WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	unty: Aitkin	Samplin	g Date: 06-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n23w27-g1
Investigator(s): SMR		Sect	tion, Township, Range:	s. 27 t. 51N	R. 23W
Landform (hillslope, terrace,	etc.): Lowland		elief (concave, convex, n		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	Lat.: 46 52.4	985 Long	-93 15.2268	Datum: NAD 83
Soil Map Unit Name: 546				NWI classification:	PSSB
Are climatic/hydrologic cond	litions on the site ty	pical for this time of year?	Yes ● No ○	(If no, explain in Remarks	5.)
Are Vegetation, Soil			bed? Are "Normal	Circumstances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrol	ogy naturally problema	rtic? (If needed, e	explain any answers in Ren	narks.)
_ ,		map showing sampli	,		•
Hydrophytic Vegetation Pre	sent? Yes •	No O			
Hydric Soil Present?	Yes 💿	No O	Is the Sampled Area within a Wetland?	Yes No	
Wetland Hydrology Present	_? Yes ⊙	No O			
Hydrology					
Wetland Hydrology Indicato	ors:			Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimu		check all that apply)		Surface Soil Cracks (B6)	uni or 2 required,
Surface Water (A1)		Water-Stained Leaves (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 Odor (C1)		Crayfish Burrows (C8)	(00)
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizospheres along		Saturation Visible on Aer Stunted or Stressed Plan	
Algal Mat or Crust (B4)		Presence of Reduced Iron (Recent Iron Reduction in Til	•	✓ Geomorphic Position (D2	• •
Iron Deposits (B5)		Thin Muck Surface (C7)	iled Solis (Co)	Shallow Aquitard (D3)	-)
Inundation Visible on Aeria	ıl Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Concav	ve Surface (B8)			FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes No	Depth (inches): 4			
Water Table Present?	Yes ● No ○	Depth (inches):0		ology Present? Yes	.
Saturation Present? (includes capillary fringe)	Yes ● No ○	Depth (inches): 0		ology Present? Yes	No C
Describe Recorded Data (st	ream gauge, monito	oring well, aerial photos, previo	ous inspections), if avail	able:	
Remarks:					

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pi	ancs			Sampling Point: w-51n23w27-g1
(0)	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:3 (A)
2	0			T. I.W. J. C. C. C. C.
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4				(2,
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
r		Tatal Cause		
Sapling/Shrub Stratum (Plot size: 15		= Total Cove	г	Total % Cover of: Multiply by:
1	0			OBL speci es <u>85</u> x 1 = <u>85</u>
2				FACW species <u>15</u> x 2 = <u>30</u>
				FAC speci es x 3 = 0
3				FACU species x 4 =0
4				UPL species $0 \times 5 = 0$
5			-	Column Totals: 100 (A) 115 (B)
6				
7				Prevalence Index = B/A = 1.150
Herb Stratum (Plot size: 5		Total Cove	r	Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1. Onoclea sensibilis	15		FACW	✓ Dominance Test is > 50%
2. Typha x glauca	30	✓	OBL	✓ Prevalence Index is ≤3.0 ¹
3. Scirpus cyperinus	15		OBL	
4. Scirpus atrovirens	20	✓	OBL	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. Calamagrostis canadensis	20	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
9				-
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	Total Cove	r	greater than 3.28 ft (1m) tall
	_			
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Size, and woody plants less than 5.20 it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cove	r	
				Hydrophytic
				Vegetation Present? Yes No No
				Present! 100 0 110 0
				I
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: w-51n23w27-g1

Depth (inches)
0-25 10YR 2/2 100 Peat
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: 3
✓ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2) This Police Coast Prairie Redox (A16) (LRR K. L. R)
Black Histic (A3) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K. L)
Thin Dark Surface (SP) (LRR K, L)
Thick Dark Surface (A12) Sandy Muck Mineral (S1) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Pledmont Floodplain Soils (F10) (MLRA 140R)
Redox Depressions (F8) Redox Depressions (F8)
Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Red Falent Material (121)
P. L. C. C. (CT) (LDD MIDA (LDD)
Utilei (Explain in Remains)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if observed):
Type:
Depth (inches): Hydric Soil Present? Yes • No
Remarks: