WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	ject/Site: RSA 22		Aitkin	Samplir	Sampling Date: 22-Aug-17	
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n26w33-a1	
Investigator(s): DPT/SMR		Section, T	ownship, Range: S. 33	T. 51N	R. 26W	
Landform (hillslope, terrace, etc.):	Shoulder slope	Local relief (c	oncave, convex, none):	flat	Slope: <u>3.5</u> % / <u>2.0</u> °	
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.8832	Long.: _9	3 38.7935	Datum: NAD 83	
Soil Map Unit Name: 628			<u>_</u>	NWI classification:	N/A	
Are Vegetation , Soil Are Vegetation , Soil Summary of Findings - At	, or Hydrology 🗌 naturally	ntly disturbed? problematic? sampling p	(If needed, explain	mstances" present? n any answers in Re ansects, impo	,	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ○ No ● Yes ○ No ● Yes ○ No ●		e Sampled Area n a Wetland? Yes	; 🔿 No 🖲		
Remarks: (Explain alternative pro WETS analysis shows precipitation		ort.)				

Hydrology

Wetland Hydrology Indicators	5:		Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum	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 Aerial I	magery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave	Surface (B8)		FAC-neutral Test (D5)		
Field Observations:					
Surface Water Present? Y	'es 🔾 🛛 No 🖲	Depth (inches): 0			
Water Table Present? Y	ies 🔿 🛛 No 🖲	Depth (inches): 0	ydrology Present? Yes 🔿 No 🖲		
Saturation Present? (includes capillary fringe)	es 🔿 🛛 No 🖲	Depth (inches):0	ydrology Present? Yes 🔾 No 🖲		
Describe Recorded Data (strea	am gauge, monito	ring well, aerial photos, previous inspections), if av	vailable:		
Remarks:					

VEGETATION - Use scientific names of plants

vegeration - use scientific names of plai	Sampling Point: u-51n26w33-a1			
	Absolute	Dominant	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				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 0.0% (A/B)
6 7				Prevalence Index worksheet:
		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species x 1 =
1	0			FACW species $0 \times 2 = 0$
2	0			FAC species x 3 =
3	0			FACU species $60 \times 4 = 240$
4				UPL species $\frac{40}{x5} = \frac{200}{200}$
5	-			
6				
7				Prevalence Index = $B/A = 4.400$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
1. Trifolium pratense	40	\checkmark	FACU	Rapid Test for Hydrophytic Vegetation
2, Eurybla macrophylla			UPL	Dominance Test is > 50%
3. Bromus Inermis	20		UPL	Prevalence Index is \leq 3.0 ¹
4. Poa pratensis	10		FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. Cirsium arvense	10		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ 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	0			at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: <u>30</u>)	100 =	Total Cover		greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	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		5
				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	ie ueptii ne		lox Featu			absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
^I Type: C=Conce	entration. D=Depletion.	RM=Reduce	ed Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil In	ndicators:						Indicators for Proble	ematic Hydric Soils : ³
Histosol (A	.1)		Polyvalue Belov	/ Surface ((S8) (LRR R	,		(LRR K, L, MLRA 149B)
Histic Epipe	edon (A2)		MLRA 149B)				_	x (A16) (LRR K, L, R)
Black Histic	c (A3)		Thin Dark Surfa			A 149B)		or Peat (S3) (LRR K, L, R)
Hydrogen S	Sulfide (A4)		Loamy Mucky M				Dark Surface (S7)	
Stratified L	ayers (A5)		Loamy Gleyed M)			urface (S8) (LRR K, L)
Depleted B	Below Dark Surface (A11)	Depleted Matrix				Thin Dark Surface	
Thick Dark	Surface (A12)		Redox Dark Sur					lasses (F12) (LRR K, L, R)
Sandy Muc	k Mineral (S1)		Depleted Dark S		7)			in Soils (F19) (MLRA 149B)
Sandy Gley	yed Matrix (S4)		Redox Depressi	ons (F8)) (MLRA 144A, 145, 149B)
Sandy Red	ox (S5)						Red Parent Materia	
Stripped M	latrix (S6)						Very Shallow Dark	
Dark Surfa	ce (S7) (LRR R, MLRA 1	49B)					Other (Explain in F	
³ Indicators of	hydrophytic vegetation	and wotland	hydrology must be p	rosont un	loce disturb	od or proble		(Ciriai K3)
			nydrology must be p	lesent, un				
	yer (if observed):							
Туре:							Hydric Soil Present?	Yes 🔿 No 🖲
Depth (inch	es):						Tryanc Son Fresent:	res O No O
Remarks:								
No digging, p	otential buried utilitie	es. Soils a	ssumed non-hydric	based o	n vegetatio	on and hy	drology.	
			2		Ū	, ,		