## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	c	City/County: Aitkin	Sampling Date: 31-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51n24w26-aa4
Investigator(s): SMR		Section, Township, Range:	S. 26 T. 51N R. 24W
Landform (hillslope, terrace, etc.): Low	/land <b>L</b>	ocal relief (concave, convex, n	
Subregion (LRR or MLRA): LRR K	Lat.: 4	6 52.3875 <b>Long</b>	-93 20.3436 <b>Datum:</b> NAD 83
Soil Map Unit Name: 685			NWI classification: PFO1B
Are climatic/hydrologic conditions on the	e site typical for this time of yea	ar? Yes O No 💿	(If no, explain in Remarks.)
	r Hydrology $\square$ significantly		Circumstances" present? Yes • No
	r Hydrology		explain any answers in Remarks.)
		• ,	s, transects, important features, etc
	es   No		,
1 · · · · -	es   No	Is the Sampled Area within a Wetland?	Yes   No
	es   No	Within a Weuanus	163 0 110 0
Remarks: (Explain alternative procedu		1	
Hydrology			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one re	equired: check all that apply)		Secondary Indicators (minimum of 2 required)  Surface Soil Cracks (B6)
✓ Surface Water (A1)	Water-Stained Leave	es (B9)	Drainage Patterns (B10)
✓ High Water Table (A2)	Aquatic Fauna (B13)	, ,	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Od		Crayfish Burrows (C8)
Sediment Deposits (B2)		es along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced	• •	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)  Iron Deposits (B5)		on in Tilled Soils (C6)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7	Thin Muck Surface (	•	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8	Utilei (Explain in Kei	marks)	FAC-neutral Test (D5)
Field Observations: Surface Water Present?  Yes	No Depth (inches):	24	
Saturation Present?	No Depth (inches): _ No Depth (inches): _		ology Present? Yes   No
(includes capillary fringe)  Describe Recorded Data (stream gauge			able:
DOSS(122 (2.1.2 J J.	, mointening p	, provides inspection, ,	
Remarks:			

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

vegeration - ose scientific fiames of pi	Sampling Point: w-51n24w26-aa4			
(Dist. 20 )	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	_species:	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6				That Are OBL, FACW, OF FAC:
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	0 =	= Total Cove	r	Total % Cover of: Multiply by:
	0			0BL speci es <u>40</u> x 1 = <u>40</u>
1				FACW species 0 x 2 = 0
2				FAC speciles 0 x 3 = 0
3				FACU species 0 x 4 = 0
4				UPL speci es $0 \times 5 = 0$
5				Column Totals: 40 (A) 40 (B)
6				
7				Prevalence Index = B/A = 1.000
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
	20		OBL	Rapid Test for Hydrophytic Vegetation
1. Typha x glauca		<b>✓</b>	OBL	✓ Dominance Test is > 50%
2. Calamagrostis canadensis		<b>✓</b>	OBL	✓ Prevalence Index is ≤3.0 <sup>1</sup>
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	0			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
1	0			at breast height (DBH), regardless of height.
12				Sanling/abruh Waady plants loss than 2 in DBH and
Woody Vine Stratum (Plot size: 30 )	40 =	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
	0			Llowb All barbaccas (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	0			Size, and need, plane less than eize it tam
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
		= Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes No
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-51n24w26-aa4

Depth		Matrix			Redox Featu	ires		absence of indicators.)	
(inches)	Color	(moist)	%	Color (moist	)	Type <sup>1</sup>	Loc2	Texture	Remarks
0-9	10YR	2/2	100					Loam	
9-20	10YR	5/2	90	10YR 5/	4 10	С	M	Clay Loam	
	-								
Type: C=Cor	ncentration. I	D=Depletic	n. RM=Redi	uced Matrix, CS=Co	vered or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil									ematic Hydric Soils: 3
Histosol				Polyvalue I	Below Surface	(S8) (LRR F	<b>R</b> ,		
	ipedon (A2)			MLRA 149I	3)	. , .			(LRR K, L, MLRA 149B)
Black His				Thin Dark	Surface (S9) (	LRR R, MLF	RA 149B)		x (A16) (LRR K, L, R)
	n Sulfide (A4	)			ky Mineral (F1		1		or Peat (S3) (LRR K, L, R)
Stratified	Layers (A5)				yed Matrix (F2)	)		Dark Surface (S7)	urface (S8) (LRR K, L)
Depleted	Below Dark	Surface (A	11)	✓ Depleted N				Thin Dark Surface	
☐ Thick Da	rk Surface (A	112)		_	Surface (F6)				Masses (F12) (LRR K, L, R)
Sandy Mi	uck Mineral (	(S1)			ark Surface (F	7)			in Soils (F19) (MLRA 149B)
Sandy GI	eyed Matrix	(S4)		☐ Redox Dep	ressions (F8)				) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)							Red Parent Materi	
Stripped	Matrix (S6)							Very Shallow Dark	• •
☐ Dark Sur	Dark Surface (S7) (LRR R, MLRA 149B)			Other (Explain in Remarks)					
<sup>3</sup> Indicators o	of hydrophyti	c vegetatio	n and wetla	nd hydrology must	be present, un	ıless disturk	ned or probl		,
				···- ·· · · · · · · · · · · · · · · · ·					
Restrictive L	ayer (if ob	servea):							
Type:	1							Hydric Soil Present?	Yes ● No ○
Depth (inc	ches):							,	103 0 110 0
Remarks:									