## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Ci	ity/County:	Aitkin		Samplin	<b>g Date:</b> 22-Aug-17
Applicant/Owner: Enbridge				State: MN	ı <u></u> ;	Sampling Point:	w-51n26w33-b1
Investigator(s): SMR/RWS			Section, To	wnship, Range:	<b>s.</b> 33	<b>T.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace, etc.):	Lowland	Lo	•	ncave, convex, n		concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46	5 51.8602	Long	- 93 : -93	38.3729	Datum: NAD 83
Soil Map Unit Name: 625					- NV	WI classification:	N/A
Are climatic/hydrologic conditions on	the site typic	cal for this time of year	r? Yes	. ○ No ●	─ (If no, e	- explain in Remarks	s.)
	, or Hydrology				` '	stances" present?	Yes   No
	, or Hydrology	. – .				any answers in Ren	narke \
Summary of Findings - Att		. –		•	-	-	•
Hydrophytic Vegetation Present?		lo O			-	<u> </u>	
Hydric Soil Present?	Yes   N	lo O		Sampled Area a Wetland?	Yes	● No ○	
Wetland Hydrology Present?	Yes   N	lo O	Within	d Wedana:			
Remarks: (Explain alternative proc			1				
Hydrology							
Wetland Hydrology Indicators:					Casando	- Indiantora (minim	-£ 2 irod)
Primary Indicators (minimum of one	e required; ch	neck all that apply)				ary Indicators (minim face Soil Cracks (B6)	um of 2 requirea)
Surface Water (A1)	[	Water-Stained Leaves	s (B9)			inage Patterns (B10)	
High Water Table (A2)	[	Aquatic Fauna (B13)	,		_	ss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)			Dry	/ Season Water Table	(C2)
Water Marks (B1)	[	Hydrogen Sulfide Odd				yfish Burrows (C8)	
Sediment Deposits (B2)	[	Oxidized Rhizosphere		Roots (C3)		uration Visible on Aer	
Drift deposits (B3)	L	Presence of Reduced				inted or Stressed Plan	• •
Algal Mat or Crust (B4)  Iron Deposits (B5)	L	Recent Iron Reduction		s (C6)		omorphic Position (D2 allow Aquitard (D3)	2)
Inundation Visible on Aerial Imagery	ι (Β7) [	Thin Muck Surface (C	•			crotopographic Relief	(D4)
Sparsely Vegetated Concave Surface		Other (Explain in Ren	пагкъј			C-neutral Test (D5)	(5 1)
Field Observations:							
Surface Water Present? Yes	No 💿	Depth (inches):	0				
Water Table Present? Yes	No 💿	Depth (inches):					
Saturation Present? (includes capillary fringe)		Depth (inches):	0	Wetland Hydr	ology Pı	resent? Yes	No O
Describe Recorded Data (stream gai	uge, monitorir	ng well, aerial photos,	previous insp	pections), if avail	lable:		
Remarks:							

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

vegeration - ose scientific fiames of pr	Sampling Point: w-51n26w33-b1					
(2)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species		
1. Fraxinus nigra	80	✓	FACW	That are OBL, FACW, or FAC: (A)		
2	0			Total Number of Demission		
3				Total Number of Dominant Species Across All Strata: 3 (B)		
4	0					
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 66.7% (A/B)		
7				Prevalence Index worksheet:		
		= Total Cove		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15 )			-	0BL species 0 x 1 = 0		
1. Alnus incana	50	<b>✓</b>	FACW	FACW species 130 x 2 = 260		
2	0					
3	0			'		
4			-	FACU species $\phantom{00000000000000000000000000000000000$		
5				UPL speci es $0 \times 5 = 0$		
6				Column Total s: 190 (A) 500 (B)		
7				Prevalence Index = B/A =2.632		
		= Total Cove				
Herb Stratum (Plot size: 5 )			-	Hydrophytic Vegetation Indicators:		
1 . Aralia nudicaulis	60	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation		
2				✓ Dominance Test is > 50%		
				<b>✓</b> 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				☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7				be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strates		
9				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	0			Sapling/shrub - Woody plants less than 3 in. DBH and		
(2)	60 =	= Total Cove	r	greater than 3.28 ft (1m) tall		
Woody Vine Stratum (Plot size: 30						
1				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 •		
Remarks: (Include photo numbers here or on a separate s	neet.)					

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

Soil Sampling Point: w-51n26w33-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth			Redox Features									
(inches)	Color (		%	Color (	moist)	%_	Type 1	Loc <sup>2</sup>	Texture	Ren	narks	
0-4	10YR	2/2	100						Clay Loam	_		
4-20	10YR	4/2	90	10YR	4/3	10	C		Clay Loam			
									-			
								-				
				-								
1												
		=Depletio	n. RM=Rec	luced Matrix,	CS=Cover	ed or Coat	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=			
Hydric Soil I							(00) (1 = =	_	Indicators for Prob	lematic Hydr	ic Soils: 3	
Histosol (	•				value Belo A 149B)	w Surface	(S8) (LRR	₹,	2 cm Muck (A10)	(LRR K, L, ML	RA 149B)	
	pedon (A2)				•	ace (S9) (	(LRR R, ML	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hist							1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4) Layers (A5)					Matrix (F2		,	Dark Surface (S7) (LRR K, L, M)			
		Surface (A	11)		eted Matri		•		Polyvalue Below Surface (S8) (LRR K, L)			
	eted Below Dark Surface (A11)  Depleted Matrix (F.3)  Redox Dark Surface (F6)							☐ Thin Dark Surface (S9) (LRR K, L)				
						Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F7)  Redox Depressions (F8)							Piedmont Floodplain Soils (F19) (MLRA 149B)				
	Sandy Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	Matrix (S6)								Red Parent Material (F21)			
	ace (S7) (LRI	R R, MLRA	149B)						<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>			
							-11:-4	hl l- l -		Remarks)		
<sup>3</sup> Indicators of			n and wella	and nydrology	must be	present, ur	iless distur	bed of proble	етанс.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes	No O	
Depth (inch	nes):								,	163 🗢	110 ©	
Remarks:												