WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Co	ounty: Aitkin	Sampling Date: 29-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n25w36-a3
Investigator(s): PJK	Sec	tion, Township, Range: S.	36 T. 51N R. 24W
Landform (hillslope, terrace, etc.): Moun		elief (concave, convex, non	
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.5	214 Long.:	-93 28.0980 Datum: NAD 83
Soil Map Unit Name: 346			NWI classification: N/A
Are climatic/hydrologic conditions on the s	site typical for this time of year?	Yes ○ No ● (I	f no, explain in Remarks.)
	ydrology significantly distu	•	rcumstances" present? Yes No
	ydrology		plain any answers in Remarks.)
_ , _ ,		` , ,	transects, important features, etc
Hydrophytic Vegetation Present? Yes	○ No •		•
Hydric Soil Present? Yes	○ No ●	Is the Sampled Area within a Wetland?	Yes ○ No ●
Wetland Hydrology Present? Yes	○ No •	Willill a Welland:	100 3 110 3
Remarks: (Explain alternative procedure	s here or in a senarate report.)		
Hydrology			
Wetland Hydrology Indicators:			econdary Indicators (minimum of 2 required)
Primary Indicators (minimum of one requ	uired; 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)	L	Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	_	Crayfish Burrows (C8)
Sediment Deposits (B2) Drift deposits (B3)	Oxidized Rhizospheres alon		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Presence of Reduced Iron (Recent Iron Reduction in Ti		Stunted or Stressed Plants (D1) 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)	outer (Explain in Remarks)		FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes O No	Depth (inches):()	
Water Table Present? Yes O No	Depth (inches):C		
Saturation Present? (includes capillary fringe) Yes O No	Depth (inches):	Wetland Hydrol	ogy Present? Yes O No 🖲
Describe Recorded Data (stream gauge, r	nonitoring well, aerial photos, previ	ous inspections), if availab	le:
Remarks:			
Remarks.			

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: u-51n25w36-a3			
(8) -1 -20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4	0			
5				Percent of dominant Species
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 33.3% (A/B)
7		$\overline{\Box}$		Prevalence Index worksheet:
		Total Cove	-	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		rotal core	•	0BL species x 1 =
1	0			FACW species 40 x 2 = 80
2				
3				FAC speciles x 3 =
4				FACU speci es
5				UPL species $0 \times 5 = 0$
6				Column Totals: 110 (A) 360 (B)
7				Provolence Index P/A 2.272
		Total Cove		Prevalence Index = B/A = 3.273
Herb Stratum (Plot size: 5)		· iotai Cove	:1	Hydrophytic Vegetation Indicators:
1. Solidago gigantea	40	✓	FACW	Rapid Test for Hydrophytic Vegetation
0. 0. 1.1		<u>~</u>	FACU	Dominance Test is > 50%
		<u>~</u>	FACU	☐ Prevalence Index is \leq 3.0 ¹
3. Trifollum repens				☐ Morphological Adaptations ¹ (Provide supporting
4. Poa pratensis			FACU	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2				Continued by Manchambara land them 2 in DDI and
	110 =	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)				g. cater than 0.20 it (iiii) taiiii
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:
				I
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: u-51n25w36-a3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth				Redox Features			- <u>.</u> .			
	(moist)	%	Color (m	oist)	%_	Type ¹	Loc ²	Texture	Rem	arks
0-3 10YR	2/1	100						Silt Loam	_	
3-20 10YR	4/3	95	10YR	4/6	5	C	M	Silt Loam	_	
								-		
		-								
	-	-								
									-	
1-										
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix										
Hydric Soil Indicators:	:							Indicators for Prob	olematic Hydric	Soils: 3
Histosol (A1)			∟ Polyva MLRA		w Surface	(S8) (LRR	R,	2 cm Muck (A10) (LRR K, L, MLR	A 149B)
Histic Epipedon (A2)					ace (S9) ((LRR R, ML	RA 149B)	Coast Prairie Rec	dox (A16) (LRR k	(, L, R)
Black Histic (A3)	`					1) LRR K, L		5 cm Mucky Pea	t or Peat (S3) (LI	RR K, L, R)
☐ Hydrogen Sulfide (A4☐ Stratified Layers (A5)			_		Matrix (F2		,	Dark Surface (S	7) (LRR K, L, M)	
Depleted Below Dark		11)	_	ed Matri		•		Polyvalue Below		
☐ Thick Dark Surface (A		.11)			rface (F6)			Thin Dark Surface (S9) (LRR K, L)		
Sandy Muck Mineral (Surface (F				Masses (F12) (L	
Sandy Gleyed Matrix			Redox	Depress	ions (F8)			☐ Piedmont Floodp		
Sandy Redox (S5)	(01)							☐ Mesic Spodic (TA		145, 149B)
Stripped Matrix (S6)								Red Parent Mate		
Dark Surface (S7) (LF	RR R, MLRA	\ 149B)							rk Surface (TF12)
						. 1		Other (Explain in	n Remarks)	
³ Indicators of hydrophyti		n and wetia	na nyarology n	nust be p	oresent, ui	niess aistur	bed or proble	ematic.		
Restrictive Layer (if ob	served):									
Type:								Hydric Soil Present?	Yes 〇	No •
Depth (inches):								Tryunc 3011 Fresent:	res \bigcirc	NO S
Remarks:										