WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Aitkin	Sampling Date: 22-Aug-1	7
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n25w33	3-a1
Investigator(s): DPT/SMR	Section, To	wnship, Range: S. 33	T. 51N R. 25V	N
Landform (hillslope, terrace, etc.): Mound	Local relief (co	ncave, convex, none):	convex Slope: 3.5 %	/°
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.6939	Long.: -9	3 31.6007 Datum: NA	D 83
Soil Map Unit Name: 292			NWI classification: N/A	
Are climatic/hydrologic conditions on the site	vnical for this time of year? Yes	○ No ● (If no	o, explain in Remarks.)	
Are Vegetation, Soil, or Hydro		`	mstances" present? Yes No	\circ
Are Vegetation, Soil, or Hydro			n any answers in Remarks.)	
Summary of Findings - Attach sit			•	s. etc
Hydrophytic Vegetation Present? Yes	No •			
Hydric Soil Present? Yes Yes	No () Is the	Sampled Area	s ○ No ●	
Wetland Hydrology Present?	No • within	a Wetland? Yes		
Remarks: (Explain alternative procedures he				
Hydrology				
Wetland Hydrology Indicators:		Saca	-landinators (minimum of 2 required)	
Primary Indicators (minimum of one required	l· check all that apply)		ndary Indicators (minimum of 2 required) Surface Soil Cracks (B6)	_
Surface Water (A1)	Water-Stained Leaves (B9)		Orainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Ory Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres along Living F		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) Aicrotopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)	U Other (Explain in Remarks)		AC-neutral Test (D5)	
			710 Hedital Test (BB)	
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0			
	Depth (inches): 0	Wetland Hydrology	Present? Yes O No •	
(includes capillary fringe) Yes V No	Depth (inches):0			
Describe Recorded Data (stream gauge, mon	toring well, aerial photos, previous insp	ections), if available:		
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - USE Scientific fiames of pia	Sampling Point: u-51n25w33-a1			
(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: (A)
2	0			T. I.N. J. CD. J. J.
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4				
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
				Prevalence Index worksheet:
7				
Sapling/Shrub Stratum (Plot size: 15		= Total Cove	r	Total % Cover of: Multiply by:
1	0			0BL speci es x 1 =0
2				FACW species 0 x 2 = 0
				FAC speci es x 3 =0
3				FACU species 100 x 4 = 400
4				UPL speci es $0 \times 5 = 0$
5				Column Totals: 100 (A) 400 (B)
6				COLUMN TOTALS.
7	0			Prevalence Index = B/A = 4.000
Herb Stratum (Plot size: 5)	0 =	Total Cove	r	Hydrophytic Vegetation Indicators:
	_	_		Rapid Test for Hydrophytic Vegetation
1. Trifolium pratense	30	✓	FACU	Dominance Test is > 50%
2. Taraxacum officinale	30	✓	FACU	
3. Poa pratensis	30	✓	FACU	Prevalence Index is ≤3.0 ¹
4. Trifolium repens			FACU	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				
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				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				
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	r	
				Hydrophytic
				Vegetation
				Present? Yes V No V
Remarks: (Include photo numbers here or on a separate sh	neet.)			

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

Soil Sampling Point: u-51n25w33-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth (inches)	Matrix Color (moist) %		Redox Features Color (moist) % Type 1		Loc ²	Texture	Ren	narks				
0-9	10YR	3/3	100				-775-		Silt Loam			
9-20	10YR	5/1	90	10YR	4/6 10				Silty Clay Loam			
					4/0 10	·		IVI	- Silty Clay Loan			
									N-			
	-											
1 Type: C=Con	 centration Γ)=Denletic	n RM=Rec	Juced Matrix CS:	=Covered or	Coated	d Sand Gr	ains 21 oca	ation: PL=Pore Lining. M	=Matrix		
Hydric Soil 1			71. TUVI—TUC	ideed Watin, 65-	-0070104 01	Oddice	a sana si	amis 2000				
Histosol (Polyvali	ue Below Su	rfaca (S	(9) /I DD E)	Indicators for Pro			
	pedon (A2)			MLRA 1		riace (S	O) (LIKIK I	.,		D) (LRR K, L, MLI		
Black Hist				☐ Thin Da	rk Surface (S9) (LF	RR R, MLF	A 149B)		edox (A16) (LRR K, L, R)		
	n Sulfide (A4))		Loamy	Mucky Miner	ral (F1)	LRR K, L)			at or Peat (S3) (I		
_	Layers (A5)	•		Loamy	Gleyed Matr	ix (F2)				67) (LRR K, L, M)		
	Below Dark	Surface (A	.11)	✓ Deplete	d Matrix (F3	3)			☐ Polyvalue Below Surface (S8) (LRR K, L) ☐ Thin Dark Surface (S9) (LRR K, L)			
☐ Thick Dar	rk Surface (A	12)		_	Dark Surface					e Masses (F12) (
Sandy Mu	uck Mineral (S1)			d Dark Surfa)					
Sandy Gle	eyed Matrix ((S4)		☐ Redox [Depressions	(F8)			Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Re	edox (S5)								Red Parent Mat	1, 143, 1470)		
Stripped I	Matrix (S6)								☐ Very Shallow Dark Surface (TF12)			
☐ Dark Surf	face (S7) (LR	R R, MLRA	A 149B)						Other (Explain		,	
³ Indicators o	f hydrophytic	c vegetatio	n and wetl	and hydrology m	ust be prese	nt, unle	ess disturb	ed or proble		•		
Restrictive L								•				
Type:	ayer (ii obs	sc. vcu j.										
Depth (inc	hes).								Hydric Soil Present	? Yes ●	No O	
•												
Remarks:												