WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Carlton	Sampli	ng Date: 15-Sep-17		
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-48n17w8-c1		
Investigator(s): DPT	Section, T	ownship, Range: S. 8	T. 48N	R. 17W		
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0 °		
Subregion (LRR or MLRA): LRR K	46 39.3794	Long.: -92	2 31.5391	Datum: NAD 83		
il Map Unit Name: 355C NWI classification: N/A						
	ntly disturbed? problematic? sampling p	Are "Normal Circur (If needed, explair oint locations, tra	any answers in Re	emarks.)		
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland? Yes	● _{No} ○			
Remarks: (Explain alternative procedures here or in a separate rep	ort.)					

Hydrology

Wetland Hydrology Indica	tors:			Secondary Indicators (minimum of 2 required)		
Primary Indicators (minim		required	check all that apply)	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)			
Saturation (A3)		Marl Deposits (B15)	Dry Season Water Table (C2)			
Water Marks (B1)				Crayfish Burrows (C8)		
Sediment Deposits (B2)			Hydrogen Sulfide Odor (C1)			
			Oxidized Rhizospheres along Living Roots (C			
Drift deposits (B3)			Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)			Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)		(= _)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aer	5 5	. ,	Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Conc	ave Surface	(B8)		FAC-neutral Test (D5)		
Field Observations:	\frown					
Surface Water Present?	Yes \bigcirc	No 🖲	Depth (inches): 0			
Water Table Present?	Yes 🖲	No 🔿	Depth (inches): <u>10</u>	and Hydrology Present? Yes 💿 No 🔾		
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches):0	land Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

VEGETATION - Use scientific names of plants

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	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:5_ (A)
2				Total Number of Dominant
3	0			Species Across All Strata:5(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:
	50		FACW	OBL species x 1 =0
			FACW	FACW species x 2 =260
2. Alnus incana			FACW	FAC species $0 \times 3 = 0$
3				FACU species $0 \times 4 = 0$
4				UPL species $0 \times 5 = 0$
5				Column Totals:(A)(B)
6				
7				Prevalence Index = $B/A = 1.867$
Herb Stratum (Plot size: 5)	70 =	Total Cover		Hydrophytic Vegetation Indicators:
	20	\checkmark	OBL	Rapid Test for Hydrophytic Vegetation
		\checkmark	FACW	✓ Dominance Test is > 50%
		\checkmark	FACW	✓ Prevalence Index is ≤3.0 1
3. Carex Intumescens				Morphological Adaptations ¹ (Provide supporting
4				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				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
2	0			size, and woody plants less than 3.28 ft tall.
3	0			
а	0			Woody vine - All woody vines greater than 3.28 ft in height.
т	0 =	Total Cover		
				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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	iption: (De	scribe to	the depth	needed to do	cument the	indicator or	confirm the	absence of indicators.)			
Depth <u>Matrix</u> (inches) Color (moist) %		06	Redox Features Color (moist) % Type ¹ Loc ²				Texture	Remarks			
0-8	10YR	2/1	100			% Type	LOC-	Muck	Keindrks		
								·			
8-20	10YR	4/2	80	10YR	4/6 20	C	M	Sand			
	-	-									
				. <u> </u>		<u>_</u>					
				. <u> </u>							
1 Turner C. Corr								tion DL Done Lining M M			
51		=Depletic	on. RM=Red	uced Matrix, CS	=Covered or	Coated Sand (Frains ² Loca	ation: PL=Pore Lining. M=M			
Hydric Soil I				□ - · ·		()-> //		Indicators for Proble	ematic Hydric Soils: ³		
Histosol (,			Polyval		face (S8) (LRF	2 R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Histic Epip					•	59) (LRR R. M	LRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hist				Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) LRR K, L)				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	i Sulfide (A4) Layers (A5)			_	Gleyed Matrix		,	Dark Surface (S7) (LRR K, L, M)			
_	Below Dark S	Surface (A	11)		ed Matrix (F3)			Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A		(11)		Dark Surface			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)			
	ick Mineral (S				ed Dark Surfa						
	eyed Matrix (Redox	Depressions ((F8)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Ge		.54)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Matrix (S6)							Red Parent Materi			
		(36) S7) (LRR R, MLRA 149B)				Very Shallow Dark Surface (TF12)					
								Other (Explain in F	Remarks)		
°Indicators of	f hydrophytic	c vegetatic	on and wetla	and hydrology m	ust be preser	nt, unless distu	irbed or probl	lematic.			
Restrictive L	ayer (if obs	erved):									
Туре:									~ • • •		
Depth (incl	hes):							Hydric Soil Present?	Yes $ullet$ No $igodot$		
Remarks:											