WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 07-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: w-51n22w19-a2
Investigator(s): SMR	Section, Township, Range:	S. 19 T. 51N R. 22W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, r	
Subregion (LRR or MLRA): LRR K Lat.:	- 46 53.1057 Lon e	g.: -93 11.578 Datum: NAD 83
Soil Map Unit Name: 546		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for this time of	year? Yes No	(If no, explain in Remarks.)
	,	I Circumstances" present? Yes No
	•	explain any answers in Remarks.)
Summary of Findings - Attach site map showing	,	• •
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No	Is the Sampled Area	Yes ● No ○
Wetland Hydrology Present? Yes No	within a Wetland?	163 - 140 -
Remarks: (Explain alternative procedures here or in a separate rep		
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 Le	, ,	Drainage Patterns (B10)
☐ High Water Table (A2) ☐ Aquatic Fauna (B ☐ Saturation (A3) ☐ Marl Deposits (B1		☐ Moss Trim Lines (B16) ☐ Dry Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide		Crayfish Burrows (C8)
	heres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
☐ Drift deposits (B3) ☐ Presence of Redu		Stunted or Stressed Plants (D1)
	uction in Tilled Soils (C6)	✓ Geomorphic Position (D2)
Iron Deposits (B5)	:e (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):	0	
Water Table Present? Yes No Depth (inches):	:0 Wotland Hyd	rology Present? Yes No
Saturation Present? (includes capillary fringe) Yes No Depth (inches):		rology Present:
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if avai	ilable:
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n22w19-a2			
(Diet size: 30	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover		Status	Number of Dominant Species
1. Fraxinus nigra	80	✓	FACW	That are OBL, FACW, or FAC: (A)
2	0			T. I. W. J. C. C. C. C.
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				Species riches rim ethata.
				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cove	r	
1	0			
2		П		FACW species 80 x 2 = 160
	-	H		FAC speciles x 3 =0
3				FACU species
4				UPL speci es $0 \times 5 = 0$
5	0			l '
6	0			Column Totals: <u>180</u> (A) <u>260</u> (B)
7	0			Prevalence Index = B/A = 1.444
		= Total Cove		
Herb Stratum (Plot size: 5		- 100010010	•	Hydrophytic Vegetation Indicators:
	100		OBL	Rapid Test for Hydrophytic Vegetation
••		✓	UBL	✓ Dominance Test is > 50%
2				✓ Prevalence Index is ≤3.0 ¹
3	0	Ц		Morphological Adaptations ¹ (Provide supporting
4	0			data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				Problematic Hydrophytic Vegetation (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8	0			Definitions of Variation Studen
9	0			Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				
Z	_			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			
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	0			Size, and woody plants less than 5.20 it tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cove	r	
			-	
				Hydrophytic
				Vegetation Yes • No O
				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: w-51n22w19-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth						_					
(inches)	Color	(moist)	%	Color (moist)	%_	Type	Loc ²	Texture	Remarks	
0-3	10YR	2/2	100						Silt Loam		
3-20	10YR	4/2	80	10YR	4/4	20	С	М	Silt Loam		
									-		
							-				
					-						
	-	-	-	-	-	-					
-	-	-			-	-					
					-						
							_				
-											
¹ Type: C=Cond	centration. [D=Depletio	n. RM=Red	uced Matrix, (CS=Covere	ed or Coate	ed Sand G	rains ² Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I	ndicators:					-			Indicators for Proble	ematic Hydric Soils: 3	
Histosol (A	A1)					w Surface	(S8) (LRR	R,		(LRR K, L, MLRA 149B)	
Histic Epip	pedon (A2)				4 149B)			_		x (A16) (LRR K, L, R)	
☐ Black Histi	ic (A3)					ace (S9) (I				or Peat (S3) (LRR K, L, R)	
Hydrogen	Sulfide (A4))				Mineral (F1)	Dark Surface (S7)		
Stratified I	Layers (A5)					Matrix (F2))				
Depleted I	Below Dark	Surface (A	11)		eted Matri				Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)		
☐ Thick Dark	k Surface (A	12)				rface (F6)				lasses (F12) (LRR K, L, R)	
Sandy Mu	ck Mineral ((S1)				Surface (F	7)			in Soils (F19) (MLRA 149B)	
Sandy Gle	yed Matrix	(S4)		Redo	x Depress	sions (F8)) (MLRA 144A, 145, 149B)	
Sandy Red	dox (S5)								Red Parent Materi		
Stripped N	Matrix (S6)								Very Shallow Dark		
☐ Dark Surfa	ace (S7) (LR	RR R, MLRA	149B)						Other (Explain in F		
³ Indicators of	· hudronhuti		n and watle	and budgeleas	must be m	aracant um	سيطام مامدا	had ar prabl		vernarks)	
			iii anu wena	ina nyarology	must be p	Jieseiit, uii	iiess uistui	bed of proble	erriatic.		
Restrictive La	ayer (if ob	served):									
Type:									Undein Cail Decamb2	v (a) v (
Depth (inch	nes):								Hydric Soil Present?	Yes ● No ○	
Remarks:											