WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/22/14	
Applicant:		Enbridge				.	(A.41. D.4				County:	Marshall	
Investigators		NTT/BEH/BJC				Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	165A				1 -	D-1:-4:		I Classification:				455400 :4	
Landform:	Talf 0 - 2%		Latitude: 48.	2724		cal Relief:		2000	Dotum		Sample Point:	w-155n46w2-i1	
Slope (%):		onditions on the site				Longitude			Datum: ☑ Yes	□ No	Section:		
Are Vegetation						ai: (II IIO, ex	1	e normal circun			Township:		
Are Vegetation		l □, or Hydrology	□aturally p	-				e normal circuit □ Yes	□ No	536111:	Range:	Dir:	
SUMMARY C			Diatarany p	JIODIC	citiatio:			103	□ N0		range.	DII.	
Hydrophytic '			No						Hydric Soi	ls Present?	No		
Wetland Hyd	•		No			-					t Within A W	etland? No	
Remarks:		point is located in			ield. Domi	nant vege	tation inc	cludes Kentucky					
		, , , , , , , , , , , , , , , , , , , ,							, ara grace	,	,		
HYDROLOG	Υ												
		icators (Check all	that apply:	Minin	mum of on	o primary	or two s	econdary requi	rod):				
Primary		icators (Check all	шасарріу,	IVIII III	nun or or	e pililiary	OI two S	econdary requi	eu).	Secondary:			
<u> </u>	A1 - Surface	Water				B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa					B13 - Aqua						Vegetated Concave Su	urface
	A3 - Saturation					C1 - Hydro					B10 - Drainage		5
	B1 - Water M B2 - Sedimer					C2 - Dry S		ater Table spheres on Living	Poots (not till	, –	C3 - Oxidized C8 - Crayfish B	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	nagery								D7 - Frost-Hea	aved Hummocks (LRR	(F)
	B9 - water-S	tained Leaves											
Field Obser	vations:												
		Vaa 👨	Do			(in)							
Surface Wat		Yes □ Yes □		pth:		_ (in.)			Wetland F	lydrology	Present?	N	
Water Table				pth:		(in.)							
Saturation Present? Yes Depth: (in.)													
			· · · · · · · · · · · · · · · · · · ·			<u> </u>							
	•	stream gauge, moni		aerial	photos, pr	<u> </u>	ections),	, if available:					
Describe Rec	•	stream gauge, moni- hydrology indicato		aerial	photos, pr	<u> </u>	pections),	, if available:					
Remarks:	•			aerial	photos, pr	<u> </u>	ections),	, if available:					
Remarks:	No wetland	hydrology indicato	ors are pres	aerial ent.		evious insp			dicators \				
Remarks: SOILS Profile Descri	No wetland	hydrology indicato	eeded to doo	ent.	ent the indi	evious insp	onfirm th	e absence of in					
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Remarks: SOILS Profile Descri	No wetland	hydrology indicato	eeded to doo	ent.	ent the indi	evious insp	onfirm th	e absence of in Pore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma	eeded to doc atrix, CS=Cove	ent.	ent the indi	evious insp cator or co Grains; Loca	onfirm th	ne absence of in Pore Lining, M=Matr		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doo atrix, CS=Cove	ent. cume ered/Co	ent the indi	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)			Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	No wetland iption (Description, D=Dep	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1	eeded to docatrix, CS=Cove	ent. cume ered/Co	ent the indicated Sand	cator or cograins; Loca Moist) not present	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	Location	CL FSL	or Problemation	·	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No wetland iption (Description, Dependent of the Intration, Dependent of the Intration	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to docatrix, CS=Cove	ent. cume ered/Co	Color (ators are r	cator or cograins; Loca Moist) not presented a matrix	Mottl %	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to docatrix, CS=Cove	ent. cume ered/Co indica Si Si	Color (ators are r 5 - Sandy R 6 - Stripped 1 - Loamy N	cator or cograins; Loca Moist) Moist) not presented a Matrix Mucky Miner	mottl Mottl // // // // // // // // // // // // /	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w2-i1
					•
VEGETATIO	N (Species identified in all uppercase a	are 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: 0 (A)
3.					
4.	<u></u>	-			Total Number of Dominant Species Across All Strata: 4 (B)
5.		1			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.		1			(742)
8.	<u></u>	1			Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0
	Total Cover :	=0	FACW spp. $0 \times 2 = 0$		
					FAC spp. $0 \times 3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. <u>80</u> X 4 = <u>320</u>
1.					UPL spp. 20 $x = 5$ $5 = 100$
2.					
3.					Total 100 (A) 420 (B)
4.					
5.					Prevalence Index = B/A = 4.200
6.					
7.		-			
8.		1			Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	 Total Cover :	= 0			Prevalence Index is ≤ 3.0 *
	Total Gover -				
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Poa pratensis	30	Y	FACU	
2.	Phleum pratense	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Bromus inermis	20	Y	UPL	present, unless disturbed or problematic.
4.	Elymus repens	20	Y	FACU	Definitions of Vegetation Strata:
5.	Cirsium arvense	10	N	FACU	
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.
		1			rier b - 7 in Horbacocae (Hori Woody) plants, regardloss of oize.
13.	1			-	
14.					Manada Minana All woody vince recording of bright
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover :	= 100			
Woody Vine St	ratum (Plot size: 30 ft. radius)	=			
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	T				
· · ·	Total Cover :	= 0			
Remarks:			d and domi	inated by	Kentucky blue grass, timothy, smooth brome, and creeping wild rye.
remarks.	The upland vegetation is consistent tillough	lout the net	a and dom	mated by	remacky blac grass, amount, smooth brome, and creeping what ye.
	_				
Additional F	Remarks:				