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 Point: u-51n23w24-c1
Investigator(s): PJK	Section, Township, Range: S. 24	T. 51N R. 23W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, none):	
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.965 Long.: -9	
Soil Map Unit Name: 292		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical fo	r this time of year? Yes No (If no	o, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	¬	mstances" present? Yes No
Are Vegetation , Soil , or Hydrology		n any answers in Remarks.)
Summary of Findings - Attach site map	, , ,	· ·
Hydrophytic Vegetation Present? Yes No •		
Hydric Soil Present? Yes No •	To the Complet Aven	s O No 💿
Wetland Hydrology Present? Yes No •		, , , , , , , , , , , , , , , , , , , ,
Remarks: (Explain alternative procedures here or in a		
Hydrology Wetland Hydrology Indicators:	Social	
Primary Indicators (minimum of one required; check		ndary Indicators (minimum of 2 required) Surface Soil Cracks (B6)
		Drainage Patterns (B10)
	` '	Moss Trim Lines (B16)
		Ory Season Water Table (C2)
	ydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
		Saturation Visible on Aerial Imagery (C9)
		Stunted or Stressed Plants (D1)
	` ′	Geomorphic Position (D2)
		Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	ther (Explain in Remarks)	FAC-neutral Test (D5)
, , ,		
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0	
Saturation Present?	Depth (inches): 0 Wetland Hydrology Depth (inches): 0	Present? Yes ○ No ●
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring we		
Remarks:		
Remarks.		

VEGETATION - Use scientific names of plants

Sampling Point:			Sampling Point: u-51n23w24-c1
(0) - 20	Absolute	Dominant Indica	
Tree Stratum (Plot size: 30)	% Cover	Species? Status	Number of Dominant Species
1		Ц	That are OBL, FACW, or FAC:0(A)
2			Total Number of Dominant
3	0		Species Across All Strata:1(B)
4			
5	0		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6	0		That Are OBL, TACW, OF TAC.
7	0		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover	Total % Cover of: Multiply by:
	0		0BL speci es x 1 =
1			FACW species5 x 2 =10
2			FAC speciles x 3 =0
3	-		FACU species 95 x 4 = 380
4			UPL speci es $0 \times 5 = 0$
5			Column Totals: 100 (A) 390 (B)
6	-		<u> </u>
7			Prevalence Index = B/A = 3.900
Herb Stratum (Plot size: 5)		Total Cover	Hydrophytic Vegetation Indicators:
	95	✓ FACU	Rapid Test for Hydrophytic Vegetation
0.000		FACW	Dominance Test is > 50%
		TACW	Prevalence Index is ≤3.0 ¹
3		H —	$oxed{igspace{1}{2}}$ Morphological Adaptations 1 (Provide supporting
4		H —	data in Remarks or on a separate sheet)
5		<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
6			Indicators of hydric soil and wetland hydrology must
7		H —	be present, unless disturbed or problematic.
8			Definitions of Vegetation Strata:
9		Н —	— Bernitions of Vegetation Strata.
10		Ц	Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11			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 Cover	greater than 3.28 ft (1m) tall
	0		Herb - All herbaceous (non-woody) plants, regardless of
1			size, and woody plants less than 3.28 ft tall.
2			—
3	0		 Woody vine - All woody vines greater than 3.28 ft in height.
4		Total Causer	
		Total Cover	
			Hydrophytic
			Vegetation
			Present? Yes No •
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.

Soil Sampling Point: u-51n23w24-c1

٠ مأم مد		trix	Redox Features	
inches)	Color (moi			oc ² Texture Remarks
0-4	10YR :	2/1 100		Silt Loam
4-6	10YR	3/2 100		Silt Loam
6-20	10YR	4/3 100		Very Fine Sandy Loam
				
				
ne: C=Con	centration D=De	enletion RM	Reduced Matrix, CS=Covered or Coated Sand Grains	21 ocation: PL –Pore Lining M–Matrix
	Indicators:	Spiction: Kivi	- reduced Matrix, 63-66Vered of coated Sand Grains	•
Histosol (A			Polyvalue Below Surface (S8) (LRR R,	Indicators for Problematic Hydric Soils: 3
	pedon (A2)		MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Histi			☐ Thin Dark Surface (S9) (LRR R, MLRA 149	9B) Coast Prairie Redox (A16) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky Mineral (F1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed Matrix (F2)	☐ Dark Surface (S7) (LRR K, L, M) ☐ Polyvalue Below Surface (S8) (LRR K, L)
Depleted I	Below Dark Surfa	ace (A11)	Depleted Matrix (F3)	☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dark	k Surface (A12)		Redox Dark Surface (F6)	☐ Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mu	ıck Mineral (S1)		Depleted Dark Surface (F7)	Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)		Redox Depressions (F8)	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Red				Red Parent Material (F21)
	Matrix (S6)			☐ Very Shallow Dark Surface (TF12)
Dark Surfa	ace (S7) (LRR R,	MLRA 149B)	Other (Explain in Remarks)
ndicators of	f hydrophytic veg	etation and	wetland hydrology must be present, unless disturbed or	problematic.
strictive La	ayer (if observe	ed):		
Type:				
Depth (inch	hes):			Hydric Soil Present? Yes No •
marks:	-			
narko.				