WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 29-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n25w35-c1
Investigator(s): PJK		Section, Township, Range:	S. 35 T. 51N R. 24W
Landform (hillslope, terrace, etc.): Mo	und	Local relief (concave, convex, n	one): convex Slope: 1.7 % / 1.0
Subregion (LRR or MLRA): LRR K		46 51.5493 Long	
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on th	e site tynical for this time of ve	ar? Yes O No •	(If no, explain in Remarks.)
			Circumstances" present? Yes No
	r Hydrology 🔲 naturally pr	_	circumstances present.
<u> </u>		,	explain any answers in Remarks.) s, transects, important features, etc
	es No •	umpinig point location	s, transcess, important reason se, en
, , , , , , , , , , , , , , , , , , , ,	es O No O	Is the Sampled Area	Yes ○ No ●
,,	es O No O	within a Wetland?	Yes ∪ NO ⊕
Wetland Hydrology Present? Remarks: (Explain alternative procedu			
U-dualogy.			
Hydrology Western Hydrology Indicators			
Wetland Hydrology Indicators: Primary Indicators (minimum of one re	squired, check all that apply)		Secondary Indicators (minimum of 2 required)
Surface Water (A1)	Water-Stained Leav	rac (RQ)	Surface Soil Cracks (B6) 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)	Presence of Reduce	ed Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduct	ion in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface	• ,	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B' Sparsely Vegetated Concave Surface (Bi	Utilei (Explain in Re	emarks)	Microtopographic Relief (D4)
Sparsely vegetated concave surface (Bo	5)		FAC-neutral Test (D5)
Field Observations:	No Depth (inches):	_	
Canado Mator Moderni		0	
	No Depth (inches):	0 Wetland Hyde	rology Present? Yes O No •
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	0 wedand nydi	ology Fresent: 103 C NO C
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos	s, previous inspections), if avail	able:
Remarks:			

VEGETATION - Use scientific names of plants

VEGETATION - USE Scientific fiamles of pia	Sampling Point: u-51n25w35-c1			
(0) (1) (2)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:1 (A)
2	0			TAIN A CONTRACT
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet:
1				
Sapling/Shrub Stratum (Plot size: 15		= Total Cove	г	Total % Cover of: Multiply by:
1	0			0BL speci es x 1 =0
2				FACW species <u>50</u> x 2 = <u>100</u>
				FAC species x 3 =
3				FACU species60 x 4 =240
4				UPL speci es
5				Column Totals:110 (A)340 (B)
6				
7				Prevalence Index = B/A = 3.091
Herb Stratum (Plot size: 5)	0 =	Total Cove	r	Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1. Solidago gigantea		✓	FACW	Dominance Test is > 50%
2. Poa pratensis	40	✓	FACU	Prevalence Index is ≤3.0 ¹
3. Trifolium repens	20		FACU	
4	0			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
9				_
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	110 =	Total Cove	r	greater than 3.28 ft (1m) tall
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Size, and woody plants less than 5.25 it tail.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	Total Cove	r	
				Hydrophytic
				Vegetation Present? Yes ○ No ●
				Present:
				L
Remarks: (Include photo numbers here or on a separate sh	eet.)			

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

Soil Sampling Point: u-51n25w35-c1

Profile Descri	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth				_					
(inches)	Color ((moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-4	10YR	2/2	100		_			Sandy Loam	
4-12	10YR	3/4	100					Sandy Loam	
			-						
			-	·					
			-						
					_				
					_				
1 Type: C=Cond	rentration [)=Depletio	n RM=Red	Juced Matrix CS=Cov	ered or Coat	ed Sand Gr	ains 21 oca	ation: PL=Pore Lining. M=N	latrix
Hydric Soil I		D-Depictio	II. KWI–KCC	adeed Matrix, 03-000	crea or coat	cu sana ora	uii i 5 - Locc		
Histosol (A				Dobraduo Br	low Surface	(20) או או)		ematic Hydric Soils: 3
	pedon (A2)			MLRA 149B)		(30) (LKK K	λ,		(LRR K, L, MLRA 149B)
Black Histi				Thin Dark S	urface (S9) (LRR R, MLR	RA 149B)	Coast Prairie Redo	ox (A16) (LRR K, L, R)
	Sulfide (A4)				y Mineral (F1				or Peat (S3) (LRR K, L, R)
	Layers (A5)	,			ed Matrix (F2)			Dark Surface (S7)	
	Below Dark	Surface (A	11)	Depleted Ma					urface (S8) (LRR K, L)
	k Surface (A		11)	Redox Dark				Thin Dark Surface	
	ck Mineral (rk Surface (F	7)			Masses (F12) (LRR K, L, R)
	eyed Matrix (Redox Depr					ain Soils (F19) (MLRA 149B)
Sandy Red		(34)							b) (MLRA 144A, 145, 149B)
Stripped N								Red Parent Materi	
	ace (S7) (LR	DD MIDA	1/0B)						
								Other (Explain in I	Remarks)
³ Indicators of	hydrophytic	vegetatio	n and wetl	and hydrology must b	e present, ur	iless disturb	ed or probl	ematic.	
Restrictive La	ayer (if obs	served):							
Type: Ro	ock								
Depth (inch	hes): 12							Hydric Soil Present?	Yes O No 💿
Remarks:									
1									
1									