WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date:	: 30-Aug-17
Applicant/Owner: Enbridge		State: MI	Sampling Point: u-	51n25w35-e6
Investigator(s): SMR		Section, Township, Range:	s. 34 t. 51N	R. 25W
Landform (hillslope, terrace, etc.): MO	und I	Local relief (concave, convex,		e: _ 5.2 % / _ 3.0 °
Subregion (LRR or MLRA): LRR K	Lat.: ∠	46 51.6130 Lon	g.: -93 30.8370	Datum: NAD 83
Soil Map Unit Name: 202			NWI classification: N/A	
Are climatic/hydrologic conditions on th	e site tunical for this time of ve	ear? Yes O No •	(If no, explain in Remarks.)	
. ,	. –		` ' ' '	s ● No ○
	r Hydrology 🔲 naturally pr		circumstances present.	
Summary of Findings - Attac		• ,	explain any answers in Remarks.) ns. transects. important	
	res No •	point rocation	is, cransects, important	100101100, 010
7 7	res O No •	Is the Sampled Area	Yes ○ No •	
	res O No •	within a Wetland?	res U No U	
Wetland Hydrology Present? Remarks: (Explain alternative procedum)				
Hydrology	_			
Hydrology				
Wetland Hydrology Indicators:	aguired, about all that apply)		Secondary Indicators (minimum of 2	required)
Primary Indicators (minimum of one real Surface Water (A1)	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)		eres along Living Roots (C3)	Saturation Visible on Aerial Imag	gery (C9)
Drift deposits (B3)	Presence of Reduce	ed Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reducti	tion in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (` ,	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B	Utilei (Explain in ite	emarks)	✓ Microtopographic Relief (D4)✓ FAC-neutral Test (D5)	
Sparsely vegetated concave surface (b	6)		FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes	No Depth (inches):	0		
	No Depth (inches):	0 Wetland Hvd	rology Present? Yes O No	. •
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	00	ology i resent.	
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos	s, previous inspections), if ava	lable:	
Remarks:				

VEGETATION - Use scientific names of plants

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(0) 20	Absolute	Dominant Species?	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			TAIN A COLOR
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				
5				Percent of dominant Species
6		\Box		That Are OBL, FACW, or FAC: 0.0% (A/B)
7		\Box		Prevalence Index worksheet:
7-		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Cove		
1	0			
2		П		FACW species x 2 =0
3				FAC speciles x 3 =0
				FACU species x 4 =400
4				UPL species $0 \times 5 = 0$
5				Column Totals: 100 (A) 400 (B)
6				
7				Prevalence Index = B/A =4.000_
Herb Stratum (Plot size: 5		Total Cove	r	Hydrophytic Vegetation Indicators:
			540	Rapid Test for Hydrophytic Vegetation
1. Poa pratensis		✓	FACU	Dominance Test is > 50%
2. Trifolium repens	10		FACU	Prevalence Index is ≤3.0 ¹
3. Pteridium aquilinum	40	✓	FACU	Morphological Adaptations ¹ (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
0				
				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at breast height (DBH), regardless of height.
12	-			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				height.
		= Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sl	neet.)			
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^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n25w35-e6

Profile Descr	iption: (Des	cribe to	the depth	needed to document	the indicator or con	firm the a	absence of indicators.)		
Depth				Redox Features			-		
(inches)	Color (%	Color (moist)		Loc ²	<u>Texture</u>	Remarks	
0-3	10YR	2/2	100				Silt Loam		
3-20	10YR	4/3	100				Silt Loam		
		-							
		-					-		
		-							
		=Depletio	n. RM=Redi	uced Matrix, CS=Covere	d or Coated Sand Grai	ns ² Loca	tion: PL=Pore Lining. M=M		
Hydric Soil I							Indicators for Proble	ematic Hydric Soils: 3	
Histosol (A				Polyvalue Belov MLRA 149B)	Surface (S8) (LRR R,		2 cm Muck (A10)	(LRR K, L, MLRA 149B)	
	pedon (A2)				ce (S9) (LRR R, MLRA	149R)	Coast Prairie Redo	x (A16) (LRR K, L, R)	
Black Hist					lineral (F1) LRR K, L)	1175)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)	
	Sulfide (A4)			Loamy Gleyed N			Dark Surface (S7)	(LRR K, L, M)	
	Layers (A5)		11)	Depleted Matrix			Polyvalue Below S	urface (S8) (LRR K, L)	
	Below Dark S k Surface (A1		11)	Redox Dark Sur			Thin Dark Surface	(S9) (LRR K, L)	
				Depleted Dark			Iron-Manganese M	lasses (F12) (LRR K, L, R)	
	ck Mineral (S			Redox Depressi				in Soils (F19) (MLRA 149B)	
Sandy Red	yed Matrix (S	54)		•) (MLRA 144A, 145, 149B)	
Stripped N							Red Parent Materia		
	ace (S7) (LRF	P MIRA	149R)						
							Other (Explain in F	Remarks)	
Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology must be p	resent, unless disturbe	d or proble	ematic.		
Restrictive La	ayer (if obs	erved):							
Type:							Hydric Soil Present?	Yes ○ No •	
Depth (inch	nes):						Hydric Soil Present?	Yes ○ No ●	
Remarks:									