WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 29-Aug-17
Applicant/Owner: Enbridge	State	:: MN Sampling Point: w-51n25w35-e1
Investigator(s): SMR	Section, Township, Ra	nge: S. 35 T. 51N R. 25W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, conv	vex, none): concave Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.5618	Long.: -93 28.9763 Datum: NAD 83
Soil Map Unit Name: 292		NWI classification: N/A
Are climatic/hydrologic conditions on the site	typical for this time of year? Yes O No •	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydr		ormal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydr		ded, explain any answers in Remarks.)
	•	tions, transects, important features, etc
Hydrophytic Vegetation Present? Yes •	No O	
Hydric Soil Present? Yes ●	No Is the Sampled Ar within a Wetland	
Wetland Hydrology Present? Yes ●	No O	
Remarks: (Explain alternative procedures he	ere or in a separate report.)	
Hydrology		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required	d; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
✓ High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Water Marks (R1)	Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)☐ Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	☐ Thin Muck Surface (C7)	Shallow Aguitard (D3)
☐ Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):3	
Water Table Present? Yes No		Hydrology Present? Yes No
Saturation Present? Yes No Cincludes capillary fringe)	Depth (inches): 0	Hydrology Present? Yes No
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspections), if	f available:
Remarks:		

VEGETATION - Use scientific names of plants

(5)	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			
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				oposise risrose riii ettata.
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC:100.0% (A/B)
				Decordence Index weeks etc
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15		= Total Cove	r	Total % Cover of: Multiply by:
1 Salix petiolaris	10	✓	FACW	0BL speci es <u>100</u> x 1 = <u>100</u>
2				FACW species x 2 =
				FAC speci es
3				FACU species x 4 =0
4				UPL species x 5 =0
5				Column Total s:110 (A)120 (B)
6	0			Column lotals: 110 (A) 120 (5)
7	0			Prevalence Index = B/A = 1.091
(Plot size: 5	10 =	= Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				✓ Rapid Test for Hydrophytic Vegetation
1. Scirpus cyperinus	70	✓	OBL	✓ Dominance Test is > 50%
2. Persicaria sagittata	30	✓	OBL	
3				У Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				
				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
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	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(8) - 1 - 20	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				, ,
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 Present? Yes No ○
				Present? Yes No V
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-51n25w35-e1

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-51n25w35-e1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth (inches)					Redox Features				- <u>-</u> .	_		
(inches)	Color (%	Color (moist)	%_	Type ¹	Loc ²	Texture	Rem	narks	
0-6	10YR	3/3	100						Peat			
6-20	10YR	4/2	- 80	10YR	4/4	20	C	M	Very Fine Sandy Loam			
							_					
		-										
			-	-								
			-	-								
			-									
				-								
							_					
1 Type: C=Cond	centration. D	=Depletio	n. RM=Rec	luced Matrix.	CS=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix		
Hydric Soil I											a. 3	
Histosol (A				Polv	value Belo	w Surface	(S8) (LRR	R,	Indicators for Proble			
	pedon (A2)				A 149B)		(***)	,	2 cm Muck (A10) (
Black Histi				Thin	Dark Surf	ace (S9) ((LRR R, MLI	RA 149B)	Coast Prairie Redo		•	
Hydrogen	Sulfide (A4)			Loamy Mucky Mineral (F1) LRR K, L))	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)☐ Dark Surface (S7) (LRR K, L, M)			
Stratified I	Layers (A5)					Matrix (F2	2)		Polyvalue Below Si		RR K. I.)	
Depleted I	Below Dark S	Surface (A	11)		eted Matri				Thin Dark Surface			
Thick Dark	k Surface (A´	12)		_		ırface (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)			
	ck Mineral (S					Surface (F	- /)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
		d Matrix (S4) Redox Depressions (F8)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	andy Redox (S5)							Red Parent Material (F21)				
	Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)				
☐ Dark Surface (S7) (LRR R, MLRA 149B)							Other (Explain in Remarks)					
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be j	present, ur	nless distur	bed or proble	ematic.			
Restrictive La	ayer (if obs	erved):										
Туре:												
Depth (inch	hes):								Hydric Soil Present?	Yes 💿	No O	
Remarks:												