WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Aitkin		Samplin	g Date: 30-Aug-17
Applicant/Owner: Enbridge				State: MN	J	Sampling Point:	w-51n24w27-h1
Investigator(s): DPT			Section, To	ownship, Range:	s. 27	T. 51N	R. 24W
Landform (hillslope, terrace, etc.):	Lowland		-	oncave, convex, n		concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 2	46 52.3816	Long	93	21.5343	Datum: NAD 83
Soil Map Unit Name: 928C						WI classification:	N/A
Are climatic/hydrologic conditions o	n the site ty	nical for this time of ye	ear? Ye:	s O No 💿	— (If no,	explain in Remarks	s.)
Are Vegetation \Box , Soil \Box	, or Hydrolo		y disturbed?		• ,	stances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrold		roblematic?			any answers in Ren	narke 1
Summary of Findings - At		·		,	-	-	•
Hydrophytic Vegetation Present?		No O			-	<u> </u>	
Hydric Soil Present?	Yes	No O		Sampled Area n a Wetland?	Yes	● No ○	
Wetland Hydrology Present?	Yes	No O	***************************************	I a Wedana.	-		
Remarks: (Explain alternative pro			t.)				
Hydrology							
Wetland Hydrology Indicators:					Sacano	dary Indicators (minim	of 2 required)
Primary Indicators (minimum of or	ne reauired;	check all that apply)				nary Indicators (minim Irface Soil Cracks (B6)	
Surface Water (A1)		☐ Water-Stained Leav	/es (B9)			ainage Patterns (B10)	
✓ High Water Table (A2)		Aquatic Fauna (B13)	, ,			oss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15))		Dr	y Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide O				ayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphe		Roots (C3)		turation Visible on Aer	
Drift deposits (B3)		Presence of Reduce				unted or Stressed Plan	, ,
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Recent Iron Reducti		s (C6)		eomorphic Position (D2 allow Aquitard (D3)	2)
Inundation Visible on Aerial Imager	v (B7)	Thin Muck Surface (` ,			crotopographic Relief	(D4)
Sparsely Vegetated Concave Surface	-	U Other (Explain in Re	emarks)		_	C-neutral Test (D5)	
Field Observations:							
Surface Water Present? Yes	No O	Depth (inches):	4				
Water Table Present? Yes		Depth (inches):					
Saturation Present? (includes capillary fringe) Yes		Depth (inches):	0	Wetland Hydr	rology F	Present? Yes	No O
Describe Recorded Data (stream ga	iuge, monito	ring well, aerial photos	s, previous ins	pections), if avail	lable:		
Remarks:							

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n24w27-h1							
(0) - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species				
1	0			That are OBL, FACW, or FAC: (A)				
2	0			T. I.N. J. CD. J. J.				
3	0			Total Number of Dominant Species Across All Strata: 2 (B)				
4								
5				Percent of dominant Species				
6		\Box		That Are OBL, FACW, or FAC: 100.0% (A/B)				
7		\Box		Prevalence Index worksheet:				
7-		= Total Cove		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15		- Total Cove						
1	0							
2		П		FACW species 30 x 2 = 60				
3				FAC speci es x 3 =				
				FACU species x 4 =0				
4				UPL species $0 \times 5 = 0$				
5				Column Totals: 100 (A) 130 (B)				
6								
7				Prevalence Index = B/A = 1.300				
Herb Stratum (Plot size: 5		Total Cove	er	Hydrophytic Vegetation Indicators:				
				✓ Rapid Test for Hydrophytic Vegetation				
1. Carex lacustris		✓	OBL	✓ Dominance Test is > 50%				
2. Bidens tripartita	30	✓	FACW	Prevalence Index is ≤3.0 ¹				
3. Typha x glauca	10		OBL	Morphological Adaptations ¹ (Provide supporting				
4. Persicaria sagittata	10		OBL	data in Remarks or on a separate sheet)				
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)				
6								
7				$^{ m 1}$ 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 at breast height (DBH), regardless of height.				
1				at breast neight (DBH), regardless of height.				
2	-			Sapling/shrub - Woody plants less than 3 in. DBH and				
Woody Vine Stratum (Plot size: 30)	100 =	Total Cove	r	greater than 3.28 ft (1m) tall				
	0			Horb All borbacoous (non woody) plants, regardless of				
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
2	0			Size, and need, plane less than electrical				
3				Woody vine - All woody vines greater than 3.28 ft in				
4				height.				
	0 =	Total Cove	r					
				Hydrophytic				
				Vegetation Yes • No •				
Damanhar (Tarahada ahata arrasta arr	h \			I				
Remarks: (Include photo numbers here or on a separate s	neet.)							

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

Soil Sampling Point: w-51n24w27-h1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth			Redox Features									
(inches)	Color (%	Color	(moist)	%_	Type ¹	Loc ²	Texture	Rer	narks	
0-6	10YR	2/1	100						Sandy Clay Loam	_		
6-20	10YR	3/1	95	10YR	3/6	_ 5	C		Clay Loam			
									-			
-												
-						_		-				
		-	-	-								
						_						
1- 00												
• .		=Depletio	n. RM=Rec	luced Matrix,	CS=Cover	ed or Coat	ted Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=			
Hydric Soil I							(00) (1 = =	_	Indicators for Prob	lematic Hydr	ic Soils: 3	
Histosol (•				value Belo :A 149B)	w Surface	(S8) (LRR	₹,	2 cm Muck (A10)	(LRR K, L, ML	RA 149B)	
	pedon (A2)			_		ace (S9)	(LRR R, ML	RA 149B)	Coast Prairie Rec	lox (A16) (LRR	K, L, R)	
Black Hist	Sulfide (A4)						1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5)					Matrix (F2		,	Dark Surface (S7) (LRR K, L, M)			
	Below Dark S	Surface (A	11)		leted Matri				Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A1)	_		ırface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S			☐ Dep	leted Dark	Surface (F	F7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	eyed Matrix (Red	ox Depres	sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		,							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Matrix (S6)								Red Parent Material (F21)			
	ace (S7) (LRF	R R, MLRA	A 149B)						✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)			
³ Indicators of				and hydrology	, must be	procent III	nlace dietur	had ar proble		Remarks)		
			iii anu wen	and mydrology	/ must be	present, u	illess distui	bed of proble	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes	No O	
Depth (incl	nes):									103 ©	110 0	
Remarks:												