WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Coun	ty: Carlton	Samplin	g Date: 16-Sep-17					
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n17w16-a4					
Investigator(s): DPT	Section	n, Township, Range: S.	16 T. 48N	R. 17W					
Landform (hillslope, terrace, etc.): Mound		ef (concave, convex, noi		Slope: 5.2 % / 3.0 °					
Subregion (LRR or MLRA): LRR K	Lat.: 46 38.732	9 Long.:	-92 30.4433	Datum: NAD 83					
Soil Map Unit Name: 533			NWI classification:	 N/A					
Are climatic/hydrologic conditions on the sit	e typical for this time of year?	Yes No (1	- If no, explain in Remarks	.)					
	drology significantly disturbe	-	ircumstances" present?	Yes No					
	drology anaturally problemation		·	narks.)					
Are Vegetation , Soil , or Hydrology in naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc									
Hydrophytic Vegetation Present? Yes	No ●								
Hydric Soil Present? Yes		s the Sampled Area vithin a Wetland?	Yes O No 💿						
Wetland Hydrology Present? Yes	O No ●								
No digging, buried utilities.									
Hydrology									
Wetland Hydrology Indicators:	end, chack all that apply)	<u>_</u> S	Secondary Indicators (minim	um of 2 required)					
Primary Indicators (minimum of one requirements Surface Water (A1)	Water-Stained Leaves (B9)		Surface Soil Cracks (B6)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)	Oxidized Rhizospheres along L	iving Roots (C3)	Saturation Visible on Aer	ial 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	Soils (C6)	Geomorphic Position (D2	2)					
Iron Deposits (B5)	☐ Thin Muck Surface (C7)	L	Shallow Aquitard (D3)	(D. ()					
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	U Other (Explain in Remarks)	L	Microtopographic ReliefFAC-neutral Test (D5)	(D4)					
Sparsely vegetated concave surface (bb)		L	FAC-Heutral Test (D5)						
Field Observations: Surface Water Present? Yes No	Depth (inches): 0								
		Wetland Hydrol	ogy Present? Yes	No ●					
(includes capillally inlige)									
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous	s inspections), if availab	ole:						
Remarks:									

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pla		Sampling Point: u-48n17w16-a4			
(District 20	Absolute			Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	% Cover	Species? Sta	tus	Number of Dominant Species	
1		Ц _		That are OBL, FACW, or FAC: 0 (A)	
2		Ц _		Total Number of Dominant	
3	0			Species Across All Strata:	
4	0				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)	
6	0		L	That Are ODE, FACW, OF FAC.	
7	0			Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 15)	0 =	= Total Cover		Total % Cover of: Multiply by:	
	0		ľ	OBL speci es x 1 =	
1			r	FACW species 0 x 2 = 0	
2			r	FAC speciles0 x 3 =0	
3	-			FACU species 100 x 4 = 400	
4		H —	_[UPL species $0 \times 5 = 0$	
5		<u> </u>		Column Totals: 100 (A) 400 (B)	
6	-		— I`		
7			— L	Prevalence Index = $B/A = 4.000$	
Herb Stratum (Plot size: 5		= Total Cover		Hydrophytic Vegetation Indicators:	
	70	✓ FA	.cu	Rapid Test for Hydrophytic Vegetation	
0.00			CU	Dominance Test is > 50%	
			CU	Prevalence Index is ≤3.0 ¹	
				Morphological Adaptations ¹ (Provide supporting	
4		H -		data in Remarks or on a separate sheet)	
5		<u> </u>		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 —		zemmono or repetation out atta	
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
11			—— I ¹	at breast height (DBH), regardless of height.	
12		Ц		Sapling/shrub - Woody plants less than 3 in. DBH and	
Woody Vine Stratum (Plot size: 30)	100 =	= Total Cover	- 1	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			W 1 1 All 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4	0			Woody vine - All woody vines greater than 3.28 ft in height.	
4		= Total Cover		noight.	
		- Total Cover			
				Hydrophytic	
				Vegetation	
				Present? Yes V No V	
Remarks: (Include photo numbers here or on a separate sh	eet.)				

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

Soil Sampling Point: u-48n17w16-a4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			dox Featu				
(inches)	Color (moist)	<u></u>	Color (moist)		Type 1	Loc ²	Texture	Remarks
				-			-	
							-	
							-	
				-				
			-	-				
				-				
1								
		n. RM=Reduce	ed Matrix, CS=Covere	ed or Coate	d Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=M	atrix
Hydric Soil 1	indicators:						Indicators for Proble	ematic Hydric Soils: ³
Histosol (A1)		Polyvalue Belov	w Surface (S8) (LRR R,			(LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B)					x (A16) (LRR K, L, R)
☐ Black Hist	ic (A3)		Thin Dark Surfa			A 149B)		or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Mucky I		LRR K, L)			
☐ Stratified	Layers (A5)		Loamy Gleyed	Matrix (F2)			Dark Surface (S7)	
	Below Dark Surface (A1	1)	Depleted Matri	x (F3)				urface (S8) (LRR K, L)
	k Surface (A12)	·	Redox Dark Su	rface (F6)			Thin Dark Surface	
	ıck Mineral (S1)		☐ Depleted Dark	Surface (F7)			lasses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depress	ions (F8)				in Soils (F19) (MLRA 149B)
) (MLRA 144A, 145, 149B)
Sandy Re							Red Parent Materia	al (F21)
	Matrix (S6)						Very Shallow Dark	Surface (TF12)
☐ Dark Surf	ace (S7) (LRR R, MLRA	149B)					Other (Explain in R	Remarks)
³ Indicators of	f hydrophytic vegetatior	and wetland	hydrology must be p	resent, unl	ess disturbe	ed or proble	ematic.	
	ayer (if observed):							
	ayer (ii observea).							
Type:							Hydric Soil Present?	Yes O No 💿
Depth (inc	hes):						,	163 0 140 0
Remarks:								
No digging, b	ouried utilities. Soils a	assumed no	n-hydric based on	vegetation	n and hyd	rology.		
00 0			,	Ü	,	03		