## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/	County: Aitkin	Samplin	<b>19 Date:</b> 22-Aug-17
Applicant/Owner: Enbridge			State: MI	Sampling Point:	w-51n25w33-a1
Investigator(s): DPT/SMR		S	ection, Township, Range:	<b>s.</b> 33 <b>t.</b> 51N	<b>R.</b> 25W
Landform (hillslope, terrace, etc.)	: Lowland	Loca	l relief (concave, convex, r	none): concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	K	<b>Lat.:</b> 46 5	1.6913 <b>Lon</b>	-93 31.4171	Datum: NAD 83
Soil Map Unit Name: 628				NWI classification:	N/A
Are climatic/hydrologic condition	s 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	turbed? Are "Norma	Circumstances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrol	ogy	matic? (If needed,	explain any answers in Rei	narks.)
Summary of Findings -	Attach site		,		•
Hydrophytic Vegetation Present?	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 p	rocedures here	or in a separate report.)	"		
Hydrology					
Wetland Hydrology Indicators:				Secondary Indicators (minim	num of 2 required)
Primary Indicators (minimum of	one required;	check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves (B	9)	Drainage Patterns (B10)	
✓ High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	
✓ Saturation (A3)  Water Marks (B1)		Marl Deposits (B15)	o-1	Dry Season Water Table	e (C2)
Sediment Deposits (B2)		Hydrogen Sulfide Odor (		Crayfish Burrows (C8)  Saturation Visible on Ae	rial Imagary (CO)
Drift deposits (B3)		Oxidized Rhizospheres a  Presence of Reduced Iro		Stunted or Stressed Plan	
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 Ima	gery (B7)	Other (Explain in Remark	ks)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Sur	face (B8)			FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes		Depth (inches):	5		
Water Table Present? Yes	● No ○	Depth (inches):	0	rology Present? Yes	No O
Saturation Present? (includes capillary fringe) Yes	No	Depth (inches):	0 Wetland Hyd	rology Present? Yes	
Describe Recorded Data (stream	gauge, monito	oring well, aerial photos, pro	evious inspections), if avai	lable:	
Remarks:					
Kemarks.					

## **VEGETATION - Use scientific names of plants**

VEGETATION - USE SCIENCIFIC Harries of pio	Sampling Point: w-51n25w33-a1					
- (Plot size: 30	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover		Status	Number of Dominant Species		
1. Fraxinus nigra		<b>✓</b>	FACW	That are OBL, FACW, or FAC:4(A)		
2				Total Number of Dominant		
3	0			Species Across All Strata:4 (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 )				0BL speci es 90 x 1 = 90		
1 . Alnus incana		✓	FACW	FACW species 80 x 2 = 160		
2				FAC speciles		
3	0			<u> </u>		
4	0			1		
5	0			UPL speci es $0 \times 5 = 0$		
6				Column Totals: <u>170</u> (A) <u>250</u> (B)		
7				Prevalence Index = B/A =1.471_		
		Total Cover		Hydrophytic Vegetation Indicators:		
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation		
1. Carex lacustris	40	✓	OBL	✓ Dominance Test is > 50%		
2. Calamagrostis canadensis	50	✓	OBL			
3	0			<b>V</b> Prevalence Index is ≤3.0 <sup>1</sup>		
4				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				Problematic Hydrophytic Vegetation - (Explain)		
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7				be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9						
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
l1				at breast height (DBH), regardless of height.		
12				Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30 )	90 =	= Total Cove	r	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 Cove	r			
				Hydrophytic		
				Vegetation		
				Present? Yes • No		
Remarks: (Include photo numbers here or on a separate sh	eet.)					

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-51n25w33-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth <u>Matrix</u>			Redox Features				_					
(inches)	Color (	moist)	<u>%</u>	Color (	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-6	10YR	2/1	100						Muck			
6-20	10YR	5/2	90	10YR	4/6	10	С	М	Sandy Clay Loam			
									-			
		-			-							
						-						
		-			-							
1 Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix.	CS=Covere	ed or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=M	latrix		
Hydric Soil I		_ opiotio						2000	<del>_</del>			
Histosol (A				Polya	zalue Relov	w Surface	(S8) (I RP	R		ematic Hydric Soils: 3		
	pedon (A2)				4 149B)	w Surface	(30) (LIKIK	IX,		(LRR K, L, MLRA 149B)		
Black Histi				Thin	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
	Sulfide (A4)			Loan	Loamy Mucky Mineral (F1) LRR K, L)			)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5)			Loan	ny Gleyed	Matrix (F2)	)			Dark Surface (S7) (LRR K, L, M)		
	Below Dark	Surface (A	11)	✓ Depleted Matrix (F3)						urface (S8) (LRR K, L)		
	k Surface (A		,	Redox Dark Surface (F6)					☐ Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (			Depl	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
_	eyed Matrix (			Redo	Redox Depressions (F8)				Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		,							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
_	Stripped Matrix (S6)					☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (TF12)						
	ace (S7) (LR	R R, MLRA	(149B)						Utery Snallow Dark Surface (1F12)  Other (Explain in Remarks)			
										Remarks)		
<sup>3</sup> Indicators of			n and wetta	ina nyarology	must be p	oresent, un	ness distur	bed or probl	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes ● No ○		
Depth (inch	hes):								nyuric Soil Present?	Yes S No C		
Remarks:												