WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Aitkin	Sampling Date: 22-Sep-17	
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-50n20w2-d2
Investigator(s): PJK		Section, T	ownship, Range: S. 2	T. 50N	R. 20W
Landform (hillslope, terrace, etc.):	Mound	Local relief (c	oncave, convex, none):	convex	Slope: <u>1.7</u> % / <u>1.0</u> ⁶
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.1308	Long.: -92	2 49.6848	Datum: NAD 83
Soil Map Unit Name: B127B		-	<u> </u>	NWI classification:	N/A
Are Vegetation . , Soil . Are Vegetation . , Soil . Summary of Findings - At	, or Hydrology naturally	tly disturbed? problematic? sampling p	Are "Normal Circur (If needed, explain oint locations, tra	n any answers in Re	emarks.)
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ○ No ● Yes ○ No ● Yes ○ No ●	Is the Sampled Area within a Wetland? Ye		○ _{No} ●	
Wetland Hydrology Present? Remarks: (Explain alternative pro No digging near road, potential bu	cedures here or in a separate rep	ort.)			

Hydrology

Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of c	one required: ch	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)
		Marl Deposits (B15)	Dry Season Water Table (C2)
Saturation (A3)			Crayfish Burrows (C8)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	
Sediment Deposits (B2)		Oxidized Rhizospheres along Livir	
Drift deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled So	
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Image	, , ,	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surfa	face (B8)		FAC-neutral Test (D5)
Field Observations:	\sim		
Surface Water Present? Yes	🔾 No 🖲	Depth (inches): 0	_
Water Table Present? Yes	🔾 No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes \bigcirc No \bigcirc
Saturation Present? (includes capillary fringe) Yes	O No 🖲	Depth (inches): 0	Wetland Hydrology Present? Yes U No O
Describe Recorded Data (stream g	gauge, monitori	ng well, aerial photos, previous ir	inspections), if available:
Remarks:			

VEGETATION - Use scientific names of plants

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	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	-	Status	Number of Dominant Species
1. Populus tremuloides	70		FACU	That are OBL, FACW, or FAC: (A)
2. Quercus alba	-		FACU	Total Number of Dominant
3				Species Across All Strata:4(B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	80 =	Total Cover		Total % Cover of: Multiply by:
1. Corylus cornuta	20	\checkmark	FACU	OBL species <u>0</u> x 1 = <u>0</u>
2	0			FACW species 15 x 2 = 30
3				FAC species $0 \times 3 = 0$
4	0			FACU species 160 x 4 = 640
5				UPL species x 5 =75
6				Column Totals: 190 (A) 745 (B)
-				
7		Total Cover		Prevalence Index = $B/A = 3.921$
Herb Stratum (Plot size: 5)	=			Hydrophytic Vegetation Indicators:
1. Carex woodli	40	\checkmark	FACU	Rapid Test for Hydrophytic Vegetation
2. Pteridium aquilinum			FACU	Dominance Test is > 50%
3. Eurybia macrophylla	45		UPL	Prevalence Index is \leq 3.0 ¹
4. Thalictrum dasycarpum			FACW	Morphological Adaptations ¹ (Provide supporting
5				data in Remarks or on a separate sheet)
6				Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7 8				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
9				-
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at breast height (DBH), regardless of height.
12	-			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	90 =	Total Cover		greater than 3.28 ft (1m) tall
1	0			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 Cover	-	
				Hydrophytic
				Vegetation Present? Yes O No 🖲
Remarker (Technic shate muschare have as an e-surger sha	 \		1	
Remarks: (Include photo numbers here or on a separate she	et.)			

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

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Depth	Iption: (Describe to ti Matrix	ne depth ne		the indic		onfirm the a	absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
					- <u></u>			
	·		<u>_</u>					
	,,							
	· ·			-				
				-				
¹ Type: C=Con	centration. D=Depletion	. RM=Reduc	ed Matrix, CS=Covere	ed or Coate	ed Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil I	ndicators:						Indicators for Proble	ematic Hydric Soils : ³
Histosol (A1)		Polyvalue Belov	v Surface ((S8) (LRR F	2,		(LRR K, L, MLRA 149B)
Histic Epi	edon (A2)		MLRA 149B)					x (A16) (LRR K, L, R)
Black Hist	ic (A3)		Thin Dark Surfa					or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Mucky N				Dark Surface (S7)	
Stratified	Layers (A5)		Loamy Gleyed I					urface (S8) (LRR K, L)
Depleted	Below Dark Surface (A1	1)	Depleted Matrix				Thin Dark Surface	
Thick Dar	k Surface (A12)		Redox Dark Su					lasses (F12) (LRR K, L, R)
Sandy Mu	ck Mineral (S1)		Depleted Dark		7)			in Soils (F19) (MLRA 149B)
Sandy Gle	yed Matrix (S4)		Redox Depress	ions (F8)) (MLRA 144A, 145, 149B)
Sandy Re	dox (S5)						Red Parent Materia	
Stripped M	Aatrix (S6)						Very Shallow Dark	
Dark Surf	ace (S7) (LRR R, MLRA [·]	149B)					Other (Explain in R	
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent un	less disturk	ed or proble		,
	ayer (if observed):							
Туре:							Hydric Soil Present?	Yes 🔿 No 🖲
Depth (inc	nes):							
Remarks:								
No digging ne	ear road, potential bu	ried utilitie	s. Soils assumed n	on-hydric	based or	n vegetatio	n and hydrology.	