WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Cit	ty/County:	Aitkin		Samplin	g Date: 01-Sep-17
Applicant/Owner: Enbridge				State: MN	Sa Sa	mpling Point:	w-51n23w29-b2
Investigator(s): SMR			Section, To	wnship, Range:	s. 29	T. 51N	R. 23W
Landform (hillslope, terrace, etc.):	owland	Lo	•	oncave, convex, n		ncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46	52.3399	Long		.1883	Datum: NAD 83
Soil Map Unit Name: 549						classification:	PFO2/SSBg
Are climatic/hydrologic conditions on	the site typ	pical for this time of year	· Yes	s • No O	_	plain in Remarks	
	, or Hydrolo		-		•	nces" present?	Yes No
	, or Hydrolo					y answers in Rer	
Summary of Findings - Att	•	·		•	-		•
Hydrophytic Vegetation Present?		No O	1.0			,	,
Hydric Soil Present?		No O		Sampled Area	Yes ●	No O	
Wetland Hydrology Present?		No O	Within	n a Wetland?	163 -		
Remarks: (Explain alternative proce							
Hydrology							
Wetland Hydrology Indicators:						Indicators (minim	um of 2 required)
Primary Indicators (minimum of one Surface Water (A1)	e required; ((DO)			ce Soil Cracks (B6)	
✓ Surface water (A1) ✓ High Water Table (A2)		Water-Stained Leaves Aquatic Fauna (B13)	(B9)		_	age Patterns (B10) Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				eason Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odo	or (C1)			sh Burrows (C8)	(02)
Sediment Deposits (B2)		Oxidized Rhizospheres		Roots (C3)		ation Visible on Ae	rial Imagery (C9)
Drift deposits (B3)		Presence of Reduced				ed or Stressed Plar	, ,
Algal Mat or Crust (B4)		Recent Iron Reduction		s (C6)		orphic Position (D:	2)
☐ Iron Deposits (B5)☐ Inundation Visible on Aerial Imagery	(R7)	Thin Muck Surface (C7	,		_	w Aquitard (D3) topographic Relief	(D4)
Sparsely Vegetated Concave Surface		Other (Explain in Rem	ıarks)			eutral Test (D5)	(D4)
Field Observations: Surface Water Present? Yes	No O	Depth (inches):	16				
Water Table Present? Yes	No O	-	0				
Saturation Present?	No O	Depth (inches): Depth (inches):	0	Wetland Hydr	rology Pres	sent? Yes	No O
(includes capillary fringe) Describe Recorded Data (stream gau		· · · · · ·		nections) if avail	lable.		
Describe Reserved Data (stream gate	go, monto	ing won, derial priotos, i	providus maj	pootions), ii avaii	idbio.		
Danie and a							
Remarks:							

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n23w29-b2					
(0) -1 - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30	% Cover	_ species:	Status	Number of Dominant Species		
1				That are OBL, FACW, or FAC: (A)		
2				Total Number of Dominant		
3				Species Across All Strata:2(B)		
4	0					
5	0			Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)		
6				That Are OBL, FACW, or FAC:100.0% (A/B)		
7				Prevalence Index worksheet:		
		= Total Cove	r	Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 100 x 1 = 100		
1				FACW species 0 x 2 = 0		
2	0			FAC species x 3 =		
3				<u> </u>		
4				FACU species $0 \times 4 = 0$		
5				UPL speci es $0 \times 5 = 0$		
6.				Column Totals: 100 (A) 100 (B)		
7				Prevalence Index = B/A = 1.000		
		= Total Cove				
Herb Stratum (Plot size: 5)			-	Hydrophytic Vegetation Indicators:		
1 Typha x glauca	60	✓	OBL	Rapid Test for Hydrophytic Vegetation		
		V	OBL	✓ Dominance Test is > 50%		
			OBL	✓ Prevalence Index is ≤3.0 ¹		
3				☐ Morphological Adaptations ¹ (Provide supporting		
4				data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation ¹ (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:		
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
l1				at breast height (DBH), regardless of height.		
12						
	_	= 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				groater than 6.20 it (iii) 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		
				Present? Yes No V		
Remarks: (Include photo numbers here or on a separate s	heet.)					

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

Soil Sampling Point: w-51n23w29-b2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth		Matrix			Redox Feati			_	
(inches)	Color	(moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-24	10YR	3/3	100					Peat	
	-							-	
			-						-
-								-	-
	-								
	-								
-									
¹ Type: C=Cond	centration. I	- D=Depletio	n. RM=Red	luced Matrix, CS=Cov	ered or Coat	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=N	
Hydric Soil I		•		<u> </u>					
Histosol (Polyvalue Be	low Surface	(S8) (I RR R			ematic Hydric Soils: 3
	pedon (A2)			MLRA 149B)		(00) (2	,		(LRR K, L, MLRA 149B)
Black Hist				Thin Dark Su	urface (S9) (LRR R, MLR	A 149B)		ox (A16) (LRR K, L, R)
	Sulfide (A4)		Loamy Muck	xy Mineral (F1	1) LRR K, L)			or Peat (S3) (LRR K, L, R)
	Layers (A5)	•		Loamy Gleye	ed Matrix (F2)		Dark Surface (S7)	
	Below Dark	Surface (A	11)	Depleted Ma	ıtrix (F3)				Surface (S8) (LRR K, L)
	k Surface (A		,	Redox Dark	Surface (F6)			☐ Thin Dark Surface	
	ıck Mineral (Depleted Da	rk Surface (F	7)		_	Masses (F12) (LRR K, L, R)
	eyed Matrix			Redox Depre	essions (F8)				ain Soils (F19) (MLRA 149B)
Sandy Red		` ,						Red Parent Mater	5) (MLRA 144A, 145, 149B)
	Matrix (S6)								
	ace (S7) (LF	R R, MLRA	149B)					Very Shallow Dark	
								Other (Explain in	Remarks)
			n and wett	and hydrology must b	e present, ur	ness disturb	ea or proble	ematic.	
Restrictive La	ayer (if ob	served):							
Type:								Hydric Soil Present?	Yes ● No ○
Depth (inch	hes):							nyuric son Present?	Yes No
Remarks:									
Ī									