WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Co	unty: Aitkin	Sampling Date: 30-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n25w35-e7
Investigator(s): PJK	Sect	tion, Township, Range: S.	34 T. 51N R. 25W
Landform (hillslope, terrace, etc.): Mound	Local re	elief (concave, convex, no	ne): convex Slope: 1.7 % / 1
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.5	855 Long.:	-93 29.8711 Datum: NAD 83
Soil Map Unit Name: 292			NWI classification: PF02/4bg
		Yes ○ No ● (
Are climatic/hydrologic conditions on the si	, ,	•	If no, explain in Remarks.) ircumstances" present? Yes ● No ○
	drology significantly distur		ircumstances" present? Yes Son No
	drology naturally problema	,	plain any answers in Remarks.)
<u> </u>	<u> </u>	ng point locations	, transects, important features, etc
Hydrophytic Vegetation Present? Yes		To the Campled Area	_
Hydric Soil Present? Yes		Is the Sampled Area within a Wetland?	Yes ○ No •
Wetland Hydrology Present? Yes	○ No •		
Remarks: (Explain alternative procedures	here or in a separate report.)		
WETS analysis shows precipitation below	Horria.		
Hydrology			
Wetland Hydrology Indicators:		S	econdary Indicators (minimum of 2 required)
Primary Indicators (minimum of one requ	ired; 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) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	г	Crayfish Burrows (C8)
Drift deposits (B3)	Oxidized Rhizospheres along		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Presence of Reduced Iron (Recent Iron Reduction in Til	-	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	lied solis (Co)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	[Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Utilei (Explain in Remarks)	[FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):		
		Wetland Hydrol	ogy Present? Yes O No 💿
Saturation Present? (includes capillary fringe) Yes No	Depth (inches): 0		
Describe Recorded Data (stream gauge, m	nonitoring well, aerial photos, previo	ous inspections), if availab	ole:
Remarks:			
Remarks.			

VEGETATION - Use scientific names of plants

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(District 20	Absolute		dicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30)	% Cover	species: St	atus	Number of Dominant Species			
1				That are OBL, FACW, or FAC:0(A)			
2		Н _		Total Number of Dominant			
3				Species Across All Strata:1(B)			
4				Dercent of deminent Charles			
5		Ц –		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
6		Ц _					
7				Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15	=	Total Cover		Total % Cover of: Multiply by:			
1	0			0BL speci es x 1 =0			
2				FACW species			
3		H -		FAC speciles x 3 =			
4				FACU speci es x 4 =			
5				UPL species $\frac{5}{}$ x 5 = $\frac{25}{}$			
6				Column Totals: <u>110</u> (A) <u>445</u> (B)			
7				Prevalence Index = B/A = 4.045			
		Total Cover					
Herb Stratum (Plot size: 5		- Total Core.		Hydrophytic Vegetation Indicators:			
1 Tanacetum vulgare	80	✓ F	ACU	Rapid Test for Hydrophytic Vegetation			
2. Poa pratensis			ACU	☐ Dominance Test is > 50%			
3. Solidago canadensis			ACU	☐ Prevalence Index is ≤3.0 ¹			
4. Asclepias syriaca	-	U	PL	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
5				Problematic Hydrophytic Vegetation ¹ (Explain)			
6				Problematic Hydrophytic Vegetation (Explain)			
7				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		H -					
110 = 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				greater than 3.20 ft (1111) 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 Cover					
				Hydrophytic Vegetation			
				Present? Yes No •			
Remarks: (Include photo numbers here or on a separate sh	eet.)						
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^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n25w35-e7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Depth <u>Matrix</u>					dox Featu			-		
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	Texture	Rem	arks
0-3	10YR	2/2	100						Sandy Loam		
3-12	10YR	4/2	80	10YR	4/4	20	С	М	Sandy Loam		
				-							
		-	-		-				-		
			-						-		
				-							
		-						-			
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	duced Matrix,	CS=Covere	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=	Matrix	
Hydric Soil I	ndicators:								Indicators for Prob	lematic Hydri	c Soils: 3
Histosol (A					value Belov	w Surface ((S8) (LRR	₹,			
Histic Epip	pedon (A2)			MLF	A 149B)				2 cm Muck (A10) Coast Prairie Rec		
☐ Black Histi	ic (A3)				Dark Surfa				5 cm Mucky Pear		
Hydrogen	Sulfide (A4)				my Mucky I)	Dark Surface (S7		KK K, L, K)
Stratified I	Layers (A5)				my Gleyed)		Polyvalue Below		SB K T)
	Below Dark S		11)		leted Matri				Thin Dark Surfac		
☐ Thick Dark	k Surface (A	12)			ox Dark Su				☐ Iron-Manganese		
Sandy Mu	ck Mineral (S	S1)			leted Dark		7)		Piedmont Floodp		
Sandy Gle	yed Matrix ((S4)		∟ Red	ox Depress	ions (F8)			☐ Mesic Spodic (TA		
Sandy Red	dox (S5)								Red Parent Mate		, , ,
Stripped N	Natrix (S6)								Very Shallow Dar		?)
☐ Dark Surfa	ace (S7) (LR	R R, MLRA	149B)						Other (Explain in		,
³ Indicators of	hydrophytic	vegetatio	n and wetl	and hydrolog	must be p	resent, un	less distur	bed or probl			
Restrictive La				<u> </u>		-					
Type: <u>ro</u>		erveu).									
Depth (inch									Hydric Soil Present?	Yes 💿	No O
	163). 12										
Remarks:											
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