WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Ci	ity/County:	Aitkin		Samplin	g Date: 22-Aug-17
Applicant/Owner: Enbridge				State: MN	J	Sampling Point:	w-51n25w33-d1
Investigator(s): DPT/SMR			Section, To	wnship, Range:	s. 33	T. 51N	R. 25W
Landform (hillslope, terrace, etc.):	owland	Lc		ncave, convex, n		concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46	51.6861	Long	• -93	31.6699	Datum: NAD 83
Soil Map Unit Name: 292					N	WI classification:	N/A
Are climatic/hydrologic conditions on	the site typ	oical for this time of year	r? Yes	○ No ●	(If no,	explain in Remarks	s.)
. ,	, or Hydrolo			Are "Normal	` '	stances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrolo	gy naturally pro	blematic?			any answers in Ren	narks.)
Summary of Findings - Att	•	·		•	-	-	•
Hydrophytic Vegetation Present?	Yes •	No O					
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes	● No ○	
Wetland Hydrology Present?	Yes	No O		u vroud			
Remarks: (Explain alternative proce	dures here	or in a separate report.	1				
Hydrology							
Wetland Hydrology Indicators:					Sacono	dary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one	reauired;	check all that apply)				uary Indicators (minim Irface Soil Cracks (B6)	um or z requirea)
Surface Water (A1)		Water-Stained Leaves	s (B9)			rainage 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)		Oxidized Rhizosphere		Roots (C3)		turation Visible on Aer	
Drift deposits (B3)		Presence of Reduced				unted or Stressed Plan	• •
Algal Mat or Crust (B4) Iron Deposits (B5)		Recent Iron Reduction		(C6)		eomorphic Position (D2 nallow Aquitard (D3)	2)
Inundation Visible on Aerial Imagery	(B7)	Thin Muck Surface (C	,		_	crotopographic Relief	(D4)
Sparsely Vegetated Concave Surface		Other (Explain in Ren	narks)		_	C-neutral Test (D5)	(04)
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 F	Present? Yes	No O
Describe Recorded Data (stream gau	ge, monito	ring well, aerial photos,	previous insp	oections), if avail	lable:		
Remarks:							

VEGETATION - Use scientific names of plants

4-1 20	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:3 (A)
2				
3				Total Number of Dominant
				Species Across All Strata: 3 (B)
4				Percent of deminant Species
5				Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
6	0			That the OBE, thow, of the
7	0			Prevalence Index worksheet:
(5) 45	0 :	= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				0BL species 95 x 1 = 95
1	0			FACW species 0 x 2 = 0
2	0			I
3				FAC speciles <u>5</u> x 3 = <u>15</u>
4				FACU speci es0 x 4 =0
	-			UPL speci es x 5 =0
5				Column Totals: 100 (A) 110 (B)
6				(1)
7	0			Prevalence Index = B/A = 1.100
Herb Stratum (Plot size: 5)	0 :	= Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (1 lot 3/26)	-			✓ Rapid Test for Hydrophytic Vegetation
1. Scirpus cyperinus	30	✓	OBL	✓ Dominance Test is > 50%
2. Irls versicolor	30	✓	OBL	
3. Persicaria hydropiperoides	_20	✓	OBL	l <u> </u>
4. Persicaria sagittata	45		OBL	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. Rumex crispus			FAC	l <u> </u>
•				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				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.
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			Conling/shrub Woody plants loss than 2 in DDII and
		= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				groater than 6.25 it (iii) taii
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4.	0			height.
т.,	0 :	= Total Cove		g
		- Total Covel		
				Harlanda Ma
				Hydrophytic Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate she	et)			
Remarks. (Include proto numbers here of on a separate site	.e.,			

Sampling Point: w-51n25w33-d1

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

Soil Sampling Point: w-51n25w33-d1

Profile Descri	iption: (Des	cribe to	the depth	needed to d	locument	t the indi	cator or c	onfirm the	absence of indicators.)			
Depth (inches)	Depth Matrix inches) Color (moist) %		Redox Features Color (moist) % Type ¹ Loc ²									
				Color (moist)	%_	Type 1	Loc²	Texture	Remarks		
0-5	10YR	2/1	100						Clay Loam			
5-16	10YR	4/1	90	10YR	4/6	_ 10	C		Silt Loam			
16-20	10YR	4/2	90	10YR	4/6	10	C	M	Silty Clay Loam			
			-			-	-					
			-	-	-							
		-										
			-									
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Rec	uced Matrix,	CS=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix		
Hydric Soil I	ndicators:								Indicators for Proble	ematic Hydric Soils: 3		
Histosol (A	•				alue Below Surface (S8) (LRR R, A 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Histic Epip						aca (SO) /	(LRR R, ML	ολ 1/0R)		x (A16) (LRR K, L, R)		
Black Histi							1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4)					Matrix (F2		,	Dark Surface (S7) (LRR K, L, M)			
	Layers (A5) Below Dark S	Curfoco (A	11\		eted Matri		.)		Polyvalue Below Si	urface (S8) (LRR K, L)		
	k Surface (A1		111)			ırface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S			☐ Depl	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	yed Matrix (S			Redo	x Depress	sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Rec		- ',							✓ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)✓ Red Parent Material (F21)			
Stripped M									☐ Very Shallow Dark Surface (TF12)			
☐ Dark Surfa	ace (S7) (LRF	R R, MLRA	A 149B)						Other (Explain in Remarks)			
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be i	oresent. ui	nless distur	bed or proble		(critario)		
Restrictive La			mana mone		must be p	p. 000, u .	nood distai	504 01 p1051				
Type:	ayer (ii obs	ervea):										
Depth (inch	nes).								Hydric Soil Present?	Yes ● No ○		
Remarks:	103)											
Remarks.												