WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/12/14	
Applicant:		Enbridge								County:	Pennington	
Investigators		MRK/BEH/RAJ			_Subregio	n (MLRA or	,	MLRA 56		State:	MN	
Soil Unit:	I19A			<u> </u>			lassification	:				
Landform:	Talf				ocal Relief:					Sample Point:	u-154n45w25-f1	
Slope (%):	0 - 2%	. P.C	Latitude: 48.			-96.37087		<u>Datum:</u>				
		nditions on the site			ar? (If no, exp			✓ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•	•		Are no	ormal circur	-		Township:		
Are Vegetation		, ,	Daturally p	roblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C									L D 10	N		
Hydrophytic \	•		No		_				Is Present?		- (110 No	
Wetland Hyd			No No	afialalalamain.	-tl b	tlc b	a a a al la inalla d		mpling Poin	t Within A W	etland? No	
Remarks:	rne upiano	sample point is lo	cated in a n	ay neid domina	ated by Sm	ooth brome	e and bird s-i	ioot treioii.				
HVDDOLOG	V											
HYDROLOG												
Wetland Hy	drology Ind	icators (Check all	I that apply;	Minimum of or	ne primary	or two seco	ondary requi	red):				
Primary:	_			_	544 6 14	•			Secondary:	Do 0 (0	" •	
	A1 - Surface A2 - High Wa				B11 - Salt (B13 - Aqua					B6 - Surface S	o⊪Gracks ⁄egetated Concave Surface	0
	A3 - Saturation				•	gen Sulfide C	Odor			B10 - Drainage		7
	B1 - Water M			_		eason Water					Rhizospheres on Living Roc	ots (tilled)
	B2 - Sedimer	•					eres on Living	Roots (not till	le 🗆	C8 - Crayfish E		, ,
	B3 - Drift Dep					nce of Reduc					Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep				Other (Exp	Nuck Surface)			D2 - Geomorph D5 - FAC-Neut		
		osits on Visible on Aerial Im	nagery		Other (Exp	iairi)					ived Hummocks (LRR F)	
		tained Leaves	.a.go.y						_	2	(,	
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Dep	oth:	(in.)			\Matland L	luduala au r]racant2	N I	
Water Table	Present?	Yes □	Dep	oth:	(in.)			wetiand r	lydrology F	resent?	N	
Saturation Pr	resent?	Yes □	Dep	oth:	_ (in.)							
L Describe Reco	orded Data (s	stream gauge, moni	itoring well, a	erial photos, p	evious insp	ections), if a	available:					
	<u>`</u>	stream gauge, moni				ections), if a	available:					
Remarks:	<u>`</u>	stream gauge, moni or seconday hydro				pections), if a	available:					
Remarks:	<u>`</u>					pections), if a	available:					
Remarks:	No primary		ological indic	cators were ob	served.	·		ndicators.)				
Remarks: SOILS Profile Descri	No primary	or seconday hydro	ological indice	cators were ob	served.	onfirm the a	absence of ir					
Remarks: SOILS Profile Descri	No primary	or seconday hydro be to the depth ne etion, RM=Reduced Ma	ological indice	cators were ob	served.	onfirm the a	absence of ir Lining, M=Mati					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or seconday hydro be to the depth ne etion, RM=Reduced Ma Matrix	eeded to doc atrix, CS=Cove	cument the indered/Coated Sand	served. icator or co	onfirm the a tion: PL=Pore Mottles	absence of ir Lining, M=Mati	rix)				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or seconday hydro be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cove	cument the indered/Coated Sand	served.	onfirm the a	absence of ir Lining, M=Mati		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-14	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	or seconday hydro be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eeded to doc atrix, CS=Cove	cument the indered/Coated Sand Color (000)	icator or co Grains; Locat	Mottles	absence of ir Lining, M=Mati	Location	SICL COS	or Problematic		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-14 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol	or seconday hydro be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to doc atrix, CS=Cove	cument the indered/Coated Sand Color (Color	icator or co Grains; Locat (Moist)	Mottles	absence of ir Lining, M=Mati	Location	SICL COS Indicators f	uck (LRR I, J)	: Soils ¹	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n45w25-f1
VEGETATIO	N (Species identified in all uppercase	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:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp5 x 1 =5
	Total Cover	= 0	OBL spp. $\frac{5}{5}$ $x = \frac{5}{10}$ FACW spp. $\frac{5}{5}$ $x = \frac{5}{10}$		
					FAC spp. $\frac{25}{3}$ $\times 3 = \frac{75}{5}$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 55 x 4 = 220
1.					UPL spp40
2.					
3.					Total 130 (A) 510 (B)
4.					
5.					Prevalence Index = B/A = 3.923
6.					
7.					
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 (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	40	Υ	UPL	
2.	Lotus corniculatus	35	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Cirsium arvense	20	 N	FACU	present, unless disturbed or problematic.
4.	Solidago gigantea	15	N	FAC	Definitions of Vegetation Strata:
5.	Sonchus arvensis	10	N	FAC	
6	Symphyotrichum lanceolatum	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Carex granularis	5	N	OBL	height (DBH), regardless of height.
8.	Carox grandans	1		- 002	
9.	<u> </u>				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					Supinity Sin ab
11.	1				
12.	1				Herb - All herbaceous (non-woody) plants, regardless of size.
13.	<u> </u>	1			TICID
14.	<u> </u>				
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cause	400			Woody Villes - All Woody Villes, Tegardiess of Height.
	Total Cover	= 130	_		
144 1 17 0	(7)				
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					H. Joseff, d'a Was adadha a Basana at O M
3.					Hydrophytic Vegetation Present?N
5.					
4.					
<u> </u>	Total Cover				
Remarks:	The upland sample point is dominated by s	smooth brom	e and bird	's-foot tre	foil.
Additional R	Remarks:				
Ī					