WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/27/14	
Applicant:		Enbridge								County:	Kittson	
Investigators	3 :	BCS/BEH			Subregion	n (MLRA o	r LRR):	MLRA 56		State:	MN	
Soil Unit:	I258A NWI Classification:											
Landform:	Talf				cal Relief:	LL				Sample Point:	u-160n50w9-b2	
Slope (%):	0 - 2%		Latitude: 48	3.69343917		-98.10632	218333	Datum:		1		
		nditions on the site						⊡Yes	□No	Section:		
		or Hydrology			ar: (II IIO, exp		normal circum					
Are Vegetati				ntly disturbed?		Alen		•	esent	Township:		
Are Vegetati		☐ or Hydrology	L aturally	problematic?			Yes	□No		Range:	Dir:	
SUMMARY (
Hydrophytic '	Vegetation P	resent?	No)				Hydric Soi	Is Present?	No		
Wetland Hyd	drology Prese	nt?	No)	_			Is This Sar	mpling Poin	t Within A W	etland? No	
Remarks:		sample point is lo	cated at the	e boundary of a	tilled agric	ultural whe	eat field and	he upland	edge of a fo	rested floodp	lain.	
				, ,	3				3			
LIVEROL OC	· ·											
HYDROLOG	Υ											
Wetland Hy	drology Ind	icators (Check all	I that apply:	Minimum of or	ne primary o	or two sec	ondary requi	red):				
Primary		•			. ,		, ,	,	Secondary:			
	A1 - Surface	Nater			B11 - Salt C	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa	ter Table			B13 - Aquat	tic Fauna				B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturation	n			C1 - Hydrog					B10 - Drainage Patterns		
	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Ro	ots (tilled)
	B2 - Sedimen						neres on Living	Roots (not till		C8 - Crayfish E		
	B3 - Drift Dep										Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin M		е			D2 - Geomorp		
	B5 - Iron Dep			ш	Other (Expl	lain)				D5 - FAC-Neut		
	B9 - Water-S	n Visible on Aerial Im	nagery							D7 - Frost-Hea	ved Hummocks (LRR F)	
"	b9 - Waler-S	allieu Leaves										
Field Obser	vations:											
Surface Wat	er Present?	Yes \square	De	pth:	(in.)			Wetlend L	ludralamı I	Dracant?	NI .	
Water Table	Present?	Yes \square	De	pth:	(in.)			welland F	lydrology I	Present?	N	
Saturation P	resent?	Yes			(in.)						_	
Saturation Present? Yes Depth: (in.)												
				· 	_ ` ′							
		stream gauge, moni	itoring well,	aerial photos, p	revious insp		available:					
			itoring well,	aerial photos, p	revious insp		available:					
Describe Rec		stream gauge, moni	itoring well,	aerial photos, p	revious insp		available:					
Describe Rec		stream gauge, moni	itoring well,	aerial photos, p	revious insp		available:					
Describe Rec Remarks:	No primary	stream gauge, moni	itoring well, and hydrolo	aerial photos, pi ogy indicators w	revious inspo vere observ	ved.		dicators.)				
Describe Rec Remarks: SOILS Profile Descri	No primary	stream gauge, moni or secondary wetla	itoring well, and hydrolo	aerial photos, pogy indicators w	revious inspo vere observ	ved.	absence of in					
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, and hydrolo eeded to do atrix, CS=Cov	acrial photos, progy indicators vicument the indicated/Coated Sand	revious inspr vere observ icator or co Grains; Locati	onfirm the a	absence of in a Lining, M=Matr		Texture		Remarks	
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-17 17-20 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2.5/1 Indicators (ch	eeded to do atrix, CS=Cov	cument the independence of the control of the contr	icator or co Grains; Locati (Moist) not present	Mottles % tt):	absence of in e Lining, M=Matr : Type	Location	SIC SIC Indicators f A9 - 1 cm M A16 - Cost F	uck (LRR I, J) Prairie Redox (L	· Soils¹	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w9-b2				
VEGETATION (Species identified in all uppercase are non-native species.)									
Tree Stratum (Plot size: 30 ft. radius)								
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Fraxinus pennsylvanica	10	Υ	FAC					
2.	Quercus macrocarpa	5	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC:(A)				
3.	Ulmus alata	2	N	FACU					
4.					Total Number of Dominant Species Across All Strata: 4 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
	Total Cover =	17			FACW spp. 0 x 2 = 0				
	-		_		FAC spp. 10 x 3 = 30				
Sanling/Shruh S	Stratum (Plot size: 15 ft. radius)				FACU spp. 11 x 4 = 44				
1.	oracam (Fiot 6/26. To it. radias)				UPL spp. 65 x 5 = 325				
2.					5 5FF				
3.					Total 86 (A) 399 (B)				
4.					1. Stall 00 (F1) 000 (D)				
5.	1				Prevalence Index = B/A = 4.640				
6.					Prevalence Index = B/A = 4.640				
7.					Hisduanhistia Vanatatian Indiantaua				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	30	Υ	UPL					
2.	Triticum aestivum	25	Υ	NI	* Indicators of hydric soil and wetland hydrology must be				
3.	Leonurus cardiaca	10	N	NI	present, unless disturbed or problematic.				
4.	Cirsium arvense	2	N	FACU	Definitions of Vegetation Strata:				
5.	Asclepias subverticillata	2	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.				
13.				_					
14.				_					
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	69							
	Total Cover -	08	_						
Woody Vino Ctr	ratum (Plot size: 30 ft. radius)								
1.	atum (1 101 SIZE. 30 II. Taulus)								
2.									
				_	Hydronhytia Vagatation Procest?				
3.				_	Hydrophytic Vegetation Present?N				
5.				_					
4.	7.10			_					
	Total Cover =	0							
Remarks:	The upland sample point is dominated by sm	ooth brom	e and cult	ivated whe	eat.				
Additional R	emarks:								