WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Ci	ity/County:	Carlton		Sampling	Date: 16-Sep-17
Applicant/Owner: Enbridge				State: MN	Samplii	ng Point:	w-48n17w16-b2
Investigator(s): SMR			Section, To	wnship, Range:	s. 16 t	. 48N	R. 17W
Landform (hillslope, terrace, etc.):	Lowland	Lo	•	oncave, convex, n		e	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46	5 38.8480	Long	-92 30.262	7	Datum: NAD 83
Soil Map Unit Name: 533					-	sification:	
Are climatic/hydrologic conditions or	the site ty	oical for this time of yea	ır? Yes	s • No O	— (If no, explain	in Remarks.)
Are Vegetation \Box , Soil \Box	, or Hydrold				Circumstances		Yes ● No ○
	, or Hydrold				explain any ans	•	auke)
Summary of Findings - Att				` '	-		•
Hydrophytic Vegetation Present?	Yes	No O				-	·
Hydric Soil Present?		No O		Sampled Area a Wetland?	Yes No	0	
Wetland Hydrology Present?		No O	WILIII	1 a weuanur	100	0	
Remarks: (Explain alternative proc			`				
Hydrology							
Wetland Hydrology Indicators:					Cocondary Indic	estore (minimu	m of 2 required)
Primary Indicators (minimum of one	e required;	check all that apply)				cators (minimu Il Cracks (B6)	m of 2 required)
Surface Water (A1)		Water-Stained Leaves	s (B9)			atterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)	- (Moss Trim		
Saturation (A3)		Marl Deposits (B15)			Dry Season	Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odd			Crayfish Bu		
Sediment Deposits (B2)		Oxidized Rhizosphere		Roots (C3)			al Imagery (C9)
Drift deposits (B3)		Presence of Reduced				Stressed Plant	, ,
Algal Mat or Crust (B4) Iron Deposits (B5)		Recent Iron Reductio		s (C6)	✓ Geomorphic Shallow Aqu	c Position (D2)	
Inundation Visible on Aerial Imagery	(B7)	☐ Thin Muck Surface (C	•			uitaru (D3) raphic Relief (D4)
Sparsely Vegetated Concave Surface		Other (Explain in Ren	пагкъ)		FAC-neutra		5 1,
Field Observations:							
Surface Water Present? Yes	No 💿	Depth (inches):	0				
Water Table Present? Yes	No 💿	Depth (inches):	0			_	_
Saturation Present? (includes capillary fringe) Yes		Depth (inches):	0	Wetland Hydr	ology Present?	Yes •	No O
Describe Recorded Data (stream gal	uge, monito	ring well, aerial photos,	previous ins	pections), if avail	able:		
Remarks:							

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	ants			Sampling Point: w-48n17w16-b2
(Dist size, 20	Absolute	Dominant Species?	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				Species Across All Strata:
4				
5	0			Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cove	r	Total % Cover of: Multiply by:
1 Salix petiolaris	20	✓	FACW	0BL speci es 30 x 1 = 30
2				FACW species 90 x 2 = 180
				FAC species $0 \times 3 = 0$
3				FACU species x 4 =0
4				UPL species $0 \times 5 = 0$
5				Column Totals: 120 (A) 210 (B)
6				
7				Prevalence Index = B/A = 1.750
Herb Stratum (Plot size: 5	=	Total Cove	r	Hydrophytic Vegetation Indicators:
			54014	Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea			FACW	✓ Dominance Test is > 50%
2. Calamagrostis canadensis			OBL	Prevalence Index is ≤3.0 ¹
3. Onoclea sensibilis		✓	FACW	Morphological Adaptations ¹ (Provide supporting
4. Solidago gigantea			FACW	data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				
Z.,	-	□ : Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30		- rotal cove		greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2				size, and woody plants less than 3.28 ft tall.
3				Woody vine. All woody vines greater than 2.29 ft in
4				Woody vine - All woody vines greater than 3.28 ft in height.
Т.,	0 =	Total Cove		l nongri
		· Iotal Cove		
				Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: w-48n17w16-b2

(inches)	Matrix		Redox Features			
(IIICIICS)	Color (moist) 9	6 Color (mois	t) % <u>Type</u> 1	Loc ²	Texture	Remarks
1 Type: C=Con(centration. D=Depletion. RM	=Reduced Matrix CS=C	overed or Coated Sand Gra	ins 2l ocati	on: PL=Pore Lining M=Ma	atrix
Hydric Soil I		-reduced Matrix, 65-6	overeu or couled outla cre	iiii Locati		
Histosol (A		Polyvalue	Below Surface (S8) (LRR R			matic Hydric Soils: 3
	pedon (A2)	MLRA 149		ı		LRR K, L, MLRA 149B)
Black Histi		☐ Thin Dark	Surface (S9) (LRR R, MLR	A 149B)		(A16) (LRR K, L, R)
	Sulfide (A4)	Loamy Mu	icky Mineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)		eyed Matrix (F2)		Dark Surface (S7)	
	Below Dark Surface (A11)		Matrix (F3)			rface (S8) (LRR K, L)
	k Surface (A12)	Redox Da	rk Surface (F6)		Thin Dark Surface	
	ck Mineral (S1)	Depleted	Dark Surface (F7)			asses (F12) (LRR K, L, R)
_	eyed Matrix (S4)		pressions (F8)			n Soils (F19) (MLRA 149B)
Sandy Red						(MLRA 144A, 145, 149B)
					Red Parent Materia	
Stripped N	Matrix (SA)				Very Shallow Dark	Surface (TF12)
Stripped N)				
☐ Dark Surfa	ace (S7) (LRR R, MLRA 149B				Other (Explain in R	
☐ Dark Surfa			be present, unless disturb	ed or probler	Other (Explain in R	
Dark Surfa	ace (S7) (LRR R, MLRA 149B		be present, unless disturb	ed or probler	Other (Explain in R	
Dark Surfa	ace (S7) (LRR R, MLRA 149B hydrophytic vegetation and		be present, unless disturb	ed or probler	Other (Explain in R	emarks)
Dark Surfa 3 Indicators of Restrictive La	ace (S7) (LRR R, MLRA 149B hydrophytic vegetation and ayer (if observed):		be present, unless disturb	ed or probler	Other (Explain in R	
Dark Surfa 3 Indicators of Restrictive La Type: Depth (inch	ace (S7) (LRR R, MLRA 149B hydrophytic vegetation and ayer (if observed):		be present, unless disturb	ed or probler	Other (Explain in R	emarks)
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