WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/C	county: Aitkin	Sampling Date: 02-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51n23w29-g1
Investigator(s): SMR	Se	ction, Township, Range: S.	29 T. 51N R. 23W
Landform (hillslope, terrace, etc.): Lowla		relief (concave, convex, nor	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.	3237 Long.:	-93 16.4835 Datum: NAD 83
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on the	site typical for this time of year?	Yes ● No ○ (1	f no, explain in Remarks.)
	Hydrology significantly distu	_	rcumstances" present? Yes No
Are Vegetation, Soil, or I	Hydrology aturally problem		blain any answers in Remarks.)
. ,		,	transects, important features, etc
Hydrophytic Vegetation Present? Yes	;		
Hydric Soil Present? Yes	, No	Is the Sampled Area within a Wetland?	Yes No
Wetland Hydrology Present? Yes	, No	Within a Freda	
Hydrology			
Wetland Hydrology Indicators:		S	econdary Indicators (minimum of 2 required)
Primary Indicators (minimum of one reg	uired; 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 (C		Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres alo		Saturation Visible on Aerial Imagery (C9)
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)	Presence of Reduced Iron		Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Iron Deposits (B5)	Recent Iron Reduction in 7	Filled Soils (C6)	✓ Geomorphic Position (D2)☐ Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks	`	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)
Field Observations:			
	o Depth (inches):	0	
		7	
		Wetland Hydrol	ogy Present? Yes No
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, prev	vious inspections), if availab	e:
Remarks:			

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCIFIC Harries of pic	Sampling Point: w-51n23w29-g1			
(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	0			Total Number of Dominant
3	0			Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)
6				That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL speci es 100 x 1 = 100
1				FACW species 0 x 2 = 0
2	0			FAC speciles
3	0			·
4				FACU species $0 \times 4 = 0$
5	0			UPL speci es $0 \times 5 = 0$
6.				Column Totals: 100 (A) 100 (B)
7				Prevalence Index = B/A = 1.000
		= Total Cove		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:
1 Scirpus cyperinus	80	✓	OBL	✓ Rapid Test for Hydrophytic Vegetation
2. Calamagrostis canadensis		✓	OBL	✓ Dominance Test is > 50%
3				✓ Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting
				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				beinitions 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				Sapling/shrub - Woody plants less than 3 in. DBH and
(Net elect 20	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)	_			
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Size, and woody plants less than 5.20 it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes • No
Remarks: (Include photo numbers here or on a separate sh	neet.)			
Tomario, (znerado prioto númbero nere or on a separate si	,			

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

Soil Sampling Point: w-51n23w29-g1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	th Matrix Redox Features					_				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type 1	Loc2	Texture	Remarks
0-3	10YR	2/2	100						Silt Loam	
3-20	10YR	5/1	80	10YR	5/4	20	С	М	Silt Loam	
									-	
		-	-		-					
						-				
		-	-		-					
1 Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix.	CS=Covere	ed or Coate	ed Sand Gr	rains ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil I		_ 0010110				Joun			-	
Histosol (A				Polya	alue Relo	w Surface	(S8) (LPP	R.		ematic Hydric Soils: 3
	pedon (A2)				4 149B)	Januace	(JU) (LIKIK	•••		(LRR K, L, MLRA 149B)
Black Histi				Thin	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)		x (A16) (LRR K, L, R)
	Sulfide (A4)			Loan	ny Mucky I	Mineral (F1) LRR K, L)	_	or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loan	ny Gleyed	Matrix (F2))		Dark Surface (S7)	
	Below Dark	Surface (A	11)	✓ Depl	eted Matri	x (F3)				urface (S8) (LRR K, L)
	k Surface (A		,	Redo	x Dark Su	rface (F6)			☐ Thin Dark Surface	
	ck Mineral (☐ Depl	eted Dark	Surface (F	7)			Masses (F12) (LRR K, L, R)
_	eyed Matrix (Redo	x Depress	ions (F8)				in Soils (F19) (MLRA 149B)
Sandy Red		,) (MLRA 144A, 145, 149B)
_	Matrix (S6)								Red Parent Materia	
	ace (S7) (LR	R R, MLRA	149B)							
							P			Remarks)
³ Indicators of			n and wetta	ina nyarology	must be p	resent, un	iless distur	bea or probl	ematic.	
Restrictive La	ayer (if obs	erved):								
Type:									Hydric Soil Present?	Yes ● No ○
Depth (inch	hes):								nyuric Soil Present?	Yes S No C
Remarks:										