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: u-51n25w35-e3
Investigator(s): PJK	Section, To	wnship, Range: S. 35	T. 51N R. 24W
Landform (hillslope, terrace, etc.): Mound	Local relief (co	ncave, convex, none):	convex Slope: 1.7 % / 1.0
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.5563	Long.: -9	
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on the site	typical for this time of year? Yes	; ○ No ● (If n	o, explain in Remarks.)
Are Vegetation, Soil, or Hydr		•	mstances" present? Yes No
Are Vegetation , Soil , or Hydr			mounices present.
Summary of Findings - Attach sit	· ·		n any answers in Remarks.) ransects, important features, etc
Hydrophytic Vegetation Present? Yes	No •	,	unsecus, importante reactions, etc.
Hydric Soil Present? Yes	No ● Is the	Sampled Area	s O No 💿
Y (No • within	a Wetland? Ye	s U No U
Remarks: (Explain alternative procedures he			
Lludrology			
Hydrology Wetland Hydrology Indicators:			
Primary Indicators (minimum of one require	d. check all that apply)		ndary Indicators (minimum of 2 required)
Surface Water (A1)	Water-Stained Leaves (B9)		Surface Soil Cracks (B6) 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)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living		Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	=	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	` ′	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)		Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		FAC-neutral Test (D5)
			The field of the field (Be)
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0		
		Wetland Hydrology	Present? Yes O No
(includes capillary fringe) Yes V No			
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous insp	pections), if available:	
Remarks:			

VEGETATION - Use scientific names of plants

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(9)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			
5	0			Percent of dominant Species That Are OBL_FACW_or_FAC: 0.0% (A/B)
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cove		Total % Cover of: Multiply by:
4. Comples compute	25		FACU	0BL speci es x 1 =0
		✓	TAGO	FACW species
2				FAC speciles x 3 = 0
3				FACU species 110 x 4 = 440
4				UPL speci es $0 \times 5 = 0$
5				Column Totals: 125 (A) 470 (B)
6	=			
7				Prevalence Index = B/A = 3.760
Herb Stratum (Plot size: 5	25=	= Total Cove		Hydrophytic Vegetation Indicators:
1 Tanacetum vulgare	40	✓	FACU	Rapid Test for Hydrophytic Vegetation
0.00.000		<u>~</u>	FACU	☐ Dominance Test is > 50%
			FACU	Prevalence Index is ≤3.0 ¹
			FACW	☐ Morphological Adaptations ¹ (Provide supporting
			TACW	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
Woody Vine Stratum (Plot size: 30	100 =	Total Cove	•	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
4				height.
		= Total Cove	•	
				Hydrophytic
				Vegetation Company C
				Present? Yes V No V
Remarks: (Include photo numbers here or on a separate she	eet.)			

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

Soil Sampling Point: u-51n25w35-e3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth		Matrix		- ,	Redox Feat			_	
(inches)	Color	(moist)	%	Color (mois	:) %	Type ¹	Loc2	Texture	Remarks
0-4	10YR	2/1	100					Fine Sandy Loam	
4-20	10YR	5/3	80	10YR 5	4 20	С	М	Silt Loam	
	-			-					
		-							
		-	-						
	-		-						
			-						
¹ Type: C=Cond	centration. [=Depletio	n. RM=Red	duced Matrix, CS=Co	overed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil I		•							
Histosol (Polyvalue	Below Surface	(S8) (LRR E	2		ematic Hydric Soils: 3
	pedon (A2)			MLRA 149		(00) (2	• 1		(LRR K, L, MLRA 149B)
Black Hist				☐ Thin Dark	Surface (S9) ((LRR R, MLF	RA 149B)		x (A16) (LRR K, L, R)
	Sulfide (A4))		Loamy Mu	cky Mineral (F	1) LRR K, L))		or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gle	yed Matrix (F2	2)		Dark Surface (S7)	
	Below Dark	Surface (A	11)	Depleted N	Matrix (F3)				urface (S8) (LRR K, L)
	k Surface (A		,	Redox Dar	k Surface (F6)			Thin Dark Surface	
	ick Mineral (Depleted [Oark Surface (F	7)			lasses (F12) (LRR K, L, R)
	eyed Matrix (Redox Dep	ressions (F8)				in Soils (F19) (MLRA 149B)
Sandy Red		,) (MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Materia Very Shallow Dark	
	ace (S7) (LR	R R, MLRA	149B)					Other (Explain in F	
					h	-11:-4	hl		Remarks)
			n and well	and hydrology must	be present, ur	ness disturi	bea or probi	lematic.	
Restrictive La	ayer (if obs	served):							
Type:								Hydric Soil Present?	Yes ○ No •
Depth (incl	hes):							nyunc son Presents	Yes ○ No ●
Remarks:									
1									