## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	County: Aitkin	Samplin	<b>Date:</b> 06-Sep-17
Applicant/Owner: Enbridge			State: MI	Sampling Point:	u-51n23w23-e1
Investigator(s): SMR		Se	ection, Township, Range:	<b>s.</b> 23 <b>t.</b> 51N	<b>R.</b> 23W
Landform (hillslope, terrace, etc.):	Mound	Local	relief (concave, convex,	none): convex	Slope: 3.5 % / 2.0 °
Subregion (LRR or MLRA): LRR K		<b>Lat.:</b> 46 53.	.1123 <b>Lon</b>	g.: -93 12.8253	Datum: NAD 83
Soil Map Unit Name: 204B				NWI classification:	N/A
Are climatic/hydrologic conditions o	on the site ty	pical for this time of year?	Yes ● No ○	(If no, explain in Remarks	s.)
Are Vegetation , Soil	, or Hydrolo		urbed? Are "Norma	Circumstances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrold	ogy  naturally problen		explain any answers in Rer	marks.)
Summary of Findings - At	•		,	•	•
Hydrophytic Vegetation Present?	Yes O	No •			
Hydric Soil Present?		No •	Is the Sampled Area within a Wetland?	Yes O No 💿	
Wetland Hydrology Present?	Yes $\bigcirc$	No •			
Remarks: (Explain alternative pro	cedures here	or in a separate report.)			
Hydrology					
Wetland Hydrology Indicators:				Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimum of o	ne required;	check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves (B9	<b>)</b> )	Drainage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)  Water Marks (B1)		Marl Deposits (B15)		Dry Season Water Table	(C2)
Sediment Deposits (B2)		Hydrogen Sulfide Odor (C		Crayfish Burrows (C8) Saturation Visible on Ae	rial Imagary (CO)
Drift deposits (B3)		Oxidized Rhizospheres ald Presence of Reduced Iron		Stunted or Stressed Plan	0 3 . ,
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 Image	•	Other (Explain in Remarks	s)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface	ce (B8)			FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes		Depth (inches):	0		
Water Table Present? Yes	○ No ●	Depth (inches):	0	rology Present? Yes	○ No ●
Saturation Present? (includes capillary fringe) Yes	No ●	Depth (inches):	0 Wetland Hyd	rology Present? Yes	O NO S
Describe Recorded Data (stream g	auge, monito	ring well, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					

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

vegeration - ose scientific fiames of pr	ants			Sampling Point: u-51n23w23-e1
(0) -1 -20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:4(B)
4				
5				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6				That Are OBE, TAGW, OF TAG.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )		Total Cove	r	Total % Cover of: Multiply by:
	0			0BL speci es x 1 =
1				FACW species 0 x 2 = 0
2				FAC speciles x 3 =0
3				FACU species80 x 4 =320
4				UPL species $\frac{20}{100} \times 5 = \frac{100}{100}$
5				Column Totals: 100 (A) 420 (B)
6				
7		T-1-1 0		Prevalence Index = B/A = 4.200
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
	30	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation
O. Bernande		<b>✓</b>	UPL	☐ Dominance Test is > 50%
		<b>✓</b>	FACU	Prevalence Index is ≤3.0 <sup>1</sup>
4. 80			FACU	☐ Morphological Adaptations <sup>1</sup> (Provide supporting
4. Plantago major	20	<b>✓</b>		data in Remarks or on a separate sheet)
5. Taraxacum officinale			FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Deminions of Vegetation strata.
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )	100 =	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		T-1-1 0		height.
		= Total Cove	r	
				Hydrophytic
				Vegetation
				Present? Yes V No V
				<u> </u>
Remarks: (Include photo numbers here or on a separate s	sheet.)			

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

Soil Sampling Point: u-51n23w23-e1

Depth	Matrix			lox Features		_	
(inches)	Color (moist)	<u> </u>	lor (moist)	<u>% Type</u> 1	Loc2	Texture	Remarks
			-				
						-	
Type: C-Con	contration D-Donlation	PM_Poducod Ma	triv CS_Covere	od or Coatod Sand Cra	ins 21 oca	ation: PL=Pore Lining. M=Ma	ntriv
		RIVI=Reduced IVIA	uix, cs=covere	ed of Coated Sand Gra	IIIS -LUCA		
Hydric Soil I			Dobardus D-1	y Curface (CO) (LDD D		Indicators for Proble	matic Hydric Soils: 3
Histosol (			MLRA 149B)	v Surface (S8) (LRR R	,	2 cm Muck (A10) (	LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	ice (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hist	n Sulfide (A4)			Mineral (F1) LRR K, L)	·	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed I			Dark Surface (S7)	(LRR K, L, M)
	Below Dark Surface (A11)		Depleted Matrix				ırface (S8) (LRR K, L)
	k Surface (A12)		Redox Dark Sur			Thin Dark Surface	(S9) (LRR K, L)
		_	Depleted Dark			Iron-Manganese M	asses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	n Soils (F19) (MLRA 149B)
	eyed Matrix (S4)	_				Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re						Red Parent Materia	l (F21)
	Matrix (S6)	100)				Very Shallow Dark	Surface (TF12)
	ace (S7) (LRR R, MLRA 14					Other (Explain in R	emarks)
<sup>3</sup> Indicators o	f hydrophytic vegetation a	nd wetland hydr	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:	7						
	ootential buried utilities	!!	ما ماسلمتينا متمسل				
ινο alggirig, μ	otentiai buried utilities	. Solis assumed	i non-nyunc i	ased on vegetation	1.		