WETLAND DETERMINATION DATA FORM Great Plains Region

										Data	00/00/44					
Project/Site:		L3R								Date:	09/26/14					
Applicant:		Enbridge								County:	Pennington					
Investigators	S:	RAJ/BJC		Subregion (MLRA or LRR): <u>MLRA 56</u>						State:	MN					
Soil Unit:	120A					NW	I Classification:	PEMB								
Landform:	Depression									Sample Point	: w-153n44w3-g2					
Slope (%):	0 - 2%		Latitude: 48.1		Longitude:		785	Datum:		1 '						
		onditions on the si			<u> </u>			☑ Yes	□ No	Section:						
	, ,	□, or Hydrology					e normal circun									
Are Vegetati	•							-	esent?	Township:	D.					
Are Vegetati		□, or Hydrology	Laturally pro	oblematic?			⊠ Yes	□ No		Range:	Dir:					
SUMMARY C																
Hydrophytic	Vegetation P	resent?	Yes		_				Is Present?							
Wetland Hyd	drology Prese	ent?	Yes					Is This Sa	mpling Poin	it Within A W	etland? Yes					
Remarks:	A hardwood	swamp dominate	ed by quaking	aspen with a	shrub laye	er of red	osier dogwood	and willows	s. All param	neters of wet	and conditions are present.					
							-									
HYDROLOG	Y															
								0								
	•••	icators (Check al	II that apply; N	inimum of on	e primary	or two s	econdary requi	red):								
Primary					_	_			Secondary:							
□ A1 - Surface Water □ B11 - Salt Crust										B6 - Surface S						
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface					
	A3 - Saturatio				C1 - Hydro					B10 - Drainag						
	B1 - Water M				C2 - Dry Se			Deete (pet till			Rhizospheres on Living Roots (tilled)					
	B2 - Sedimen						spheres on Living	Roots (not till		C8 - Crayfish						
	B3 - Drift Dep						educed Iron				n Visible on Aerial Imagery					
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M		ace		⊻ ✓	D2 - Geomorp D5 - FAC-Neu						
		on Visible on Aerial Ir	magery		Other (Exp	nain)					aved Hummocks (LRR F)					
		tained Leaves	nagery								aved Hummocks (LIXIX I)					
Field Obser	votiona															
					<i>(</i> ,)											
Surface Wat	ter Present?	Yes 🛛	Dept	n:	(in.)			Wetland H	lydrology l	Present?	Y					
Water Table	Present?	Yes 🛛	Dept	n:	(in.)			Wettand	iyarologyi		·					
Saturation P	resent?	Yes 🛛	Dept	n:	(in.)											
Describe Rec	orded Data (stroom gougo mor	aitoring well on	rial photos pr												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																
	,		-			,										
Remarks:	The commu	inity has a lot of n	nicrotopograpł			,		ocks and bl	ack, water-s	stained leave	s in the hollows. Indicators of					
Remarks:	The commu		nicrotopograpł			,		ocks and bl	ack, water-s	stained leave	es in the hollows. Indicators of					
Remarks: SOILS	The commu wetland hyd	unity has a lot of n drology are preser	nicrotopograph nt.	nic relief with	moss- and	l sedge-	covered humm		ack, water-s	stained leave	es in the hollows. Indicators of					
Remarks: SOILS Profile Descr	The commu wetland hyd	unity has a lot of m prology are preser ibe to the depth ne	nicrotopograph nt. eeded to docu	nic relief with	moss- and	d sedge-	covered humm e absence of in	dicators.)	ack, water-s	stained leave	es in the hollows. Indicators of					
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Remarks: SOILS Profile Descr	The commu wetland hyd	ibe to the depth network, RM=Reduced M	nicrotopograph nt. eeded to docu	nic relief with	moss- and	d sedge- onfirm th tion: PL=P	covered humm e absence of in ore Lining, M=Matr	dicators.)	ack, water-s	stained leave	es in the hollows. Indicators of					
Remarks: SOILS Profile Descr	The commu wetland hyd	unity has a lot of m prology are preser ibe to the depth ne	nicrotopograph nt. eeded to docu	nic relief with	moss- and	d sedge-	covered humm e absence of in ore Lining, M=Matr	dicators.)	ack, water-s	stained leave	es in the hollows. Indicators of					
Remarks: SOILS Profile Descr (Type: C=Conce	The commu wetland hyd	ibe to the depth network of Matrix	nicrotopograph nt. eeded to docu	ment the indicid/Coated Sand (moss- and cator or co Grains; Locat	d sedge- onfirm th tion: PL=P	covered humm e absence of in ore Lining, M=Matr	dicators.)	ack, water-s	stained leave	es in the hollows. Indicators of Remarks					
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	The commu wetland hyd iption (Descr ntration, D=Depl	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	nicrotopograph nt. eeded to docu Matrix, CS=Covere %	nic relief with	moss- and cator or co Grains; Locat	d sedge- onfirm th tion: PL=P Mottl	covered humm e absence of in ore Lining, M=Matr	idicators.) ^{ix)}	Texture	stained leave						
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-10	The commu wetland hyd iption (Descr intration, D=Depl Hue_10YR	ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1	nicrotopograph nt. eeded to docu Matrix, CS=Covere % 100	nic relief with ment the indic d/Coated Sand (Color (I	moss- and cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottl	covered humm e absence of in ore Lining, M=Matr es Type	idicators.)	Texture FSL	stained leave						
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	The commu wetland hyd iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	ibe to the depth me etion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (C bipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surfac	nicrotopograph nt. eeded to docu Aatrix, CS=Covere % 100 90 	ment the india d/Coated Sand C Color (I Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted	moss- and cator or co Grains; Locat Moist) 6/8 6/8 ot present edox Matrix fucky Minera Gleyed Matrix fucky Minera Gleyed Matrix ark Surface I Dark Surface	al x	covered humm e absence of in ore Lining, M=Matr es Type C	Location M	Texture FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Se F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S	Remarks					
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w3-g2				
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius)								
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	80	Y	FAC					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 4 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. $5 \times 1 = 5$				
	Total Cover =	80			FACW spp. 69 x 2 = 138				
			_		FAC spp. 82 $X 3 = 246$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACW spp.69x2 =138FAC spp.82x3 =246FACU spp.10x4 =40				
<u> </u>	Salix bebbiana	25	Y	FACW	UPL spp. 0 $\times 5 = 0$				
2.	Cornus alba	20	Y	FACW					
3.	Toxicodendron rydbergii	5	N	FACU	Total 166 (A) 429 (B)				
4.	Rosa blanda	5	N	FACU					
5.					Prevalence Index = B/A = 2.584				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					$\frac{1}{X} \qquad \text{Dominance Test is } 50\%$				
10.	 Total Cover =	55			$\frac{1}{X} \qquad \text{Prevalence Index is } 3.0 *$				
			_						
					Morphological Adaptations (Explain) *				
	Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *				
1.	Carex tenera	20	Y	FACW					
2.	Cicuta maculata	5	N	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Stachys pilosa	2	N	FACW	present, unless disturbed or problematic.				
4.	Solidago gigantea	2	N	FAC	Definitions of Vegetation Strata:				
5.	Poa palustris	2	N	FACW					
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.				
	Total Cover =	31							
Woodv Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks:		_	a shruh lav	er of red	osier dogwood and willows Hydrophytic vegetation is present				
Remarks: A hardwood swamp dominated by quaking aspen with a shrub layer of red osier dogwood and willows. Hydrophytic vegetation is present.									
Additional Remarks:									