## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Co	ounty: Aitkin	Sampling Date: 23-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n26w33-b4
Investigator(s): SMR	Sec	tion, Township, Range: S.	34 <b>T.</b> 51N <b>R.</b> 26W
Landform (hillslope, terrace, etc.): Moun		elief (concave, convex, noi	
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 51.8	3264 <b>Long.:</b>	-93 37.6114 <b>Datum:</b> NAD 83
Soil Map Unit Name: 540			NWI classification: N/A
Are climatic/hydrologic conditions on the	eite tynical for this time of year?	Yes O No O	If no, explain in Remarks.)
	lydrology	•	ircumstances" present? Yes  No
	lydrology		realistances present.
_ , _ ,		,	plain any answers in Remarks.) , transects, important features, etc
Hydrophytic Vegetation Present? Yes		mg pome locations	, transcoo, important reatures, etc
Hydric Soil Present? Yes		Is the Sampled Area	Yes ○ No ●
Ven		within a Wetland?	res UNO U
Wetland Hydrology Present?  Remarks: (Explain alternative procedure			
Hydrology			
Hydrology			
Wetland Hydrology Indicators:	ired, sheek all that apply)	<u></u>	secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one requirements Surface Water (A1)	Water-Stained Leaves (B9)		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 Odor (C1	)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres alon	ng Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (	(C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in T	illed Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	☐ Thin Muck Surface (C7)	Ĺ	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)	Uther (Explain in Remarks)	L T	Microtopographic Relief (D4)
Sparsery vegetated concave surface (66)		L	FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):		
		<u>)                                    </u>	
		O Wetland Hydrol	ogy Present? Yes O No 💿
Saturation Present? (includes capillary fringe) Yes No	Depth (inches):(	) Wedana Hyaron	ogy i resent.
Describe Recorded Data (stream gauge, r	monitoring well, aerial photos, previ	ious inspections), if availat	ole:
Remarks:			

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

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(2)	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species				
1 Fraxinus nigra	10	✓	FACW	That are OBL, FACW, or FAC: (A)				
2. Populus tremuloides	15	✓	FACU	Total Number of Daminout				
3	0			Total Number of Dominant Species Across All Strata: 6 (B)				
4								
5				Percent of dominant Species				
6.		$\overline{\Box}$		That Are OBL, FACW, or FAC: 33.3% (A/B)				
7		$\overline{\Box}$		Prevalence Index worksheet:				
		Total Cove		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15		- rotar cove	•	0BL species 0 x 1 = 0				
1 Corylus cornuta	40	<b>✓</b>	FACU					
2	0	$\overline{\Box}$		FACW species 45 x 2 = 90				
3		$\overline{\Box}$		FAC species x 3 =				
4				FACU species $85 \times 4 = 340$				
5				UPL species $\frac{40}{}$ x 5 = $\frac{200}{}$				
6				Column Totals: <u>170</u> (A) <u>630</u> (B)				
				Dravalance Index D/A 2.70/				
7		= Total Cove		Prevalence Index = B/A = 3.706				
Herb Stratum (Plot size: 5	40 =	= Total Cove	Г	Hydrophytic Vegetation Indicators:				
	20	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation				
		<b>✓</b>		☐ Dominance Test is > 50%				
2. Solidago gigantea			FACW	Prevalence Index is ≤3.0 ¹				
3. Eurybia macrophylla		<b>✓</b>	UPL	Morphological Adaptations <sup>1</sup> (Provide supporting				
4. Symphyotrichum novae-angliae			FACW	data in Remarks or on a separate sheet)				
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
6	0			1				
7	0			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		$\overline{\Box}$						
	-	= 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				greater than 3.20 ft (1111) tall				
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 V No V				
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-51n26w33-b4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	pth Matrix Redox Features						_				
(inches)	Color (	moist)	%	Color	(moist)	%_	Type 1	Loc <sup>2</sup>	Texture	Rema	rks
0-12	10YR	3/4	100						Sandy Loam		
12-20	10YR	4/3	90	10YR	4/6	10	С	М	Loamy Sand		
			-								
			-						-	<del>_</del>	
			-								
			-								
<sup>1</sup> Type: C=Cond	entration. D	=Depletio	n. RM=Red	duced Matrix.	CS=Cover	ed or Coate	ed Sand Gr	rains <sup>2</sup> Loca	ation: PL=Pore Lining. M	=Matrix	
Hydric Soil I						55410		. 2000			<b>5</b> -11- 3
Histosol (A				Poly	walue Relo	w Surface (	(S8) (LPP	R.	Indicators for Pro		
Histic Epip	•				RA 149B)	Janace (	(JU) (LIKIK	•••		O) (LRR K, L, MLRA	
Black Histi				Thir	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)		edox (A16) (LRR K,	
	Sulfide (A4)			Loai	my Mucky I	Mineral (F1	) LRR K, L	)		at or Peat (S3) (LRF	R K, L, R)
	_ayers (A5)			Loai	my Gleyed	Matrix (F2)	)			57) (LRR K, L, M)	
	Below Dark S	Surface (A	11)	☐ Dep	leted Matri	x (F3)				V Surface (S8) (LRR	
	Surface (A		,	Red	ox Dark Su	ırface (F6)				ce (S9) (LRR K, L)	
	ck Mineral (S			☐ Dep	leted Dark	Surface (F	7)			e Masses (F12) (LR	
	yed Matrix (			Red	ox Depress	sions (F8)				plain Soils (F19) (M	
Sandy Red		,								A6) (MLRA 144A, 1	45, 149B)
Stripped M									Red Parent Mat		
	ice (S7) (LR	R R, MLRA	(149B)						_	ark Surface (TF12)	
									Other (Explain i	n Remarks)	
<sup>3</sup> Indicators of			n and weti	and nydrology	y must be p	present, un	iless distur	bea or probl	lematic.		
Restrictive La	yer (if obs	erved):									
Type:									Undria Cail Brasanti		
Depth (inch	nes):								Hydric Soil Present	? Yes ∪ I	No 💿
Remarks:											
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