## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 25-Aug-17
Applicant/Owner: Enbridge	State: M	N Sampling Point: u-51n24w27-b2
Investigator(s): PJK	Section, Township, Range:	<b>s.</b> 34 <b>t.</b> 51N <b>R.</b> 26W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex,	none): undulating
Subregion (LRR or MLRA): LRR K Lat.:	46 52.3746 <b>Lon</b>	g.: -93 22.419 Datum: NAD 83
Soil Map Unit Name: 1982		NWI classification: PSSB
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes O No •	(If no, explain in Remarks.)
	•	I Circumstances" present? Yes No
		- direamotanees present.
Are Vegetation	•	explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No •	Sampling point location	ins, transcess, important reactives, etc
, , , , , , , , , , , , , , , , , , ,	Is the Sampled Area	Yes ○ No ●
Van O Na 📦	within a Wetland?	Yes Uno U
Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate rep		
Hydrology		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)  Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Le	eaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B	• •	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B	15)	Dry Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide	Odor (C1)	Crayfish Burrows (C8)
	heres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)  Presence of Redu	, ,	Stunted or Stressed Plants (D1)
	uction in Tilled Soils (C6)	Geomorphic Position (D2)
Thirt wack surface	• •	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Inundation visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in	Remarks)	FAC-neutral Test (D5)
Field Observations:  Surface Water Present?  Yes No Depth (inches):	0	
· · · · · · · · · · · · · · · · · · ·		
Saturation Present? Ves No.   Denth (inches):	Wetland Hyd	rology Present? Yes O No 💿
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pho		ilabla
Describe Recorded Data (Stream gauge, monitoring well, aenai pho	tos, previous irispections), ir ava	nable.
Remarks:		

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

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(0) (1 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	_species:	Status	Number of Dominant Species		
1	0			That are OBL, FACW, or FAC: (A)		
2	0			Total Number of Dominant		
3	0			Species Across All Strata:1 (B)		
4	0					
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 0.0% (A/B)		
7				Prevalence Index worksheet:		
		= Total Cove		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15 )				0BL speci es 5 x 1 = 5		
1	0			FACW species 25 x 2 = 50		
2	0					
3				<u> </u>		
4				FACU species $95 \times 4 = 380$		
5				UPL species $0 \times 5 = 0$		
6.				Column Totals: <u>125</u> (A) <u>435</u> (B)		
				Provolence Index P/A 2.400		
7		= Total Cove		Prevalence Index = B/A = 3.480		
Herb Stratum (Plot size: 5		- rotar cove	•	Hydrophytic Vegetation Indicators:		
A Olaskan amaza	80	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation		
			FACW	☐ Dominance Test is > 50%		
				Prevalence Index is ≤3.0 <sup>1</sup>		
3. Solidago canadensis			FACU	☐ Morphological Adaptations <sup>1</sup> (Provide supporting		
4. Rubus idaeus			FACU	data in Remarks or on a separate sheet)		
5. Onoclea sensibilis			FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6. Carex lacustris	5		OBL			
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
8	0					
9	0			Definitions of Vegetation Strata:		
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1				at breast height (DBH), regardless of height.		
2		$\Box$				
	-	Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30				greater than 3.28 ft (1m) tall		
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.		
т.,	0 =	= Total Cove		l no.g. m		
		- Total Cove	•			
				Hydrophytic		
				Vogetation		
				Present? Yes No •		
Remarks: (Include photo numbers here or on a separate sl	neet.)					
•						

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

Soil Sampling Point: u-51n24w27-b2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth					_						
(inches)	Color (	moist)	%	Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR	2/2	100						Clay Loam		
5-20	10YR	4/3	95	10YR	4/4	5	С	M	Silt Loam		
		-	-	-							
			-								
			-								
			-								
		-									
<sup>1</sup> Type: C=Cond	centration. D	=Depletio	n. RM=Red	duced Matrix,	CS=Cover	ed or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=Ma	trix	
Hydric Soil I	indicators:								Indicators for Proble	matic Hydric Soils: 3	
Histosol (A	A1)					w Surface	(S8) (LRR I	R,		RR K, L, MLRA 149B)	
Histic Epip	pedon (A2)				RA 149B)						
☐ Black Hist	ic (A3)					face (S9) (I			☐ Coast Prairie Redox (A16) (LRR K, L, R) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen	Sulfide (A4)					Mineral (F1		)	Dark Surface (S7) (		
	Layers (A5)					Matrix (F2)	)			face (S8) (LRR K, L)	
	Below Dark S		11)		leted Matr	ıx (F3) ırface (F6)			Thin Dark Surface (		
	k Surface (A					Surface (F6)	7)		☐ Iron-Manganese Ma	sses (F12) (LRR K, L, R)	
	ick Mineral (S				lox Depres		7)		Piedmont Floodplair	n Soils (F19) (MLRA 149B)	
	eyed Matrix (	S4)		Keu	iox Depiles.	sions (10)			Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)	
Sandy Red									Red Parent Material	(F21)	
	Matrix (S6)								Very Shallow Dark S	Surface (TF12)	
☐ Dark Surfa	ace (S7) (LR	R R, MLRA	149B)						Other (Explain in Re	emarks)	
<sup>3</sup> Indicators of	f hydrophytic	vegetatio	n and wetl	and hydrolog	y must be	present, un	less distur	bed or probl	ematic.		
Restrictive La	ayer (if obs	erved):									
Type:											
Depth (incl	hes):								Hydric Soil Present?	Yes O No 💿	
Remarks:											
Kemarks.											