## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14
Applicant: Enbridge						County:	Pennington				
Investigators: MRK/OTG					Subregio	State:	MN				
Soil Unit:	169A			_			I Classification	: <u></u>			
Landform:	Dip				cal Relief:					Sample Point	w-154n44w33-t1
Slope (%):	0 - 2%		titude: 48.11				9445000	Datum:			
Are climatic/h	hydrologic co	nditions on the site ty	/pical for thi	s time of yea	ar? (If no, ex	olain in rema	arks)		□ No	Section:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □	significantly	disturbed?		Are	e normal circur	nstances pro	esent?	Township:	
Are Vegetation	on □ Soil	□, or Hydrology □	aturally pro	blematic?			Yes	□ No		Range:	Dir:
<b>SUMMARY C</b>	OF FINDING:	5									
Hydrophytic \	Vegetation P	resent?	Yes					Hydric Soi	Is Present?	Yes	
Wetland Hyd	_		Yes		•			Is This Sai	mpling Poin	t Within A W	etland? <b>Yes</b>
Remarks:		d is a hardwood swan	np located o	downslope fro	om a havf	ield.					
			•								
<b>HYDROLOG</b>	Υ										
		inators (Chaok all the	ot opply: Mi	nimum of on	o primary	or two or	ooondory roqui	rod\.			
		icators (Check all tha	at apply; will	nimum of on	e primary	or two se	econdary requi	rea):	Socondon		
<u>Primary:</u> □	<u>:</u>	Nator		П	B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua		1		ī		Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage	
	B1 - Water M	arks			C2 - Dry S	eason Wa	ater Table				Rhizospheres on Living Roots (tille
	B2 - Sedimen	•					spheres on Living	Roots (not till	<b>€</b> □	C8 - Crayfish I	
	B3 - Drift Dep						duced Iron				n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp D5 - FAC-Neu	
	B5 - Iron Dep	osits In Visible on Aerial Image	2n/	П	Other (Exp	iain)					aved Hummocks (LRR F)
	B9 - Water-St	•	ыу						_	D1 - 11031-1168	avea Hammocks (ERRY)
_											
Field Observ	vations:										
Surface Water		Yes	Depth:		(in.)						
Water Table		Yes	Depth:		(in.)			Wetland F	łydrology i	Present?	Υ
Saturation Pr		Yes	Depth:		(in.)						<del></del>
Cataration	i Cociit :		Dopui.								
			· · · · · ·								
	•	stream gauge, monitori		ial photos, pre	evious insp	•	if available:				
Describe Reco	•			ial photos, pre	evious insp	•	if available:				
Remarks:	•	stream gauge, monitori		ial photos, pre	evious insp	•	if available:				
Remarks:	The wetland	stream gauge, monitori d is located in a dip ar	nd supports	ial photos, pre hydrophytic	evious insp vegetatio	n.					
Remarks:  SOILS Profile Descri	The wetland	stream gauge, monitoridistriated in a dip and the depth needs	nd supports	ial photos, pres	vegetatio	n. onfirm the	e absence of ir				
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Remarks:  SOILS Profile Descri	The wetland	stream gauge, monitoridistream	nd supports	ial photos, pres	vegetatio	n. onfirm the	e absence of ir ore Lining, M=Mat				
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-20	The wetland iption (Description, D=Depl Hue_10YR Hue_5Y	be to the depth needetion, RM=Reduced Matrix  Color (Moist)  2/1  7/2	ed to docume, CS=Covered    %   100   80	nent the indicated Sand Control (Inc.)  Color (Inc.)	vegetatio cator or co Grains; Loca Moist)	n.  Onfirm the tion: PL=Poisson Mottle %	e absence of interest in the core Lining, M=Materials  es  Type  C	Location	CL SIC	or Problematic	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site	: L3R				Sample Point: w-154n44w33-t1				
VEGETATIO	N (Species identified in all uppersons a	ra nan nativa	anaciaa \						
	```	re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)	0/ Cover	Dominant	Ind Ctatus	Dominance Test Worksheet				
1	Species Name  Repulsia halaamifara	% Cover	Dominant <b>Y</b>	Ind.Status	Dominance rest worksheet				
1.	Populus balsamifera	60		FACW	N				
2.	Populus tremuloides	5	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC: (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					4				
		1			Total % Cover of: Multiply by:				
10.					OBL spp. 45				
	Total Cover =	=65			FACW spp. 125				
					FAC spp. $5$ $\times 3 = 15$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0				
1.	Comus alba	15	Υ	FACW	UPL spp. $0   x   5 = 0$				
2.	Salix petiolaris	10	Υ	OBL	··· <del></del>				
3.			<u> </u>		Total 175 (A) 310 (B)				
4.					1 5 to (D)				
					Drovelence Index D/A 4 774				
5.					Prevalence Index = B/A =				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	 Total Cover =	25			X Prevalence Index is ≤ 3.0 *				
	Total Gover =								
	(D)				Morphological Adaptations (Explain) *				
	(Plot size: 5 ft. radius)			E40)4/	Problem Hydrophytic Vegetation (Explain) *				
1.	Spartina pectinata	50	Υ	FACW					
2.	Carex pellita	35	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.					present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5.									
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
					g (= = //,				
8.					DELL Manches land then O in DDI I reposition of beints				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.									
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
					Manada Vinas All woody vinas regardless of height				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	= 85							
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
					Trydrophytic vegetation Fresent:				
5.									
4.									
	Total Cover =								
Remarks:	The wetland canopy is dominated by balsan	ก poplar. Th	ne underst	ory is pred	dominantly red osier dogwood and meadow willow. Prairie cord grass and woolly				
	sedge dominate the ground cover.								
	<u> </u>								
A alaliti a 10 al	Damarika.								
Additional	Remarks:								