WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Aitkin	Samplin	Sampling Date: 05-Sep-17	
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n23w27-c1
Investigator(s): DPT		Section, To	ownship, Range: S. 27	T. 51N	R. 23W
Landform (hillslope, terrace, etc.):	owland	Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.5930	Long.: -93	14.9661	Datum: NAD 83
Soil Map Unit Name: 346		-	N	IWI classification:	N/A
	, or Hydrology Significant	tly disturbed? problematic?	Are "Normal Circun (If needed, explain	any answers in Rer	Yes No Narks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No Yes No		e Sampled Area n a Wetland? Yes	● _{No} ○	
Remarks: (Explain alternative proce No digging, potential buried utilities		prt.)			

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 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 Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	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)		✓ FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):4	
Water Table Present? Yes No	Depth (inches): 0	
Saturation Present? Yes No	Depth (inches):0	drology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections), if ava	ailable:
Remarks:		

VEGETATION - Use scientific names of plants

vederation - use scientific names of pla	iits			Sampling Point: w-51n23w27-c1
Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	O	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species
1. Fraxinus nigra	40		FACW	That are OBL, FACW, or FAC: <u>6</u> (A)
2. Acer rubrum	-		FAC	Total Number of Dominant
3	0			Species Across All Strata: <u>6</u> (B)
4	0			
5	0			Percent of dominant Species
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
1		Tatal Cause		
Sapling/Shrub Stratum (Plot size: 15)	60 =	Total Cover		Total % Cover of: Multiply by:
1. Alnus incana	30		FACW	OBL speciles 20 x 1 = 20
	10		FACW	FACW species 150 x 2 = 300
	-			FAC species20x 3 =60
3				FACU species $0 \times 4 = 0$
4				UPL species x 5 =
5				•
6	0			Column Totals: <u>190</u> (A) <u>380</u> (B)
7	0			Prevalence Index = $B/A = 2.000$
		Total Cover		Undrankutia Vagatatian Indiantara
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea	70	\checkmark	FACW	
2, Scirpus cyperinus		\checkmark	OBL	✓ Dominance Test is > 50%
3		\square		✓ Prevalence Index is \leq 3.0 ¹
				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			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				
12	-	: Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: <u>30</u>)	90 -	Total Cover		greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in
4				height.
		Total Cover		
				Hydrophytic
				Vegetation Present? Yes • No ·
Remarks: (Include photo numbers here or on a separate she	et.)			

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

US Army Corps of Engineers

(inches)	Matrix			dox Featur				
,,	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
							n	
	······································						<i>a</i>	
	p p p						L-	-
		-	-	-				
			<u>_</u>					
ne: C-Conc	centration D-Depletion I	2M-Reduced	Matrix CS-Cover	ed or Coater	d Sand Gra	ins 21 ocat	tion: PL=Pore Lining. M=N	Aatrix
						IIIS LOCAL	-	
	ndicators:	-	_				Indicators for Prob	ematic Hydric Soils: ³
Histosol (A	A1)	L	Polyvalue Belov	v Surface (S	58) (LRR R		2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Histic Epip	edon (A2)	-	MLRA 149B)					
Black Histi	ic (A3)	L	_ Thin Dark Surfa	ace (S9) (Ll	rr r, mlr	A 149B)		ox (A16) (LRR K, L, R)
	Sulfide (A4)	[Loamy Mucky M	Mineral (F1)	LRR K, L)			or Peat (S3) (LRR K, L, R)
		Γ	Loamy Gleyed	Matrix (F2)			Dark Surface (S7)) (LRR K, L, M)
	Layers (A5)	Г	Depleted Matrix				Polyvalue Below S	Surface (S8) (LRR K, L)
	Below Dark Surface (A11)	L					Thin Dark Surface	e (S9) (LRR K, L)
Thick Dark	k Surface (A12)	L	Redox Dark Su					Masses (F12) (LRR K, L, R)
Sandy Mu	ck Mineral (S1)	L	Depleted Dark	Surface (F7)			
	yed Matrix (S4)		Redox Depress	ions (F8)				ain Soils (F19) (MLRA 149B)
								6) (MLRA 144A, 145, 149B)
Sandy Rec							Red Parent Mater	ial (F21)
Strippod N	Natrix (S6)						Very Shallow Darl	k Surface (TF12)
Suipped it		9B)					Other (Explain in	Remarks)
	ace (S7) (LRR R, MLRA 14		dralagu must ha r	recent unl	aaa diaturb	d or proble		(ioniano)
Dark Surfa		ad watland by	arology must be p	resent, unit		ed of proble	matic.	
Dark Surfa	ace (S7) (LRR R, MLRA 14 hydrophytic vegetation a	nd wetland hy						
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Dark Surfa dicators of trictive La	hydrophytic vegetation a	nd wetland hy						
Dark Surfa ndicators of trictive La Type:	hydrophytic vegetation a ayer (if observed):	nd wetland hy					Hvdric Soil Present?	Yes 🔍 No 🔿
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Dark Surfa dicators of trictive La Type: Depth (inch marks:	hydrophytic vegetation a ayer (if observed):							Yes 🔍 No 🔾
Dark Surfa dicators of trictive La Type: Depth (inch marks:	hydrophytic vegetation a ayer (if observed):			ed on veg	etation ar	nd hydrolog		Yes 🔍 No 🔾
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