## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 29-Aug-17
Applicant/Owner: Enbridge		State: MI	Sampling Point: w-51n25w36-a2
Investigator(s): SMR		Section, Township, Range:	<b>s.</b> 36 <b>t.</b> 51N <b>R.</b> 25W
Landform (hillslope, terrace, etc.): Low	·land	Local relief (concave, convex, r	
Subregion (LRR or MLRA): LRR K		46 51.5135 <b>Lon</b>	9: -93 27.4134 <b>Datum:</b> NAD 83
Soil Map Unit Name: 546			NWI classification: N/A
Are climatic/hydrologic conditions on the	e site typical for this time of ye	ar? Yes O No •	(If no, explain in Remarks.)
			Circumstances" present? Yes No
	· Hydrology	-	explain any answers in Remarks.)
_ , _ ,		,	explain any answers in Remarks.) IS, transects, important features, etc
	es • No ·		,,,,,,,,,,
7 7	es • No ·	Is the Sampled Area	Yes ● No ○
,	es • No ·	within a Wetland?	Tes UNU U
Remarks: (Explain alternative procedu		• \	
Hardwala and			
Hydrology			
Wetland Hydrology Indicators:	de check all that apply)		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one re  Surface Water (A1)	equired; cneck all that apply)  Water-Stained Leav	voc (PO)	☐ Surface Soil Cracks (B6) ☐ 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 O		Crayfish Burrows (C8)
Sediment Deposits (B2)		res along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduce	ed Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduct	ion in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (	• ,	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7  Sparsely Vegetated Concave Surface (B8	Utilei (Explain in Ne	emarks)	Microtopographic Relief (D4)
Sparsely vegetated concave surface (bo	<i>)</i>		✓ FAC-neutral Test (D5)
Field Observations: Surface Water Present?  Yes	No Depth (inches):		
	-		
	No Depth (inches):		rology Present? Yes  No
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	0	ology Present:
Describe Recorded Data (stream gauge	, monitoring well, aerial photos	s, previous inspections), if avai	lable:
Remarks:			

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

VEGETATION - OSE SCIENCING Harnes of pla	Sampling Point: w-51n25w36-a2			
(No. 1 - 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: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		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 100 x 1 = 100
1 Alnus incana		<b>✓</b>	FACW	FACW species 80 x 2 = 160
2	0			FAC species 0 x 3 = 0
3	0			I
4				FACU species $0 \times 4 = 0$
5				UPL speci es x 5 =
6				Column Total s: <u>180</u> (A) <u>260</u> (B)
7				Prevalence Index = B/A = 1.444
		= Total Cove	-	
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:  Rapid Test for Hydrophytic Vegetation
1 Carex lacustris	80	<b>✓</b>	OBL	
2. Calamagrostis canadensis		<b>✓</b>	OBL	✓ Dominance Test is > 50%
3				Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5				l
				☐ 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				a community of a contract of a contract
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	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			Llorb All barbassays (non yeardy) plants regardless of
1				Herb - All herbaceous (non-woody) plants, regardless of 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-51n25w36-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth						_			
(inches)	Color (moist	:) %	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks	
0-14	10YR 3/	2 100					Peat		
				-					
							-		
				-		-			
				-					
				-					
		letion. RM=Redu	uced Matrix, CS=Covere	d or Coate	ed Sand Gra	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=Ma	atrix	
Hydric Soil I							Indicators for Proble	ematic Hydric Soils: 3	
Histosol (A			Polyvalue Belov	/ Surface (	(S8) (LRR R	.,		LRR K, L, MLRA 149B)	
✓ Histic Epip	pedon (A2)		MLRA 149B)	(CO) (I		A 140D)		x (A16) (LRR K, L, R)	
Black Histi	ic (A3)		☐ Thin Dark Surfa					r Peat (S3) (LRR K, L, R)	
_	Sulfide (A4)		Loamy Mucky M				Dark Surface (S7)		
	Layers (A5)		Loamy Gleyed N					urface (S8) (LRR K, L)	
	Below Dark Surfac	e (A11)	Depleted Matrix				Thin Dark Surface		
Thick Dark	k Surface (A12)		Redox Dark Sur		7)			asses (F12) (LRR K, L, R)	
	ck Mineral (S1)		Depleted Dark S		/)			in Soils (F19) (MLRA 149B)	
	yed Matrix (S4)		Redox Depressi	ons (F8)				(MLRA 144A, 145, 149B)	
Sandy Red							Red Parent Materia		
Stripped N	Matrix (S6)						Very Shallow Dark		
☐ Dark Surfa	ace (S7) (LRR R, M	ILRA 149B)					Other (Explain in R		
<sup>3</sup> Indicators of	hydrophytic vege	ation and wetla	nd hydrology must be p	resent, unl	less disturb	ed or proble	ematic.		
	ayer (if observed					•			
Type: <u>ro</u>	-	.,.							
Depth (inch							Hydric Soil Present?	Yes   No	
•	les)14								
Remarks:									