WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Aitkin		Samplir	ng Date: 22-Sep-17	
Applicant/Owner: Enbridge				State: MN	N Sam	pling Point:	w-50n20w2-c1	
Investigator(s): DPT			Section, T	ownship, Range:	S. 2	T. 50N	R. 20W	
Landform (hillslope, terrace, etc.)	: Lowland		Local relief (c	concave, convex, r	none): cond	cave	Slope: 0.0 % / 0.0 °	
Subregion (LRR or MLRA): LRR	K	Lat.:	46 51.1187	Lone	-92 50.2) 188	Datum: NAD 83	
Soil Map Unit Name: B127B			10 01.1107			lassification:		
Are climatic/hydrologic conditions	s on the site tv	pical for this time of v	ear? Ye	es No	(If no. expl	ain in Remark	s.)	
Are Vegetation \square , Soil \square	, or Hydrol		ly disturbed?	Are "Normal		ces" present?	Yes No	
Are Vegetation \Box , Soil \Box	, or Hydrol		roblematic?			-		
Summary of Findings - I	•					answers in Re ects. impo	•	
Hydrophytic Vegetation Present?		No O						
Hydric Soil Present?	Yes •	No O		e Sampled Area	Yes ● No ○			
•	Yes •	No O	with	in a Wetland?	res 🙂 i	NO C		
Wetland Hydrology Present? Remarks: (Explain alternative p			_					
Hydrology Wetland Hydrology Indicators:					Socondary	ndicators (minim	our of 2 required)	
Primary Indicators (minimum of	one required:	check all that annly)					num of 2 required)	
Surface Water (A1)	ves (B9)			Surface Soil Cracks (B6) Drainage Patterns (B10)				
✓ High Water Table (A2)		Aquatic Fauna (B13		Moss Trim Lines (B16)				
✓ Saturation (A3)	5)		e (C2)					
Water Marks (B1)		Hydrogen Sulfide C				Burrows (C8)		
Sediment Deposits (B2)		Oxidized Rhizosphe		g Roots (C3)			erial Imagery (C9)	
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduc		9- (C/)		or Stressed Plan rphic Position (D	` '	
Iron Deposits (B5)		Thin Muck Surface		iis (Co)		Aguitard (D3)	2)	
Inundation Visible on Aerial Imag	gery (B7)	Other (Explain in R	` '		_	pographic Relief	(D4)	
Sparsely Vegetated Concave Sur	face (B8)	отны (сириантите	iomanio,		✓ FAC-nei	utral Test (D5)		
Field Observations:								
Surface Water Present? Yes	● No ○	Depth (inches):	4	_				
Water Table Present? Yes	● No ○	Depth (inches):	0	_		(a O	
Saturation Present? (includes capillary fringe) Yes	● No ○	Depth (inches):	0	Wetland Hyd	rology Prese	nt? Yes	No O	
Describe Recorded Data (stream	gauge, monito	oring well, aerial photo	s, previous in	spections), if avai	lable:			
Remarks:								
Recent rains								

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: w-50n20w2-c1						
(Diet size, 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30)	% Cover		Status	Number of Dominant Species			
1 Populus tremuloides		✓	FACU	That are OBL, FACW, or FAC:7(A)			
2. Fraxinus nigra		✓	FACW	Total Number of Dominant			
3			-	Species Across All Strata: 8 (B)			
4							
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 87.5% (A/B)			
6	0			That Are ODE, FACW, OF FAC.			
7	0			Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15)	80=	= Total Cove	r	Total % Cover of:			
1 _ Alnus incana	20	✓	FACW	FACW species 140 x 2 = 280			
2. Salix bebbiana	10		FACW				
3. Cornus alba	20	✓	FACW	FAC speciles $0 \times 3 = 0$			
4. Spiraea alba	20	✓	FACW	FACU species x 4 =240			
5	0		-	UPL speci es $0 \times 5 = 0$			
6				Column Totals: <u>240</u> (A) <u>560</u> (B)			
7				Prevalence Index = B/A = 2.333			
		= Total Cove					
Herb Stratum (Plot size: 5			-	Hydrophytic Vegetation Indicators:			
1. Calamagrostis canadensis	40	✓	OBL	Rapid Test for Hydrophytic Vegetation			
2. Rubus hispidus		<u> </u>	FACW	✓ Dominance Test is > 50%			
3. Onoclea sensibilis		<u></u>	FACW	V Prevalence Index is ≤3.0 ¹			
4				Morphological Adaptations ¹ (Provide supporting			
5				data in Remarks or on a separate sheet)			
				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							
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
1				at breast height (DBH), regardless of height.			
2				Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30)	90 =	= Total Cove	r	greater than 3.28 ft (1m) tall			
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.			
	0 =	= Total Cove	r				
				Hydrophytic Vegetation Present? Yes No			
Downwige (Tachido abote arimbore bore as an a consuste e	haat \						
Remarks: (Include photo numbers here or on a separate s	neet.)						

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

Soil Sampling Point: w-50n20w2-c1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)													
Depth						dox Feat			-				
(inches)			Color (moist) % Type 1			Loc ²	Texture	Remarks					
0-5	10YR	2/1	100						Loam				
5-20	10YR	4/2	90	10YR	4/6	10	C	_M	Silty Clay Loam				
									-				
		-	-		-								
		-											
		-			-	-							
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix													
Hydric Soil I									Indicators for Prob	lematic Hydr	ic Soils: ³		
Histosol (A					Polyvalue Below Surface (S8) (LRR R, MLRA 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B)				
	pedon (A2)					ace (99)	(LRR R, MLI	2Δ 149R)	Coast Prairie Rec	lox (A16) (LRR	K, L, R)		
Black Histi							1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Sulfide (A4)				-	Matrix (F2		,	Dark Surface (S7) (LRR K, L, M)				
	Layers (A5)	S	11)		eted Matri		-/		Polyvalue Below Surface (S8) (LRR K, L)				
	Below Dark S k Surface (A1		11)	Redox Dark Surface (F6)					Thin Dark Surface (S9) (LRR K, L)				
						Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)				
	ck Mineral (S				ox Depress		,		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Gleyed Matrix (S4) Sandy Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)						
Stripped N									Red Parent Material (F21)				
	ace (S7) (LRF	R R. MIRA	149R)						☐ Very Shallow Dark Surface (TF12)				
									Uther (Explain in Remarks)				
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be p	present, ui	nless distur	bed or proble	ematic.				
Restrictive La	ayer (if obs	erved):											
Type:									Under Call Barrers	(2)			
Depth (inch	nes):								Hydric Soil Present?	Yes	No O		
Remarks:													