WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Ci	ity/County:	Aitkin		Samplin	g Date: 31-Aug-17
Applicant/Owner: Enbridge				State: MN	J	Sampling Point:	w-51n24w26-aa1
Investigator(s): SMR			Section, To	wnship, Range:	S. 26	T. 51N	R. 24W
Landform (hillslope, terrace, etc.):	owland	Lo	•	ncave, convex, n		concave	Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K		Lat.: 46	52.3635	Long	- 93 -93	20.4986	Datum: NAD 83
Soil Map Unit Name: 685			· ·			WI classification:	N/A
Are climatic/hydrologic conditions on	the site tvr	nical for this time of year	r? Yes	○ No ●	(If no,	explain in Remarks	:.)
	or Hydrolo				. ,	stances" present?	Yes No
	, or Hydrolo					any answers in Ren	
Summary of Findings - Atta	-				-	-	•
Hydrophytic Vegetation Present?		No O				<u> </u>	•
Hydric Soil Present?		No O		Sampled Area	Yes (● No ○	
Wetland Hydrology Present?		No O	Within	a Wetland?	100	O 110 O	
Remarks: (Explain alternative proce			١				
Hydrology							
Wetland Hydrology Indicators:					Second	ary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one	required; a	check all that apply)				rface Soil Cracks (B6)	uni oi z roganou,
Surface Water (A1)		Water-Stained Leaves	s (B9)			ainage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)				oss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				y Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odd				ayfish Burrows (C8)	
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizosphere		Roots (C3)		turation Visible on Aer	* *
Algal Mat or Crust (B4)		Presence of Reduced Recent Iron Reductio		(04)		unted or Stressed Plan omorphic Position (D2	, ,
Iron Deposits (B5)		Thin Muck Surface (C		(C0)		allow Aquitard (D3)	<u>-)</u>
Inundation Visible on Aerial Imagery	(B7)	Other (Explain in Ren	•			crotopographic Relief	(D4)
☐ Sparsely Vegetated Concave Surface	(B8)	Other (Explain in Neil	na koj		✓ FA	C-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 Hydr	rology P	resent? Yes	No O
Describe Recorded Data (stream gau	ge, monitor	ing well, aerial photos,	previous insp	pections), if avail	lable:		
Remarks:							
Remarks.							

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n24w26-aa1			
/Dist. 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:5 (A)
2				Total Negation of Danish and
3	0			Total Number of Dominant Species Across All Strata: 5 (B)
4				
5		П		Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
				Prevalence Index worksheet:
7				
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of: Multiply by:
1. Salix petiolaris	20	✓	FACW	0BL species 90 x 1 = 90
2 Salix bebbiana	10	✓	FACW	FACW species
O. Alnua incone		✓	FACW	FAC speci es
				FACU species x 4 =0
4			-	UPL species $0 \times 5 = 0$
5				Column Totals: 140 (A) 190 (B)
6	0			Cordina Total's: 140 (A) 190 (5)
7	0			Prevalence Index = B/A = <u>1.357</u>
Herb Stratum (Plot size: 5	50 =	= Total Cove	r	Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1. Typha x glauca	60	✓	OBL	✓ Dominance Test is > 50%
2. Carex lacustris	30	✓	OBL	
3	0			У Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
5		$\overline{\Box}$		Problematic Hydrophytic Vegetation ¹ (Explain)
6				1 Indicators of hydric soil and watland hydrology must
7				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2		П		
-	-	= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)		- rotar cove	•	greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2		$\overline{\Box}$		size, and woody plants less than 3.28 ft tall.
		П		
3			-	Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
		= Total Cove	r	
				Hydrophytic
				Vegetation Yes • No •
				Trescrit.
				I .
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: w-51n24w26-aa1

Depth	Matrix			dox Features		-	
(inches)	Color (moist)	% Co	lor (moist)		Loc2	Texture	Remarks
						-	
1 Tuno. C. Con		DM Daduard Mar	triv CC Cavara	ad or Cooted Cond Cro	ina 21 aaa	stion. DI Doro Lining M M	atrii.
		RIVI=Reduced IVIA	IIIX, CS=COVERE	ed of Coated Sand Gra	IIIS -LOCA	ation: PL=Pore Lining. M=Ma	
Hydric Soil 1				0 ((00) (100 0		Indicators for Proble	ematic Hydric Soils: 3
Histosol (Polyvalue Belov MLRA 149B)	v Surface (S8) (LRR R	1	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		,	ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	x (A16) (LRR K, L, R)
Black Hist				Mineral (F1) LRR K, L)	,	5 cm Mucky Peat o	or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed I			Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)		Depleted Matrix				urface (S8) (LRR K, L)
	Below Dark Surface (A11)		Redox Dark Sui			Thin Dark Surface	(S9) (LRR K, L)
	k Surface (A12)	_	Depleted Dark			☐ Iron-Manganese M	asses (F12) (LRR K, L, R)
_	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	in Soils (F19) (MLRA 149B)
_	eyed Matrix (S4)		redox Depress	10113 (1 0)		Mesic Spodic (TA6)) (MLRA 144A, 145, 149B)
Sandy Re						Red Parent Materia	al (F21)
	Matrix (S6)					Very Shallow Dark	Surface (TF12)
☐ Dark Surf	face (S7) (LRR R, MLRA 14	19B)				✓ Other (Explain in R	lemarks)
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 No
Remarks:							
No digging p	otential buried utilities.	soils assumed	hydric based	on vegetation.			