## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Aitkin	Samplii	Sampling Date: 01-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n24w25-f3	
Investigator(s): SMR	Section, T	ownship, Range: S. 25	<b>T.</b> 51N	<b>R.</b> 24W	
Landform (hillslope, terrace, etc.): Mound	Local relief (c	oncave, convex, none):	convex	<b>Slope:</b> <u>12.2</u> % / <u>7.0</u>	
Subregion (LRR or MLRA): LRR K	46 52.3825	<b>Long.:</b> -93	3 18.9743	Datum: NAD 83	
Soil Map Unit Name: 546	<u>L</u>	I	WI classification:	N/A	
Are Vegetation, Soil, or Hydrology naturally Summary of Findings - Attach site map showing	problematic? sampling p	. , .	any answers in Re ansects, impo		
Hydrophytic Vegetation Present?     Yes     No       Hydric Soil Present?     Yes     No       Wetland Hydrology Present?     Yes     No	Is the	Sampled Area	○ <sub>No</sub> ●		
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 or	ne required; c	heck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		Water-Stained Leaves (B9)	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 along Living I	
Drift deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils	
☐ Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imager			Microtopographic Relief (D4)
Sparsely Vegetated Concave Surfac	5	Other (Explain in Remarks)	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	🔾 No 🖲	Depth (inches): 0	
Water Table Present? Yes	🔾 No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes 🔿 No 🖲
Saturation Present? Yes C	) No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes 🔾 No 🖲
Describe Recorded Data (stream ga	auge, monitor	ing well, aerial photos, previous insp	pections), if available:
Remarks:			

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

vegeration - use scientific names of plai	its			Sampling Point: u-51n24w25-f3
Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus resinosa	60	$\checkmark$	FACU	Number of Dominant Species       That are OBL, FACW, or FAC:     0       (A)
2. Populus tremuloides	10		FACU	
3			-	Total Number of Dominant Species Across All Strata: 5 (B)
4				Species Across All Strata:5(B)
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
1		- Total Cavar		
Sapling/Shrub Stratum (Plot size: 15 )	70 =	= Total Cover		Total % Cover of:         Multiply by:           0BL species         0         x 1 =         0
1. Corylus cornuta	70	$\checkmark$	FACU	
2	0			FACW species $0 \times 2 = 0$
3				FAC species $0 \times 3 = 0$
4				FACU species x 4 =800
5		$\square$		UPL species x 5 =
6	-	$\square$		Column Totals:(A)(B)
7		$\square$		Dravalance Index D/A 4.1/7
		= Total Cover		Prevalence Index = B/A =4.167
Herb Stratum (Plot size: 5)	=			Hydrophytic Vegetation Indicators:  Rapid Test for Hydrophytic Vegetation
1. Aralia nudicaulis	30	$\checkmark$	FACU	Dominance Test is > 50%
2. Pteridium aquilinum	30	$\checkmark$	FACU	$\square \text{ Prevalence Index is } \leq 3.0^{-1}$
3. Eurybla macrophylla	40	$\checkmark$	UPL	<ul> <li>Prevalence index is 25.0</li> <li>Morphological Adaptations <sup>1</sup> (Provide supporting</li> </ul>
4	0			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				
Woody Vine Stratum (Plot size: <u>30</u> )		= Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0	$\square$		
3	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		= Total Cover		loigh.
				Hydrophytic Vegetation
				Present? Yes No 🔍
Remarks: (Include photo numbers here or on a separate she	et.)			

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

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	iption: (De	scribe to	the depth	n needed to document	the indicato	r or cor	firm the	absence of indicators.)
Depth (inches)	(	Matrix			ox Features			
	Color (		<u>%</u>	Color (moist)	<u>%</u> T	ype <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-3	10YR	2/1	100					Very Fine Sandy Loam
3-5	10YR	4/2	100					Very Fine Loamy Sand
5-20	10YR	4/3	100	- <u>.</u>				Very Fine Loamy Sand
			-					
	-	-						
		<u>.</u>	-		. <u> </u>			
		L			. <u> </u>			
		<u>.</u>						
								·
<sup>1</sup> Type: C=Con	centration. D	=Depletio	n. RM=Red	duced Matrix, CS=Covere	d or Coated S	and Grai	ns <sup>2</sup> Loca	ation: PL=Pore Lining. M=Matrix
Hydric Soil I		•						Indicators for Problematic Hydric Soils : <sup>3</sup>
Histosol (A				Polyvalue Belov	Surface (S8)	(LRR R,		
Histic Epi	pedon (A2)			MLRA 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black Hist	ic (A3)			Thin Dark Surfa			A 149B)	$\Box$ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)			Loamy Mucky M		R K, L)		Dark Surface (S7) (LRR K, L, M)
_	Layers (A5)			Loamy Gleyed M				Polyvalue Below Surface (S8) (LRR K, L)
	Below Dark S		11)	Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)
_	k Surface (A			Redox Dark Sur				Iron-Manganese Masses (F12) (LRR K, L, R)
_	ick Mineral (S			Redox Depressi				Piedmont Floodplain Soils (F19) (MLRA 149B)
_	eyed Matrix (	S4)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	dox (S5) Matrix (S6)							Red Parent Material (F21)
	ace (S7) (LRI		1400)					Very Shallow Dark Surface (TF12)
			-					Uther (Explain in Remarks)
<sup>3</sup> Indicators of	f hydrophytic	vegetatio	n and wetl	and hydrology must be p	esent, unless	disturbe	ed or proble	lematic.
Restrictive L	ayer (if obs	erved):						
Туре:								Hydric Soil Present? Yes O No •
Depth (inc	hes):							
Remarks:								