WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 25-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n26w36-a11
Investigator(s): SMR/RWS		Section, Township, Range:	S. 31 T. 51N R. 25W
Landform (hillslope, terrace, etc.): Mo	ound	Local relief (concave, convex, n	one): convex Slope: 7.0 % / 4.0
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.6529 Long	-93 31.8245 Datum: NAD 83
Soil Map Unit Name: 293			NWI classification: N/A
Are climatic/hydrologic conditions on the	he site typical for this time of ye	ear? Yes O No 💿	(If no, explain in Remarks.)
			Circumstances" present? Yes No
			explain any answers in Remarks.)
_ , _ ,		` ,	s, transects, important features, etc
Hydrophytic Vegetation Present?	Yes O No •		
Hydric Soil Present?	Yes O No 💿	Is the Sampled Area within a Wetland?	Yes ○ No ●
Wetland Hydrology Present?	Yes O No 💿	within a wedand:	
Remarks: (Explain alternative proced		+)	
Hydrology			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one r	required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leav	ves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13	3)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15))	Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide O		Crayfish Burrows (C8)
Sediment Deposits (B2)		eres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3) Algal Mat or Crust (B4)	Presence of Reduce	, ,	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		tion in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (E	Thin Muck Surface B7) Other (Explain in Re	• •	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (E	U Other (Explain in to	emarks)	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No Depth (inches):	0	
	No Depth (inches):		
	No Depth (inches):	Wetland Hydi	ology Present? Yes O No 💿
Describe Recorded Data (stream gaug	e, monitoring well, aerial photo	s, previous inspections), if avail	able:
Remarks:			

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: u-51n26w36-a11			
(8) -1 -20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Quercus alba		✓	FACU	That are OBL, FACW, or FAC: (A)
2				Total Number of Deminent
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4				
5				Percent of dominant Species
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 0.0% (A/B)
7		Ħ		Prevalence Index worksheet:
1.		- Total Cava	_	
Sapling/Shrub Stratum (Plot size: 15)	10 =	= Total Cove	г	Total % Cover of: Multiply by:
1	0			0BL species 0 x 1 = 0
2				FACW species 0 x 2 = 0
				FAC speci es x 3 =
3				FACU species80
4				UPL species $\frac{30}{100} \times 5 = \frac{150}{100}$
5				Column Totals: 110 (A) 470 (B)
6				
7	0			Prevalence Index = B/A = 4.273
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
		_		Rapid Test for Hydrophytic Vegetation
1. Pteridium aquilinum		✓	FACU	Dominance Test is > 50%
2. Eurybia macrophylla	30	✓	UPL	
3	0			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				Problematic Hydrophytic Vegetation (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Deminions of regetation strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(2)	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)		_		g
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		
			-	
				Hydrophytic
				Vogetation
				Present? Yes No •
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: u-51n26w36-a11

/!la \		Matrix		Redox Features		
(inches)	Color (ı	moist)	%	Color (moist) % Type 1 L	oc² Texture	Remarks
0-4	10YR	2/2	100		Clay Loam	
4-20	10YR	5/3	100		Clay Loam	
					-	•
						•
		-				
		-				
		-				
		-				
						·
Type: C=Cond	centration. D	=Depletio	n. RM=Redu	iced Matrix, CS=Covered or Coated Sand Grains	² Location: PL=Pore Lining. M=N	Matrix Matrix
Hydric Soil I	ndicators:				Indicators for Probl	ematic Hydric Soils: 3
Histosol (A	A1)			Polyvalue Below Surface (S8) (LRR R,		(LRR K, L, MLRA 149B)
Histic Epip	edon (A2)			MLRA 149B)	Coast Prairie Dad	ox (A16) (LRR K, L, R)
Black Histi	ic (A3)			☐ Thin Dark Surface (S9) (LRR R, MLRA 144	7D)	or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)			Loamy Mucky Mineral (F1) LRR K, L)	Dark Surface (S7)	
Stratified L	Layers (A5)			Loamy Gleyed Matrix (F2)	_	Surface (S8) (LRR K, L)
Depleted F	Below Dark S	urface (A	11)	Depleted Matrix (F3)	Thin Dark Surface	
Thick Dark	k Surface (A1	2)		Redox Dark Surface (F6)		
Sandy Mur	ck Mineral (S	1)		Depleted Dark Surface (F7)		Masses (F12) (LRR K, L, R)
	yed Matrix (S			Redox Depressions (F8)		ain Soils (F19) (MLRA 149B)
Sandy Red						5) (MLRA 144A, 145, 149B)
Stripped M					Red Parent Mater	• •
	ace (S7) (LRF	R MIRA	149B)		☐ Very Shallow Darl ☐ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
	200 (07) (2111				Other (Explain in	Remarks)
			n and wetlar	nd hydrology must be present, unless disturbed or	r problematic.	
	hydrophytic	vegetatio				
³ Indicators of						
³ Indicators of Restrictive La Type:	ayer (if obse				Hydric Soil Present?	Yes ○ No •
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