## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	County: Aitkin	Samplin	<b>g Date:</b> 24-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n26w35-a4
Investigator(s): DPT/SMR		Se	ction, Township, Range:	<b>s.</b> 35 <b>t.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace, etc.):	Mound		relief (concave, convex, r		Slope: 3.5 % / 2.0 °
Subregion (LRR or MLRA): LRR K		<b>Lat.:</b> 46 51.	7977 <b>Long</b>	-93 36.3117	Datum: NAD 83
Soil Map Unit Name: 1983				NWI classification:	N/A
Are climatic/hydrologic conditions or	ı the site tyr	pical for this time of year?	Yes ○ No •	— (If no, explain in Remarks	<b>)</b>
Are Vegetation $\Box$ , Soil $\Box$	, or Hydrolo			Circumstances" present?	Yes   No
	, or Hydrolo			explain any answers in Ren	narke \
Summary of Findings - Att			,	•	•
Hydrophytic Vegetation Present?	Yes O	No •		<u> </u>	
Hydric Soil Present?	$_{Yes}  \cap$	No •	Is the Sampled Area within a Wetland?	Yes ○ No ●	
Wetland Hydrology Present?	Yes $\bigcirc$	No •	Within a Wedana:		
Remarks: (Explain alternative proc		or in a senarate report.)			
Hydrology					
Wetland Hydrology Indicators:		_		_Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one	e required;	check all that apply)		Surface Soil Cracks (B6)	uiii bi z reguiicu,
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 (C		Crayfish Burrows (C8)	
Sediment Deposits (B2)  Drift deposits (B3)		Oxidized Rhizospheres alo		Saturation Visible on Aer	0 3 . ,
Algal Mat or Crust (B4)		Presence of Reduced Iron  Recent Iron Reduction in 3		Stunted or Stressed Plan Geomorphic Position (D2	` '
Iron Deposits (B5)		Thin Muck Surface (C7)	Tilled Solis (Co)	Shallow Aquitard (D3)	2)
Inundation Visible on Aerial Imagery	(B7)	Other (Explain in Remarks	1	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface	(B8)	Other (Explain in Remarks	,	FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes	No 💿	Depth (inches):	0		
Water Table Present? Yes	No 💿	Depth (inches):	0		
Saturation Present? (includes capillary fringe) Yes	No •	Depth (inches):	0 Wetland Hydi	rology Present? Yes	) No ●
Describe Recorded Data (stream gai	uge, monito	ring well, aerial photos, prev	vious inspections), if avai	able:	
Remarks:					

## **VEGETATION - Use scientific names of plants**

vegeration - ose scientific fiames of pr	Sampling Point: u-51n26w35-a4						
(District 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30 )	% Cover		Status	Number of Dominant Species			
1. Populus tremuloides		<b>✓</b>	FACU	That are OBL, FACW, or FAC: (A)			
2. Betula papyrifera		<b>✓</b>	FACU	Total Number of Dominant			
3	0			Species Across All Strata:6(B)			
4							
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
6	0			That Air OBE, Thow, of the			
7	0			Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15 )	80=	= Total Cove	r	Total % Cover of: Multiply by:  OBL species 0 x 1 = 0			
1 Corylus cornuta	70	<b>✓</b>	FACU				
2	0	Ī		FACW species 0 x 2 = 0			
3				FAC speciles $0 \times 3 = 0$			
4				FACU species x 4 =800			
5				UPL speci es $\frac{50}{}$ x 5 = $\frac{250}{}$			
6				Column Totals: <u>250</u> (A) <u>1050</u> (B)			
7	=			Prevalence Index = B/A = 4.200			
		= Total Cove	r	Hydrophytic Vegetation Indicators:			
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation			
1. Eurybia macrophylia	50	✓	UPL	Dominance Test is > 50%			
2. Aralia nudicaulis	30	✓	FACU	Prevalence Index is ≤3.0 ¹			
3. Pteridium aquilinum	20	<b>✓</b>	FACU				
4	0			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6							
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
8				be present, unless disturbed or problematic.			
9				Definitions of Vegetation Strata:			
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
1				at breast height (DBH), regardless of height.			
2		П					
Woody Vine Stratum (Plot size: 30 )	-	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall			
1	0			Herb - All herbaceous (non-woody) plants, regardless of			
_		П		size, and woody plants less than 3.28 ft tall.			
2		П					
				Woody vine - All woody vines greater than 3.28 ft in height.			
4		= Total Cove		Thoight.			
		- Total Cove	•				
				Hydrophytic Vegetation Present?  Yes No   No			
Remarks: (Include photo numbers here or on a separate s	hoot )						
Remarks. (Include photo humbers here of on a separate s	neet.)						

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n26w35-a4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth (in alca)	Matrix			Redox Features			_				
(inches)	Color (		%	Color (mo	ist) %	Type <sup>1</sup>	Loc²	Texture	Remarks		
0-5	10YR	3/2	100					Silt Loam			
5-12	10YR	4/3	100					Silt Loam			
									<del>-</del>		
			-			-	-		<del></del>		
1- 00											
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Location: PL=Pore Lining. M=Matrix											
Hydric Soil I								Indicators for Pro	blematic Hydric Soils: 3		
Histosol (A				Polyvalu MLRA 1₄	e Below Surfac	ce (S8) (LRR F	₹,	2 cm Muck (A10	) (LRR K, L, MLRA 149B)		
Histic Epip					k Surface (S9)	(LRR R. MLF	RA 149B)	Coast Prairie Re	dox (A16) (LRR K, L, R)		
Black Histi					Mucky Mineral			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4) Layers (A5)			_	Gleyed Matrix (			Dark Surface (S	7) (LRR K, L, M)		
	Layers (AS) Below Dark S	Surface (A	11)	_	d Matrix (F3)	,		Polyvalue Below Surface (S8) (LRR K, L)			
	Surface (A1		11)		ark Surface (F	6)		☐ Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S			☐ Depleted	d Dark Surface	(F7)			Masses (F12) (LRR K, L, R)		
	yed Matrix (S			Redox D	epressions (F8	3)			olain Soils (F19) (MLRA 149B)		
Sandy Red		51)							A6) (MLRA 144A, 145, 149B)		
Stripped M								Red Parent Mate			
	ace (S7) (LRF	R R, MLRA	149B)						rk Surface (TF12)		
								Other (Explain in	1 Remarks)		
			n and well	and hydrology mu	ist be present,	uniess disturt	bea or proble	ematic.			
Restrictive La		erved):									
Type: Ro								Hydric Soil Present?	Yes O No 💿		
Depth (inch	nes): 12							,	163 0 140 0		
Remarks:											
1											
1											
•											
1											
1											
1											