WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 22-Aug-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-51n26w33-b3
Investigator(s): SMR/RWS	Section, Township, Range: S.	T. 51N R. 26W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, none	Slope: 10.5 % / 6.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.8609 Long.:	-93 37.9238 Datum: NAD 83
Soil Map Unit Name: 540		NWI classification: N/A
	ical for this time of year? Yes No • (If	no, explain in Remarks.)
Are climatic/hydrologic conditions on the site typ Are Vegetation , Soil , or Hydrolo		, , , , , , , , , , , , , , , , , , ,
		anistances present.
Are Vegetation, Soil, or Hydrolo	, i (a	ain any answers in Remarks.)
	map showing sampling point locations,	transects, important features, etc
, , , ,	No To the Sampled Area	
• • • • • • • • • • • • • • • • • • • •		'es ○ No •
Wetland Hydrology Present? Yes	No ●	
Remarks: (Explain alternative procedures here	or in a separate report.)	
Hydrology		
Wetland Hydrology Indicators:	Ser	condary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; of	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Saturation (A3)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Water Marks (B1)	Marl Deposits (B15)	Dry Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2)		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):0	
Water Table Present? Yes No •	Depth (inches):0	
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	gy Present? Yes O No 🗨
	ring well, aerial photos, previous inspections), if available	2:
Remarks:		

VEGETATION - Use scientific names of plants

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(0)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species		
1 Betula papyrifera	15	✓	FACU	That are OBL, FACW, or FAC:1 (A)		
2. Fraxinus nigra		✓	FACW	Total Number of Dominant		
3				Species Across All Strata: 4 (B)		
4						
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)		
6	0			That Aic Obe, TAOW, OF TAO.		
7	0			Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15)	55=	= Total Cove	r	Total % Cover of: Multiply by:		
1 Corylus cornuta	80	✓	FACU	0BL species 0 x 1 = 0		
2				FACW species 40 x 2 = 80		
3				FAC speci es x 3 = 0		
4				FACU species		
5				UPL speci es $0 \times 5 = 0$		
6				Column Totals: <u>205</u> (A) <u>740</u> (B)		
7				Proviolonce Index P/A 2.410		
<i>1</i>		= Total Cove		Prevalence Index = B/A = 3.610		
Herb Stratum (Plot size: 5	80=	- Total Cove	•	Hydrophytic Vegetation Indicators:		
1. Aralia nudicaulis	70	✓	FACU	Rapid Test for Hydrophytic Vegetation		
2			.,,,,,	☐ Dominance Test is > 50%		
3				Prevalence Index is ≤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 Indicators of hydric soil and wetland hydrology must		
7				be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9				belinitions of vegetation strata.		
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
l1				at breast height (DBH), regardless of height.		
12				Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30)	=	= Total Cove	r	greater than 3.28 ft (1m) tall		
	0			Herb - All herbaceous (non-woody) plants, regardless of		
1				size, and woody plants less than 3.28 ft tall.		
2						
3	0			Woody vine - All woody vines greater than 3.28 ft in		
4				height.		
		= Total Cove	r			
				Hydronbydia		
				Hydrophytic Vegetation		
				Present? Yes No •		
Remarks: (Include photo numbers here or on a separate sh	eet.)					

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

Soil Sampling Point: u-51n26w33-b3

Depth		Matrix			Redox Feat			-			
(inches)	Color (moist)		Color (moist) %	Type 1	Loc2	Texture		Rei	marks
0-5	10YR	2/2	100					Clay Loam			
5-20	10YR	5/3	100					Silt Loam			
								-			
								-			
	-		-		-	-					
		-									
		-							—-		
	-	-									
Type: C=Cor	ncentration D		n RM-Red	uced Matrix CS-Co	wered or Coat	ed Sand Gra	ins 21 oca	ation: PL=Pore Lining.	M-M	atriv	
		- Bepletie	iii. itiwi—itou	docu Matrix, 05–00	vereu er eeur	eu ounu oru					2
Hydric Soil				□ n=t · ·	Jalaus Com C	(00) (100 0		Indicators for I	roble	ematic Hydr	ic Soils:
Histosol				MLRA 149	Below Surface	(58) (LRR R	ı	2 cm Muck (A10) (LRR K, L, ML	.RA 149B)
	ipedon (A2)				, Surface (S9) (IRR R. MIR	A 149B)	Coast Prairie	: Redo:	x (A16) (LRR	K, L, R)
☐ Black His					cky Mineral (F		,	5 cm Mucky	Peat o	r Peat (S3) ((LRR K, L, R)
	n Sulfide (A4)				yed Matrix (F2			☐ Dark Surface	e (S7)	(LRR K, L, M)
	Layers (A5)					.)		Polyvalue Be	low Su	urface (S8) (l	LRR K, L)
_	Below Dark S		11)	☐ Depleted N				Thin Dark Su	urface	(S9) (LRR K	, L)
Thick Da	rk Surface (A	12)			Surface (F6)						(LRR K, L, R)
Sandy M	uck Mineral (S	S1)			ark Surface (F	-7)					(MLRA 149B)
Sandy GI	leyed Matrix (S4)		☐ Redox Dep	ressions (F8)						A, 145, 149B)
Sandy Re	edox (S5)							Red Parent I			1, 110, 1175)
Stripped	Matrix (S6)							☐ Very Shallow			12)
	face (S7) (LRI	R R, MLRA	149B)					Other (Expla			2)
									in in K	emarks)	
Indicators of	or nyaropnytic	vegetatio	n and wetta	nd hydrology must	be present, ur	niess aisturb	ea or proble	ematic.			
Restrictive I	Layer (if obs	erved):									
Type: _											
Depth (in	ches):							Hydric Soil Prese	nt?	Yes 🔾	No 💿
Remarks:								1			
Normania.											