WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Aitkin	Sampling Date: 21-Aug-17	_
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n26w32-b2	
Investigator(s): DPT/SMR	Section, To	ownship, Range: S. 32	2 T. 51N R. 26W	
Landform (hillslope, terrace, etc.): Mound	Local relief (co	oncave, convex, none):	convex Slope: 10.5 % / 6	5.0°
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.8952	Long.: -9	23 39.7964 Datum: NAD 83	
Soil Map Unit Name: 544			NWI classification: N/A	
Are climatic/hydrologic conditions on the site	runical for this time of year?	s ○ No ● (If n	o, explain in Remarks.)	
Are Vegetation, Soil, or Hydro		•	mstances" present? Yes • No	
Are Vegetation, Soil, or Hydro	<i>.</i> .		motanices present.	
Summary of Findings - Attach sit	· ·		n any answers in Remarks.) ransects. important features. etc	_
Hydrophytic Vegetation Present? Yes	No •		ansects, important reaction, etc.	_
Hydric Soil Present? Yes	No (•) Is the	Sampled Area	s O No •	
Vac (No • within	n a Wetland? Ye	s U NO S	
Remarks: (Explain alternative procedures he				
Hydrology				
Wetland Hydrology Indicators:			ndary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required			Surface Soil Cracks (B6)	
☐ Surface Water (A1) ☐ High Water Table (A2)	Water-Stained Leaves (B9)☐ Aquatic Fauna (B13)		Drainage Patterns (B10) 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		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 Soil	s (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):0			
Water Table Present? Yes O No •	Depth (inches):0			
Saturation Present? Yes No •	Depth (inches): 0	Wetland Hydrology	Present? Yes O No 🗨	
Describe Recorded Data (stream gauge, mon	toring well, aerial photos, previous ins	pections), if available:		
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCIFIC Harries of pic	Sampling Point: u-51n26w32-b2				
(0) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1	0			That are OBL, FACW, or FAC:(A)	
2				Total Number of Dominant	
3	0			Species Across All Strata:1(B)	
4	0				
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				0BL species 0 x 1 = 0	
1	0			FACW species x 2 =10	
2	0				
3				FAC species $0 \times 3 = 0$	
4				FACU speciles $95 \times 4 = 380$	
5				UPL species $0 \times 5 = 0$	
6.				Column Total s: 100 (A) 390 (B)	
7				Prevalence Index = B/A = 3.900	
		= Total Cove			
Herb Stratum (Plot size: 5			-	Hydrophytic Vegetation Indicators:	
1. Pteridium aquilinum	90	✓	FACU	Rapid Test for Hydrophytic Vegetation	
0. 8/ 1. 1			FACW	☐ Dominance Test is > 50%	
			FACU	Prevalence Index is ≤3.0 ¹	
			TACO	☐ Morphological Adaptations ¹ (Provide supporting	
4				data in Remarks or on a separate sheet)	
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)	
6				17.45.4	
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8	0				
9	0			Definitions of Vegetation Strata:	
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
11	0			at breast height (DBH), regardless of height.	
12				Capling/abruh Wasdy plants less than 2 in DDH and	
	100 =	= 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)				ground man oles it (mi) tami	
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 Yes ○ No ●	
				Present? 100 0 110 0	
				<u> </u>	
Remarks: (Include photo numbers here or on a separate sh	neet.)				

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

Soil Sampling Point: u-51n26w32-b2

(inches)		Matrix				x Featu			_			
(inches)	Color (n	noist)		Color (mo	ist)	%	Type ¹	Loc ²	Texture		Ren	narks
0-7	10YR	3/3	100						Sandy Loam			
									-			
									-	-		
						-			-			
						-						
			-				-					
1 Type: C=Con	centration. D=	-Depletior	n. RM=Redi	uced Matrix, CS=	Covered	or Coate	d Sand Gra	ins ² Loca	ation: PL=Pore	Lining, M=Ma	ıtrix	
Hydric Soil 1		<u> </u>		·								3
Histosol (Dobazalia	a Ralow	Surface (S8) (LRR R			rs for Proble		
	pedon (A2)			MLRA 14	9B)	Surface (30) (LKK K	,	2 cm	Muck (A10) (RR K, L, MLI	RA 149B)
Black Hist				☐ Thin Dar	k Surfac	e (S9) (L	RR R, MLR	A 149B)	Coast	Prairie Redox	(A16) (LRR	K, L, R)
							LRR K, L)		5 cm	Mucky Peat o	r Peat (S3) (I	LRR K, L, R)
	Sulfide (A4)				-	atrix (F2)			Dark	Surface (S7)	(LRR K, L, M))
	Layers (A5)			Depleted					Polyva	alue Below Su	rface (S8) (L	.RR K, L)
	Below Dark Su		1)	Redox D					Thin [Dark Surface	(S9) (LRR K,	L)
	k Surface (A12					urface (F7	`		☐ Iron-N	Manganese Ma	asses (F12) (LRR K, L, R)
_	ıck Mineral (S1			_)		Piedm	nont Floodplai	n Soils (F19)	(MLRA 149B)
_	eyed Matrix (S	4)		Redox D	epressio	ns (F8)				Spodic (TA6)		
Sandy Re	dox (S5)									arent Materia		
	Matrix (C4)									Shallow Dark		2)
Stripped I	viatrix (30)		1.40D)							(Explain in R		
	ace (S7) (LRR	R, MLRA	149B)				aaa diatuurk	ad ar prabl		(LAPIGIII III K	emarks)	
☐ Dark Surf	ace (S7) (LRR			nd hydrology mu	ct bo pr		ess distuib					
Dark Surf	face (S7) (LRR	egetatior/		nd hydrology mu	st be pre	esent, uni		p	ematic.			
☐ Dark Surf	face (S7) (LRR	egetatior/		nd hydrology mu	st be pre	esent, uni			ematic.			
Dark Surf	face (S7) (LRR f hydrophytic v ayer (if obse	egetatior/		nd hydrology mu	st be pre	esent, uni					0	(2)
Dark Surf 3 Indicators of Restrictive L	face (S7) (LRR f hydrophytic v ayer (if obse	egetatior/		nd hydrology mu	st be pre	esent, uni			Hydric Soil	Present?	Yes O	No •
Dark Surf 3Indicators of Restrictive L Type: Restrictive Restri	face (S7) (LRR f hydrophytic v ayer (if obse	vegetatior		nd hydrology mu	st be pre	esent, uni				Present?	Yes O	No •
Dark Surf 3 Indicators of Restrictive L Type: _Re Depth (inc	face (S7) (LRR f hydrophytic v ayer (if obse	vegetatior		nd hydrology mu	st be pre	esent, unl				Present?	Yes O	No •
Dark Surf 3 Indicators of Restrictive L Type: _Re Depth (inc	face (S7) (LRR f hydrophytic v ayer (if obse	vegetatior		nd hydrology mu	st be pre	esent, uni				Present?	Yes O	No •
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