## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Ci	ity/County:	Aitkin		Samplin	<b>g Date:</b> 31-Aug-17
Applicant/Owner: Enbridge				State: MN	San	npling Point:	w-51n26w31-p1
Investigator(s): DPT			Section, To	wnship, Range:	<b>s.</b> 31	<b>T.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace, etc	:.): Lowland	L(	•	ncave, convex, n		 cave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LR	RR K	<b>Lat.:</b> 46	5 52.1694	Long	-93 41.4 -93 41.4	4521	Datum: NAD 83
Soil Map Unit Name: 546					NWI	classification:	N/A
Are climatic/hydrologic condition	ons on the site ty	pical for this time of yea	r? Yes	○ No ●	(If no, exp	lain in Remarks	s.)
Are Vegetation , Soil	, or Hydrol				. , .	ices" present?	Yes   No
Are Vegetation , Soil	, or Hydrole	· _ ·				answers in Rer	marke 1
Summary of Findings -	_ , ,	· .			-		•
Hydrophytic Vegetation Presen	nt? Yes •	No O					
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes ●	No O	
Wetland Hydrology Present?	Yes	No O	with	a wcuana:			
Remarks: (Explain alternative	nrocedures here		1				
Hydrology							
Wetland Hydrology Indicators:					Secondary	Indicators (minim	····· of 2 required)
Primary Indicators (minimum		check all that apply)			_	Indicators (minim Soil Cracks (B6)	um of 2 required)
Surface Water (A1)	01 0.10 . 2 4	Water-Stained Leaves	s (B9)			ge Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)				rim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				ason Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odd				h Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphere		Roots (C3)		ion Visible on Ae	
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduced		(0.1)		d or Stressed Plar	• •
Iron Deposits (B5)		Recent Iron Reductio  Thin Muck Surface (C		(C6)		rpnic Position (D. / Aquitard (D3)	2)
Inundation Visible on Aerial Im	nagery (B7)	Other (Explain in Ren	•			pographic Relief	(D4)
Sparsely Vegetated Concave S		Utilei (Expiaiii iii Keii	Haiks)			utral Test (D5)	(5.)
Field Observations:							
	es O No 💿	Depth (inches):	0				
Water Table Present? Ye	es • No O	Depth (inches):	4				
Saturation Present? (includes capillary fringe) Ye	es • No O	Depth (inches):	0	Wetland Hydr	ology Prese	ent? Yes	● No ○
Describe Recorded Data (strea	m gauge, monito	oring well, aerial photos,	previous insp	pections), if avail	able:		
Remarks:							

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

VEGETATION - USE SCIENCIFIC Harries of pio	ants			Sampling Point: w-51n26w31-p1
(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4	0			
5				Percent of dominant Species
6				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		- Iotai core	•	0BL species 80 x 1 = 80
1	0			FACW species 10 x 2 = 20
2				
3				FAC speciles 10 x 3 = 30
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6				Column Totals: 100 (A) 130 (B)
7				Provalence Index – P/A – 1 200
		= Total Cove		Prevalence Index = B/A = 1.300
Herb Stratum (Plot size: 5		- i otai cove	•	Hydrophytic Vegetation Indicators:
1 Calamagrostis canadensis	60	<b>✓</b>	OBL	Rapid Test for Hydrophytic Vegetation
0.51.11			FAC	✓ Dominance Test is > 50%
		<b>✓</b>	OBL	<b>✓</b> Prevalence Index is ≤3.0 <sup>1</sup>
			FACW	☐ Morphological Adaptations <sup>1</sup> (Provide supporting
4. Phalaris arundinacea			FACVV	data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				17.45.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12				Capling/abruh Waady planta laga than 2 in DDI land
	100 =	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 )				g. caro. than 0.20 it (iii) taili
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   Yes • No O
				Tresent.
				<u> </u>
Remarks: (Include photo numbers here or on a separate sh	ieet.)			

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

Soil Sampling Point: w-51n26w31-p1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)													
Depth					Redox Features				-				
(inches)	Color (	moist)	%	Color (	moist)	%_	Type <sup>1</sup>	Loc2	Texture	Remarks			
0-3	10YR	2/1	100						Muck				
3-10	10YR	3/1	90	10YR	4/4	10	С	M	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=N	Matrix			
Hydric Soil I		_ 0010110	Nou										
Histosol (A				Polya	zalue Bolov	N Surface 1	(S8) (I DD	R		lematic Hydric Soils: 3			
	pedon (A2)			☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)						(LRR K, L, MLRA 149B)			
Black Histi				Thin Dark Surface (S9) (LRR R, MLRA 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)			_	Surface (S8) (LRR K, L)			
	k Surface (A		,	<b>✓</b> Redo	x Dark Su	rface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)				
	ck Mineral (			☐ Depl	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)				
_	eyed Matrix (			Redox Depressions (F8)					Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Red		.5.,							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
_	Matrix (S6)								Red Parent Material (F21)				
	ace (S7) (LR	R R. MLRA	149B)						<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>				
			•							Remarks)			
<sup>3</sup> Indicators of	hydrophytic	vegetatio	n and wetla	nd hydrology	must be p	resent, un	iless distur	bed or probl	ematic.				
Restrictive La	ayer (if obs	erved):											
Type: <u>Ro</u>	ock												
Depth (inch	hes): <u>10</u>								Hydric Soil Present?	Yes ● No O			
Remarks:													