WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/25/14	
Applicant:	Enbridge									County:	Marshall	
Investigators				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	<u>I18A</u>					NWI Classification:						
Landform:	Depression		40.4		cal Relief:		- 4			Sample Point:	w-154n45w2-c1	
Slope (%):	3 - 7%	عاد و ما دو و موانا	Latitude: 48.19			-96.40395		Datum:				
		nditions on the site			If ! (If no, exp				□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are n	normal circun	-	esent?	Township:		
Are Vegetation		□, or Hydrology	Daturally pro	oblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C									L D	V		
Hydrophytic \			Yes		-				ls Present?		(I. 10. V.)	
Wetland Hyd			Yes			11 1 1				t Within A We		
Remarks:				ders a seasor	ally-floode	ed basın th	at is located	within a farr	med soybea	an field. The v	egetation is dominated by r	red-
		ood and a mix of se	edges.									
HYDROLOG'	Y											
Wetland Hy	drology Indi	icators (Check all	I that apply; M	inimum of on	e primary	or two seco	ondary requi	red):				
Primary:	<u>:</u>							,	Secondary:			
	A1 - Surface \				B11 - Salt (B6 - Surface S		
	A2 - High Wat				B13 - Aqua		O al a				/egetated Concave Surface	
	A3 - Saturatio B1 - Water Ma					gen Sulfide C eason Water				B10 - Drainage	Patterns Rhizospheres on Living Roots (t	tillod)
	B2 - Sedimen				•		neres on Living	Roots (not till	€ □	C8 - Crayfish E		.iiieu)
	B3 - Drift Dep	•				nce of Reduc		rtoots (not till	`	•	Visible on Aerial Imagery	
	B4 - Algal Mat			_		/luck Surface			_	D2 - Geomorpl	. .	
	B5 - Iron Dep	osits			Other (Exp	lain)			v	D5 - FAC-Neut		
		n Visible on Aerial Im	nagery			·				D7 - Frost-Hea	ved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Depth	n:	(in.)			Wetland H	lydrology l	Present?	Υ	
Water Table	Present?	Yes □	Depth	n:	(in.)			Wettaria i	iyarology i	riesent:	<u></u>	
Saturation Pr	resent?	Yes □	Depth		/:\							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s		<u> </u>		(in.)	pections), if a	available:					
	<u>`</u>	stream gauge, moni	itoring well, ae	rial photos, pre	evious insp			idecane nos	ition and hy	ydrophytic yec	etation	
Describe Reco	<u>`</u>		itoring well, ae	rial photos, pre	evious insp			ndscape pos	ition and hy	vdrophytic veg	etation.	
Remarks:	<u>`</u>	stream gauge, moni	itoring well, ae	rial photos, pre	evious insp			ndscape pos	ition and hy	vdrophytic veg	etation.	
Remarks:	No primary	stream gauge, moni hydrology indicato	itoring well, ae ors are presen	rial photos, pre t. Wetland hy	evious insp drology is	assumed b	based on lan		ition and hy	/drophytic veg	etation.	
Remarks: SOILS Profile Descri	No primary	stream gauge, moni	itoring well, ae ors are presen	rial photos, pret. Wetland hy	evious insperdrology is	assumed bonfirm the a	based on lan	ndicators.)	ition and hy	vdrophytic veg	etation.	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Muc	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, ae ors are present eeded to doculatrix, CS=Covere % 100 90 neck here if ince	rial photos, prett. Wetland hy ment the indid d/Coated Sand C Color (I Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) 6/8 oot present edox Matrix lucky Minera eleyed Matrix leyed Matrix ark Surface Dark Surface pressions	assumed to the action: PL=Pore Mottles 10 t):	absence of in Elining, M=Matr	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	for Problematic luck (LRR I, J) Prairie Redox (furface (LRR G) Plains Depression feed Vertic Parent Material Shallow Dark Stain in Remarks)	Remarks Soils¹ LRR F, G, H) ns (LRR H, outside MLRA 72, 73) urface	esent,
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n45w2-c1
VEGETATIO		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: 4 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 4 (B)
	_				Total Number of Dominant Species Across All Strata(D)
5.					100 00((4)(D)
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. 35 $\times 1 = 35$
	Total Cover =	0			OBL spp. 35
			_		FAC spp. $0 \times 3 = 0$
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACILIEDD V 4 - 0
		50		FACW	1 ACO spp.
1.	Cornus alba	50	I	1 7011	ΟΕΕ δρρ. <u> </u>
2.					T
3.					Total 150 (A) 265 (B)
4.					
5.					Prevalence Index = B/A =
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	 				X Dominance Test is > 50%
10.	_l Total Cover =	50			
	i otai Cover =	50			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex tenera	40	Y	FACW	
2.	Carex pellita	25	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Phalaris arundinacea	20	Υ	FACW	present, unless disturbed or problematic.
4.	Anemone canadensis	5	N	FACW	Definitions of Vegetation Strata:
5.	Typha angustifolia	5	N	OBL	
6		5	N	OBL	Tree - Was discussed a fig. (7 Care) as secure in diameter at bases.
	Eleocharis palustris	<u> </u>	11	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Holghi (BBH), regardless of Holghi.
8.					B. W. W. Labert Land I. B.
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.
13.	T-1-1 O-1	400			TTOOUY TINES
	Total Cover =	100			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
7.	Total Cover =	0			
Domorko			wood with a	andana ar	d rood capary grass
Remarks:	The wetland vegetation is dominated by red-	osiei dogv	vood with S	seuges an	u reeu canary grass.
Additional F	Remarks:				