WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City	//County:	Carlton		Samplin	g Date: 15-Sep-17
Applicant/Owner: Enbridge				State: MN		Sampling Point:	w-48n17w8-b1
Investigator(s): SMR		!	Section, Tov	vnship, Range:	s. 8	T. 48N	R. 17W
Landform (hillslope, terrace, etc.)	: Lowland		•	icave, convex, n		concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	Κ	Lat.: 46 3	39.4018	Long	92- ::	31.4786	Datum: NAD 83
Soil Map Unit Name: 355C					N	WI classification:	N/A
Are climatic/hydrologic condition	s on the site ty	pical for this time of year?	Yes	● No ○	— (If no,	explain in Remarks	s.)
Are Vegetation \Box , Soil \Box	, or Hydrol					stances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrol					any answers in Rer	narke)
Summary of Findings - A				• ,	-	-	•
Hydrophytic Vegetation Present?	Yes •	No O			-	<u> </u>	<u> </u>
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes	● No ○	
Wetland Hydrology Present?	Yes	No O	Within	a weuanur	100	- 110	
Remarks: (Explain alternative p							
Hydrology							
Wetland Hydrology Indicators:					Second	lary Indicators (minim	um of 2 required)
Primary Indicators (minimum of	one required;	check all that apply)				rface Soil Cracks (B6)	uni oi z reguirea,
✓ Surface Water (A1)		Water-Stained Leaves ((B9)			ainage Patterns (B10)	
✓ High Water Table (A2)		Aquatic Fauna (B13)				oss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				y Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odor				ayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres		oots (C3)		turation Visible on Aer	0 3 . ,
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduced Ir		/= /\		unted or Stressed Plar comorphic Position (D2	• •
Iron Deposits (B5)		Recent Iron Reduction i		(C6)		allow Aquitard (D3)	2)
Inundation Visible on Aerial Ima	gery (B7)	☐ Thin Muck Surface (C7) ☐ Other (Explain in Rema				crotopographic Relief	(D4)
Sparsely Vegetated Concave Sur		U Other (Explain in Remai	ii KS)		_	C-neutral Test (D5)	(- ')
Field Observations:							
Surface Water Present? Yes	● No ○	Depth (inches):	3				
Water Table Present? Yes	● No ○	Depth (inches):	0			_	
Saturation Present? (includes capillary fringe) Yes		Depth (inches):	0	Wetland Hydr	ology P	resent? Yes	No O
Describe Recorded Data (stream	gauge, monito	oring well, aerial photos, pr	revious insp	ections), if avail	able:		
Remarks:							

VEGETATION - Use scientific names of plants

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:3 (A)
2	0			
3				Total Number of Dominant
				Species Across All Strata: 3 (B)
4				Dercent of deminent Charles
5				Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
6	0			That Aic Obe, TAGW, of TAG.
7	0_			Prevalence Index worksheet:
		Total Cover	•	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				0BL species 90 x 1 = 90
1. Salix bebbiana	_10_	✓	FACW	
2				FACW species 20 x 2 = 40
3	-			FAC speciles x 3 =
				FACU species $0 \times 4 = 0$
4				UPL speci es $0 \times 5 = 0$
5				· ·
6	0			Column Totals: <u>110</u> (A) <u>130</u> (B)
7	0			Prevalence Index = B/A = 1.182
	10 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				
1 Scirpus cyperinus	40	✓	OBL	✓ Rapid Test for Hydrophytic Vegetation
2. Typha x glauca	40	<u> </u>	OBL	✓ Dominance Test is > 50%
			OBL	✓ Prevalence Index is ≤3.0 ¹
				Morphological Adaptations ¹ (Provide supporting
4. Phalaris arundinacea			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.
				Definitions of Vegetation Strata:
9				_
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(0)-1-1-20	100 =	Total Cover		greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				, ,
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.
To-	0 =	Total Cover		3 4
		- IOtal Covel		
				Hydrophytic Vegetation
				Present? Yes • No
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-48n17w8-b1

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

Soil Sampling Point: w-48n17w8-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			dox Featu				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc2	Texture	Remarks
							-	
							-	
							-	
			-	-				
				-				
N-				-				
1 Typo: C-Con	contration D_Donlation	DM_Poduc	od Matrix CS_Covere	od or Coato	d Sand Gra	ins 21 ocat	tion: PL=Pore Lining. M=M	atriv
		i. Kivi–Keduce	ed Matrix, C3=COVER	ed of Coale	u sanu Gra	iiis -Lucai		
Hydric Soil 1				6 6 (CO) (I DD D		Indicators for Proble	ematic Hydric Soils: 3
Histosol (·		Polyvalue Belov MLRA 149B)	v Surrace (58) (LRR R		2 cm Muck (A10) ((LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	ace (S9) (L	.RR R. MLR	A 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black Hist			Loamy Mucky I			,	5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed				Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)	1)	Depleted Matri:				Polyvalue Below Si	urface (S8) (LRR K, L)
	Below Dark Surface (A1	1)	Redox Dark Su				Thin Dark Surface	
	k Surface (A12)		☐ Depleted Dark		")			lasses (F12) (LRR K, L, R)
	ick Mineral (S1)		Redox Depress		,			in Soils (F19) (MLRA 149B)
	eyed Matrix (S4)			,			Mesic Spodic (TA6)) (MLRA 144A, 145, 149B)
Sandy Re							Red Parent Materia	
	Matrix (S6)	4.400)					Very Shallow Dark	
	ace (S7) (LRR R, MLRA						✓ Other (Explain in R	Remarks)
³ Indicators of	f hydrophytic vegetation	and wetland	hydrology must be p	resent, unl	ess disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (inc	hes):						Hydric Soil Present?	Yes No
Remarks:								
No digging of	n mainline, active bu	ried utilities	soils assumed ny	dric based	on veget	tation and	nydrology.	