WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Carlton		Sa	mpling Date: 18-Sep-17
Applicant/Owner: Enbridge		State:	MN	Sampling Poi	nt: w-48n17w16-f1
Investigator(s): DPT	Section, T	ownship, Rang	je: S. 16	T. 48N	R. 17W
Landform (hillslope, terrace, etc.): Lowland	Local relief (o	concave, conve	x, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 38.5129	L	ong.: -92	29.5225	Datum: NAD 83
Soil Map Unit Name: 533	-		N	IWI classificat	ion: PSS/EM1C
	ficantly disturbed? rally problematic?	(If neede	mal Circum ed, explain	explain in Rer nstances" prese any answers i ansects, in	ent? Yes • No O
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○		e Sampled Area in a Wetland?	a Yes	● _{No} 〇	
Remarks: (Explain alternative procedures here or in a separate	e report.)				

Hydrology

	Secondary Indicators (minimum of 2 required)				
Primary Indicators (minimum of one required; check all that apply)					
Water-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)				
	Moss Trim Lines (B16)				
	Dry Season Water Table (C2)				
	Crayfish Burrows (C8)				
	Saturation Visible on Aerial Imagery (C9)				
	Stunted or Stressed Plants (D1)				
	Geomorphic Position (D2)				
	Shallow Aquitard (D3)				
	Microtopographic Relief (D4)				
	✓ FAC-neutral Test (D5)				
Depth (inches): 0					
Depth (inches): 3	~ ~ ~ ~ ~				
Depth (inches): 0	ydrology Present? Yes 🖲 No 🔾				
pring well, aerial photos, previous inspections), if a	vailable:				
	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): 0 Depth (inches): 3 Depth (inches): 0				

VEGETATION - Use scientific names of plants

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(0)	Absolute	Dominant	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				Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover		Total % Cover of: Multiply by:
A Almun Imagene	(0	_	FACIAL	OBL species 70 x 1 = 70
1. Alnus incana	60		FACW	FACW species 80 x 2 =160
2. Betula nigra			FACW	FAC species $0 \times 3 = 0$
3				FACU species $0 \times 4 = 0$
4	-			UPL species x 5 =
5				Column Totals: _150 (A) _230 (B)
6				
7				Prevalence Index = $B/A = 1.533$
Herb Stratum (Plot size: 5)	70 =	Total Cover		Hydrophytic Vegetation Indicators:
	40			Rapid Test for Hydrophytic Vegetation
1. Carex lacustris	40	✓	OBL	✓ Dominance Test is > 50%
2. Calamagrostis canadensis	30		OBL	\checkmark Prevalence Index is \leq 3.0 ¹
3. Rubus hispidus			FACW	Morphological Adaptations ¹ (Provide supporting
4	0			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	0			be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
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
Woody Vine Stratum (Plot size: 30)	80 =	Total Cover		greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
-	0			size, and woody plants less than 3.28 ft tall.
2	0			
۶	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes VNO U
Remarks: (Include photo numbers here or on a separate shee	et.)			

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

US Army Corps of Engineers

Profile Desc	ription: (De	scribe to	the depth	needed to d	ocument	t the indi	cator or co	onfirm the	absence of indicators.)			
Depth		Matrix				dox Featı			-			
(inches)	Color (Color (moist) %		Color (moist) % Type ¹			Loc ²	Texture	Remarks			
0-13	10YR	2/1	100						Muck			
13-20	10YR	3/1	95	10YR	3/6	5	C		Silty Clay Loam			
	<u></u>											
	<u></u>											
1												
		D=Depletio	n. RM=Rec	luced Matrix, C	S=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Ma			
Hydric Soil 1						C C	(00) (100)	-	Indicators for Proble	matic Hydric Soils : ³		
Histosol (ipedon (A2)				alue Belo 149B)	w Surrace	(S8) (LRR I	Κ ,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Black Hist				Thin	Dark Surf	ace (S9) (lrr R, Mlf	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
	n Sulfide (A4))		🗌 Loam	y Mucky	Mineral (F1	I) LRR K, L)		r Peat (S3) (LRR K, L, R)		
	Layers (A5)			Loam	y Gleyed	Matrix (F2)		Dark Surface (S7)			
Depleted	Below Dark	Surface (A	11)		eted Matri				Thin Dark Surface	Irface (S8) (LRR K, L)		
Thick Dar	rk Surface (A	12)		_		irface (F6)						
Sandy Mu	uck Mineral (S1)				Surface (F	7)		 Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) 			
Sandy Gle	eyed Matrix ((S4)		Redo	x Depress	sions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Re	edox (S5)								Red Parent Material (F21)			
Stripped	Matrix (S6)								Very Shallow Dark Surface (TF12)			
	face (S7) (LR								Other (Explain in Remarks)			
³ Indicators o	of hydrophytic	c vegetatio	n and wetla	and hydrology	must be p	present, ur	nless disturl	ped or probl	ematic.			
Restrictive L	ayer (if obs	served):										
Туре:										~ • •		
Depth (inc	ches):								Hydric Soil Present?	Yes 🔍 No 🔾		
Remarks:												