## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 01-Sep-17
Applicant/Owner: Enbridge	State: M	N Sampling Point: w-51n23w29-c2
Investigator(s): DPT	Section, Township, Range:	<b>s.</b> 29 <b>t.</b> 51N <b>R.</b> 23W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex,	
Subregion (LRR or MLRA): LRR K Lat.:	46 52.4095 <b>Lon</b>	g.: -93 17.2464 <b>Datum:</b> NAD 83
Soil Map Unit Name: 870E		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for this time of	year? Yes   No	(If no, explain in Remarks.)
		I Circumstances" present? Yes ● No ○
Are Vegetation , Soil , or Hydrology naturally		explain any answers in Remarks.)
Summary of Findings - Attach site map showing	•	
Hydrophytic Vegetation Present? Yes  No		
Hydric Soil Present? Yes   No	Is the Sampled Area within a Wetland?	Yes   No
Wetland Hydrology Present? Yes   No	Trium w Transmit.	
Remarks: (Explain alternative procedures here or in a separate rep	ort.)	
Hydrology		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Le	eaves (B9)	Drainage Patterns (B10)
High Water Table (A2)  Aquatic Fauna (B		Moss Trim Lines (B16)
Saturation (A3)		Dry Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide		Crayfish Burrows (C8)
	heres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)  Presence of Redu		Stunted or Stressed Plants (D1)
	uction in Tilled Soils (C6)	✓ Geomorphic Position (D2)
Thirt widek surface	. ,	Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Sparsely Vegetated Concave Surface (B8)	Remarks)	<ul><li>✓ Microtopographic Relief (D4)</li><li>✓ FAC-neutral Test (D5)</li></ul>
Sparsely vegetated concave surface (bb)		FAC-neutral rest (DS)
Field Observations: Surface Water Present?  Yes No Depth (inches):		
· · · · · · · · · · · · · · · · · · ·		
	:0 Wetland Hyd	lrology Present? Yes   No
(includes capillary fringe) Yes V NO Depth (inches):	0	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if ava	ilable:
Remarks:		
Normana.		

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

(No. 1 - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30	% Cover	-	Status	Number of Dominant Species	
1 <sub>.</sub> Fraxinus nigra	80	✓	FACW	That are OBL, FACW, or FAC:3 (A)	
2. Populus tremuloides	5		FACU		
3	0			Total Number of Dominant Species Across All Strata: 3 (B)	
4				Species via 633 viii ottata.	
5				Percent of dominant Species	
				That Are OBL, FACW, or FAC:100.0% (A/B)	
6					
7				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 15 )	85=	= Total Cove	r	Total % Cover of: Multiply by:	
	10		FACW	0BL speci es0 x 1 =0	
1 Fraxinus nigra		<b>✓</b>	FACW	FACW species 100 x 2 = 200	
2			-	FAC speciles0 x 3 =0	
3				FACU species $5 \times 4 = 20$	
4	0			' '	
5	0			· ·	
6	0			Column Totals: 105 (A) 220 (B)	
7	0			Prevalence Index = B/A =2.095_	
	10 =	= Total Cove			
Herb Stratum (Plot size: 5		- Total Gove		Hydrophytic Vegetation Indicators:	
1 Carex Intumescens	10	<b>✓</b>	FACW	Rapid Test for Hydrophytic Vegetation	
• •			TACW	✓ Dominance Test is > 50%	
2				✓ Prevalence Index is ≤3.0 <sup>1</sup>	
3				Morphological Adaptations <sup>1</sup> (Provide supporting	
4				data in Remarks or on a separate sheet)	
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
6	0				
7				<sup>1</sup> 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	
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 )	10 =	= Total Cove	r	greater than 3.28 ft (1m) tall	
	_				
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
2	0				
3	0			Woody vine - All woody vines greater than 3.28 ft in height.	
4	0				
	0 =	= Total Cove	r		
				Hydrophytic	
				Vegetation	
				Present? Yes No	
Remarks: (Include photo numbers here or on a separate she	et )				
Remarks. (Include proto numbers here of on a separate site	.c.,				

Sampling Point: w-51n23w29-c2

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

Soil Sampling Point: w-51n23w29-c2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	th Matrix Redox Features						_				
(inches)	Color (	moist)	%_	Color (	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR	2/1	100						Loam		
5-20	10YR	5/1	95	10YR	5/6	5	С	М	Silt Loam		
									-		
			-	-					-		
					-	-					
			-	-							
1 Type: C=Cond	entration D	)=Depletio	n RM=Red	uced Matrix	CS=Cover	ed or Coate	ed Sand Gr	ains 21 oca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I		Dopictio		acca Matrix,			ca cana di	J.113 LUCE	<del>_</del>		
Histosol (A				Doba	value Polo	w Surface	(S8) (LDD	D		ematic Hydric Soils: 3	
	edon (A2)				value Belov A 149B)	w Suriace	(JU) (LKK	Ν,		(LRR K, L, MLRA 149B)	
Black Histi				Thin	Dark Surfa	ace (S9) (	LRR R, ML	RA 149B)		x (A16) (LRR K, L, R)	
	Sulfide (A4)			Loan	ny Mucky I	Mineral (F1	) LRR K, L	)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Layers (A5)			Loan	ny Gleyed	Matrix (F2)	)		Dark Surface (S7)		
	Below Dark :	Surface (A	11)	<b>✓</b> Depl	eted Matri	x (F3)				urface (S8) (LRR K, L)	
	k Surface (A		,	Redo	x Dark Su	rface (F6)			Thin Dark Surface		
	ck Mineral (S			☐ Depl	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
_	yed Matrix (			Redo	x Depress	sions (F8)				in Soils (F19) (MLRA 149B)	
Sandy Red		.5.,								) (MLRA 144A, 145, 149B)	
Stripped N									Red Parent Materia		
	ace (S7) (LR	R R. MLRA	(149B)						Very Shallow Dark		
									Other (Explain in F	remarks)	
<sup>3</sup> Indicators of	nyaropnytic	vegetatio	n and wetia	ina nyarology	must be p	oresent, un	iless aistur	bea or probl	ematic.		
Restrictive La	ayer (if obs	erved):									
Туре:									Undein Cail Brananta	v	
Depth (inch	nes):								Hydric Soil Present?	Yes ● No ○	
Remarks:											