## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Aitkin	Sampli	ng Date: 28-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n24w28-a5
Investigator(s): SMR		Section, T	ownship, Range: S. 28	<b>T.</b> 51N	<b>R.</b> 24W
Landform (hillslope, terrace, etc.): Mound		Local relief (c	oncave, convex, none):	convex	Slope: <u>12.2</u> % / <u>7.0</u> °
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.1441	<b>Long.:</b> -9:	3 25.640	Datum: NAD 83
Soil Map Unit Name: 124		-		NWI classification:	N/A
Are Vegetation , Soil , or Hydrophytic Vegetation Present?	drologynaturally site map showing s		(If needed, explain oint locations, tr		emarks.)
Hydric Soil Present?     Yes       Wetland Hydrology Present?     Yes		withi	n a Wetland? Yes	Νο 🔍	
Remarks: (Explain alternative procedures WETS analysis shows precip is below norm			soils assumed non-hydr	ic based on vegeta	tion.

## Hydrology

Wetland Hydrology Indicato	ors:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimu	m of one required;	check all that apply)	Surface Soil Cracks (B6)
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 (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidized Rhizospheres along Living Roots (C3)	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 (C6)	Geomorphic Position (D2)
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aeria	l Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concav	e Surface (B8)		FAC-neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes 🔾 🛛 No 🖲	Depth (inches): 0	
Water Table Present?	Yes 🔿 No 🖲	Depth (inches):0	ydrology Present? Yes 🔾 No 🖲
Saturation Present? (includes capillary fringe)	Yes O No 🔍	Wetland Hy     Depth (inches):   0	ydrology Present? Yes 🔾 No 🖲
Describe Recorded Data (str	ream gauge, monito	ring well, aerial photos, previous inspections), if av	/ailable:
Remarks:			

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

VEGETATION - Use scientific names of plan	nts			Sampling Point: u-51n24w28-a5
	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				Total Number of Dominant
3	0			Species Across All Strata:(B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:0.0% (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	0 =	Total Cover		Total % Cover of: Multiply by:
	0			OBL species x 1 =
1				FACW species $0 \times 2 = 0$
2	-			FAC species $0 \times 3 = 0$
3				<b>FACU species</b> $30 \times 4 = 120$
4 5				UPL species x 5 =350
				Column Totals:(A)470 (B)
6				·
7		Total Cover		Prevalence Index = $B/A = 4.700$
Herb Stratum (Plot size: 5 )	=			Hydrophytic Vegetation Indicators:
1. Taraxacum officinale	15		FACU	Rapid Test for Hydrophytic Vegetation
2. Bromus inermis		$\checkmark$	UPL	Dominance Test is > 50%
3. Cirsium arvense			FACU	Prevalence Index is ≤3.0 <sup>1</sup>
4				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5				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:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				
		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and 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.
	=	Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes O 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.

US Army Corps of Engineers

(inches)	Matrix	<u> </u>	Redox Features	- <u>-</u> .
	Color (moist)	%	Color (moist) <u>%</u> Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
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pe: C=Conce	entration. D=Depletion.	RM=Redu	ced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Loca	ation: PL=Pore Lining. M=Matrix
dric Soil In	dicators:			Indicators for Problematic Hydric Soils : $^3$
Histosol (A1			Polyvalue Below Surface (S8) (LRR R,	
] Histic Epipe	•		MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Histic			Thin Dark Surface (S9) (LRR R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
] Hydrogen S			Loamy Mucky Mineral (F1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified La			Loamy Gleyed Matrix (F2)	Dark Surface (S7) (LRR K, L, M)
	elow Dark Surface (A11	`	Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L)
		)	Redox Dark Surface (F6)	Thin Dark Surface (S9) (LRR K, L)
-	Surface (A12)		Depleted Dark Surface (F7)	Iron-Manganese Masses (F12) (LRR K, L, R)
-	k Mineral (S1)		Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)
	ved Matrix (S4)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redo				Red Parent Material (F21)
Stripped Ma				Very Shallow Dark Surface (TF12)
	ce (S7) (LRR R, MLRA 1	49B)		Other (Explain in Remarks)
Dark Surfac			d hydrology must be present, unless disturbed or probl	
	hydrophytic vegetation a	and wetlan		
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ndicators of h strictive Lay	yer (if observed):	and wetlan		Hydric Soil Present? Yes O No 💿
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