WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/22/14	
Applicant:		Enbridge			.	(A 41 D)		1415450		County:	Marshall	
Investigators		BJC/NTT/BEH			_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I24A			_	D - 1: - 6:		I Classification	:			4FFm 400 :4	
Landform:	Dip 0 - 2%		1 04:4		cal Relief:		2707	Detum		Sample Point:	w-155n46w2-j1	
Slope (%):		onditions on the site	Latitude: 48.2		Longitude			Datum:	□ No	Section:		
Are Vegetation		□, or Hydrology			ar: (ii iio, ex		e normal circun			Township:		
Are Vegetation		□, or Hydrology	□aturally pr	•			e normal circuit ☑ Yes		CSCIII:	Range:	Dir:	
SUMMARY C			Hatarany pr	obiematie:			E 163	- 110		range.	Dii.	
Hydrophytic '			Yes					Hydric Soi	Is Present?	Yes		
Wetland Hyd	•		Yes		-					nt Within A W	etland? Yes	
Remarks:		d is a shallow mars		by hybrid cat	tail. It is lo	cated in	a dip within a h				ollaria. 199	
								,		and grown		
HYDROLOG	Υ											
		icators (Check all	that apply: N	linimum of or	e nrimary	or two s	econdary requi	rad):				
Primary	•	icators (Check all	triat apply, iv	ili ili ili di di	e primary	or two s	econdary requi	ieu).	Secondary			
<u>- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	A1 - Surface	Water			B11 - Salt	Crust				<u>.</u> B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Su	urface
	A3 - Saturation				C1 - Hydro					B10 - Drainage		5 . (:111 1)
	B1 - Water M B2 - Sedimer				C2 - Dry S		ater Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living	g Roots (tilled)
	B3 - Drift Dep	•					educed Iron	Noots (not till			า Visible on Aerial Imag	gerv
	B4 - Algal Ma				C7 - Thin N				✓	D2 - Geomorp		90.9
	B5 - Iron Dep				Other (Exp	olain)			✓	D5 - FAC-Neu		
		on Visible on Aerial Im	agery							D7 - Frost-Hea	aved Hummocks (LRR	F)
	B9 - water-S	tained Leaves										
Field Obser	vations:											
		Vac = □	Dont	. .	(in)							
Surface Wat		Yes □ Yes □		h:	_ (in.) _ (in.)			Wetland F	Hydrology	Present?	Υ	
Water Table		Yes □ Yes □	•	h:	- (in.) - (in.)							
			<u> </u>		<u> </u>							
	<u> </u>	stream gauge, moni	toring well, ae	rial photos, pr	<u> </u>	ections)	, if available:					
Describe Rec	<u> </u>		toring well, ae	rial photos, pr	<u> </u>	pections)	, if available:					
Remarks:	<u> </u>	stream gauge, moni	toring well, ae	rial photos, pr	<u> </u>	pections)	, if available:					
Remarks:	The wetland	stream gauge, moni	toring well, ace	erial photos, pr ation.	- evious insp	ŕ		adicators)				
Remarks: SOILS Profile Descri	The wetland	stream gauge, moni	toring well, ace	erial photos, pration.	evious insp	onfirm th	ne absence of ir					
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Remarks: SOILS Profile Descri	The wetland	stream gauge, moning shows signs of periods to the depth neetion, RM=Reduced Market street and stre	toring well, ace	erial photos, pration.	evious insp	onfirm th	ne absence of in Pore Lining, M=Mati					
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	stream gauge, monited shows signs of period in the depth network the depth network that the depth network the depth netwo	toring well, aceriodic inund	erial photos, pration. Iment the indicad/Coated Sand	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Mati	rix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	stream gauge, monitoring shows signs of period shows signs of period shows the depth neetion, RM=Reduced Matrix Color (Moist)	toring well, aceriodic inunded	erial photos, pration. Iment the indicad/Coated Sand Color (evious insp cator or co Grains; Loca	onfirm th	ne absence of in Pore Lining, M=Mati		Texture	Loamy	Remarks	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w2-j1
-					•
VEGETATION	、 .	e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species Hairie</u>	<u> 70 00001</u>	Dominant	<u>ma.otatas</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (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: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cover				OBL spp. $\frac{70}{1000} \times 1 = \frac{70}{1000}$
	Total Cover =	0	_		FACW spp. $\frac{15}{2}$ $\times 2 = \frac{30}{2}$
Conling/Chrub (Stratum (Diot cize: 15 ft radius)				FACW spp. 15 x z
1.	Stratum (Plot size: 15 ft. radius)				UPL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					
3.					Total 95 (A) 140 (B)
4.					
5.					Prevalence Index = B/A = 1.474
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					XDominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *
1.	Typha X glauca	70	Y	OBL	
2.	Phalaris arundinacea	10	N	FACW	-
3.	Cirsium arvense	10	N	FACU	<u> </u>
4. 5.	Symphyotrichum lanceolatum	5	N	FACW	Definitions of Vegetation Strata:
6					Tree - Woody plants 2 in (7 Com) or more in diameter at broadt
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast 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 =	95			
Woody Vine Sti	ratum (Plot size: 30 ft. radius)				
1.				_	
2.					Hadron bed's Wassetstian Brazanto.
3.					Hydrophytic Vegetation Present?Y
5.					
4.	Total Cover =	0			
Remarks:	The wetland sample point is dominated by h		 iI		
Nemarks.	The welland sample point is dominated by it	ybrid Callai			
Additional R	lemarks:				
Additional R	Ciliai No.				