WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Aitkin Sampling Date: 07-Sep-17			
Applicant/Owner: Enbridge		State:	MN	Sampling Poir	nt: w-51n22w19-a3
Investigator(s): SMR	Section, T	ownship, Range	ge: S. 19	T. 51N	R. 22W
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex	, none):	concave	Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.0804	Lo	ong.: -93	3 10.2071	Datum: NAD 83
Soil Map Unit Name: 204B	-			WI classificati	ion: PFO1B
	ificantly disturbed? rally problematic? ing sampling p	(If needed	l, explain	nstances" prese any answers in ansects, im	n Remarks.)
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area in a Wetland?	Yes	● _{No} ○	
Remarks: (Explain alternative procedures here or in a separate	e report.)				

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)						
Primary Indicators (minimum of one required	I check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1)		Drainage Patterns (B10)						
✓ Surface Water (AT) ✓ High Water Table (A2)	Water-Stained Leaves (B9)							
	Aquatic Fauna (B13)	Moss Trim Lines (B16)						
	Marl Deposits (B15)	Dry Season Water Table (C2)						
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)						
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)						
Drift deposits (B3)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)	Geomorphic Position (D2)							
L Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (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	Depth (inches): 0	vdrology Present? Yes 🖲 No 🔾						
Saturation Present? (includes capillary fringe) Yes • No	Wetland H Depth (inches): 0	ydrology Present? Yes 🔍 No 🔾						
Describe Recorded Data (stream gauge, mon	toring well, aerial photos, previous inspections), if a	vailable:						
Remarks:								

VEGETATION - Use scientific names of plants

VEGETATION - Use sciencific names of plat	Sampling Point: w-51n22w19-a3			
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% 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: <u>2</u> (B)
4				
5				Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover		Total % Cover of: Multiply by:
1	0			OBL species <u>50</u> x 1 = <u>50</u>
	0			FACW species50 x 2 =100
2				FAC species $0 \times 3 = 0$
3	_			FACU species $0 \times 4 = 0$
4				UPL species $0 \times 5 = 0$
5				Column Totals:(A)(B)
6				·
7		Total Cover		Prevalence Index = $B/A = 1.500$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
1. Carex stricta	40		OBL	Rapid Test for Hydrophytic Vegetation
2. Carex lacustris			OBL	\checkmark Dominance Test is > 50%
3. Solidago gigantea			FACW	V Prevalence Index is \leq 3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting
5				data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				Tree Meedy plants 2 in (7.6 cm) or more in diameter
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12				
		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and 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 Cover		
				Hydrophytic Vegetation
				Present? Yes • No O
Remarks: (Include photo numbers here or on a separate she	et.)			

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

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Profile Descr	iption: (De	scribe to	the depth	needed to doc	ument the in	dicator or c	onfirm the	absence of indicators.)			
Depth <u>Matrix</u> (inches) <u>Color (moist)</u> %			Redox Features				·				
			<u>%</u>	Color (mo	ist) %	о Туре	Loc ²	Texture	Remarks		
0-3	10YR	2/1	100					Loam			
3-20	10YR	5/1	80	10YR	5/4 20	C	M	Silt Loam	·		
	67 		50°								
				·							
				·							
		-									
1 Turney C., Com			- DM Dee	Lucad Matrix CC	Covered or Co	antad Cand C	21.00	ation. DL Dara Lining M M	latrix		
		=Depletic	on. RIVI=Rec	iuced Matrix, CS=	Covered or Co	bated Sand G	rains ² Loca	ation: PL=Pore Lining. M=N			
Hydric Soil I						(00) (100	D	Indicators for Probl	ematic Hydric Soils: ³		
Histosol (MLRA 1	e Below Surfa 49B)	ce (58) (LRR	К,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)		
Black Hist	pedon (A2)			Thin Da	rk Surface (S9)) (LRR R, ML	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
	sulfide (A4)			🗌 Loamy I	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)			
	Layers (A5)			Loamy Gleyed Matrix (F2)							
	Below Dark S	Surface (A	(11)	🗹 Deplete	d Matrix (F3)			 Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) 			
	k Surface (A		,	Redox [ark Surface (F	-6)					
Sandy Mu	ick Mineral (S	S1)		Deplete	d Dark Surface	e (F7)					
	eyed Matrix (Redox [epressions (F	8)					
Sandy Re	dox (S5)							Red Parent Material (F21)			
Stripped N	Matrix (S6)							Very Shallow Dark Surface (TF12)			
Dark Surf	ace (S7) (LRI	R R, MLRA	A 149B)					Other (Explain in I			
³ Indicators of	f hvdrophytic	vegetatio	on and wetla	and hydrology mu	ist be present.	unless distur	bed or probl				
Restrictive L				, ,	•		•				
Type:	ayei (ii obs	erveu).									
Depth (incl	hes).							Hydric Soil Present?	Yes 🔍 No 🔾		
	nes).										
Remarks:											