Present?	Y				
Saturation P		Yes 🛛	Dept	-	(in.)										
Describe Rec	orded Data (s	stream gauge, mon	nitoring well, ae	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:	One foot of	standing water is	-		-			as.							
	One foot of	standing water is	-		-			as.							
SOILS		, in the second s	present at the	e sample site	; the water	is deepe	er in nearby are								
SOILS Profile Descri	iption (Descri	standing water is ibe to the depth ne etion, RM=Reduced M	present at the	e sample site	; the water	is deepe	er in nearby are	idicators.)							
SOILS Profile Descri	iption (Descri	ibe to the depth ne	present at the	e sample site	; the water	is deepe	er in nearby are	idicators.)							
SOILS Profile Descri	iption (Descri	ibe to the depth ne	present at the	e sample site	; the water	is deepe	er in nearby are e absence of ir ore Lining, M=Matr	idicators.)							
SOILS Profile Descri	iption (Descrintration, D=Depl	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	present at the eeded to docu Matrix, CS=Coverd	e sample site	; the water	onfirm the	er in nearby are e absence of ir ore Lining, M=Matr	idicators.)	Texture		Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	iption (Descrintration, D=Depl	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	present at the eeded to docu Matrix, CS=Coverd % 100	e sample site	; the water icator or co Grains; Loca	is deepe onfirm the tion: PL=Pc Mottle	er in nearby are e absence of in ore Lining, M=Matr	ndicators.) ^{ix)}	MMI	silty mucky mine					
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-10	iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	present at the eeded to docu Matrix, CS=Coverd % 100 100	e sample site	; the water icator or co Grains; Loca	is deepe onfirm the tion: PL=Pc Mottle	er in nearby are e absence of in ore Lining, M=Matr	ndicators.) ^{ix)}	MMI FSL	silty mucky mine					
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	iption (Descrintration, D=Depl	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	present at the eeded to docu Matrix, CS=Coverd % 100	e sample site	; the water icator or co Grains; Loca	is deepe onfirm the tion: PL=Pc Mottle	er in nearby are e absence of in ore Lining, M=Matr	ndicators.) ^{ix)}	MMI	silty mucky mine					
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-10 10-21	iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 5/1	present at the eeded to docu Matrix, CS=Coverd 100 100	e sample site	; the water icator or co Grains; Locat (Moist)	is deepe onfirm the tion: PL=Pc Mottle	er in nearby are e absence of in ore Lining, M=Matr es Type	Location	MMI FSL LS Indicators A9 - 1 cm M	for Problemati	ral				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-10 10-21 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 5/1 Indicators (ch	present at the eeded to docu Matrix, CS=Coverd 100 100	e sample site	; the water icator or co Grains; Locat (Moist) (Moist) not presen Redox d Matrix	is deepe onfirm the tion: PL=Po Mottle %	er in nearby are e absence of in ore Lining, M=Matr es Type	Location	MMI FSL LS <u>Indicators</u> A9 - 1 cm M A16 - Coast	for Problemati fuck (LRR I, J) t Prairie Redox	ral <u>c Soils¹</u> (LRR F, G, H)				
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-157n47w16-c6				
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	S Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)				
3.	l								
4.					Total Number of Dominant Species Across All Strata: 1 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. <u>110</u> \times 1 = <u>110</u>				
	Total Cover =	0			FACW spp. 10 $\times 2 = 20$				
					FAC spp.0x3 =0FACU spp.0x4 =0				
	Stratum (Plot size: 15 ft. radius)				$ FACU \text{ spp.} 0 \qquad x 4 = 0 $				
1.					UPL spp. 0 $x 5 = 0$				
2.									
3.					Total(A)(B)				
4.									
5.					Prevalence Index = B/A = <u>1.083</u>				
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) *				
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Lemna minor	85	Y	OBL					
2.	Sagittaria latifolia	20	N	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Phalaris arundinacea	10	N	FACW					
4.	Alisma triviale	5	N	OBL	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.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	120							
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks:	The oxbow is dominated by duckweed. Wate	r arrowhea	ad and ree	ed canary	grass are prevalent.				
Additional F	Remarks:								