WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/	County: Aitkin	Samplin	g Date: 21-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n26w32-b1
Investigator(s): SMR/RWS		Se	ection, Township, Range:	s. 32 t. 51N	R. 26W
Landform (hillslope, terrace, etc.):	Shoulder slo		relief (concave, convex, r		Slope: _83.9 % / _40.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46 51	.8989 Lon e	-93 39.8815	Datum: NAD 83
Soil Map Unit Name: 928C				NWI classification:	N/A
Are climatic/hydrologic conditions o	n the site tyr	oical for this time of year?	Yes ○ No ●	(If no, explain in Remarks	s.)
Are Vegetation \Box , Soil \Box	, or Hydrolo			Circumstances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrolo	· ,		explain any answers in Rer	narke \
Summary of Findings - At			,	•	•
Hydrophytic Vegetation Present?	Yes O	No •		-	
Hydric Soil Present?	Yes \bigcirc	No •	Is the Sampled Area within a Wetland?	Yes ○ No ●	
Wetland Hydrology Present?	Yes \bigcirc	No •	Willillia WCliana:		
Remarks: (Explain alternative pro		or in a senarate report.)			
Hydrology					
Wetland Hydrology Indicators:				Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimum of o	ne required;	check all that apply)		Surface Soil Cracks (B6)	um or z required)
Surface Water (A1)		Water-Stained Leaves (B9	9)	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 (C		Crayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres ald		Saturation Visible on Aer	0 3 . ,
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduced Iron	• •	Stunted or Stressed Plan	` '
Iron Deposits (B5)		Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Position (D2 Shallow Aquitard (D3)	2)
Inundation Visible on Aerial Image	y (B7)	☐ Thin Muck Surface (C7)☐ Other (Explain in Remark:	·e)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface	•	Unlei (Explain in Remark	.5)	FAC-neutral Test (D5)	(- '/
Field Observations:					
Surface Water Present? Yes	No 💿	Depth (inches):	0		
Water Table Present? Yes	No ●	Depth (inches):	0		
Saturation Present? (includes capillary fringe) Yes	No 💿	Depth (inches):	0 Wetland Hyd	rology Present? Yes) No ●
Describe Recorded Data (stream ga	auge, monito	ring well, aerial photos, pre	evious inspections), if avai	lable:	
Remarks:					

VEGETATION - Use scientific names of plants

(5)	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:0(A)
2				
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Species Across Air Strata.
			-	Percent of dominant Species
5				That Are OBL, FACW, or FAC: 0.0% (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 :	= Total Cove	r	Total % Cover of: Multiply by:
	0			0BL speci es x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC speciles x 3 =0
3				FACU species 80 x 4 = 320
4	0			l '
5	0			l .
6	0_			Column Totals: 100 (A) 420 (B)
7				Prevalence Index = B/A = 4,200
		= Total Cove		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:
1. Solidago canadensis	30	✓	FACU	Rapid Test for Hydrophytic Vegetation
2. Pteridium aquilinum		<u>~</u>	FACU	☐ Dominance Test is > 50%
		✓	UPL	Prevalence Index is ≤3.0 ¹
4 Burnette				$oxedsymbol{oxed}$ Morphological Adaptations 1 (Provide supporting
4. Poa pratensis			FACU	data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
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				
12.,		 = Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)		- Total Cove		greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2.	0	П		size, and woody plants less than 3.28 ft tall.
•	0			
3	0	П		Woody vine - All woody vines greater than 3.28 ft in
4				height.
	:	= Total Cove	r	
				Hydrophytic
				Vegetation Present? Yes ○ No ●
Remarks: (Include photo numbers here or on a separate she	eet.)			

Sampling Point: u-51n26w32-b1

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

Soil Sampling Point: u-51n26w32-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Depth Matrix			edox Features			_			
(inches)	Color	(moist)	%_	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-10	10YR	4/3	100					Sandy Loam		
10-20	10YR	5/4	100					Loamy Sand		
-			-		-		-	-		
			-							
	-		-		-		-			
			-							
1 Type: C=Cond	centration [)=Denletio	n. RM=Re	duced Matrix CS=Cover	ed or Coate	ed Sand Gra	ains 21 oca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I		- Pobletio		acco matrix, ob-cover	Sa Si Soale	Ja Janu Oli	LUGO			
Histosol (A				Polyvalue Belo	W Surface	מ ממו) (29)			ematic Hydric Soils: 3	
Histic Epip	•			MLRA 149B)	w Surface ((38) (LKK K	.,	2 cm Muck (A10) ((LRR K, L, MLRA 149B)	
Black Histi				Thin Dark Surf	ace (S9) (I	LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)	
	Sulfide (A4)	`		Loamy Mucky	Mineral (F1) LRR K, L)			or Peat (S3) (LRR K, L, R)	
_ , ,	Layers (A5)	,		Loamy Gleyed				Dark Surface (S7)		
	Below Dark	Surface (A	11)	Depleted Matr					urface (S8) (LRR K, L)	
	k Surface (A		11)	Redox Dark Su				Thin Dark Surface (S9) (LRR K, L)		
	ck Mineral (Depleted Dark		7)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	yed Matrix (Redox Depres					in Soils (F19) (MLRA 149B)	
Sandy Red		(34)		·) (MLRA 144A, 145, 149B)	
Stripped N								Red Parent Materia		
	ace (S7) (LR	DD MIDA	140P)					☐ Very Shallow Dark		
								Other (Explain in F	Remarks)	
³ Indicators of	hydrophytic	vegetatio	n and wetl	and hydrology must be	present, un	less disturb	ed or proble	ematic.		
Restrictive La	ayer (if obs	served):								
Type:										
Depth (inch	nes):							Hydric Soil Present?	Yes O No 💿	
Remarks:										
1										
1										
1										