WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/	/County: Aitkin		Samplin	g Date: 01-Sep-17
Applicant/Owner: Enbridge			Sta	ate: MN	Sampling Point:	w-51n23w29-a1
Investigator(s): SMR		S	Section, Township, F	Range: S. 29		R. 23W
Landform (hillslope, terrace, etc.):	Lowland		I relief (concave, co	_		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46 52	2.3382	Long.: -9	73 17.4930	Datum: NAD 83
Soil Map Unit Name: 870E					NWI classification:	N/A
Are climatic/hydrologic conditions o	n the site ty	pical for this time of year?	Yes No	O (If n	o, explain in Remarks	5.)
Are Vegetation , Soil	, or Hydrold	ogy significantly dist	turbed? Are "	=	mstances" present?	Yes ● No ○
Are Vegetation , Soil	, or Hydrolo	ogy naturally proble			in any answers in Rer	narks.)
Summary of Findings - At	•		•	, .	•	•
Hydrophytic Vegetation Present?	Yes	No O				
Hydric Soil Present?	Yes	No O	Is the Sampled within a Wetlan		s • No O	
Wetland Hydrology Present?	Yes	No O		ш.		
Hydrology						
Wetland Hydrology Indicators:				2002	Indicators (minim	····· of 2 required)
Primary Indicators (minimum of or	ne reauired;	check all that apply)			ndary Indicators (minim Surface Soil Cracks (B6)	um of 2 requirea)
Surface Water (A1)		Water-Stained Leaves (B	39)		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 (0			Crayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres al		_	Saturation Visible on Aer	
Drift deposits (B3) Algal Mat or Crust (B4)		Presence of Reduced Iro	, ,	_	Stunted or Stressed Plar Geomorphic Position (D2	, ,
Iron Deposits (B5)		Recent Iron Reduction in	1 Tilled Soils (C6)		Geomorphic Position (D2 Shallow Aquitard (D3)	2)
Inundation Visible on Aerial Imager	v (B7)	☐ Thin Muck Surface (C7) ☐ Other (Explain in Remark	la)	_	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surfac		Utilet (Explain in Kemark	(S)	_	FAC-neutral Test (D5)	(51)
Field Observations:						
Surface Water Present? Yes •	No 🔾	Depth (inches):	3			
Water Table Present? Yes ©	No 🔾	Depth (inches):	0			
Saturation Present? (includes capillary fringe) Yes	No 🔾	Depth (inches):	0 Wetlan	nd Hydrology	Present? Yes	No O
Describe Recorded Data (stream ga	uge, monito	oring well, aerial photos, pre	evious inspections),	, if available:		
Remarks:						

VEGETATION - Use scientific names of plants

(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:5 (A)
2	0			THE STATE OF THE S
3				Total Number of Dominant Species Across All Strata: 5 (B)
4				
5		Ħ		Percent of dominant Species
6		Ī		That Are OBL, FACW, or FAC:100.0% (A/B)
7		Ī		Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Cove	ı	0BL species 100 x 1 = 100
1. Salix petiolaris	30	✓	FACW	
2. Alnus incana	40	<u></u>	FACW	FACW species 100 x 2 = 200
3. Salix bebbiana	30	<u></u>	FACW	FAC speci es0 x 3 =0
4	-			FACU species x 4 =0
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: 200 (A) 300 (B)
	0			Dravalance Index D/A 1500
7		= Total Cove		Prevalence Index = B/A = 1.500
Herb Stratum (Plot size: 5	100=	- Total Cove	ļ	Hydrophytic Vegetation Indicators:
1 Scirpus cyperinus	70	✓	OBL	Rapid Test for Hydrophytic Vegetation
		✓	OBL	✓ Dominance Test is > 50%
<u></u>			UBL	✓ Prevalence Index is ≤3.0 ¹
3				☐ Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9	0			Definitions of Vegetation Strata:
10	0			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
(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 size, and woody plants less than 3.28 ft tall.
2	0			size, and woody plants less than 3.20 it 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 ● No ○
Domayle: (Tuelude whate mumbers have as an a consuste short	a t \			
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-51n23w29-a1

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

Soil Sampling Point: w-51n23w29-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix		Redox Features							
(inches) Color (moist)		olor (moist)	%	Type ¹	Loc²	Texture	Remarks		
0-5 10YR 2/2	100					Muck			
5-20 10YR 5/2	80 10	/R 5/4	20	C	M	Silt Loam			
						•			
						•			
17 00 11 11 11 11									
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix									
Hydric Soil Indicators:						Indicators for Problematic Hydric Soils: 3			
Histosol (A1)		Polyvalue Belov MLRA 149B)	w Surface	(S8) (LRR I	₹,	2 cm Muck (A10) ([LRR K, L, MLRA 149B)		
Histic Epipedon (A2)		Thin Dark Surfa	ace (S9) (LRR R. MLF	RA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)		
☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4)		Loamy Mucky N				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Stratified Layers (A5)		Loamy Gleyed				Dark Surface (S7) (LRR K, L, M)			
Depleted Below Dark Surface (A11	· •	Depleted Matrix					urface (S8) (LRR K, L)		
Thick Dark Surface (A12)	,	Redox Dark Su				Thin Dark Surface (S9) (LRR K, L)			
Sandy Muck Mineral (S1)		Depleted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy Mack Milleral (31) Sandy Gleyed Matrix (S4)		Redox Depressions (F8)				☐ Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Redox (S5)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Stripped Matrix (S6)						Red Parent Material (F21)			
Dark Surface (S7) (LRR R, MLRA 149B)					✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)				
							demarks)		
³ Indicators of hydrophytic vegetation a	and wetland nydr	ology must be p	resent, un	ness aisturi	bea or proble	ematic.			
Restrictive Layer (if observed):									
Type:						Hydric Soil Present?	Yes ● No ○		
Depth (inches):						Tryuric 3011 Present:	res © NO O		
Remarks:									