WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Carlton	Samplii	Sampling Date: 16-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n17w8-b5		
Investigator(s): DPT		Section, To	ownship, Range: S. 8	T. 48N	R. 17W	
Landform (hillslope, terrace, etc.):	Mound	Local relief (c	oncave, convex, none):	convex	Slope: 5.2 % / 3.0 °	
Subregion (LRR or MLRA): LRR k	Lat.:	46 39.0842	Long.: -92	2 30.8352	Datum: NAD 83	
Soil Map Unit Name: 533				WI classification:	PSS/EM1B	
Are Vegetation , Soil Are Vegetation , Soil Summary of Findings - A	, or Hydrology 🗌 naturally	tly disturbed? problematic? sampling p	· / ·	any answers in Re		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ○ No ● Yes ○ No ● Yes ○ No ●		e Sampled Area n a Wetland? Yes	○ _{No}		
Remarks: (Explain alternative provide the second se	ocedures here or in a separate repo	ort.)				

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum of one required	: check all that apply)	Secondary Indicators (Infinitian of 2 required)		
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 (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)		Saturation Visible on Aerial Imagery (C9)		
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)			
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes O No •	Depth (inches): 0			
Water Table Present? Yes O No 🖲	Depth (inches): 0	drology Present? Yes 🔿 No 🖲		
Saturation Present? Yes O No O	Depth (inches):0	drology Present? Yes 🔾 No 🖲		
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspections), if ava	ailable:		
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plat	its			Sampling Point: u-48n17w8-b5
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% 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: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 0.0% (A/B)
6 7	0			Prevalence Index worksheet:
		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1	0			FACW species $5 \times 2 = 10$
2	0			FAC species $0 \times 3 = 0$
3				FACU speciles $\frac{85}{x4} = \frac{340}{x4}$
4				UPL species $10 \times 5 = 50$
5	-			Column Totals: 100 (A) 400 (B)
6				
7				Prevalence Index = $B/A = 4.000$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
1. Pteridium aquilinum	30	\checkmark	FACU	Rapid Test for Hydrophytic Vegetation
2. Solidago canadensis	20		FACU	Dominance Test is > 50%
3. Fragarla vesca	10		UPL	Prevalence Index is \leq 3.0 ¹
4. Taraxacum officinale	15		FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. Rubus Idaeus	10		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6. Phalaris arundinacea	5		FACW	
7. Cirsium vulgare	10		FACU	¹ Indicators of hydric soil and wetland hydrology must
8	0			be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: <u>30</u>)	100 =	Total Cover		greater than 3.28 ft (1m) tall.
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0			size, and woody plants less than 3.28 ft tall.
3	0			
4	0			Woody vine - All woody vines greater than 3.28 ft in height.
T	0 =	Total Cover		5
				Hydrophytic Vegetation
				Present? Yes No •
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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		e depth need				onfirm the a	absence of indicators.)	
Depth (inches)	<u>Matrix</u> Color (moist)	%	Color (moist)	dox Featu %	Type ¹	Loc ²	Texture	Remarks
					. <u> </u>			
							-	-
			·					
¹ Type: C=Cor	centration. D=Depletion.	RM=Reduced	Matrix, CS=Cover	ed or Coate	d Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=I	Matrix
Hydric Soil	Indicators:						Indicators for Prob	lematic Hydric Soils : ³
Histosol ((A1)	[Polyvalue Belo	w Surface (S8) (LRR R	2,	_	(LRR K, L, MLRA 149B)
🗌 Histic Epi	ipedon (A2)	г	MLRA 149B)					lox (A16) (LRR K, L, R)
Black His	tic (A3)	Ĺ	Thin Dark Surf					t or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)	Ĺ	Loamy Mucky				Dark Surface (S7	
Stratified	Layers (A5)	Ĺ	Loamy Gleyed					Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11) [Depleted Matri					e (S9) (LRR K, L)
Thick Date	rk Surface (A12)	Ĺ	Redox Dark Su					Masses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S1)	l	Depleted Dark		')			lain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)	l	Redox Depress	sions (F8)				.6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Parent Mater	
Stripped	Matrix (S6)						Very Shallow Dar	
Dark Sur	face (S7) (LRR R, MLRA 1	49B)					Other (Explain in	
³ Indicators o	f hydrophytic vegetation	and wetland h	rdrology must be i	oresent un	ess disturb	ed or proble		······
	ayer (if observed):							
Туре:							Hydric Soil Present?	Yes 🔿 No 🖲
Depth (inc	ches):							
Remarks:								
No digging,	buried utilities. Soils a	ssumed non-	hydric based or	n vegetatio	on and hy	drology.		