## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Carlton	Sampling Date: 15-Sep-17
Applicant/Owner: Enbridge	State:	MN Sampling Point: w-48n17w8-b2
Investigator(s): SMR	Section, Township, Range	e: S. 8 T. 48N R. 17W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex	
Subregion (LRR or MLRA): LRR K	Lat.: 46 39.3542 Lo	ong.: -92 31.3730
Soil Map Unit Name: 533		NWI classification: PFO1/4B
Are climatic/hydrologic conditions on the site typical for this time	e of year? Yes   No	(If no, explain in Remarks.)
	•	nal Circumstances" present? Yes  No
Are Vegetation , Soil , or Hydrology natur	_	d, explain any answers in Remarks.)
Summary of Findings - Attach site map showi	•	
Hydrophytic Vegetation Present? Yes No No		
Hydric Soil Present? Yes ● No ○	Is the Sampled Area within a Wetland?	Yes ● No ○
Wetland Hydrology Present? Yes ● No ○	Within a Wedana:	
Remarks: (Explain alternative procedures here or in a separate	e report.)	
Hydrology		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that ap	(vlac	Surface Soil Cracks (B6)
	ed Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)  Aquatic Faur	, ,	Moss Trim Lines (B16)
Saturation (A3)  Marl Deposit		Dry Season Water Table (C2)
	ulfide Odor (C1)	Crayfish Burrows (C8)
The second secon	izospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
	• ,	Shallow Aquitard (D3)
Tilli Wack 3	` ,	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	ain in Remarks)	FAC-neutral Test (D5)
Sparsely vegetated concave surface (bb)		FAC-fleutial Test (DS)
Field Observations: Surface Water Present?  Yes No   Depth (inc		
Sands Mats. 1755sit.	:hes):0	
Water Table Present? Yes No Depth (inc	thes):0	ydrology Present? Yes  No
Saturation Present? (includes capillary fringe) Yes No Depth (inc		ydrology Present? Yes  No
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if av	vailable:
Remarks:		

## **VEGETATION - Use scientific names of plants**

vegeration - ose scientific fiames of pla	Sampling Point: w-48n17w8-b2		
(Diet size, 20	Absolute	Dominant Indic	
Tree Stratum (Plot size: 30 )	% Cover	Species? Statu	Number of Dominant Species
1			That are OBL, FACW, or FAC: 3 (A)
2			Total Number of Dominant
3	0		Species Across All Strata: 3 (B)
4			
5	0		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6	0		That rice obe, thow, of the
7	0		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	=	Total Cover	Total % Cover of: Multiply by:
1	0		0BL speci es <u>100</u> x 1 = <u>100</u>
			FACW species x 2 =
2	=		FAC speciles x 3 =0
3			FACU species $0 \times 4 = 0$
4			UPL species x 5 =0
5			Column Totals: 100 (A) 100 (B)
6			<u> </u>
7		Total Cover	Prevalence Index = B/A = 1.000
Herb Stratum (Plot size: 5		- Total Cover	Hydrophytic Vegetation Indicators:
1 Typha x glauca	40	<b>✓</b> OBL	Rapid Test for Hydrophytic Vegetation
2. Carex lacustris	20	✓ OBL	✓ Dominance Test is > 50%
3. Scirpus cyperinus		✓ OBL	Prevalence Index is ≤3.0 ¹
4			Morphological Adaptations <sup>1</sup> (Provide supporting
5			data in Remarks or on a separate sheet)
6			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7			Indicators of hydric soil and wetland hydrology must
8			be present, unless disturbed or problematic.
9			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 broad Holght (BBH), regardless of Holght.
12		Total Cover	Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )		- 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 No
Remarks: (Include photo numbers here or on a separate sho	eet.)		
	-		

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-48n17w8-b2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth <u>Matrix</u>			Redox Features				-				
(inches)	Color (	moist)	%	Color (n	noist)	%_	Type 1	Loc2	Texture	Remarks	
0-4	10YR	2/1	100				_		Muck		
4-10	10YR	4/2	90	10YR	4/4	10	С	М	Sandy Clay Loam		
10-20	10YR	5/1	80	10YR	5/6	20	С	M	Sandy Clay Loam		
		-									
						-	-				
						-					
<sup>1</sup> Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix, C	S=Covere	ed or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=N	latrix	
Hydric Soil I	ndicators:			_	-				Indicators for Proble	ematic Hydric Soils: 3	
Histosol (A	•					w Surface (	(S8) (LRR	R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Histic Epip					149B)	200 (50) (1	ייא ם סטו	DA 140D\		ox (A16) (LRR K, L, R)	
Black Histi						ace (S9) (I			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)					Mineral (F1 Matrix (F2)		)	Dark Surface (S7) (LRR K, L, M)		
	Layers (A5)				y Gleyed ted Matri:		)		Polyvalue Below Surface (S8) (LRR K, L)		
	Below Dark S		.11)			rface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)		
	k Surface (A'					Surface (F6)	7)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	ck Mineral (S						"		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	yed Matrix (	S4)		Redox Depressions (F8)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Red									Red Parent Materi	al (F21)	
Stripped N		D D MI DA	\ 4.40D\						Very Shallow Dark	Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 149B)						Other (Explain in Remarks)					
<sup>3</sup> Indicators of	hydrophytic	vegetatio	n and wetla	nd hydrology	must be p	resent, un	less distur	bed or proble	ematic.		
Restrictive La	ayer (if obs	erved):									
Type:											
Depth (inch	nes):								Hydric Soil Present?	Yes   No	
Remarks:											
I											