WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City	/County: Aitkin	Samplin	g Date: 22-Aug-17
Applicant/Owner: Enbridge			State: MI	Sampling Point:	w-51n25w33-a2
Investigator(s): DPT/SMR		;	Section, Township, Range:	s. 33 t. 51N	R. 25W
Landform (hillslope, terrace, etc	.): Lowland		al relief (concave, convex,		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LR	R K	Lat.: 46 5	51.6850 Lon	g.: −93 31.4829	Datum: NAD 83
Soil Map Unit Name: 628				NWI classification:	N/A
Are climatic/hydrologic conditio	ons on the site ty	pical for this time of year?	Yes ○ No •	(If no, explain in Remarks	s.)
Are Vegetation \square , Soil \square	, or Hydrol	ogy significantly dis	sturbed? Are "Norma	I Circumstances" present?	Yes No
Are Vegetation, Soil	, or Hydrol	ogy naturally proble	ematic? (If needed,	explain any answers in Rer	narks.)
Summary of Findings -	Attach site		,	• •	•
Hydrophytic Vegetation Present	t? Yes •	No O			
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes No	
Wetland Hydrology Present?	Yes	No O			
Remarks: (Explain alternative	procedures here	or in a separate report.)			
Hydrology					
Wetland Hydrology Indicators:				_Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimum o		check all that apply)		Surface Soil Cracks (B6)	uni or 2 regained,
Surface Water (A1)		Water-Stained Leaves (B9)	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		Crayfish Burrows (C8)	(00)
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizospheres a		Saturation Visible on Aer Stunted or Stressed Plar	
Algal Mat or Crust (B4)		Presence of Reduced In Recent Iron Reduction i	, ,	Geomorphic Position (D2	
Iron Deposits (B5)		Thin Muck Surface (C7)	• •	Shallow Aquitard (D3)	-)
Inundation Visible on Aerial Im	nagery (B7)	Other (Explain in Remai		☐ Microtopographic Relief	(D4)
Sparsely Vegetated Concave Si	urface (B8)		ind)	FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Ye	s • No O	Depth (inches):	6		
Water Table Present? Ye	s • No O	Depth (inches):	0		a O
Saturation Present? (includes capillary fringe) Yes	s • No O	Depth (inches):	Wetland Hyd	rology Present? Yes	No C
Describe Recorded Data (stream	m gauge, monito	oring well, aerial photos, pr	revious inspections), if ava	ilable:	
Remarks:					

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n25w33-a2					
(0) -1 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species		
1				That are OBL, FACW, or FAC:3 (A)		
2	0			Total Number of Dominant		
3	0			Species Across All Strata:3 (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	r	Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 80 x 1 = 80		
1 Alnus incana		✓	FACW	FACW species 80 x 2 = 160		
2	0					
3	0			<u> </u>		
4				FACU species $0 \times 4 = 0$		
5			-	UPL speci es $0 \times 5 = 0$		
6				Column Total s: 160 (A) 240 (B)		
7				Provalence Index – R/A – 1 500		
		Total Cove	-	Prevalence Index = B/A = 1.500		
Herb Stratum (Plot size: 5			•	Hydrophytic Vegetation Indicators:		
1. Carex lacustris	60	✓	OBL	Rapid Test for Hydrophytic Vegetation		
0.04		▼	OBL	✓ Dominance Test is > 50%		
			UBL	✓ Prevalence Index is ≤3.0 ¹		
3				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:		
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1				at breast height (DBH), regardless of height.		
2		$\overline{\Box}$				
	-	Total Cove	<u> </u>	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
Woody Vine Stratum (Plot size: 30				greater than 5.25 it (iiii) 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.		
Ti		Total Cove		, and the second		
				Hydrophytic		
				Vegetation		
				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-51n25w33-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth <u>Matrix</u>				dox Featu			_				
(inches)	Color	(moist)	%	Color (moist)	%	Type	Loc2	Texture	Remarks	
0-12	10YR	2/1	100				_		Muck		
12-20	10YR	3/1	95	10YR	3/6	5	С	М	Silty Clay Loam		
									-		
	-	-	-	-	-	-	-				
		-		-	-	-		-			
¹ Type: C=Cond	centration. [D=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand G	rains ² Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I	ndicators:						_		Indicators for Proble	ematic Hydric Soils: 3	
Histosol (A	-					w Surface	(S8) (LRR	R,		(LRR K, L, MLRA 149B)	
✓ Histic Epip	oedon (A2)				A 149B)	(6-)		D4 445='			
☐ Black Histi	ic (A3)				☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen	Sulfide (A4))		Loamy Mucky Mineral (F1) LRR K, L))	Dark Surface (S7) (LRR K, L, M)			
Stratified I	Layers (A5)					Matrix (F2))				
Depleted I	Below Dark	Surface (A	11)	☐ Depleted Matrix (F3)				☐ Polyvalue Below Surface (S8) (LRR K, L) ☐ Thin Dark Surface (S9) (LRR K, L)			
☐ Thick Dark	k Surface (A	112)			Redox Dark Surface (F6)				☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Mu	ck Mineral ((S1)				Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gle	yed Matrix	(S4)		☐ Redo	x Depress	sions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Red	dox (S5)								Red Parent Material (F21)		
Stripped Matrix (S6)					Very Shallow Dark Surface (TF12)						
Dark Surface (S7) (LRR R, MLRA 149B)					Other (Explain in Remarks)						
³ Indicators of	hvdronhvti	c venetatio	n and wetla	and hydrology	must he r	nresent un	nless distur	hed or proble		toma no,	
			ir and wette	ina nyarology	must be p	oresent, un	iicoo diotai	bed of probl	ematic.		
Restrictive La	ayer (if ob:	served):									
Type:									Hydric Soil Present?	Yes ● No ○	
Depth (inch	nes):								Hydric Son Fresence	res © No C	
Remarks:											