WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/15/14
Applicant:	Enbridge										County:	Pennington
Investigators	:	MRK/BEH				Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	175A							Classification:				
Landform:						Local Relief: CC					Sample Point	: w-154n44w31-l1
Slope (%):	0 - 2%		Latitude: 4			Longitude:			Datum:			
		nditions on the sit				ar? (If no, exp					Section:	
Are Vegetatio		□, or Hydrology	•	-	disturbed?		Are	e normal circum	-	esent?	Township:	Dia
Are Vegetation		□, or Hydrology	Liaturany	y prop	lemance			⊠ Yes	□ No		Range:	Dir:
Hydrophytic V			Y	Yes					Hydric Soil	ls Present?	Voc	
Wetland Hyd	•			Yes		-					nt Within A W	etland? Yes
Remarks:					vbrid cattai	I and locat	ed in the	middle of a lar				ge shrub component at the
	sample poir	•	u u u u u u u u u u u u u u u u u u u	~~ , · .	y 8110. 22				90	00111212		
HYDROLOG												
		icators (Check al	Il that annly	w Min	imum of or	o primary	or two se	acondary requir				
Primary:	•••	icators (Check al	n that apply	iy, iviiri		e prinary	01 100 50	econdary requi	eu).	Secondary:		
<u> </u>	A1 - Surface	Water				B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				\checkmark	B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio B1 - Water M					C1 - Hydro					B10 - Drainage	
	B2 - Sedimen					C2 - Dry Se C3 - Oxidiz		pheres on Living	Roots (not till	€ □	C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled) Burrows
	B3 - Drift Dep	•				C4 - Prese					•	n Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin N		ace		\checkmark	D2 - Geomorp	
	B5 - Iron Dep	osits on Visible on Aerial In	magany			Other (Exp	lain)				D5 - FAC-Neu	itral Test aved Hummocks (LRR F)
		tained Leaves	nagery								DI - FIUSI-HEA	aved Hummocks (LKK F)
Field Observ	vations:											
Surface Wate	er Present?	Yes 🗵	С	Depth:	12	(in.)						V
Water Table	Present?	Yes 🗵	С	Depth:	0	(in.)			wetland F	lydrology	Present?	Y
Saturation Pr	resent?	Yes 🔽	С	Depth:	0	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	stream gauge, mon	nitoring well	II, aeria	al photos, pr	evious insp	ections),	if available:				
Remarks:	,	stream gauge, mon d has standing wa							disturbed.			
	,								disturbed.			
Remarks: SOILS	The wetland	d has standing wa	ater about 1	12 incl	hes deep a	nd a hydro	ogen sulfi	ide odor when (
Remarks: SOILS Profile Descri	The wetland	d has standing wa	ater about 1 eeded to d	12 incl	hes deep a ent the indi	nd a hydro	ogen sulfi	ide odor when o	dicators.)			
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Remarks: SOILS Profile Descri	The wetland	d has standing wa	ater about 1 eeded to d	12 incl	hes deep a ent the indi	nd a hydro	ogen sulfi onfirm the tion: PL=Pc	ide odor when one of in the odor when one content of the odor when one of the odor when one of the odor when one odor when one odor when odor wh	dicators.)			
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	d has standing wa be to the depth ne etion, RM=Reduced M Matrix	ater about 1 eeded to d	12 incl docum	hes deep a ent the indi Coated Sand	nd a hydro cator or co Grains; Locat	ogen sulfi onfirm the tion: PL=Pc Mottle	ide odor when one absence of in pre Lining, M=Matr	dicators.)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetland	d has standing wa be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to d	12 incl docum overed/ %	hes deep a ent the indi	nd a hydro cator or co Grains; Locat	ogen sulfi onfirm the tion: PL=Pc	ide odor when one of in the odor when one content of the odor when one of the odor when one of the odor when one odor when one odor when odor wh	dicators.)	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-6	The wetland ption (Description, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1	eeded to d	12 incl docum overed/0 % 100 100	hes deep a ent the indi Coated Sand	nd a hydro cator or co Grains; Locat	ogen sulfi onfirm the tion: PL=Pc Mottle	ide odor when one absence of in pre Lining, M=Matr	dicators.)	MP MMI	pebbles and grav	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-6 6-18	The wetland ption (Description, D=Depl Hue_10YR Hue_10YR	has standing wa be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/6	eeded to d Attrix, CS=Co	12 incl docum overed/0 % 100 100 100	hes deep a ent the indi Coated Sand	nd a hydro cator or co Grains; Locat Moist)	ogen sulfi onfirm the tion: PL=Pc Mottle	ide odor when one absence of in pre Lining, M=Matr	dicators.)	MP MMI	pebbles and grav	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-6 6-18 NRCS Hydr	The wetland iption (Descri- ntration, D=Depl Hue_10YR Hue_10YR Hue_7.5YR	has standing wa be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/6 Indicators (ch	eeded to d Attrix, CS=Co	12 incl docum overed/(% 100 100 100 if indic	hes deep a ent the indi Coated Sand Color (Color (cators are i S5 - Sandy R	nd a hydro cator or co Grains; Locat Moist) Moist) not presen	ogen sulfi onfirm the tion: PL=Pc Mottle	ide odor when o e absence of in pre Lining, M=Matri es Type	dicators.)	MP MMI COS Indicators f	or Problemati	rel <u>c Soils¹</u>
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-6 6-18 NRCS Hydr	The wetland iption (Descri- intration, D=Depl Hue_10YR Hue_10YR Hue_7.5YR Hue_7.5YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type: Soil is a dau	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/6 Indicators (cf ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Mucky Peat or Peat (LR ky Peat or Peat (LR leyed Matrix	eeded to d Ater about 1 eeded to d Aatrix, CS=Co heck here ce LRR G, H) RR F)	12 incl docum overed/ % 100 100 100 100 100 100 100 100 100 1	hes deep a ent the indi Coated Sand Color (Color (Co	nd a hydro cator or co Grains; Locat Moist) Moist) Moist) not present datrix Aucky Minera Gleyed Matrix Dark Surface d Dark Surface	orfirm the tion: PL=Po Mottle % t): al x sce ssions (ML	e absence of in pre Lining, M=Matrices Type	dicators.)	MP MMI COS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	Tor Problemation luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	rel <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w31-l1
		e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>76 COVEL</u>	Dominani	<u>1110.3tatus</u>	Bommance rest worksheet
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.					
	<u> </u>				Total Number of Dominant Species Agrees All Strate: (R)
<u>4.</u>					Total Number of Dominant Species Across All Strata: 4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7.	ļ				
8.					Prevalence Index Worksheet
9.					Total % Cover of: <u>Multiply by:</u>
10.					OBL spp. $80 \times 1 = 80$
	Total Cover =	0	_		FACW spp. <u>55</u> $x 2 = 110$
					FACW spp. 55 x $2 =$ 110 FAC spp. 0 x $3 =$ 0 FACU spp. 0 x $4 =$ 0
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.	Salix petiolaris	25	Y	OBL	UPL spp. 0 $x 5 = 0$
2.	Salix amygdaloides	20	Y	FACW	
3.	Salix interior	5	N	FACW	Total <u>135</u> (A) <u>190</u> (B)
4.					
5.					Prevalence Index = B/A = <u>1.407</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	50			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha X glauca	50	Y	OBL	
2.	Phalaris arundinacea	30	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Equisetum fluviatile	5	N	OBL	present, unless disturbed or problematic.
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.
12.					
13.					4
14.					Woody Vines - All woody vines, regardless of height.
15.	Tatal Causa	05			
	Total Cover =	85			
	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.	<u> </u>				
4.	Table				
	Total Cover =		a a character a structure		
Remarks:		nated by me	eadow will	ow and pe	eachleaf willow. The understory is predominantly hybrid cattail and reed canary
	grass.				
Additional R	Remarks:				