WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City	/County: Aitkin	Samplin	19 Date: 25-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n26w36-a12
Investigator(s): SMR/RWS			Section, Township, Range:	s. 31 t. 51N	R. 25W
Landform (hillslope, terrace, etc.):	Mound	Loca	I relief (concave, convex, r	none): convex	Slope: 7.0 % / 4.0 °
Subregion (LRR or MLRA): LRR K	(Lat.: 46 5	1.6385 Lon e	-93 31.7153	Datum: NAD 83
Soil Map Unit Name: 292				NWI classification:	N/A
Are climatic/hydrologic conditions	on the site ty	pical for this time of year?	Yes ○ No ●	— (If no, explain in Remarks	s.)
Are Vegetation, Soil	, or Hydrold		turbed? Are "Normal	Circumstances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrold	ogy naturally proble	ematic? (If needed,	explain any answers in Rei	marks.)
Summary of Findings - A			,	•	•
Hydrophytic Vegetation Present?	Yes O	No •			
Hydric Soil Present?	Yes \bigcirc	No •	Is the Sampled Area within a Wetland?	Yes O No 💿	
Wetland Hydrology Present?	Yes \bigcirc	No •			
Remarks: (Explain alternative pro	ocedures here	or in a separate report.)			
Hydrology					
Wetland Hydrology Indicators:	,			Secondary Indicators (minim	num of 2 required)
Primary Indicators (minimum of o	one required;	check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves (B	39)	Drainage Patterns (B10)	
High Water Table (A2) Saturation (A3)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	. (03)
Water Marks (B1)		✓ Marl Deposits (B15)✓ Hydrogen Sulfide Odor ('C1\	☐ Dry Season Water Table ☐ Crayfish Burrows (C8)	: (C2)
Sediment Deposits (B2)		Oxidized Rhizospheres a		Saturation Visible on Ae	rial Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iro		Stunted or Stressed Plan	0 3 . ,
Algal Mat or Crust (B4)		Recent Iron Reduction in		Geomorphic Position (D	• •
Iron Deposits (B5)		Thin Muck Surface (C7)	• .	Shallow Aquitard (D3)	
Inundation Visible on Aerial Image	•	Other (Explain in Remark	ks)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surfa	ice (B8)			FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes		Depth (inches):	0		
Water Table Present? Yes	○ No ●	Depth (inches):	0	rology Present? Yes	○ No ●
Saturation Present? (includes capillary fringe) Yes	O No ●	Depth (inches):	0 Wetland Hyd	rology Present? Yes	
Describe Recorded Data (stream o	jauge, monito	oring well, aerial photos, pro	evious inspections), if avai	lable:	
Remarks:					

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	iaiits			Sampling Point: u-51n26w36-a12
(Dist size, 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover		Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:1(B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6	0			That Ale OBL, FACW, OF FAC.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover		Total % Cover of: Multiply by:
1	0			0BL speci es x 1 =
				FACW species 0 x 2 = 0
2				FAC speciles x 3 = 0
3				FACU species x 4 =400
4				UPL species $0 \times 5 = 0$
5				Column Totals: 100 (A) 400 (B)
ô				
7		Tatal Car		Prevalence Index = B/A = 4.000
Herb Stratum (Plot size: 5)		Total Cover		Hydrophytic Vegetation Indicators:
A Tanana - 68 da da da	10		FACU	Rapid Test for Hydrophytic Vegetation
		✓	FACU	☐ Dominance Test is > 50%
			FACU	Prevalence Index is ≤3.0 ¹
			TACO	☐ Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Definitions of Vegetation Strata.
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	=	Total Cover		greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	=	Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes No No
emarks: (Include photo numbers here or on a separate s	sheet.)			

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

Soil Sampling Point: u-51n26w36-a12

Depth	Matrix			dox Features			
(inches)	Color (moist)	% Co	lor (moist)		Loc ²	Texture	Remarks
						-	
		-					
Type: C=Con	centration D=Denletion I	RM-Reduced Ma	triv CS=Covere	ed or Coated Sand Gra	ins 21 oca	tion: PL=Pore Lining. M=Ma	atriv
Hydric Soil		NIVI-Reduced IVIa	uix, cs-covere	ed of Coated Saild Of a	IIIS LOCA		
Histosol (Dobavoluo Polov	v Surface (S8) (LRR R		Indicators for Proble	matic Hydric Soils: 3
	pedon (A2)		MLRA 149B)	V Surface (So) (LKK K	1		LRR K, L, MLRA 149B)
Black His			Thin Dark Surfa	ace (S9) (LRR R, MLR	A 149B)		(A16) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky N	Mineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed I			Dark Surface (S7)	
	Below Dark Surface (A11)		Depleted Matrix				ırface (S8) (LRR K, L)
	k Surface (A12)		Redox Dark Sui	rface (F6)		Thin Dark Surface	
	uck Mineral (S1)		Depleted Dark	Surface (F7)			asses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depress				n Soils (F19) (MLRA 149B)
Sandy Re							(MLRA 144A, 145, 149B)
	Matrix (S6)					Red Parent Materia	
	face (S7) (LRR R, MLRA 14	IOD)				Very Shallow Dark	, ,
						Other (Explain in R	emarks)
³ Indicators o	f hydrophytic vegetation a	nd wetland hydro	ology must be p	resent, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	:hes):					Hydric Soil Present?	Yes O No 💿
Remarks:							
	otential buried utilities.	soils assumed	non hydric h	acad on vagatation			
No digging p	otentiai buried utilities.	sons assumed	Hon-Hyunc b	ased on vegetation	•		