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-51n26w32-c2
Investigator(s): SMR/RWS	Section, Township, Range: 9	S. 32 T. 51N R. 26W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, no	
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.8704 Long	∴ -93 38.9217 Datum: NAD 83
Soil Map Unit Name: 506		NWI classification: PSSB
Are climatic/hydrologic conditions on the site typi	ical for this time of year?	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	_	Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrolog		explain any answers in Remarks.)
, _ , .	map showing sampling point location	
	No ①	.,,,
, , , , , , , , , , , , , , , , , , , ,	Is the Sampled Area	Yes ○ No ●
	within a Wetland?	res UNO U
Remarks: (Explain alternative procedures here of		
Hydrology		
Wetland Hydrology Indicators:		Company of 2 company
Primary Indicators (minimum of one required; cl	heck all that annly)	Secondary 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 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) ☐ Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3) Migratopagraphia Paliof (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsely regetated contains carried (56)		
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0	
	<u> </u>	
		ology Present? Yes O No 💿
Saturation Present? (includes capillary fringe) Yes No No	Depth (inches): 0	
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous inspections), if availa	able:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Harnes of pla	iiiG			Sampling Point: u-51n26w32-c2
(Plot size, 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover		Status	Number of Dominant Species
1 _. Larix Iaricina	5	✓	FACW	That are OBL, FACW, or FAC: (A)
2	0			
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				Species Across Air Strata.
				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 50.0% (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	5 =	= Total Cove	r	Total % Cover of: Multiply by:
1	0			0BL speci es x 1 = 0
2				FACW species 35 x 2 = 70
				FAC species0 x 3 =0
3				FACU species
4				UPL speci es $0 \times 5 = 0$
5	0			· · · · · · · · · · · · · · · · · · ·
6	0			Column Totals: 105 (A) 350 (B)
7				Prevalence Index = B/A =3.333
		= Total Cove		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:
1. Phalaris arundinacea	30	✓	FACW	Rapid Test for Hydrophytic Vegetation
O. D. 111		V	FACU	☐ Dominance Test is > 50%
		✓		Prevalence Index is ≤3.0 1
3. Rubus Idaeus			FACU	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
9				
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2				Carling/about Mandy plants land than 2 in DDI and
(Not size 20	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)				
1				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.
То-	0 =	= Total Cove		
		- rotar cove	•	
				Hydronbytic
				Hydrophytic Vegetation
				Present? Yes No •
Domarke: (Include photo numbers have as an a consucto of	oot)			
Remarks: (Include photo numbers here or on a separate sh	eet.j			

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

Soil Sampling Point: u-51n26w32-c2

Depth	Matri			ox Features	iiiiiiii tiie (absence of indicators.)	
(inches)	Color (moist)		Color (moist)		Loc2	Texture	Remarks
0-6	10YR 2/2					Silt Loam	
6-20	10YR 4/3	100				Silt Loam	
	-					-	
	-						
Type: C=Cond	centration D=Deple	etion RM=Red	uced Matrix, CS=Covered	d or Coated Sand Gra	ins 2Loca	tion: PL=Pore Lining. M=Ma	ntrix
Hydric Soil I			acca mann, co coveres				
Histosol (A			Pohazalus Polous	Surface (S8) (LRR R			matic Hydric Soils: ³
	edon (A2)		MLRA 149B)	Surface (SO) (LKK K			LRR K, L, MLRA 149B)
			Thin Dark Surface	ce (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Histi				ineral (F1) LRR K, L)		5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed M			Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)	(0.4.4)	Depleted Matrix			Polyvalue Below Su	ırface (S8) (LRR K, L)
_	Below Dark Surface	(ATT)	Redox Dark Surf			Thin Dark Surface	(S9) (LRR K, L)
_	k Surface (A12)		Depleted Dark S	, ,		Iron-Manganese Ma	asses (F12) (LRR K, L, R)
_	ck Mineral (S1)		Redox Depression			Piedmont Floodplai	n Soils (F19) (MLRA 149B)
_	yed Matrix (S4)		Redox Depressi	5113 (1 0)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Rec						Red Parent Materia	l (F21)
Stripped M						Very Shallow Dark	Surface (TF12)
Dark Surfa	ace (S7) (LRR R, ML	_RA 149B)				Other (Explain in R	emarks)
		ation and wetla	nd hydrology must be pr	esent, unless disturb	ed or proble	ematic.	
	hydrophytic vegeta						
³ Indicators of							
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³ Indicators of Restrictive La Type:	ayer (if observed)					Hydric Soil Present?	Yes ○ No ●
³ Indicators of Restrictive La Type: Depth (inch	ayer (if observed)					Hydric Soil Present?	Yes ○ No ●
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