## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis Sampling Date: 08-Sep-17
Applicant/Owner: Enbridge	State: MN Sampling Point: w-51n21w23-a3
Investigator(s): SMR	Section, Township, Range: S. 23 T. 51N R. 21W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none): concave Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K Lat.:	46 53.2918 <b>Long.:</b> -92 57.5292 <b>Datum:</b> NAD 83
Soil Map Unit Name: B148A	NWI classification: PFOB
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
	ly disturbed? Are "Normal Circumstances" present? Yes   No
	roblematic? (If needed, explain any answers in Remarks.)
	ampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes  No  No	
Hydric Soil Present? Yes ● No ○	Is the Sampled Area within a Wetland? Yes  No
Wetland Hydrology Present? Yes   No	Willing Wedding.
Hydrology Wetland Hydrology Indicators:	_Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leav  ✓ High Water Table (A2) Aquatic Fauna (B1)	
✓ High Water Table (A2)       ☐ Aquatic Fauna (B13)         ✓ Saturation (A3)       ☐ Marl Deposits (B15)	
Water Marks (B1)  Hydrogen Sulfide C	
I nyaragan samas s	eres along Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)
☐ Drift deposits (B3) ☐ Presence of Reduction	
	tion in Tilled Soils (C6) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surface	(C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	
Sparsely Vegetated Concave Surface (B8)	✓ FAC-neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	0
Water Table Present? Yes No Depth (inches):	8 Wetland Hydrology Present? Yes ● No ○
Saturation Present? (includes capillary fringe)  Yes No Depth (inches):	4
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	

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

vegeration - ose scientific fiames of pla	Sampling Point: w-51n21w23-a3					
(9)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species		
1 Picea mariana		✓	FACW	That are OBL, FACW, or FAC:4 (A)		
2. Larix Iaricina	20	✓	FACW	T. I. M. J. J. C. C. C. J. J. J.		
3	0			Total Number of Dominant Species Across All Strata: 4 (B)		
4	0					
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 100.0% (A/B)		
7				Prevalence Index worksheet:		
		= Total Cove		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15		- Total Cove	•	0BL species 90 x 1 = 90		
1	0			<u> </u>		
2				FACW species 90 x 2 = 180		
3	=			FAC speciles <u>0</u> x 3 = <u>0</u>		
4				FACU species x 4 =0		
5				UPL species $0 \times 5 = 0$		
6				Column Totals: <u>180</u> (A) <u>270</u> (B)		
				Dravalance Index D/A 1 500		
7		= Total Cove		Prevalence Index = B/A = 1.500		
_Herb Stratum_ (Plot size: 5)		Total Cover		Hydrophytic Vegetation Indicators:		
1 Carex lacustris	30	<b>✓</b>	OBL	Rapid Test for Hydrophytic Vegetation		
0. 0		<b>✓</b>	OBL	✓ Dominance Test is > 50%		
			OBL	✓ Prevalence Index is ≤3.0 ¹		
3				Morphological Adaptations <sup>1</sup> (Provide supporting		
4				data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				1- "		
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
8	0					
9	0			Definitions of Vegetation Strata:		
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
11	0			at breast height (DBH), regardless of height.		
12				Continue/about Manda along the 2 in DDU and		
		= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
_Woody Vine Stratum_ (Plot size: _30)				groater man orzent (m.) tami		
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	r			
				Hydrophytic		
		Vegetation				
				I		
Remarks: (Include photo numbers here or on a separate she	eet. <i>)</i>					

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

Soil Sampling Point: w-51n21w23-a3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix			lox Features							
(inches)	Color (moist)		Color (moist)	<u>%</u> <u>Type</u> <sup>1</sup>	Loc²	Texture	Remarks			
0-24	10YR 2/2	100				Peat				
-										
						<del></del>				
<sup>1</sup> Type: C=Cond	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	d or Coated Sand Gr	ains <sup>2</sup> Loca	tion: PL=Pore Lining. M=Ma	atrix			
Hydric Soil I	ndicators:					Indicators for Proble	matic Hydric Soils: 3			
Histosol (A			Polyvalue Below	V Surface (S8) (LRR F	1					
Histic Epip			MLRA 149B)	. , ,			LRR K, L, MLRA 149B)			
Black Histi			Thin Dark Surfa	ce (S9) (LRR R, MLF	A 149B)		(A16) (LRR K, L, R)			
	Sulfide (A4)			lineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)			
Stratified I	Layers (A5)		Loamy Gleyed N	Matrix (F2)		Dark Surface (S7)				
Depleted I	Below Dark Surface (A	11)	Depleted Matrix				urface (S8) (LRR K, L)			
☐ Thick Dark	Surface (A12)		Redox Dark Sur			☐ Thin Dark Surface (S9) (LRR K, L) ☐ Iron-Manganese Masses (F12) (LRR K, L, R)				
Sandy Mu	ck Mineral (S1)		Depleted Dark S				n Soils (F19) (MLRA 149B)			
Sandy Gle	yed Matrix (S4)		Redox Depressi	ons (F8)			(MLRA 144A, 145, 149B)			
Sandy Red	dox (S5)					Red Parent Materia				
Stripped M	Matrix (S6)					☐ Very Shallow Dark Surface (TF12)				
☐ Dark Surfa	ace (S7) (LRR R, MLRA	149B)				Other (Explain in Remarks)				
3 Indicators of	hydrophytic vegetatio	n and wetlar	nd hydrology must be p	racant unlace dicturk	ed or proble		emarksy			
		ii and wetiai	ia nyarology mast be p	reserit, uriless disturt	ed of proble	induc.				
	ayer (if observed):									
Type:						Hydric Soil Present?	Yes ● No ○			
Depth (inch	nes):					Tryunc Son Tresent.	Tes C NO C			
Remarks:										