WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge								Date: County:	09/18/14 Pennington
Investigators					Subregion (MLRA or LRR): MLRA 56						MN
Soil Unit:	15A		•			NW	I Classification:				
Landform:						<u>CC</u>	8445000	Dotum:		Sample Point:	w-154n44w33-s3
Slope (%): Are climatic/ł	0 - 2% hydrologic co	nditions on the site			-			Datum: ☑ Yes	□ No	Section:	
Are Vegetatio	•	□, or Hydrology			Al I (11 11-2,	1	e normal circun			Township:	
Are Vegetation	on 🗆 Soil	□, or Hydrology	Daturally pro				⊠ Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic V Wetland Hyd	-		Yes Yes		-				Is Present?	Yes Nt Within A We	tland? Yes
Remarks:		is a hardwood swa		adiacent to a	wet meac	dow and	a Shrub-Carr c		inpling Poli		
					notinoad			erring,			
HYDROLOG	Y										
	•••	i cators (Check all t	hat apply; M	inimum of on	e primary	or two se	econdary requi	red):			
Primary:	A1 - Surface	Mator		_	B11 - Salt	Cruct			Secondary:	B6 - Surface Sc	vil Crocke
	A1 - Sunace A2 - High Wa				B13 - Aqua						egetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	Patterns
	B1 - Water Ma B2 - Sedimen				C2 - Dry S C3 - Oxidiz		spheres on Living	Roots (not till	□ € □	C3 - Oxidized R C8 - Crayfish Bi	thizospheres on Living Roots (tilled)
	B3 - Drift Dep	osits			C4 - Prese	ence of Re	duced Iron			C9 - Saturation	Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M Other (Exp		ace			D2 - Geomorph D5 - FAC-Neutr	
		n Visible on Aerial Ima	agery			nairi)					/ed Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	votions										
Surface Wat		Yes 🗆	Depth	. .	(in.)						
Water Table		Yes D	Depti		(in.)			Wetland F	lydrology	Present?	Y
Saturation Pr		Yes 🗆	Depth		(in.)						
Describe Rec	orded Data (s		oring woll as	wal whaten ww	- 						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The wetland is located in a dip.											
			-	riai photos, pre	evious insp	pections),	if available:				
Remarks:			-	rial photos, pre	evious insp	pections),	if available:				
Remarks: SOILS	The wetland	d is located in a dip.						dicators)			
Remarks: SOILS Profile Descri	The wetland		eded to docu	ment the indi	cator or co	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	The wetland	be to the depth nee	eded to docu	ment the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth nee etion, RM=Reduced Mat	eded to docu trix, CS=Covere	ment the indi	cator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	Toyturo		Domorko
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetland	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	eded to docu trix, CS=Covere %	ment the indi	cator or co Grains; Loca	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	The wetland ption (Descrintration, D=Deple Hue_10YR	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1	eded to docu trix, CS=Covere % 100	ment the indicated Sand Control Color (I	cator or co Grains; Loca Moist)	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SICL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	The wetland ption (Descrintration, D=Deple Hue_10YR Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 6/2 Indicators (che	eded to docu trix, CS=Covere % 100 60	ment the india d/Coated Sand (Color (I Hue_10YR dicators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist) 4/6 not presen edox Matrix	onfirm the tion: PL=Pe Mottle % 40	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SICL SIC Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) : Prairie Redox (L	<u>Soils¹</u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	The wetland ption (Descrintration, D=Deple Hue_10YR Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histor	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 6/2 Indicators (che	eded to docu trix, CS=Covere % 100 60	ment the indiced/Coated Sand Coated Sand C	cator or co Grains; Loca Moist) 4/6 00t presen edox Matrix fucky Miner	onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SICL SIC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) : Prairie Redox (L urface (LRR G)	<u>Soils¹</u> .RR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	e: L3R				Sample Point: w-154n44w33-s3
EGETATIO	ON (Species identified in all uppercase ar (Plot size: 30 ft. radius)	e non-native	species.)		
Tee Stratum y	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	Populus tremuloides	<u>78 Cover</u> 60	Y	FAC	
2.	Populus balsamifera	30	Y	FACW	Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)
3.			· .	17.0	
4.		1		,	Total Number of Dominant Species Across All Strata: 5 (B)
<u> </u>		1		/	
<u> </u>				'	$-\frac{1}{1000\%}$
<u> </u>	-			'	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
<u> </u>	-I			!	Prevalence Index Worksheet
<u> </u>				!	
<u> </u>	-	1		!	<u>Total % Cover of:</u> <u>Multiply by:</u> OBL spp 50 x 1 - 50
10.	Total Cover =	= 90		'	OBL spp. 50 x 1 = 50 EACW spp. 75 x 2 = 150
		30		,	FACW spp. 75 $X 2 = 150$
- " - Ohruh				'	FAC spp. 60 $x 3 = 180$
	Stratum (Plot size: 15 ft. radius)		V		FACU spp. 0 $x 4 = 0$
1.	Cornus alba	5	T	FACW	UPL spp. 0 $x 5 = 0$
2.				'	
3.				'	Total <u>185</u> (A) <u>380</u> (B)
4.		<u>I</u>		!	
5.		/		'	Prevalence Index = $B/A = 2.054$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.		(Rapid Test for Hydrophytic Vegetation
10.				!	X Dominance Test is > 50%
	Total Cover =	= 5			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)			! 	Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	50	Y	OBL	
2.	Phalaris arundinacea	30	Y	FACW	
3.	Symphyotrichum lateriflorum	10	Ν	FACW	present, unless disturbed or problematic.
4.				,	Definitions of Vegetation Strata:
5.				· · · · · · · · · · · · · · · · · · ·	-
6				I	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.					-
13.					-
14.	-				Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	= 90		/	
		30	_	,	
Man - Wino S				/	
<u>Woody vine من</u> 1	Stratum (Plot size: 30 ft. radius)			!	
<u> </u>				!	
2.				!	- Venetation Present? V
3.		,,		!	Hydrophytic Vegetation Present? Y
5.				'	
4.	Tatal Cover			'	
	Total Cover =		· · · · ·	<u> </u>	
Remarks:		.g aspen an	nd balsam	poplar. In	he understory is predominantly red osier dogwood, woolly sedge and reed canary
	grass.				
Additional R	Remarks:				