WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County	y: Aitkin	Sampling Date: 06-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n23w24-b1
Investigator(s): DPT	Section,	Township, Range: S. 2	4 T. 51N R. 23W
Landform (hillslope, terrace, etc.): Shoulde		(concave, convex, none)	
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.1573	Long.: -	93 11.9877 Datum: NAD 83
Soil Map Unit Name: 204B			NWI classification: N/A
Are climatic/hydrologic conditions on the sit	typical for this time of year?	Yes No (If n	o, explain in Remarks.)
Are Vegetation , Soil , or Hyd	,,,	(umstances" present? Yes No
Are Vegetation, Soil, or Hyd			anistances present.
		. , .	in any answers in Remarks.) ransects, important features, etc
Hydrophytic Vegetation Present? Yes		point locations, t	runseed, important reatures, etc
Hydric Soil Present? Yes) No (•) Ist	the Sampled Area	es O No •
Y (WIL	hin a Wetland?	S O NO S
Wetland Hydrology Present? Yes Remarks: (Explain alternative procedures			
Hydrology Wetland Hydrology Indicators:		Soci	
Primary Indicators (minimum of one requir	ed: check all that anniv)		ondary Indicators (minimum of 2 required) 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 Livi	J ()	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Tilled S	` ′ _	Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches): 0		
Water Table Present? Yes No			
Saturation Present?		Wetland Hydrolog	y Present? Yes O No 🖲
(includes capillary fringe) Describe Recorded Data (stream gauge, mo		inspections), if available:	
Remarks:			

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: u-51n23w24-b1			
(2)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1 Acer saccharum	40	✓	FACU	That are OBL, FACW, or FAC: (A)
2	0			Total Number of Daminant
3				Total Number of Dominant Species Across All Strata: 5 (B)
4				
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		- rotar cove	•	0BL speci es x 1 =
1 Corylus cornuta	60	✓	FACU	
2. Acer saccharum	10		FACU	FACW species 0 x 2 = 0
3				FAC speci es
4				FACU speci es x 4 = 600
5				UPL species $\frac{40}{}$ x 5 = $\frac{200}{}$
6				Column Totals: 190 (A) 800 (B)
			-	Dravalance Index D/A 4 211
7		= Total Cove		Prevalence Index = B/A = 4.211
Herb Stratum (Plot size: 5	70 =	= Total Cove	r	Hydrophytic Vegetation Indicators:
	40	✓	UPL	Rapid Test for Hydrophytic Vegetation
		✓	FACU	☐ Dominance Test is > 50%
- • "		✓		Prevalence Index is ≤3.0 ¹
3. Carex woodll			FACU	Morphological Adaptations ¹ (Provide supporting
4				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				at breast height (DBH), regardless of height.
2				
	-	= 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				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 Cove	r	
				Hydrophytic
				Vegetation
				Present? Yes ○ No ●
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-51n23w24-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix		Redox Features							
(inches)	Color (m		<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR	2/1	100					Loam	
4-20	10YR	4/4	100					Loamy Sand	
-									
-									
1 - 0 0		- I II							
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix									
Hydric Soil I						(CO) (LDD D		Indicators for Prob	lematic Hydric Soils: 3
Histosol (•			Polyvalue Be MLRA 149B)	low Surrace	(S8) (LRR R		2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Black Hist	pedon (A2)			Thin Dark Su	ırface (S9) (LRR R, MLR	A 149B)	Coast Prairie Red	ox (A16) (LRR K, L, R)
_	Sulfide (A4)			Loamy Muck					or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleye	ed Matrix (F2))		Dark Surface (S7)	
	Below Dark Sur	rface (A	11)	Depleted Ma	trix (F3)				Surface (S8) (LRR K, L)
	k Surface (A12)		,	Redox Dark	Surface (F6)			☐ Thin Dark Surface	
	ck Mineral (S1)			Depleted Da	rk Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)	
	eyed Matrix (S4)			Redox Depre	essions (F8)				ain Soils (F19) (MLRA 149B)
Sandy Red								Red Parent Mater	6) (MLRA 144A, 145, 149B)
Stripped N	Matrix (S6)							Very Shallow Dar	
☐ Dark Surfa	ace (S7) (LRR F	R, MLRA	149B)					Other (Explain in	
³ Indicators of	hvdrophytic ve	egetatio	n and wetl	and hydrology must b	e present, un	nless disturb	ed or proble		Toma io,
Restrictive La				<u> </u>					
Type:	ayei (ii obsei	veu).							
Depth (incl	hes).							Hydric Soil Present?	Yes ○ No ●
Remarks:									
Remarks:									