WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Coun	ty: Carlton	Sampling	Date: 16-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n17w16-d1
Investigator(s): DPT	Section	n, Township, Range: S.	16 T. 48N	R. 17W
Landform (hillslope, terrace, etc.): Mound		ef (concave, convex, non		Slope: 8.7 % / 5.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 38.815	0 Long.:	-92 30.1630	Datum: NAD 83
Soil Map Unit Name: 12C			NWI classification:	
Are climatic/hydrologic conditions on the site	typical for this time of year?	Yes No (I	f no, explain in Remarks	.)
Are Vegetation , Soil , or Hydr		•	rcumstances" present?	´Yes ● No ○
Are Vegetation, Soil, or Hydr	·		plain any answers in Rem	aarke)
Summary of Findings - Attach si		` ' '	-	•
Hydrophytic Vegetation Present? Yes	No •	· .	· ·	•
Hydric Soil Present? Yes		s the Sampled Area vithin a Wetland?	Yes ○ No ●	
Wetland Hydrology Present? Yes	No •	num a weuanur		
Remarks: (Explain alternative procedures he	ere or in a senarate report.)			
Hydrology				
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicators (minimu	um of 2 required)
Primary Indicators (minimum of one require Surface Water (A1)			Surface Soil Cracks (B6) Drainage Patterns (B10)	
High Water Table (A2)	Water-Stained Leaves (B9)☐ 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)	Oxidized Rhizospheres along L	iving Roots (C3)	Saturation Visible on Aeri	al Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4))	Stunted or Stressed Plan	ts (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled	d 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)	L	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		L	FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes No)			
Water Table Present? Yes No •		Wetland Hydrole	ogy Present? Yes	No 💿
Saturation Present? (includes capillary fringe) Yes No No	Depth (inches): 0		ogy i resent.	
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous	s inspections), if availab	le:	
Remarks:				

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pla	Sampling Point: u-48n17w16-d1			
(Diet sient 20	Absolute		dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	species: S	atus	Number of Dominant Species
1		Ц -		That are OBL, FACW, or FAC:
2		<u> </u>		Total Number of Dominant
3				Species Across All Strata:3(B)
4		Ц –		Dercent of deminent Chesics
5		Ц _		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6				
7	0	Ш _		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover		Total % Cover of: Multiply by:
1	0			0BL speci es x 1 =0
2				FACW species
				FAC speci es x 3 =
3				FACU speciles80 x 4 =320
4 5				UPL speci es $\frac{20}{100}$ x 5 = $\frac{100}{100}$
				Column Totals: 100 (A) 420 (B)
6				
7		Total Cover		Prevalence Index = B/A = 4.200
Herb Stratum (Plot size: 5		- Total Cover		Hydrophytic Vegetation Indicators:
1 Tanacetum vulgare	50	✓ F	ACU	Rapid Test for Hydrophytic Vegetation
2 Centaurea maculosa			IPL	☐ Dominance Test is > 50%
3. Solidago canadensis	20		ACU	Prevalence Index is ≤3.0 ¹
			ACU	Morphological Adaptations ¹ (Provide supporting
			7.00	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		H -		be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9		H -		_
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
l1				at bleast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	= 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
Δ	0			height.
Ti	0 =	Total Cover		Ğ
				Hydrophytic
				Vegetation Present? Yes No
				Trosent:
Domarker / Include whete wombers have an are account.	not \			
Remarks: (Include photo numbers here or on a separate she	eet.)			

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

Soil Sampling Point: u-48n17w16-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth							
(Inches)	Color (moist)		Color (moist)	% Type	Loc ²	Texture	Remarks
			-			-	
						-	
				·			
¹ Type: C=Con	centration. D=Depletion	n. RM=Reduce	d Matrix, CS=Covere	ed or Coated Sand G	rains ² Locat	tion: PL=Pore Lining. M=Ma	ıtrix
Hydric Soil 1			<u> </u>			-	
Histosol (Polyvalue Belov	w Surface (S8) (LRR	R.		matic Hydric Soils: 3
	pedon (A2)		MLRA 149B)		,		LRR K, L, MLRA 149B)
Black Hist			☐ Thin Dark Surfa	ace (S9) (LRR R, ML	RA 149B)		(A16) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky I	Mineral (F1) LRR K, L	.)		r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)	
	Below Dark Surface (A1	1)	Depleted Matri	x (F3)			rface (S8) (LRR K, L)
	k Surface (A12)	,	Redox Dark Su	rface (F6)		Thin Dark Surface (
	ick Mineral (S1)		☐ Depleted Dark	Surface (F7)			asses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depress	ions (F8)			n Soils (F19) (MLRA 149B)
Sandy Re							(MLRA 144A, 145, 149B)
	Matrix (S6)					Red Parent Materia	, ,
	ace (S7) (LRR R, MLRA	149B)				Very Shallow Dark	
						Other (Explain in R	emarks)
Indicators of	f hydrophytic vegetation	and wetland	hydrology must be p	oresent, unless distur	bed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	hes):					Hydric Soil Present?	Yes ○ No •
Remarks:							
No diagina, b	ouried utilities. Soils	assumed no	n-hvdric based or	vegetation and h	vdrology.		
35 3,			,	3	,		