WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 22-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-50n20w2-e1
Investigator(s): DPT		Section, Township, Range:	S. 2 T. 50N R. 20W
Landform (hillslope, terrace, etc.): LOV	wland	Local relief (concave, convex, r	none): concave Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K		16 51.1316 Lon e	9.: -92 49.8765 Datum: NAD 83
Soil Map Unit Name: B124A			NWI classification: N/A
Are climatic/hydrologic conditions on th	e site typical for this time of ye	ar? Yes No	(If no, explain in Remarks.)
Are Vegetation \square , Soil \square , o	r Hydrology significantly	y disturbed? Are "Normal	Circumstances" present? Yes No
Are Vegetation, Soil, o	r Hydrology 🔲 naturally pr		explain any answers in Remarks.)
, _ ,		,	is, transects, important features, etc
Hydrophytic Vegetation Present?	es • No O		
Hydric Soil Present?	es No	Is the Sampled Area within a Wetland?	Yes ● No ○
Wetland Hydrology Present?	es No		
Remarks: (Explain alternative procedu	ures here or in a separate report	t.)	
Hydrology			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one re	equired; check all that apply)		Surface Soil Cracks (B6)
✓ Surface Water (A1)	Water-Stained Leav	res (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 O		Crayfish Burrows (C8)
Sediment Deposits (B2)		res along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
☐ Drift deposits (B3)☐ Algal Mat or Crust (B4)	Presence of Reduce	• •	Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)
Iron Deposits (B5)	Recent Iron Reducti Thin Muck Surface (ion in Tilled Soils (C6)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B)		• ,	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	U Other (Explain in Ne	eniai koj	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes •	No Depth (inches):	3	
Water Table Present? Yes	No Depth (inches):		
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	Wetland Hyd	rology Present? Yes No
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos	s, previous inspections), if avai	lable:
Recent rains			
Remarks:			

VEGETATION - Use scientific names of plants

(5)	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:4(A)
2				
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				Species Across Air Strata4(b)
				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	= Total Cove	r	Total % Cover of: Multiply by:
A College Alabada	-		FACW	0BL speci es <u>50</u> x 1 = <u>50</u>
1. Salix petiolaris		~	FACW	FACW species <u>55</u> x 2 = <u>110</u>
2			-	FAC speciles0 x 3 =0
3				FACU species 0 x 4 = 0
4	0			· ·
5	0			· · · · · · · · · · · · · · · · · · ·
6	0			Column Totals: <u>105</u> (A) <u>160</u> (B)
7				Prevalence Index = B/A = 1.524
		= Total Cove		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:
1. Phalaris arundinacea	50	✓	FACW	Rapid Test for Hydrophytic Vegetation
O. Calmus sum adam		✓	OBL	✓ Dominance Test is > 50%
2. 0-1	20	✓	OBL	✓ Prevalence Index is ≤3.0 ¹
			OBL	☐ Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				$oxedsymbol{\square}$ Problematic Hydrophytic Vegetation 1 (Explain)
6	0			
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9				Definitions of Vegetation Strata:
10		$\bar{\sqcap}$		Troe Woody plants 2 in (7.6 cm) or more in diameter
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				at a countries and (2 2 m), regardless of meight
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: _30)	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0			size, and woody plants less than 3.28 ft tall.
2				
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	= Total Cove	r	
				Hydrophytic
				Vegetation Present? Yes No
				Tresente
Remarks: (Include photo numbers here or on a separate she	eet.)			

Sampling Point: w-50n20w2-e1

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

Soil Sampling Point: w-50n20w2-e1

Depth	Matrix			dox Features		-	
(inches)	Color (moist)	<u> </u>	olor (moist)		Loc ²	Texture	Remarks
			-	-			
		-	-				
1							
Type: C=Con	centration. D=Depletion.	RM=Reduced Ma	atrix, CS=Covere	ed or Coated Sand Gra	iins ² Loca	ntion: PL=Pore Lining. M=Ma	atrix
Hydric Soil	Indicators:					Indicators for Proble	matic Hydric Soils: 3
Histosol ((A1)			v Surface (S8) (LRR R	,		LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B)				(A16) (LRR K, L, R)
Black Hist	tic (A3)			ace (S9) (LRR R, MLR	A 149B)		
Hydroger	Sulfide (A4)		Loamy Mucky N	Mineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)	
	Below Dark Surface (A11	, \Box	Depleted Matrix	∢ (F3)			ırface (S8) (LRR K, L)
	k Surface (A12)	′ 🗆	Redox Dark Sui	rface (F6)		Thin Dark Surface	
			Depleted Dark			Iron-Manganese M	asses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	n Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depress	10113 (1 0)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re	dox (S5)					Red Parent Materia	I (F21)
Stripped	Matrix (S6)					Very Shallow Dark	Surface (TF12)
☐ Dark Surf	ace (S7) (LRR R, MLRA 1	49B)				✓ Other (Explain in R	
3 Indicators o	f hydrophytic vegetation	and wotland bydr	ology must be n	rocont unloce dicturb	od or proble	· •	ornario)
		and wettand nyui	ology must be p	ilesetti, utiless disturbi	ed of proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	hes):					Hydric Soil Present?	Yes ● No ○
Remarks:						1	
		. Calla assum	ممط واساما		مامسامينما امم		
ivo algging,	potential buried utiliti	es. Soils assum	ied nydric bas	ed on vegetation ar	na nyarolo	ogy.	