## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	С	ity/County: St. Louis	Sampling Date: 14-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-50n19w17-a1
Investigator(s): DPT		Section, Township, Range:	<b>s.</b> 17 <b>t.</b> 50N <b>R.</b> 19W
Landform (hillslope, terrace, etc.): Low	rland Lo	ocal relief (concave, convex, r	
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 40	6 48.8381 <b>Long</b>	<b>Datum:</b> NAD 83
Soil Map Unit Name: F141D			NWI classification: PFOB
Are climatic/hydrologic conditions on the	e site typical for this time of yea	ır? Yes 💿 No 🔾	(If no, explain in Remarks.)
	Hydrology significantly		Circumstances" present? Yes  No
	· Hydrology  naturally pro		explain any answers in Remarks.)
		,	s, transects, important features, etc
Hydrophytic Vegetation Present?	es   No		
Hydric Soil Present?	es   No	Is the Sampled Area within a Wetland?	Yes ● No ○
-	es   No	Within a Wetana.	
Remarks: (Explain alternative procedu	res here or in a separate report.	)	
Hydrology			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one re			Surface Soil Cracks (B6)
✓ Surface Water (A1) ✓ High Water Table (A2)	<ul><li>Water-Stained Leave</li><li>☐ Aquatic Fauna (B13)</li></ul>	s (B9)	☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Od	or (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		es along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced	I Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction	` ,	Geomorphic Position (D2)
☐ Iron Deposits (B5)☐ Inundation Visible on Aerial Imagery (B7	Thin Muck Surface (0	,	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8	U Other (Explain in Ker	marks)	FAC-neutral Test (D5)
	-,		In the head at 16st (66)
Field Observations: Surface Water Present?  Yes	No Depth (inches):	6	
		Wetland Hyd	rology Present? Yes   No
(Includes capillary fringe)		0	lahla.
Describe Recorded Data (stream gauge	, monitoring well, aerial photos,	previous inspections), if avai	lable:
Remarks:			

## **VEGETATION - Use scientific names of plants**

vegeration - ose scientific fiames of p	Sampling Point: w-50n19w17-a1					
(Dist size) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover		Status	Number of Dominant Species		
1. Picea mariana		<b>✓</b>	FACW	That are OBL, FACW, or FAC:6(A)		
2. Larix laricina			FACW	Total Number of Dominant		
3				Species Across All Strata:6(B)		
4						
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
6	0			That Are OBE, FACW, OF FAC.		
7	0			Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15 )	60=	= Total Cove	er	Total % Cover of: Multiply by:  OBL speci es110 x 1 =110		
1 Chamaedaphne calyculata	20	<b>✓</b>	OBL			
2. Ledum groenlandicum	20	<u></u>	OBL	FACW species		
3. Alnus incana	10	<b>✓</b>	FACW	FAC speciles x 3 =0		
4	-			FACU species $0 \times 4 = 0$		
5				UPL species $0 \times 5 = 0$		
6				Column Totals: <u>180</u> (A) <u>250</u> (B)		
7				Prevalence Index = B/A = 1.389		
		= Total Cove				
Herb Stratum (Plot size: 5		- 100010010		Hydrophytic Vegetation Indicators:		
1. Carex lacustris	20	<b>✓</b>	OBL	Rapid Test for Hydrophytic Vegetation		
2 Calamagrostis canadensis		<u>~</u>	OBL	✓ Dominance Test is > 50%		
3		ñ		✓ Prevalence Index is ≤3.0 <sup>1</sup>		
4		$\overline{\Box}$		Morphological Adaptations <sup>1</sup> (Provide supporting		
		П		data in Remarks or on a separate sheet)		
5				☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7				be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9				Deminions of Vegetation strata.		
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1				at breast height (DBH), regardless of height.		
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30 )	=	= Total Cover		greater than 3.28 ft (1m) tall		
1	0			Herb - All herbaceous (non-woody) plants, regardless of		
2	0			size, and woody plants less than 3.28 ft tall.		
3	0			Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
	0 =	= Total Cove	er			
				Hydrophytic Vegetation Present?  Yes  No		
Remarks: (Include photo numbers here or on a separate s	sheet.)					

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-50n19w17-a1

Depth	Matrix	tile deptil i	bsence of indicators.)				
(inches)	Color (moist)	%	Color (moist)	dox Features	Loc2	Texture	Remarks
0-24	10YR 2/2	100				Peat	
						-	
						-	
			-				-
							-
1 Tung. C. Con	ventration D. Depleti	on DM Dodu	and Matrix CC Cover	od or Coatad Cand Cre		tion. DI Doro Lining M. M.	Antrik
		on. Rivi=Redu	ced Matrix, CS=Cover	ed or Coated Sand Gra	ains ²Loca	tion: PL=Pore Lining. M=N	
Hydric Soil 1						Indicators for Prob	lematic Hydric Soils: 3
✓ Histosol (			☐ Polyvalue Belo MLRA 149B)	w Surface (S8) (LRR R		2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)			(CO) (LDD D MLD	A 140D)		ox (A16) (LRR K, L, R)
Black Hist	tic (A3)			ace (S9) (LRR R, MLR			or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		_	Mineral (F1) LRR K, L)		Dark Surface (S7)	
Stratified	Layers (A5)		Loamy Gleyed				Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	A11)	Depleted Matri			Thin Dark Surface	
☐ Thick Dar	k Surface (A12)		Redox Dark Su	, ,			Masses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S1)		Depleted Dark				ain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depress	ions (F8)			
Sandy Re							6) (MLRA 144A, 145, 149B)
	Matrix (S6)					Red Parent Mater	
	face (S7) (LRR R, MLR	A 149B)				☐ Very Shallow Dar	
						U Other (Explain in	Remarks)
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and wetlan	d hydrology must be p	present, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	hes):					Hydric Soil Present?	Yes   No
Remarks:							
Remarks.							