## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Aitkin	Samplir	ng Date: 24-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n26w35-a1
Investigator(s): DPT/SMR		Section, T	ownship, Range: S. 35	<b>T.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace, etc.):	Lowland	Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.8271	<b>Long.:</b> -9:	3 36.8254	Datum: NAD 83
Soil Map Unit Name: 1150		-	I	WI classification:	N/A
Are Vegetation, Soil Are Vegetation, Soil Summary of Findings - At	, or Hydrology 🗌 naturally	tly disturbed? problematic? sampling p		any answers in Re	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● No ○ Yes ● No ○ Yes ● No ○		e Sampled Area n a Wetland? Yes	● <sub>No</sub> ○	
Remarks: (Explain alternative pro WETS analysis shows precipitation		-	ties.		

## Hydrology

	Secondary Indicators (minimum of 2 required)
check all that apply)	Surface Soil Cracks (B6)
Water-Stained Leaves (B9)	Drainage Patterns (B10)
Aquatic Fauna (B13)	Moss Trim Lines (B16)
Marl Deposits (B15)	Dry Season Water Table (C2)
	Crayfish Burrows (C8)
	Saturation Visible on Aerial Imagery (C9)
	Stunted or Stressed Plants (D1)
	Geomorphic Position (D2)
	Shallow Aquitard (D3)
	Microtopographic Relief (D4)
	FAC-neutral Test (D5)
Depth (inches): <u>6</u>	
Depth (inches): 0	rdrology Present? Yes 🖲 No 🔿
Wetland Hy           Depth (inches):         0	ydrology Present? Yes 🔍 No 🔾
ring well, aerial photos, previous inspections), if av	vailable:
	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Other (Explain in Remarks)         Depth (inches):       6         Depth (inches):       0         Wetland Hy

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

vederation - use sciencing names of plan	lits			Sampling Point: w-51n26w35-a1
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% 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: <u>2</u> (B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6				
7	0			Prevalence Index worksheet:
	0 =	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )		_		OBL species x 1 =00
1				FACW species x 2 =0
2				FAC species x 3 =
3				FACU species $0 \times 4 = 0$
4	-			UPL species $0 \times 5 = 0$
5				
6	0			Column Totals: <u>100</u> (A) <u>100</u> (B)
7	0			Prevalence Index = $B/A = 1.000$
Herb Stratum (Plot size: 5)	0 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Fibt Size. 5				Rapid Test for Hydrophytic Vegetation
1. Carex lacustris	60	$\checkmark$	OBL	✓ Dominance Test is > 50%
2. Typha x glauca	40	$\checkmark$	OBL	<b>V</b> Prevalence Index is $\leq$ 3.0 $^{1}$
3	0			Morphological Adaptations <sup>1</sup> (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7	0			<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.
	0 =	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.

US Army Corps of Engineers

Depth Matrix	Redox Features	the absence of indicators.)
(inches) Color (moist) %		c <sup>2</sup> Texture Remarks
· · ·		·
		·
ype: C=Concentration. D=Depletion. RM=R	educed Matrix, CS=Covered or Coated Sand Grains	<sup>2</sup> Location: PL=Pore Lining. M=Matrix
lydric Soil Indicators:		Indicators for Problematic Hydric Soils : $^3$
Histosol (A1)	Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)	
Black Histic (A3)	Thin Dark Surface (S9) (LRR R, MLRA 149	= 5  cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) LRR K, L)	
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Dark Surface (S7) (LRR K, L, M)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Thin Dark Surface (S9) (LRR K, L)
Sandy Muck Mineral (S1)	Depleted Dark Surface (F7)	Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)
		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)		Red Parent Material (F21)
Stripped Matrix (S6)		Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)		Other (Explain in Remarks)
Dark Surface (S7) (LRR R, MLRA 149B)	tland hydrology must be present, unless disturbed or	
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