## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Le	ouis	Samplin	<b>19 Date:</b> 08-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n21w20-a2
Investigator(s): SMR	Section, Townsh	nip, Range: S. 2		<b>R.</b> 21W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concav			Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K Lat.:	- 46 53.3751	Long.: -	93 2.2685	Datum: NAD 83
Soil Map Unit Name: B135A			NWI classification:	PFO1B
Are climatic/hydrologic conditions on the site typical for this time of	year? Yes •	No O (If r	no, explain in Remarks	5.)
	-	•	umstances" present?	Yes ● No ○
			nin any answers in Rer	marks.)
Summary of Findings - Attach site map showing	-	•	-	•
Hydrophytic Vegetation Present? Yes No No				
Hydric Soil Present? Yes   No	Is the Sam within a W		es   No	
Wetland Hydrology Present? Yes • No •	Within C 11	suana:		
Remarks: (Explain alternative procedures here or in a separate rep	ort.)			
Hydrology				
Wetland Hydrology Indicators:		Seco	ondary Indicators (minim	
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Let			Surface Soil Cracks (B6)	
✓ Surface Water (A1)			Drainage Patterns (B10) Moss Trim Lines (B16)	
Saturation (A3)  Marl Deposits (B)			Dry Season Water Table	· (C2)
☐ Water Marks (B1) ☐ Hydrogen Sulfide			Crayfish Burrows (C8)	(02)
I nyaregen eamas	heres along Living Roots		Saturation Visible on Ae	rial Imagery (C9)
☐ Drift deposits (B3) ☐ Presence of Redu			Stunted or Stressed Plan	0 3 . ,
	uction in Tilled Soils (C6)	<b>✓</b>	Geomorphic Position (D	2)
Iron Deposits (B5) Thin Muck Surface	e (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in	Remarks)	_	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B8)		$\checkmark$	FAC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes No Depth (inches):	3			
Water Table Present? Yes  No Depth (inches):	0	· · · · · · · · · · · · · · · · · · ·	y Present? Yes	● No ○
Saturation Present? (includes capillary fringe)  Yes  No  Depth (inches):		etland Hydrolog	y Present? 165	9 NO ∪ 
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspection	ons), if available	:	
Remarks:				

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

vegeration - ose scientific fiames of pr	Sampling Point: w-51n21w20-a2						
(0) -1 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species			
1	0			That are OBL, FACW, or FAC:3 (A)			
2	0			Total Number of Dominant			
3	0			Species Across All Strata:3 (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	r	Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 80 x 1 = 80			
1	0			FACW species 20 x 2 = 40			
2	0						
3				FAC speci es x 3 =0			
4			-	FACU species $0 \times 4 = 0$			
5				UPL species $0 \times 5 = 0$			
6.				Column Totals: 100 (A) 120 (B)			
7				Provalance Index – P/A – 1 200			
		Total Cove		Prevalence Index = B/A = 1.200			
Herb Stratum (Plot size: 5 )	=	· Total Cover		Hydrophytic Vegetation Indicators:			
1. Carex lacustris	20	<b>✓</b>	OBL	Rapid Test for Hydrophytic Vegetation			
		<b>V</b>	OBL	✓ Dominance Test is > 50%			
		<b>✓</b>	FACW	✓ Prevalence Index is ≤3.0 ¹			
			FACVV	☐ 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 To disable of body and so the desired and body at the state of the s			
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
8							
9	0			Definitions of Vegetation Strata:			
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
1	0			at breast height (DBH), regardless of height.			
12				Conline / ohrub - Woody plants loss than 2 in DDL and			
	100 =	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				greater than 6.25 it (i.i.) taili			
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   Yes • No •			
				Present:			
				<u>I</u>			
Remarks: (Include photo numbers here or on a separate s	heet.)						

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

Soil Sampling Point: w-51n21w20-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth (inches)			Redox Features					_				
(inches)	Color (		%	Color (	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rer	marks	
0-6	10YR	2/1	100						Muck			
6-20	10YR	4/1	90	10YR	4/4	10	C	M	Sandy Clay Loam			
									-	`		
-				-					-			
		-	_	-								
			-	-		-						
		-		-	-	_						
1 Tumo: C. Com		Dopletie	n DM Doo	used Matrix		ad as Caat	end Cond Co		ation. DI Doro Lining M	Motrix		
• • • • • • • • • • • • • • • • • • • •		=Depletio	in. Rivi=Rec	uced Matrix,	CS=Cover	ed or Coat	lea Sana Gi	ains ²Loca	ation: PL=Pore Lining. M=		2	
Hydric Soil I  Histosol (A				☐ p-1	volus D-I	141 C. 100f	(S8) (LRR	n	Indicators for Prol	olematic Hydr	ic Soils: 3	
	•				vaiue Beio A 149B)	w Surrace	(S8) (LRR	К,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Black Hist	pedon (A2)			Thin	Dark Surf	ace (S9) (	(LRR R, ML	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
	Sulfide (A4)			Loar	ny Mucky	Mineral (F	1) LRR K, L	)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5)			Loar	ny Gleyed	Matrix (F2	2)		Dark Surface (S7) (LRR K, L, M)			
	Below Dark S	Surface (A	11)	<b>✓</b> Dep	eted Matri	ix (F3)			Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A1					ırface (F6)			Thin Dark Surface (S9) (LRR K, L)			
Sandy Mu	ck Mineral (S	51)				Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Gle	eyed Matrix (	S4)		☐ Red	ox Depress	sions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Red	dox (S5)								Red Parent Material (F21)			
Stripped N	Matrix (S6)								Very Shallow Dark Surface (TF12)			
☐ Dark Surfa	ace (S7) (LRF	R R, MLRA	149B)						Other (Explain in Remarks)			
<sup>3</sup> Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be i	present, ui	nless distur	bed or proble		,		
Restrictive La								·				
Type:	., c. ( obo	c. vcu j.										
Depth (incl	hes):								Hydric Soil Present?	Yes 💿	No $\bigcirc$	
Remarks:												
Kemarks.												