WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Aitkin		Samplin	g Date: 26-Aug-17
Applicant/Owner: Enbridge				State: MN	Sam	pling Point:	w-51n24w27-d1
Investigator(s): PJK			Section, To	wnship, Range:	S. 27	T. 51N	R. 24W
Landform (hillslope, terrace, etc.): Lowland		Local relief (co	oncave, convex, n	one): cond	ave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRF	. K	Lat.:	46 52.3875	Long	-93 22.1	991	Datum: NAD 83
Soil Map Unit Name: 428					NWI c	lassification:	N/A
Are climatic/hydrologic condition	s on the site ty	pical for this time of ye	ear? Yes	s O No 💿	(If no, expla	- ain in Remarks	5.)
Are Vegetation, Soil	, or Hydrol	ogy 🗌 significantl	y disturbed?	Are "Normal	Circumstan	ces" present?	Yes No
Are Vegetation, Soil	, or Hydrol	ogy 🗌 naturally p	roblematic?	(If needed, e	explain any a	answers in Ren	narks.)
Summary of Findings -	•						•
Hydrophytic Vegetation Present	? Yes ⊙	No O					
Hydric Soil Present?	Yes	No O		Sampled Area n a Wetland?	Yes N	lo O	
Wetland Hydrology Present?	Yes	No O					
WETS analysis shows precipita	IUII DOIOW HO.	iai.					
Hydrology Wetland Hydrology Indicators:							um of 2 required)
Primary Indicators (minimum o	f one required;	check all that apply)				Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leav				e Patterns (B10)	
✓ High Water Table (A2) ✓ Saturation (A3)		Aquatic Fauna (B13 Marl Deposits (B15				im Lines (B16) son Water Table	(02)
Water Marks (B1)		Hydrogen Sulfide C				Burrows (C8)	(62)
Sediment Deposits (B2)		Oxidized Rhizosphe		Roots (C3)			ial Imagery (C9)
Drift deposits (B3)		Presence of Reduce		10013 (33)		or Stressed Plan	
☐ Algal Mat or Crust (B4)		Recent Iron Reduc		s (C6)	✓ Geomor	phic Position (D2	2)
☐ Iron Deposits (B5)		☐ Thin Muck Surface	(C7)		Shallow	Aquitard (D3)	
Inundation Visible on Aerial Ima	igery (B7)	Other (Explain in R	emarks)		Microtop	ographic Relief	(D4)
Sparsely Vegetated Concave Su	rface (B8)				▼ FAC-neu	ıtral Test (D5)	
Field Observations:	<u> </u>						
	No	Depth (inches):	2				
	● No ○	Depth (inches):	0	Wetland Hydr	ology Proco	nt? Yes	No O
Saturation Present? (includes capillary fringe) Yes	● No ○	Depth (inches):	0	wedana nyar	ology Presei	ntr 163 C	NO C
Describe Recorded Data (stream	n gauge, monito	oring well, aerial photo	s, previous ins	pections), if avail	lable:		
Remarks:							

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	ants			Sampling Point: w-51n24w27-d1
(8) -1 - 20	Absolute	0	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2	0			T. I. M. J. C.
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				(,
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7		·		Prevalence Index worksheet:
·		Total Cover		
Sapling/Shrub Stratum (Plot size: 15		- Total Cover		
1	0			
2				FACW species
3				FAC speci es x 3 =
				FACU species0 x 4 =0
4				UPL speci es x 5 =0
5				Column Totals: 100 (A) 100 (B)
6				
7		Ш.		Prevalence Index = B/A = 1.000
Herb Stratum (Plot size: 5		Total Cover		Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1. Carex lacustris		~	OBL	✓ Dominance Test is > 50%
2. Calamagrostis canadensis		✓ .	OBL	Prevalence Index is ≤3.0 ¹
3. Scirpus cyperinus	10	Ц.	OBL	Morphological Adaptations ¹ (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0	□ .		Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				$^{ m 1}$ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
1				at breast height (DDH), regardless of height.
2	-			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	Total Cover		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	0			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3		_ 		Woody vine - All woody vines greater than 3.28 ft in
4		Ш.		height.
		Total Cover		
				Hydrophytic
				Vegetation
Domanica (Tuelvida uhata muushana hana an aa aa aa aa	hoot \			1
Remarks: (Include photo numbers here or on a separate s	nieet.)			

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

Soil Sampling Point: w-51n24w27-d1

	ription: (Des	scribe to	the depth	needed to d	ocumen	t the indi	cator or co	onfirm the	absence of indicators.)			
Depth Matrix (inches) Color (moist) %		0/-	Redox Features			Loc ²		Remarks				
0-4	10YR	3/1	95	10YR	3/6	_ 	<u>rype</u> . C	LOC	Silty Clay Loam	Remarks		
										_		
4-15	10YR	4/2	90	10YR	4/6	_ 10	C		Silty Clay Loam			
15-20	10YR	5/1	80	7.5YR	5/6	20	C		Clay Loam			
					-							
		-										
		-										
										-		
1 Tuno. C. Con		Donlotia	- DM Dos	Lucad Matrix (and or Coot	ad Cond Cr		ation. DL Doro Lining M I	Matrix		
Hydric Soil I		=Depletic	on. Rivi=Rec	iucea Mairix, C	22=Cover	ed of Coat	eu sanu Gi	allis ²Loca	ation: PL=Pore Lining. M=I			
Histosol (Polya	ralua Bala	w Surface	(S8) (LRR I	o		lematic Hydric Soils: 3		
	pedon (A2)			MLR/	149B)	W Surface	(30) (LIKIT	ν,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Black Hist				☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)					Coast Prairie Redox (A16) (LRR K, L, R)			
Hydrogen	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1) LRR K, L)					☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)☐ Dark Surface (S7) (LRR K, L, M)				
Stratified	Layers (A5)			Loamy Gleyed Matrix (F2)					Polyvalue Below Surface (S8) (LRR K, L)			
Depleted Below Dark Surface (A11)			✓ Depleted Matrix (F3)					☐ Thin Dark Surface (S9) (LRR K, L)				
☐ Thick Dark Surface (A12)					☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7)				☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
Daday Danrassians (51)					,,		Piedmont Floodplain Soils (F19) (MLRA 149B)					
	Sandy dieyed watth (34)						☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
	Sandy Redox (S5) Stripped Matrix (S6)						Red Parent Material (F21)					
Dark Surface (S7) (LRR R, MLRA 149B)						✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)						
³ Indicators of	f hydrophytic	vegetatio	on and wetla	and hydrology	must be	present. ur	nless distur	ned or probl		Kemarks)		
Restrictive L						.						
Type:	ayer (II ODS	erveuj.										
Depth (incl	hes):								Hydric Soil Present?	Yes ● No ○		
Remarks:												
Nomans.												