WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Carlton		Samplin	g Date: 16-Sep-17
Applicant/Owner: Enbridge				State: MN	Samı	oling Point:	w-48n17w16-d2
Investigator(s): SMR			Section, To	ownship, Range:	s. 16	T. 48N	R. 17W
Landform (hillslope, terrace, etc.):	Lowland	L	ocal relief (co	oncave, convex, n	one): conc	ave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	K	Lat.: 4	6 38.7404	Long	-92 30.1	 113	Datum: NAD 83
Soil Map Unit Name: 337			0 00.7			assification:	
		1 10 Milestone of the	- Vo	s • No O	_		
Are climatic/hydrologic conditions	-					in in Remarks	s.) Yes ◉ No ◯
Are Vegetation, Soil	, or Hydrol	ogy	disturbed?	Are "Normal	Circumstanc	es" present?	Yes ♥ No ∪
Are Vegetation, Soil	, or Hydrol	ogy 🗌 naturally pro	oblematic?	(If needed,	explain any a	nswers in Ren	narks.)
Summary of Findings - A			mpling p	oint location	s, transe	cts, impor	tant features, etc
Hydrophytic Vegetation Present?	Yes 💿	No O	To Mo	Commission Asses			
Hydric Soil Present?	Yes 💿	No O		Sampled Area n a Wetland?	Yes 💿 N	0	
Wetland Hydrology Present?	Yes 💿	No O					
Remarks: (Explain alternative p	ocedures here	or in a separate report	: .)				
No digging on mainline, active b	uried utilities.						
Hydrology							
Wetland Hydrology Indicators:					Secondary In	dicators (minim	um of 2 required)
Primary Indicators (minimum of	one required;	check all that apply)			Surface S	Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leave	es (B9)			Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)	, ,			m Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				on Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Oc				Burrows (C8)	(,
Sediment Deposits (B2)		Oxidized Rhizospher		Roots (C3)	_		rial Imagery (C9)
Drift deposits (B3)		Presence of Reduced		110013 (00)		or Stressed Plan	
Algal Mat or Crust (B4)		Recent Iron Reduction		s (C6)		ohic Position (D2	• •
☐ Iron Deposits (B5)		Thin Muck Surface (3 (00)	_ '	Aquitard (D3)	-7
Inundation Visible on Aerial Imag	erv (B7)		•			ographic Relief	(D4)
Sparsely Vegetated Concave Surf		Other (Explain in Re	emarks)		✓ FAC-neu	• .	(04)
sparsory regulated constant can.	400 (20)				TAC fied	irai rest (DS)	
Field Observations:							
Surface Water Present? Yes		Depth (inches):	0				
Water Table Present? Yes	O No 💿	Depth (inches): _	0			, (. O
Saturation Present? (includes capillary fringe) Yes	○ No ●	Depth (inches):	0	Wetland Hydi	rology Preser	nt? Yes	No O
Describe Recorded Data (stream	gauge, monito	oring well, aerial photos	, previous ins	pections), if avail	lable:		
			•				
Remarks:							

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	Sampling Point: w-48n17w16-d2			
(0) (1 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:5 (A)
2	0			Total Number of Deminant
3	0			Total Number of Dominant Species Across All Strata: 5 (B)
4				
5			-	Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove	-	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		- rotar cove	•	0BL speci es40 x 1 =40
1 _ Alnus incana	70	✓	FACW	FACW species 140 x 2 = 280
2. Salix petiolaris	20	✓	FACW	
3	0		-	FAC species $0 \times 3 = 0$
4				FACU species $0 \times 4 = 0$
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: <u>180</u> (A) <u>320</u> (B)
-				Dravalance Index P/A 1.770
7		= Total Cove		Prevalence Index = B/A = 1.778
Herb Stratum (Plot size: 5	90 =	- rotal Cove	•	Hydrophytic Vegetation Indicators:
	30	✓	FACW	Rapid Test for Hydrophytic Vegetation
0.04		✓	OBL	✓ Dominance Test is > 50%
		✓		✓ Prevalence Index is ≤3.0 ¹
3. Onoclea sensibilis			FACW	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			1
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2.				
•		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				greater than 5.25 it (iiii) tail
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 Cove		
			-	
				Hydrophytic
				Vegetation Present? Yes No
				Present? Yes No V
Remarks: (Include photo numbers here or on a separate sl	neet.)			

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

Soil Sampling Point: w-48n17w16-d2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix			lox Featu					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks	
				-					
				-					
				-					
¹ Type: C=Cond	entration. D=Depletion	n. RM=Redu	uced Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=M	atrix	
Hydric Soil I	ndicators:						Indicators for Broke	ematic Hydric Soils: 3	
Histosol (A			Polyvalue Belov	/ Surface ((S8) (LRR R	,			
Histic Epip	•		MLRA 149B)		,			(LRR K, L, MLRA 149B)	
Black Histi			☐ Thin Dark Surfa	ce (S9) (I	LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)	
	Sulfide (A4)		Loamy Mucky M	lineral (F1) LRR K, L)			or Peat (S3) (LRR K, L, R)	
	_ayers (A5)		Loamy Gleyed N	Matrix (F2))		Dark Surface (S7)		
	Below Dark Surface (A1	1)	Depleted Matrix	(F3)				urface (S8) (LRR K, L)	
	Surface (A12)	1)	Redox Dark Sur				Thin Dark Surface		
			Depleted Dark S		7)		Iron-Manganese M	lasses (F12) (LRR K, L, R)	
_	ck Mineral (S1)		Redox Depressi		,			in Soils (F19) (MLRA 149B)	
	yed Matrix (S4)			,) (MLRA 144A, 145, 149B)	
Sandy Rec							Red Parent Materia	al (F21)	
Stripped N							Very Shallow Dark	Surface (TF12)	
☐ Dark Surfa	ace (S7) (LRR R, MLRA	149B)					Other (Explain in F	Remarks)	
³ Indicators of	hydrophytic vegetation	and wetla	nd hydrology must be p	resent, un	less disturb	ed or proble	ematic.		
	yer (if observed):								
Type:	iyei (ii observeu).								
							Hydric Soil Present?	Yes ● No ○	
Depth (inch	ies):						,	100 - 110 -	
Remarks:									
No digging po	tential buried utilitie	es. soils as	sumed hydric based	on veget	tation and	hydrology			