WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14	
Applicant:		Enbridge								County:	Pennington	
Investigators	5 :	MRK/OTG			_Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I9A			<u></u>			Classification	:				
Landform:	Talf				cal Relief:					Sample Point:	u-153n43w29-d1	
Slope (%):	0 - 2%		Latitude: 48.0			-96.2133		Datum:				
Are climatic/l		onditions on the site			ar? (If no, exp			Yes	□ No	Section:		
Are Vegetation		l ☑, or Hydrology		ly disturbed?		Are	normal circur	nstances pr	esent?	Township:		
Are Vegetation		l □, or Hydrology	□aturally pr	oblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C	OF FINDING	S										
Hydrophytic '	Vegetation P	resent?	No		_			Hydric Soi	Is Present?	Yes		
Wetland Hyd	drology Prese	ent?	No					Is This Sa	mpling Poin	t Within A W	etland? No	
Remarks:	The upland	sample point is loc	cated in a cu	Itivated wheat	field.							
HYDROLOG	Υ											
		icators (Check all	that apply: N	Ainimum of on	o primary	or two co	econdary roqui	rod):				
Primary		icators (Check all	ттат арргу, к	All lill lill of Of	e primary	or two se	condary requi	reu).	Secondary:			
	A1 - Surface	Water		П	B11 - Salt (Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surfac	e
	A3 - Saturation				C1 - Hydro		e Odor			B10 - Drainage		
	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Ro	ots (tilled)
	B2 - Sedimer	•					pheres on Living	Roots (not till	lŧ 🗀	C8 - Crayfish I		
	B3 - Drift Dep				C4 - Prese						n Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin N Other (Exp		ce			D2 - Geomorp D5 - FAC-Neu		
		on Visible on Aerial Im	nagery		Other (Lxp	iaii)					aved Hummocks (LRR F)	
		tained Leaves	.a.go.y						_	2	(2)	
Field Observ	vations:											
Surface Wat		Yes □	Dent	h:	(in.)							
Water Table		Yes		:h:	(in.)			Wetland F	lydrology ∣	Present?	N	
Saturation P		Yes \square	Dept		_ (in.)							
	I GOGIII :											
			<u> </u>		<u> </u>							
	orded Data (stream gauge, moni	itoring well, a	erial photos, pr	evious insp	ections), i	if available:					
	orded Data (itoring well, a	erial photos, pr	evious insp	ections), i	if available:					
Describe Rec	orded Data (stream gauge, moni	itoring well, a	erial photos, pr	evious insp	ections), i	if available:					
Describe Reconstruction Remarks:	orded Data (s No primary	stream gauge, moni or secondary hydro	itoring well, ac	erial photos, pr cators were ob	evious insposerved.							
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descr	stream gauge, monior secondary hydro	itoring well, action of the cological indicates the cological indicates the cological to document of the cological indicates the color indicates the c	erial photos, pr cators were ob ument the indi	evious insposerved.	onfirm the	e absence of ir					
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Describe Recordance Remarks: SOILS Profile Descripore Carres Car	iption (Description, Depoint Description) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	stream gauge, monitor secondary hydrouse ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/1 Indicators (characters) Sipedon Stic (Characters) August (LRR F) Cok (LRR FGH) Cok (LRR FGH) Cod Below Dark Surface (LRR Surface) Court Surface (LRR Surface) County Peat or Peat (LRR Leyed Matrix)	eeded to docuatrix, CS=Cover	cators were obtained/Coated Sand Color (COC) Hue_10YR Adicators are respectively a company of the company of	evious insposerved. cator or cograins; Locat Moist) 5/6 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface Dark Surface Depressions ains Depres	Mottle % 5 t):	e absence of incre Lining, M=Materials SType C C RA 72, 73 of LRE	Location	CL SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	be present,
Describe Recordance Remarks: SOILS Profile Descripation (Type: C=Concerdance) Depth (In.) 0-15 15-20 20-26 NRCS Hydr	iption (Description, Depoint Description), Depoint Description, Depoint Depoint Description, Depoint D	stream gauge, monitor secondary hydrouse ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/1 Indicators (characters) Sipedon Stic (Characters) August (LRR F) Cok (LRR FGH) Cok (LRR FGH) Cod Below Dark Surface (LRR Surface) Court Surface (LRR Surface) County Peat or Peat (LRR Leyed Matrix)	eeded to docuatrix, CS=Cover	cators were obtained/Coated Sand Color (COC) Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy CC F3 - Depleted F6 - Redox CC F7 - Depleted F8 - Redox CC F8 - Redox CC F8 - Redox CC	evious insposerved. cator or cograins; Locat Moist) 5/6 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface Dark Surface Depressions ains Depres	Mottle % 5 t):	e absence of incre Lining, M=Materials SType C C RA 72, 73 of LRE	Location	CL SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	be present,
Describe Recordance Remarks: SOILS Profile Descripore Carres Car	r Type:	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/1 Indicators (characters) ick (LRR FGH) ick (LRR FGH) ick (LRR FGH) ick (LRR FGH) ick Surface lucky Mineral Mucky Peat or Peat (LRED) icky Peat or Peat (LRED)	itoring well, as cological indicated to document at the cological indicated to document at the cological indicated to document at the cological indicated at the cological indicated at the color at the	cators were obtained/Coated Sand Color (COC) Hue_10YR Addicators are respectively a second	evious insposerved. cator or cograins; Locat Moist) 5/6 not present edox Matrix Mucky Minera Gleyed Matrix dark Surface d Dark Surface d Dark Surface depressions ains Depres	Mottle % 5 t):	e absence of incre Lining, M=Mathers Type C RA 72, 73 of LRE	Location M Cil Present?	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks) bydrophytic vegetat red or problematic.	C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-153n43w29-d1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% 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: 1 (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.					ORL spp. 0 × 1 - 0
10.	Total Cover =	0			EACW spp. 0 × 2 = 0
	Total Gover =		_		FAC cpp
Combiner/Obstate	Ctrations (Districts AF ft redicts)		OBL spp. 0		
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{5}{}$ $\times 4 = \frac{20}{}$
1.					OPL spp. 80
2.					
3.					Total <u>85</u> (A) <u>420</u> (B)
4.					
5.					Prevalence Index = B/A = 4.941
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.	Triticum aestivum	80	V	NI	Problem riyurophytic vegetation (Explain)
2.				FACU	* Indicators of hydric soil and wetland hydrology must be
	Trifolium hybridum	5	IN	FACU	present, unless disturbed or problematic.
3.					· · · · · · · · · · · · · · · · · · ·
4.					Definitions of Vegetation Strata:
5.					_
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.
10.	Total Cover =	85			Trocky vines
	Total Cover =		_		
	(D) () (D) () (D) () (D) (D) (D) (D)				
	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?N
5.					
4.					
	Total Cover =	0			
Remarks:	The upland sample point is dominated by cu	Itivated wh	eat.		
Additional I	Romarks:				
Additional	iveillai və.				