## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Co	<b>unty:</b> Aitkin	Sampling Date: 31-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51n24w26-aa3
Investigator(s): SMR	Sect	ion, Township, Range: S.	26 <b>T.</b> 51N <b>R.</b> 24W
Landform (hillslope, terrace, etc.): Lowla		lief (concave, convex, non	
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 52.40	)30 <b>Long.:</b>	-93 20.4512 <b>Datum:</b> NAD 83
Soil Map Unit Name: 685			NWI classification: N/A
Are climatic/hydrologic conditions on the s	eite tynical for this time of year?	Yes O No O (I	f no, explain in Remarks.)
., _	lydrology	`	rcumstances" present? Yes • No
	lydrology		cambiances present.
_ , _ ,		, , ,	lain any answers in Remarks.) transects, important features, etc
Hydrophytic Vegetation Present? Yes	<u> </u>	ing point locations,	cransces, important reactives, etc
Hydric Soil Present? Yes		Is the Sampled Area	Yes   No
Yes		within a Wetland?	res 🕒 No 🔾
Wetland Hydrology Present?  Remarks: (Explain alternative procedure			
Hydrology			
Wetland Hydrology Indicators:	1 - I - I - I - II II - I - A - ammle A		econdary Indicators (minimum of 2 required)
Primary Indicators (minimum of one requestions Surface Water (A1)		L	Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2)	☐ Water-Stained Leaves (B9) ☐ 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 along	Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (0	· _	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Till	led Soils (C6)	_ ` ` ` /
Iron Deposits (B5)	Thin Muck Surface (C7)	L	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	L	<ul><li>✓ Microtopographic Relief (D4)</li><li>✓ FAC-neutral Test (D5)</li></ul>
Sparsery vegetated concave surface (50)		·	T FAC-neutral rest (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches): 0		
	Depth (inches):0	Wetland Hydrolo	ogy Present? Yes   No
Saturation Present? (includes capillary fringe) Yes No	Depth (inches): 0		, , , , , , , , , , , , , , , , , , ,
Describe Recorded Data (stream gauge, r	monitoring well, aerial photos, previo	ous inspections), if availab	le:
Remarks:			
Remarks.			

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

vegeration - ose scientific fiames of pla	iits			Sampling Point: w-51n24w26-aa3
(Diet size, 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover		Status	Number of Dominant Species
1. Fraxinus nigra	30	✓	FACW	That are OBL, FACW, or FAC:3(A)
2. Populus tremuloides	50	✓	FACU	Total Niverban of Descinant
3	0			Total Number of Dominant Species Across All Strata: 4 (B)
4				
5				Percent of dominant Species
				That Are OBL, FACW, or FAC: 75.0% (A/B)
6				Prevalence Index worksheet:
7				
Sapling/Shrub Stratum (Plot size: 15 )	=	= Total Cove	r	Total % Cover of: Multiply by:  OBL species 60 x 1 = 60
1	0			
2				FACW species
	=			FAC speci es x 3 = 0
3				FACU species $\underline{50}$ x 4 = $\underline{200}$
4				UPL speci es $0 \times 5 = 0$
5				Column Totals: 180 (A) 400 (B)
6				Column local s. 100 (A) 400 (-)
7	0			Prevalence Index = B/A = 2.222
Herb Stratum (Plot size: 5 )		= Total Cove	r	Hydrophytic Vegetation Indicators:
			54014	Rapid Test for Hydrophytic Vegetation
1. Onoclea sensibilis		<b>✓</b>	FACW	✓ Dominance Test is > 50%
2. Calamagrostis canadensis		<b>~</b>	OBL	✓ Prevalence Index is ≤3.0 <sup>1</sup>
3	0			Morphological Adaptations <sup>1</sup> (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				1 Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at bleast 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.
	0 =	= Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes • No
Remarks: (Include photo numbers here or on a separate she	eet )			
romants, (andude photo numbers here or on a separate she	,			

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

Soil Sampling Point: w-51n24w26-aa3

inches)		Matrix				dox Featu					
	Color (m		<u>%</u>	Color (	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR	2/1	100						Silt Loam		
5-13	10YR	5/2	90	10YR	5/4	10	C	_M	Silty Clay Loam		
13-20	10YR	6/2	80	10YR	5/6	20	С	M	Clay Loam		
									-		
					-	-			-		
ne: C=Con	centration D=	:Depletio	n RM=Redu	ced Matrix	CS=Cover	ed or Coate	d Sand Gra	nins 21 oca	ation: PL=Pore Lining. M=Ma	atrix	
	indicators:								Indicators for Proble		3
Histosol (				Poly	value Belo	w Surface (	S8) (LRR R				
•	pedon (A2)			MLR	A 149B)					(LRR K, L, MLRA 1491 x (A16) (LRR K, L, R)	
Black Hist	ic (A3)			_		ace (S9) (L				x (A16) (LRR K, L, K, or Peat (S3) (LRR K, I	
Hydrogen	Sulfide (A4)					Mineral (F1)			Dark Surface (S7)		L, K)
Stratified	Layers (A5)					Matrix (F2)				urface (S8) (LRR K, L	.)
	Below Dark Su		11)		leted Matri				Thin Dark Surface		,
	k Surface (A12				ox Dark Su	rrace (F6) Surface (F7	7)			lasses (F12) (LRR K,	L, R)
	ıck Mineral (S1				ox Depress		')		Piedmont Floodplai	in Soils (F19) (MLRA	149B)
	eyed Matrix (S4	4)		□ Keu	ox Depress	10115 (1 0)			Mesic Spodic (TA6)	) (MLRA 144A, 145,	149B)
Sandy Red									Red Parent Materia	al (F21)	
	Matrix (S6)	D MI DA	1.40D)						Very Shallow Dark	Surface (TF12)	
	ace (S7) (LRR								Other (Explain in R	Remarks)	
ndicators of	f hydrophytic v	/egetatio	n and wetla	nd hydrology	must be p	resent, un	ess disturb	ed or proble	ematic.		
		rved):									
	ayer (if obse								Hydric Soil Present?	Yes   No	$\overline{}$
trictive L	ayer (if obse								nyaric Soil Present?	Yes ( No (	)
trictive La										105 9 110	
<b>trictive L</b> a Type: Depth (incl										100 0 110	
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trictive La Type: Depth (incl										100 0 110	
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<b>trictive L</b> a Type: Depth (incl										TOS S INC.	
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