## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Cit	ty/County:	Aitkin		Samplin	<b>Date:</b> 01-Sep-17
Applicant/Owner: Enbridge				State: MN	I	Sampling Point:	w-51n24w25-f2
Investigator(s): SMR			Section, Tov	vnship, Range:	<b>S.</b> 25	<b>T.</b> 51N	<b>R.</b> 24W
Landform (hillslope, terrace, etc.):	Lowland	Loc	•	ncave, convex, n		concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		<b>Lat.:</b> 46	52.3762	Long	<b>J.:</b> -93	19.1971	Datum: NAD 83
Soil Map Unit Name: 870C					- N	WI classification:	N/A
Are climatic/hydrologic conditions	on the site ty	pical for this time of year	? Yes	● No ○	(If no,	explain in Remarks	s.)
Are Vegetation $\Box$ , Soil $\Box$	, or Hydrol			Are "Normal		stances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrolo					any answers in Rer	marks.)
Summary of Findings - A				•	-	-	•
Hydrophytic Vegetation Present?	Yes	No O					
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes	● No ○	
Wetland Hydrology Present?	Yes	No O		a metana.			
Hydrology  Wetland Hydrology Indicators:					Second	lary Indicators (minim	num of 2 required)
Primary Indicators (minimum of o	ne required;	check all that apply)				rface Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves	(B9)			ainage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)				oss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				y Season Water Table	e (C2)
Water Marks (B1)		Hydrogen Sulfide Odo				ayfish Burrows (C8)	(2-2)
Sediment Deposits (B2)		Oxidized Rhizospheres		Roots (C3)		turation Visible on Ae	
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduced I		(01)		unted or Stressed Plar comorphic Position (D:	• •
Iron Deposits (B5)		Recent Iron Reduction Thin Muck Surface (C7		(C6)		eomorpnic Position (D. allow Aquitard (D3)	2)
Inundation Visible on Aerial Image	ry (B7)	Other (Explain in Rem	•			crotopographic Relief	(D4)
Sparsely Vegetated Concave Surfa	•	Uner (Explain in Kenn	idi kə <i>j</i>		_	C-neutral Test (D5)	(- ',
Field Observations:							
Surface Water Present? Yes	No O	Depth (inches):	4				
Water Table Present? Yes	No O	Depth (inches):	0			(	<b>.</b> O
Saturation Present? (includes capillary fringe) Yes	No O	Depth (inches):	0	Wetland Hydr	rology P	resent? Yes	No O
Describe Recorded Data (stream g	auge, monito	pring well, aerial photos, p	previous insp	ections), if avail	lable:		
Remarks:							

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

(No. 1 - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species		
1. Larix laricina	70	✓	FACW	That are OBL, FACW, or FAC:3 (A)		
2. Acer rubrum	10		FAC			
3	0			Total Number of Dominant Species Across All Strata: 3 (B)		
4				Species Across Air Strata.		
5				Percent of dominant Species		
				That Are OBL, FACW, or FAC: 100.0% (A/B)		
6						
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15 )	80 =	= Total Cove	r	Total % Cover of: Multiply by:		
	30		FACW	0BL speci es 90 x 1 = 90		
•		<b>✓</b>	TACV	FACW species 100 x 2 = 200		
2				FAC speciles		
3				FACU species x 4 =		
4				'		
5	0			· ·		
6	0			Column Total s: <u>200</u> (A) <u>320</u> (B)		
7	0			Prevalence Index = B/A =1.600_		
	30 =	= Total Cove				
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:		
1 Calamagrostis canadensis	90	<b>✓</b>	OBL	✓ Rapid Test for Hydrophytic Vegetation		
2		Ē		✓ Dominance Test is > 50%		
				✓ Prevalence Index is ≤3.0 <sup>1</sup>		
3				$oxedsymbol{oxed}$ Morphological Adaptations $^1$ (Provide supporting		
4				data in Remarks or on a separate sheet)		
5				☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6						
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
8						
9				Definitions of Vegetation Strata:		
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
11				at breast height (DBH), regardless of height.		
12				,, · · · · · · · · · · · · · · · · · ·		
12.,		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: _30)	90 -	- Total Cove	•	greater than 3.28 ft (1m) tall		
1	0			Herb - All herbaceous (non-woody) plants, regardless of		
	0			size, and woody plants less than 3.28 ft tall.		
2	0					
3				Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
	0 =	= Total Cove	r			
				Hydrophytic		
				Vegetation Present? Yes  No		
				Present:		
Remarks: (Include photo numbers here or on a separate she	eet.)					

Sampling Point: w-51n24w25-f2

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

Soil Sampling Point: w-51n24w25-f2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)				lox Features					
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u> <u>Type</u> <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-24	10YR 3/2	100				Peat			
<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	A1)		Polyvalue Below	/ Surface (S8) (LRR I	Ρ,		LRR K, L, MLRA 149B)		
Histic Epip	edon (A2)		MLRA 149B)	(00) (100 0 111			(A16) (LRR K, L, R)		
Black Histi				ce (S9) (LRR R, MLF			r Peat (S3) (LRR K, L, R)		
	Sulfide (A4)			lineral (F1) LRR K, L)		Dark Surface (S7)			
	Layers (A5)		Loamy Gleyed N				irface (S8) (LRR K, L)		
	Below Dark Surface (A	11)	<ul><li>☐ Depleted Matrix</li><li>☐ Redox Dark Sur</li></ul>			Thin Dark Surface			
	Surface (A12)		Depleted Dark Sur			☐ Iron-Manganese Ma	asses (F12) (LRR K, L, R)		
	ck Mineral (S1)		Redox Depressi			Piedmont Floodplai	n Soils (F19) (MLRA 149B)		
	yed Matrix (S4)		☐ Redox Depressi	ons (i o)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)		
Sandy Red						Red Parent Materia	l (F21)		
Stripped N						Very Shallow Dark	Surface (TF12)		
☐ Dark Surfa	ace (S7) (LRR R, MLRA	(149B)				Other (Explain in R	emarks)		
<sup>3</sup> Indicators of	hydrophytic vegetatio	n and wetlan	d hydrology must be p	resent, unless disturl	ed or proble	ematic.			
Restrictive La	ayer (if observed):								
Type:									
Depth (inch	nes):					Hydric Soil Present?	Yes ● No ○		
Remarks:									
Kemarks.									