WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Aitkin		Sampli	Sampling Date: 01-Sep-17	
Applicant/Owner: Enbridge			State:	MN	Sampling Point:	w-51n24w25-f3
Investigator(s): DPT		Section, To	ownship, Ran	ge: S. 25	T. 51N	R. 24W
Landform (hillslope, terrace, etc.): Pothole		Local relief (co	oncave, conve	ex, none):	concave	Slope: <u>0.0</u> % / <u>0.0</u> °
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.3615	I	L ong.: _9	3 18.8530	Datum: NAD 83
ioil Map Unit Name: 533 NWI classification: PUBH						
	aturally	tly disturbed? problematic? sampling p	(If need	ed, explai	mstances" present? n any answers in Re ansects, impo	marks.)
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○			e Sampled Are n a Wetland?	a Yes	s 🖲 No 🔿	
Remarks: (Explain alternative procedures here or in a separ	rate repo	ort.)				

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)						
Primary Indicators (minimum of one required;	check 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 Roots (C3)	Saturation Visible on Aerial Imagery (C9)						
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)						
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)		✓ FAC-neutral Test (D5)						
Field Observations:								
Surface Water Present? Yes No	Depth (inches): <u>12</u>							
Water Table Present? Yes No	Depth (inches):0	drology Present? Yes 💿 No 🔿						
Saturation Present? Yes No	Depth (inches):0	drology Present? Yes • No 🔾						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plan	Sampling Point: w-51n24w25-f3			
(2)	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	0			Total Number of Dominant
3	0			Species Across All Strata:4(B)
4	0			
5				Percent of dominant Species That Are OBL_EACW_or_EAC·100.0% (A/B)
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7	0			Prevalence Index worksheet:
	0 =	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species x 1 =80
1. Chamaedaphne calyculata	30	\checkmark	OBL	FACW species $0 \times 2 = 0$
2. Ledum groenlandicum	20		OBL	FAC species $0 \times 3 = 0$
3	0			FACU species $0 \times 4 = 0$
4	0			UPL species $0 \times 5 = 0$
5	0			
6	0			Column Totals: <u>80</u> (A) <u>80</u> (B)
7	0			Prevalence Index = $B/A = 1.000$
Herb Stratum (Plot size: <u>5</u>)	50 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size)				Rapid Test for Hydrophytic Vegetation
1. Carex laslocarpa	20	\checkmark	OBL	✓ Dominance Test is > 50%
2. Iris versicolor	10	\checkmark	OBL	V Prevalence Index is $\leq 3.0^{1}$
3	0			Morphological Adaptations ¹ (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ 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	0			
	30 =	Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)				
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 Cover		
				Hydrophytic
				Vegetation Present? Yes • No ()
Demarka (Indude abete numbers here er er e consuste ske	at)			
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.

US Army Corps of Engineers

	ription: (Describ	pe to the depth	needed to document	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth (inches)		trix		lox Featu	Type ¹	1		Demostra
	Color (mois		Color (moist)	%	Туре	Loc ²	Texture	Remarks
0-24	10YR 2	2/2 100					Mucky Peat	
			·					
		<u>_</u>	·					
1 Type: C=Con	centration D=De	nletion RM=Red	uced Matrix_CS=Covere	ed or Coate	ed Sand Gra	ains 21 oca	ation: PL=Pore Lining. M=N	latrix
Hydric Soil								
Histosol (C			Indicators for Probl	ematic Hydric Soils : ³
_			Polyvalue Belov MLRA 149B)	v Surface	(58) (LRR R	,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa	ace (S9) (LRR R. MLR	A 149B)	Coast Prairie Redo	ox (A16) (LRR K, L, R)
Black His			Loamy Mucky N				5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed I				Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)		Depleted Matrix					Surface (S8) (LRR K, L)
_	Below Dark Surfa	ice (ATT)	Redox Dark Su				Thin Dark Surface	(S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark		7)		Iron-Manganese N	Masses (F12) (LRR K, L, R)
_	uck Mineral (S1)		Redox Depress		.,		Piedmont Floodpla	ain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)						Mesic Spodic (TA	5) (MLRA 144A, 145, 149B)
Sandy Re							Red Parent Materi	ial (F21)
	Matrix (S6)						Very Shallow Dark	Surface (TF12)
Dark Surf	face (S7) (LRR R,	MLRA 149B)					Other (Explain in	Remarks)
³ Indicators o	of hydrophytic veg	etation and wetla	ind hydrology must be p	resent, un	less disturb	ed or proble	ematic.	
Restrictive L	ayer (if observe	ed):						
Type:								
Depth (inc	hes).						Hydric Soil Present?	Yes 🔍 No 🔾
Remarks:								