WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 24-Au	g-17
Applicant/Owner: Enbridge		State: Mi	Sampling Point: w-51n26	w35-a4
Investigator(s): SMR/RWS		Section, Township, Range:	S. 36 T. 51N R.	26W
Landform (hillslope, terrace, etc.):	Lowland	Local relief (concave, convex, r		0 % / 0.0°
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.7371 Lon	g.: -93 35.0131 Datum:	NAD 83
Soil Map Unit Name: 292			NWI classification: N/A	
Are climatic/hydrologic conditions on	the site typical for this time of ye	rear? Yes O No 💿	(If no, explain in Remarks.)	
. ,	, –			No O
			explain any answers in Remarks.)	
.		,	ns, transects, important featu	res, etc
	Yes No			
Hydric Soil Present?	Yes No	Is the Sampled Area within a Wetland?	Yes No	
_ ·	Yes No	Within a Wedana:	165 - 1.15	
Remarks: (Explain alternative proce				
Hydrology				
Wetland Hydrology Indicators:			Cadam Indicators (minimum of 2 requires	.n
Primary Indicators (minimum of one	required: check all that apply)		Secondary Indicators (minimum of 2 required Surface Soil Cracks (B6)	1)
Surface Water (A1)	Water-Stained Lear	aves (B9)	Drainage Patterns (B10)	
☐ High Water Table (A2)	Aquatic Fauna (B1	, ,	Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15	5)	Dry Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide C		Crayfish Burrows (C8)	
Sediment Deposits (B2)		neres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)	1
Drift deposits (B3)	Presence of Reduc	, ,	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4) Iron Deposits (B5)		ction in Tilled Soils (C6)	✓ Geomorphic Position (D2) Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery	(B7) Thin Muck Surface	` '	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface	U Other (Explain in it	remarks)	FAC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes	No Depth (inches):	0		
Water Table Present? Yes	No Depth (inches):			
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):		rology Present? Yes No	
Describe Recorded Data (stream gau	ige, monitoring well, aerial photo	os, previous inspections), if avai	lable:	
Remarks:				

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pi	Sampling Point: w-51n26w35-a4						
(Dist. 2. 20)	Absolute	Dominant	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			Total Number of Dominant			
3	0			Species Across All Strata: 2 (B)			
4	0						
5				Percent of dominant Species			
6				That Are OBL, FACW, or FAC: 100.0% (A/B)			
7				Prevalence Index worksheet:			
		Total Cove		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15)		rotal core		0BL species 90 x 1 = 90			
1	0			FACW species 10 x 2 = 20			
2							
3				FAC speciles x 3 =			
4				FACU species $0 \times 4 = 0$			
5				UPL species $0 \times 5 = 0$			
6				Column Totals: 100 (A) 110 (B)			
7				Provolonce Index = P/A 1 100			
		Total Cove		Prevalence Index = B/A = 1.100			
Herb Stratum (Plot size: 5	=	- rotal Cove	1	Hydrophytic Vegetation Indicators:			
	70	✓	OBL	Rapid Test for Hydrophytic Vegetation			
			FACW	✓ Dominance Test is > 50%			
		<u> </u>		✓ Prevalence Index is ≤3.0 ¹			
			OBL	Morphological Adaptations ¹ (Provide supporting			
4				data in Remarks or on a separate sheet)			
5				Problematic Hydrophytic Vegetation ¹ (Explain)			
6				1			
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
8	0						
9	0			Definitions of Vegetation Strata:			
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
1				at breast height (DBH), regardless of height.			
12				Continue to Management I and the Continue to BRIT 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 6.20 it (iii) tail			
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.			
	0 =	Total Cove	•				
				Hydrophytic			
				Vegetation Present? Yes No			
				Present? Yes No V			
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-51n26w35-a4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix			Redox Features								
(inches)	Color (%	Color	(moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-5	10YR	4/2	100						Loam		
5-20	10YR	5/2	90	10YR	5/4	10	C	M	Silt Loam		
			-	-	-	-		-			
		-									
1 Typo: C=Con	contration D	_Doplotio	n DM_Do	ducod Matrix	CS-Cover	rod or Coat	od Sand Gr	rains 21 occ	ation: PL=Pore Lining. M=N		
Hydric Soil I		-Depletio	II. KIVI–KE	duced Matrix,	C3=C0Vei	red or coat	eu sanu Gi	all is -Luca			2
Histosol (□ Poly	nvaluo Polo	ow Surface	(CO) (I DD I	D	Indicators for Prob		
	pedon (A2)			MLF	RA 149B)	JW Juliace	(30) (LKK I	Χ,	2 cm Muck (A10)		
Black Hist				Thir	Dark Sur	face (S9) (LRR R, MLF	RA 149B)	Coast Prairie Red		
	Sulfide (A4)			Loa	my Mucky	Mineral (F1	I) LRR K, L)	5 cm Mucky Peat		RR K, L, R)
	Layers (A5)			Loai	my Gleyed	Matrix (F2)		Dark Surface (S7)		D.K. I.)
	Below Dark S	Surface (A	11)		leted Matr				Polyvalue Below S Thin Dark Surface		
☐ Thick Dar	k Surface (A1	12)		_		urface (F6)			Iron-Manganese		
Sandy Mu	ıck Mineral (S	61)				Surface (F	7)		Piedmont Floodpl		
Sandy Gle	eyed Matrix (S4)		∟ Red	ox Depres	sions (F8)			☐ Mesic Spodic (TA		
Sandy Re	dox (S5)								Red Parent Mater		,
	Matrix (S6)								Very Shallow Dar	k Surface (TF12))
☐ Dark Surf	ace (S7) (LRF	R R, MLRA	(149B)						Other (Explain in		
³ Indicators of	f hydrophytic	vegetatio	n and wet	land hydrolog	y must be	present, ur	nless disturl	bed or probl	lematic.		
Restrictive L											
Type:	, (,.									
Depth (incl	hes):								Hydric Soil Present?	Yes 💿	No O
Remarks:											
Kernarks.											