## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Aitkin		Samplin	<b>19 Date:</b> 30-Aug-17
Applicant/Owner: Enbridge				State: MN	Sai	mpling Point:	w-51n26w31-n2
Investigator(s): DPT			Section, To	wnship, Range:	<b>s.</b> 31	<b>T.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace, etc.):	Lowland		-	oncave, convex, n		ncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	Κ	Lat.:	46 52.2242	Long	-93 40.	.9089	Datum: NAD 83
Soil Map Unit Name: 625					NWI	classification:	PSS/EM5B
Are climatic/hydrologic conditions	on the site ty	nical for this time of ye	ear? Yes	s O No O	_	olain in Remarks	
Are Vegetation $\Box$ , Soil $\Box$	, or Hydrold		y disturbed?			nces" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrold		roblematic?			answers in Rei	marke \
Summary of Findings - A				. ,			•
Hydrophytic Vegetation Present?	Yes •	No O			-		
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes	No O	
Wetland Hydrology Present?	Yes	No O	WICH	l d vveudiu:	•		
Remarks: (Explain alternative pr	ocedures here	or in a senarate repor	+ )				
Hydrology							
Wetland Hydrology Indicators:					Secondary	Indicators (minim	num of 2 required)
Primary Indicators (minimum of	one required;	check all that apply)				e Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leav				ige Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13				Trim Lines (B16)	
Saturation (A3)  Water Marks (B1)		Marl Deposits (B15)				eason Water Table	e (C2)
Water Marks (B1) Sediment Deposits (B2)		Hydrogen Sulfide O		5 -+- (02)		sh Burrows (C8)	rial Imagary (CO)
Drift deposits (B3)		Oxidized Rhizosphe Presence of Reduce		Roots (C3)		ition Visible on Ae ed or Stressed Plar	
Algal Mat or Crust (B4)		Recent Iron Reduct	. ,	c (CA)		orphic Position (D	
Iron Deposits (B5)		Thin Muck Surface		s (CO)		w Aquitard (D3)	2)
Inundation Visible on Aerial Imag	ery (B7)	Other (Explain in Re	` '			opographic Relief	(D4)
Sparsely Vegetated Concave Surf	ace (B8)		,		<b>✓</b> FAC-no	eutral Test (D5)	
Field Observations:							
Surface Water Present? Yes		Depth (inches):	4				
Water Table Present? Yes	● No ○	Depth (inches):	0		_	<b>V</b> (	<b></b>
Saturation Present? (includes capillary fringe) Yes	● No ○	Depth (inches):	0	Wetland Hydr	ology Pres	ent? Yes	No O
Describe Recorded Data (stream	gauge, monito	ring well, aerial photo	s, previous ins	pections), if avail	able:		
Damarko.							
Remarks:							

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

(2)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species		
1. Larix laricina	5	✓	FACW	That are OBL, FACW, or FAC:6 (A)		
2	0			THE STATE OF THE S		
3				Total Number of Dominant Species Across All Strata: 6 (B)		
4						
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 100.0% (A/B)		
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15 )	5 =	= Total Cove	r	Total % Cover of: Multiply by:		
1. Alnus incana	60	<b>✓</b>	FACW	0BL speciles		
2. Cornus alba	00	<b>✓</b>	FACW	FACW species 105 x 2 = 210		
3	_			FAC speci es x 3 = 0		
4				FACU species0 x 4 =0		
	_			UPL speci es x 5 =0		
5	-			Column Totals:175 (A)280 (B)		
6						
7	0			Prevalence Index = B/A = 1.600		
Herb Stratum (Plot size: 5)	80=	= Total Cove	٢	Hydrophytic Vegetation Indicators:		
				✓ Rapid Test for Hydrophytic Vegetation		
1. Calamagrostis canadensis	40	<b>~</b>	OBL	✓ Dominance Test is > 50%		
2. Carex lacustris	30	<b>✓</b>	OBL	✓ Prevalence Index is ≤3.0 ¹		
3. Impatiens capensis	20	<b>✓</b>	FACW	Morphological Adaptations <sup>1</sup> (Provide supporting		
4	0			data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6						
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
8				be present, unless disturbed or problematic.		
				Definitions of Vegetation Strata:		
9						
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
11				at breast height (DBH), regardless of height.		
12				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		
	0			Llowh All hawbacacus (non woods) plants regardless of		
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
2				oleo, and moody plante loss than 6.20 it tam		
3	0			Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
	0 =	= Total Cove	r			
				Hydrophytic		
				Vegetation Present? Yes  No		
				1		
Remarks: (Include photo numbers here or on a separate she	et.)					

Sampling Point: w-51n26w31-n2

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

Soil Sampling Point: w-51n26w31-n2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type 1 Loc2									
(inches)	Color (moist)		Color (moist)		Loc <sup>2</sup>	Texture	Remarks		
-									
-									
			-						
<sup>1</sup> Type: C=Con	centration. D=Depletion	n. RM=Reduce	d Matrix, CS=Cover	ed or Coated Sand Gra	ains <sup>2</sup> Locat	tion: PL=Pore Lining. M=M	atrix		
Hydric Soil							ematic Hydric Soils: 3		
Histosol (			Polyvalue Belo	w Surface (S8) (LRR R	<u>.</u>				
	pedon (A2)		MLRA 149B)	(11)	•		LRR K, L, MLRA 149B)		
Black His			☐ Thin Dark Surf	face (S9) (LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)		
	Sulfide (A4)		Loamy Mucky	Mineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)		
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)			
	Below Dark Surface (A1	1)	☐ Depleted Matri				urface (S8) (LRR K, L)		
	k Surface (A12)	·	Redox Dark Su	ırface (F6)		Thin Dark Surface			
	ıck Mineral (S1)		☐ Depleted Dark	Surface (F7)			asses (F12) (LRR K, L, R)		
	eyed Matrix (S4)		Redox Depress	sions (F8)			in Soils (F19) (MLRA 149B)		
Sandy Re						Red Parent Materia	) (MLRA 144A, 145, 149B)		
	Matrix (S6)					Very Shallow Dark	, ,		
	ace (S7) (LRR R, MLRA	149B)				✓ Other (Explain in R			
31 maliantara a	f hydrophytic vegetatior	and watland	hudrologu must bo	nracant unlaca diaturh	ad ar prabla		emarks)		
		i and welland	nydrology must be	present, uniess disturt	ied of proble	emauc.			
	ayer (if observed):								
Type:						Hydric Soil Present?	Yes ● No ○		
Depth (inc	hes):					nyunc son Present	Yes S No C		
Remarks:									
No digging, p	otential buried utiliti	es. Soils ass	umed hydric bas	ed on vegetation ar	nd hydrolog	gy.			