WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	•									Date: 08/02/14		
	Applicant: Enbridge				0.1	/N 41 D A	County: Marshall					
	nvestigators: NTT/KRG			Subregion (MLRA or LRR): MLRA 56						State: MN		
Soil Unit:	I15A			_	sool Doliefu		Classification			Compute Deight, w 155p15w7 b1		
Landform: Slope (%):	Depression 3 - 7%		Latitude: 48.2		cal Relief: Longitude:		091	Datum:		Sample Point: w-155n45w7-b1		
. ,		nditions on the site			_			✓ Patum.	□ No	Section:		
Are Vegetation				y disturbed?	ar: (irrio, expi		e normal circun			Township:		
Are Vegetation			□aturally pr	•		Ale	⊬ normal circuit		esent:	Range: Dir:		
SUMMARY C			chatterally pro	obiematic:			E 163	□ 1 10		ixange.		
			Yes					Hydric Soi	Is Present?) Yes		
Hydrophytic Vegetation Present? Wetland Hydrology Present?					_					nt Within A Wetland? Yes		
			Yes vet meadow	that carries	through a g	razed ca	attle pasture. T			ed by Phalaris arundinacea and Carex bebb		
	THE WORLD			mar carries	an odgir d g		attio paotaro	no monana	io dominato	sa sy . Harano aramanassa ama sarsh sess		
HYDROLOG'	Υ											
		inatara (Chaalaall t	bot opply: N	linimum of on	a primary	or two oc		rod\.				
Primary:		icators (Check all t	nat apply; iv	linimum of or	ne primary o	or two se	econdary requi	rea):	Secondary:			
	<u>.</u>	Water		П	B11 - Salt C	Crust				<u>-</u> B6 - Surface Soil Cracks		
✓	A2 - High Wa				B13 - Aquat					B8 - Sparsely Vegetated Concave Surface		
✓	A3 - Saturation				C1 - Hydrog			B10 - Drainage Patterns				
	B1 - Water M				C2 - Dry Se		C3 - Oxidized Rhizospheres on Living Roots (tille					
	B2 - Sedimen	•					spheres on Living	Roots (not till	lŧ 📙	C8 - Crayfish Burrows		
	B3 - Drift Dep B4 - Algal Ma			 □ C4 - Presence of Reduced Iron □ C7 - Thin Muck Surface □ D2 - Geomorphic Position 								
	B5 - Iron Dep				Other (Explanation		.00		<u></u>	D5 - FAC-Neutral Test		
		n Visible on Aerial Ima	igery		` '	,				D7 - Frost-Heaved Hummocks (LRR F)		
	B9 - Water-St	tained Leaves										
Field Observ												
Surface Wate		Yes □	Dept		_ (in.)			Wetland F	lydrology l	Present? Y		
Water Table		Yes ☑	Dept		_ (in.)				.,	——————————————————————————————————————		
Saturation Pr	resent?	Yes ☑	Dept	h: <u> </u>	_ (in.)							
Describe Reco	orded Data (s											
	oraca bata (c	stream gauge, monito	oring well, ae	rial photos, pr	revious inspe	ections),	if available:					
Remarks:	•	stream gauge, monitor is saturated at the			•	, ·						
Remarks:	•				•	, ·						
Remarks:	The wetland	d is saturated at the	surface and	d has a high v	water table	at 10 inc	ches.					
Remarks: SOILS Profile Descri	The wetland	d is saturated at the	surface and	has a high was	water table	at 10 inc	ches. e absence of ir					
Remarks: SOILS Profile Descri	The wetland	d is saturated at the	surface and	has a high was	water table	at 10 inc	ches. e absence of ir					
Remarks: SOILS Profile Descri	The wetland	d is saturated at the be to the depth nee etion, RM=Reduced Mat	surface and	has a high was	water table	at 10 inc	ches. e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	d is saturated at the be to the depth nee etion, RM=Reduced Mat	eded to docu	d has a high was a hig	water table icator or co	at 10 inconfirm the fon: PL=Po	ches. e absence of increase Lining, M=Matr	ix)	Teyture	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	eded to docu	thas a high was a high	water table icator or co	at 10 inc	ches. e absence of ir ore Lining, M=Matr		Texture	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	The wetland Iption (Descriptration, D=Depl	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	eded to docu	ment the ind	water table icator or co	at 10 inconfirm the fon: PL=Po	ches. e absence of increase Lining, M=Matr	ix)	Texture S	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	eded to docu	ment the ind	water table icator or co	at 10 inconfirm the fon: PL=Po	ches. e absence of increase Lining, M=Matr	ix)	Texture S S	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	The wetland Iption (Descriptration, D=Depl	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1	eded to docu	ment the ind	water table icator or co	at 10 inconfirm the fon: PL=Po	ches. e absence of increase Lining, M=Matr	ix)	Texture S S	Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	The wetland ption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth nee etion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (che	surface and eded to docurix, CS=Covered 100	color (icator or co Grains; Locati (Moist) not present	nfirm the	e absence of incre Lining, M=Matr	Location	Indicators f A9 - 1 cm M	for Problematic Soils ¹ Muck (LRR I, J)		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w7-b1				
VEGETATIO		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 spp55				
	Total Cover =	0			FACW spp. 25 $\times 2 = 50$				
					FAC spp. $\underline{\qquad}$ $x 3 = \underline{\qquad}$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				OBL spp. 55				
1.					UPL spp. $\underline{\qquad}$ $x = \underline{\qquad}$				
2.									
3.					Total <u>80</u> (A) <u>105</u> (B)				
4.									
5.					Prevalence Index = B/A = 1.313				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					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.	Carex bebbii	40	Υ	OBL					
2.	Phalaris arundinacea	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Schoenoplectus tabernaemontani	15	N	OBL	present, unless disturbed or problematic.				
4.	Poa palustris	10	N	FACW	Definitions of Vegetation Strata:				
5.	- Ca paraetric			171011					
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.					Capining/Official - 17 coasy planted lead was 10 mm 2 2 mg 10 gardiness of thoughts				
11.									
					Herb - All herbaceous (non-woody) plants, regardless of size.				
12.					Helb - / III herbacoods (herr weedy) plante, regardless of size.				
13.	1								
14.					Moody Vince All woody vince regardless of height				
15.	T : : : :	00			Woody Vines - All woody vines, regardless of height.				
	Total Cover = _	80	_						
	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?Y				
5.									
4.									
	Total Cover =	0							
Remarks: The wetland is dominated by Carex bebbii and Phalaris arundinacea. Part of the area is bare soil.									
Additional Remarks:									