## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/0	County: Aitkin	Samplin	<b>Date:</b> 01-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n23w29-d1
Investigator(s): DPT		Se	ection, Township, Range:	<b>s.</b> 29 <b>t.</b> 51N	<b>R.</b> 23W
Landform (hillslope, terrace,	etc.): Lowland		relief (concave, convex, r		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	<b>Lat.:</b> 46 52	.4449 <b>Long</b>	-93 17.596	Datum: NAD 83
Soil Map Unit Name: 204C				NWI classification:	N/A
Are climatic/hydrologic cond	itions on the site ty	oical for this time of year?	Yes ● No ○	— (If no, explain in Remarks	s.)
Are Vegetation $\square$ , Soil				Circumstances" present?	Yes ● No ○
Are Vegetation , Soil	, or Hydrolo			explain any answers in Re	
Summary of Finding			,	•	•
Hydrophytic Vegetation Pres		No O		, , ,	•
Hydric Soil Present?	Yes <b>●</b>	No O	Is the Sampled Area	Yes ● No ○	
Wetland Hydrology Present?	v	No O	within a Wetland?	103 0 140 0	
Remarks: (Explain alternat	'				
Hydrology					
Wetland Hydrology Indicato	ors:			Secondary Indicators (minim	num of 2 required)
Primary Indicators (minimu	m of one required;	check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves (B9	9)	Drainage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	(2.5)
Saturation (A3) Water Marks (B1)		Marl Deposits (B15)		Dry Season Water Table	e (C2)
Sediment Deposits (B2)		<ul><li>Hydrogen Sulfide Odor (C</li><li>Oxidized Rhizospheres ald</li></ul>		Crayfish Burrows (C8) Saturation Visible on Ae	rial Imanery (C9)
Drift deposits (B3)		Presence of Reduced Iron		Stunted or Stressed Plan	
Algal Mat or Crust (B4)		Recent Iron Reduction in	• •	Geomorphic Position (D	• •
☐ Iron Deposits (B5)		Thin Muck Surface (C7)	,,,	Shallow Aquitard (D3)	
Inundation Visible on Aeria		Other (Explain in Remarks	s)	Microtopographic Relief	(D4)
Sparsely Vegetated Concav	re Surface (B8)			✓ FAC-neutral Test (D5)	
Field Observations:					
	Yes O No •	Depth (inches):	0		
Water Table Present?	Yes O No •	Depth (inches):	0	rology Present? Yes	● No ○
Saturation Present? (includes capillary fringe)	Yes O No •	Depth (inches):	0 Wetland Hyd	rology Present? Yes	
Describe Recorded Data (str	eam gauge, monito	ring well, aerial photos, pre	vious inspections), if avai	lable:	
Remarks:					

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

vegeration - ose scientific fiames of pr	Sampling Point: w-51n23w29-d1					
(8) -1 -20	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species		
1 <sub>.</sub> Fraxinus nigra		✓	FACW	That are OBL, FACW, or FAC:5 (A)		
2. Quercus bicolor		✓	FACW	Total Number of Daminant		
3	0			Total Number of Dominant Species Across All Strata: 5 (B)		
4						
5				Percent of dominant Species		
6		$\Box$		That Are OBL, FACW, or FAC: 100.0% (A/B)		
7				Prevalence Index worksheet:		
		= Total Cove		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15 )		- Total Cove	•	0BL speci es 10 x 1 = 10		
1 Alnus incana	5	<b>✓</b>	FACW			
2	0	$\overline{\Box}$		FACW species 105 x 2 = 210		
3		$\overline{\Box}$		FAC speciles x 3 =0		
4				FACU species $0 \times 4 = 0$		
5		$\Box$		UPL species $0 \times 5 = 0$		
6		$\Box$	-	Column Total s: 115 (A) 220 (B)		
-		$\Box$				
7				Prevalence Index = B/A = 1.913		
Herb Stratum (Plot size: 5 )	5	= Total Cove	r	Hydrophytic Vegetation Indicators:		
	10	<b>✓</b>	FACW	Rapid Test for Hydrophytic Vegetation		
				✓ Dominance Test is > 50%		
2. <u>Iris versicolor</u>		<b>✓</b>	OBL	✓ 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				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		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 5.25 it (iiii) 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 No		
				Present: 100 0 110 0		
				I		
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: w-51n23w29-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix			Redox Features				_				
(inches)	Color (	moist)	%_	Color (	moist)	%	Type 1	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR	3/1	100						Loam		
4-20	10YR	4/2	80	10YR	4/6	20	С	М	Sandy Clay Loam		
-									-		
		-	-		-						
					-						
		-	-		-						
1 Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix.	CS=Covere	ed or Coate	ed Sand Gr	rains <sup>2</sup> Loca	ation: PL=Pore Lining. M=M	latrix	
Hydric Soil I		_ 0010110				Joun		2000	<del>_</del>		
Histosol (A				Polya	zalue Relo	w Surface	(S8) (LPP	R		ematic Hydric Soils: 3	
	pedon (A2)				4 149B)	Januace	(JU) (LIKIK	••1		(LRR K, L, MLRA 149B)	
Black Histi				Thin	Thin Dark Surface (S9) (LRR R, MLRA 149B)			RA 149B)	Coast Prairie Redox (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) (LRR K, L, M)		
	Below Dark	Surface (A	11)	✓ Depl	eted Matri	x (F3)				urface (S8) (LRR K, L)	
	k Surface (A		,	Redo	x Dark Su	rface (F6)			☐ Thin Dark Surface		
	ck Mineral (			☐ Depleted Dark Surface (F7)				Iron-Manganese Masses (F12) (LRR K, L, R)			
_	eyed Matrix (			Redo	Redox Depressions (F8)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Red		,							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
_	Matrix (S6)								☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (TF12)		
Dark Surface (S7) (LRR R, MLRA 149B)					Uther (Explain in Remarks)						
<sup>3</sup> Indicators of				and budgeleas	mount ha	rocent un	loog digtur	had ar probl		remarks)	
			ii and wella	ina nyarology	must be p	nesent, un	iless distui	bed of proble	ematic.		
Restrictive La	ayer (if obs	erved):									
Type:									Hydric Soil Present?	Yes ● No ○	
Depth (inch	hes):								Tryulic Son Present:	Tes S NO C	
Remarks:											