WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14	,
Applicant:		Enbridge								County:	Pennington	
Investigators		NTT/BEH			_Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	153A						I Classification	:		↓ _	454 44 66 4	
Landform:	Depression		10.4		cal Relief:		2000			Sample Point	w-154n44w32-c1	
Slope (%):	0 - 2%		Latitude: 48.1		Longitude			Datum:		4		
		nditions on the site			al : (If no, ex	1		☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are	e normal circur ☑ Yes	nstances pro □ No	esent?	Township:	Dire	
Are Vegetation		□, or Hydrology	Haturally pro	bblematic?				□ 140		Range:	Dir:	
Hydrophytic '			Yes					Hydric Soi	ls Present?) Vac		
Wetland Hyd			Yes		-					nt Within A W	etland? Yes	
Remarks:		d is a wet meadow		e edge of a f	ield and d	ominated	h by Carex athe			it vvitimi / vv	cliana: 103	
rtomanto.	The Wolland	a lo a wot moadow	riodated on th	o dago or a r		ommatoc	a by Garox airic	, odeo.				
HYDROLOG	Y											
		inatore (Charle all	Lthat apply: M	inimum of on	o primory	or two o	ooondory roqui	rod\.				
Primary		icators (Check all	i that apply; M	mimum or or	e primary	or two s	econdary requi	rea):	Secondary			
	<u>·</u>	Water			B11 - Salt	Crust			<u>Secondary</u>	<u>·</u> B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua		l				Vegetated Concave Surface)
	A3 - Saturatio				C1 - Hydro					B10 - Drainage		
	B1 - Water Ma				C2 - Dry S			Pooto (not till			Rhizospheres on Living Roo	ts (tilled)
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living educed Iron	Roots (not till	, –	C8 - Crayfish I	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin				✓	D2 - Geomorp	.	
	B5 - Iron Dep				Other (Exp	olain)			✓	D5 - FAC-Neu		
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Obser	vations:											
Surface Wat		Yes □	Donth	•	(in)							
Water Table		Yes □ Yes □	Depth Depth		- (in.) - (in.)			Wetland F	lydrology	Present?	Υ	
Saturation P			•		- : :							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Dagarila a Daga		Yes 🗆	Depth		_ (in.)		if and lable.					
	orded Data (s	stream gauge, moni	itoring well, ae	rial photos, pr	evious insp							
Describe Rec	orded Data (s		itoring well, ae	rial photos, pr	evious insp			omorphic po	osition and	the FAC-Neu	tral test.	
Remarks:	orded Data (s	stream gauge, moni	itoring well, ae	rial photos, pr	evious insp			omorphic po	osition and	the FAC-Neu	tral test.	
Remarks:	orded Data (s	stream gauge, moni hydrology indicato	itoring well, ae	rial photos, pr t. Wetland hy	evious insp drology is	assume	ed based on ge		osition and	the FAC-Neu	tral test.	
Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	stream gauge, moni	itoring well, ael	rial photos, pr	evious insponder of colors or colors	assume	ed based on ge e absence of ir	ndicators.)	osition and	the FAC-Neu	tral test.	
Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	stream gauge, monicaton hydrology indicaton be to the depth neetion, RM=Reduced Market and the street of the stree	itoring well, ael	rial photos, pr	evious insponder of colors or colors	onfirm th	ed based on ge e absence of in ore Lining, M=Mat	ndicators.)	osition and	the FAC-Neu	tral test.	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Depl	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (chain Sulfide Layers (LRR FGH) ck (LRR FGH) cd Below Dark Surface	itoring well, aer ors are presented to document to the content of	rial photos, protect. Wetland hyment the indid/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Hue_10YR Hue_10YR Color (Hue_10YR Hue_10YR Color (Hue_10YR Hue_10YR Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Hue_10YR	evious inspondrology is cator or construction of cator or construction of cator or construction of cator or construction of cator or cator	monfirm the tion: PL=P Mottle Mottle 10 30 al at ace	ed based on ge e absence of interesting M=Material es C C	Location M M	Texture C C C C A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	Mixed matrix. Mixed matrix. Muck (LRR I, J) t Prairie Redox (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S	Remarks c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w32-c1
					•
VEGETATIO	N (Species identified in all uppercase a	are non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.		1			`` /
6.		1			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.] [(7, 12)
8.					Prevalence Index Worksheet
					Total 9/ Cover of Multiply by 1
9.					Total % Cover of: Multiply by:
10.	Total Cayer				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Total Cover =	=0	FACW spp. $\frac{15}{2}$ \times $2 = \frac{30}{2}$		
					Multiply by: OBL spp. 80 x 1 = 80 FACW spp. 15 x 2 = 30 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0 UPL spp. 0 x 5 = 0
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 X 4 = 0$
1.					UPL spp. $0 X 5 = 0$
2.					
3.		1			Total <u>95</u> (A) <u>110</u> (B)
4.					
5.					Prevalence Index = B/A = 1.158
6.		1			
7.					
8.		1			Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.		1			X Dominance Test is > 50%
10.	_l Total Cover =				X Prevalence Index is ≤ 3.0 *
	Total Cover -				
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *
1.	Carex atherodes	70	Y	OBL	
2.	Phalaris arundinacea	10	N	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Persicaria amphibia	10	N	OBL	present, unless disturbed or problematic.
4.	Poa palustris	5	N	FACW	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.
					TIGID 1 / III Herbassess (Heri Wessay) Plante, regardless of size.
13.					1
14.					All was about the state of the state of
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	= 95	<u></u>		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	= 0			
Remarks:	Wetland vegetation is dominated by Carex		with Phalar	is arundin	paces present along the field edge
remarks.	vveiland vegetation is dominated by Carex	atricrodes v	witi i ilalai	is arunum	acea present along the held edge.
	_				
Additional F	Remarks:				