## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 31-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n26w31-p1
Investigator(s): DPT		Section, Township, Range:	<b>S.</b> 31 <b>T.</b> 51N <b>R.</b> 26W
Landform (hillslope, terrace, etc.): Shou	ulder slope	Local relief (concave, convex, r	one): convex Slope: _26.7 % / _15.
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 4	l6 52.1589 <b>Long</b>	.: -93 41.4701 <b>Datum:</b> NAD 83
Soil Map Unit Name: 928D			NWI classification: N/A
Are climatic/hydrologic conditions on the	site typical for this time of ye	ar? Yes O No 💿	(If no, explain in Remarks.)
			Circumstances" present? Yes No
	Hydrology  naturally pr		circumstances present.
_ , _ ,		,	explain any answers in Remarks.) IS, transects, important features, etc
	s No •		is, cransces, important reactives, etc
, , , , , , , , , , , , , , , , , , , ,	s O No •	Is the Sampled Area	Yes ○ No ●
V-	s O No •	within a Wetland?	res O No O
Wetland Hydrology Present?  Remarks: (Explain alternative procedure)			
Hydrology			
Wetland Hydrology Indicators:	guired, about all that apply)		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one red Surface Water (A1)	Water-Stained Leave	os (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 Od		Crayfish Burrows (C8)
Sediment Deposits (B2)		res along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduce	d Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reducti	ion in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (	(C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		emarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	)		FAC-neutral Test (D5)
Field Observations:	Depth (inches):	_	
Curiaco Mator Frederiti	-	0	
	Depth (inches): _	0 Wotland Hyd	rology Present? Yes O No •
Saturation Present? (includes capillary fringe) Yes N	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**

vegeration - ose scientific fiames of pr	Sampling Point: u-51n26w31-p1			
(0)	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	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: 0.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				0BL species 0 x 1 = 0
1	0			FACW species 0 x 2 = 0
2	0			
3				FAC species $0 \times 3 = 0$
4				FACU species $90 \times 4 = 360$
5				UPL species $\frac{10}{}$ x 5 = $\frac{50}{}$
6.				Column Totals: 100 (A) 410 (B)
7				Prevalence Index = B/A = 4.100
		= Total Cove		
Herb Stratum (Plot size: 5 )		- iotai cove	•	Hydrophytic Vegetation Indicators:
1. Phleum pratense	30	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation
0. 0//			FACU	☐ Dominance Test is > 50%
		<b>✓</b>	FACU	Prevalence Index is ≤3.0 ¹
		<b>✓</b>	FACU	☐ Morphological Adaptations <sup>1</sup> (Provide supporting
4. Pteridium aquilinum				data in Remarks or on a separate sheet)
5. Ascleplas syrlaca			UPL	☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				1 To disable of body and so the desired and body at the state of the s
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				Configuration Management Local through a BBH and
	_	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30 )				grouter than 6.20 ft (fm) 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.
	0 =	= Total Cove	r	
				Hydrophytic
				Vegetation Present? Yes No
				Present? Yes Vo V
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: u-51n26w31-p1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth		Matrix			dox Feature			_	
(inches)	Color (	moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
0-9	10YR	4/4	100					Loamy Sand	
9-20	10YR	4/4	100					Sand	
		-						-	
			-					-	
		-		-					
		-	-	<del></del>					
1 Type: C=Con	centration. D	=Depletio	n. RM=Red	duced Matrix. CS=Covere	ed or Coated	Sand Gra	ins <sup>2</sup> Loca	ation: PL=Pore Lining. M=Ma	trix
Hydric Soil 1		Dopiono		aucea manny co coron		ouru oru			
Histosol (				Polyvalue Belov	w Surface (S	9) (I DD D			matic Hydric Soils: $^3$
	pedon (A2)			MLRA 149B)	v Surface (S	O) (LIKIK IK,			LRR K, L, MLRA 149B)
Black Hist				Thin Dark Surfa	ace (S9) (LR	RR R, MLRA	A 149B)		(A16) (LRR K, L, R)
	Sulfide (A4)			Loamy Mucky I	Mineral (F1)	LRR K, L)		_	Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleyed	Matrix (F2)			Dark Surface (S7) (	
	Below Dark S	Surface (A	11)	Depleted Matri	(F3)				rface (S8) (LRR K, L)
	k Surface (A		,	Redox Dark Su	rface (F6)			Thin Dark Surface (	
	ıck Mineral (S			Depleted Dark	Surface (F7)				asses (F12) (LRR K, L, R)
	eyed Matrix (			Redox Depress	ions (F8)				n Soils (F19) (MLRA 149B)
Sandy Re		01)							(MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Materia	
	ace (S7) (LRI	R R. MIRA	(149B)					☐ Very Shallow Dark S	
								Other (Explain in Re	emarks)
Indicators of	f hydrophytic	vegetatio	n and wetl	and hydrology must be p	resent, unle	ss disturbe	ed or probl	ematic.	
Restrictive L	ayer (if obs	erved):							
Type:									
Depth (inc	hes):							Hydric Soil Present?	Yes ○ No •
Remarks:									
ĺ									