## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: St. Louis	Sampli	ng Date: 14-Sep-17
Applicant/Owner: Enbridge		State:	MN Sampling Point:	w-50n19w21-c1
Investigator(s): SMR		Section, Township, Range	e: <b>S.</b> 21 <b>T.</b> 50N	<b>R.</b> 19W
Landform (hillslope, terrace, etc.): Lo	wland	Local relief (concave, convex		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.:	46 48.3647 <b>L</b> c	ong.: -92 45.2366	Datum: NAD 83
Soil Map Unit Name: F170A			NWI classification:	PSSB
Are climatic/hydrologic conditions on the	he site typical for this time of ye	ear? Yes   No	(If no, explain in Remark	(s.)
			nal Circumstances" present?	·
			d, explain any answers in Re	
Summary of Findings - Atta		•		•
	res ● No ○		•	
Hydric Soil Present?	res ● No ○	Is the Sampled Area within a Wetland?	Yes ● No ○	
_	res ● No O	Within a Wenand:	100 - 1.0	
Remarks: (Explain alternative proced	ures here or in a separate repo	rt.)		
Hydrology				
Wetland Hydrology Indicators:			Secondary Indicators (minir	num of 2 required)
Primary Indicators (minimum of one r	required; check all that apply)		Surface Soil Cracks (B6	
Surface Water (A1)	Water-Stained Leav	ves (B9)	Drainage Patterns (B10	)
✓ High Water Table (A2)	Aquatic Fauna (B13		Moss Trim Lines (B16)	
Saturation (A3)	☐ Marl Deposits (B15		Dry Season Water Tabl	e (C2)
Water Marks (B1)  Sodiment Denosits (B2)	☐ Hydrogen Sulfide C		Crayfish Burrows (C8)	(00)
Sediment Deposits (B2)  Drift deposits (B3)	_	eres along Living Roots (C3)	Saturation Visible on Ae  Stunted or Stressed Pla	
Algal Mat or Crust (B4)	Presence of Reduc	ed Iron (C4) ction in Tilled Soils (C6)	Geomorphic Position (D	• •
Iron Deposits (B5)	Thin Muck Surface	` '	Shallow Aquitard (D3)	<i>,</i> (2)
Inundation Visible on Aerial Imagery (E		` '	Microtopographic Relief	f (D4)
Sparsely Vegetated Concave Surface (E		Cilia kaj	FAC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes   •	No O Depth (inches):	3		
Water Table Present? Yes	No O Depth (inches):	0		
Saturation Present? (includes capillary fringe) Yes   Yes	No O Depth (inches):	Wetland H	ydrology Present? Yes	No O
Describe Recorded Data (stream gaug	e, monitoring well, aerial photo	os, previous inspections), if a	vailable:	
Remarks:				
Remarks.				

## **VEGETATION - Use scientific names of plants**

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(2)	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:5(A)
2	0			Total Number of Dominant
3	0			Species Across All Strata:5(B)
4	0			
5	0			Percent of dominant Species That Are OBL_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:
4 Cally natiologia	10		FACW	OBL speci es 100 x 1 = 100
O. Alnus income		<b>✓</b>	FACW	FACW species <u>80</u> x 2 = <u>160</u>
O. Cally habblana	20	<b>∨</b>	FACW	FAC speciles x 3 =0
			TACW	FACU species $0 \times 4 = 0$
4			-	UPL speci es $0 \times 5 = 0$
5				Column Totals: 180 (A) 260 (B)
6	=		-	
7				Prevalence Index = B/A = 1.444
Herb Stratum (Plot size: 5	80 =	= Total Cove	r	Hydrophytic Vegetation Indicators:
	20		ODI	✓ Rapid Test for Hydrophytic Vegetation
1 Scirpus cyperinus		<b>V</b>	OBL	✓ Dominance Test is > 50%
2. Carex lacustris		<b>✓</b>	OBL	✓ Prevalence Index is ≤3.0 <sup>1</sup>
3. Calamagrostis canadensis		<b>✓</b>	OBL	Morphological Adaptations <sup>1</sup> (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6	0			
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12				Continue to Mandy plants loop than 2 in DDI and
		= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30 )				
1				Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cove	r	
				Hydrophytic
				Vegetation   Present?
Barrada (7 dada da batarrada da barrada da b				
Remarks: (Include photo numbers here or on a separate she	eet. <i>)</i>			

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-50n19w21-c1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Depth Matrix Redox Features				_			
(inches)	Color (moist	:) %	Color (moist)	<u>%</u>	Type 1	Loc2	Texture	Remarks
0-24	10YR 2/	1 100					Muck	
							-	
				-			-	
							-	
				-				
				-				
		letion. RM=Redu	uced Matrix, CS=Covere	d or Coate	d Sand Gra	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil I	ndicators:			<del></del>		<del></del>	Indicators for Proble	ematic Hydric Soils: 3
✓ Histosol (A	A1)		Polyvalue Below	/ Surface (	S8) (LRR R	.,		LRR K, L, MLRA 149B)
Histic Epip	oedon (A2)		MLRA 149B)					x (A16) (LRR K, L, R)
☐ Black Histi	ic (A3)		☐ Thin Dark Surfa					r Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Mucky N				Dark Surface (S7)	
Stratified I	Layers (A5)		Loamy Gleyed N					urface (S8) (LRR K, L)
Depleted I	Below Dark Surface	e (A11)	Depleted Matrix				Thin Dark Surface	
☐ Thick Dark	k Surface (A12)		Redox Dark Sur					asses (F12) (LRR K, L, R)
Sandy Mu	ck Mineral (S1)		Depleted Dark S		7)			in Soils (F19) (MLRA 149B)
Sandy Gle	yed Matrix (S4)		Redox Depressi	ons (F8)				) (MLRA 144A, 145, 149B)
Sandy Red	dox (S5)						Red Parent Materia	
Stripped N	Matrix (S6)						Very Shallow Dark	
☐ Dark Surfa	ace (S7) (LRR R, M	ILRA 149B)					Other (Explain in R	
<sup>3</sup> Indicators of	hvdronhytic veget	ation and wetla	nd hydrology must be p	resent unl	ess disturb	ed or proble		onano,
			id flydrology mast be p	reserie, urii	ess distain	ed or proble	ematic.	
	ayer (if observed	1):						
Type:							Hydric Soil Present?	Yes ● No ○
Depth (inch	nes):						Trydric Son Fresent:	res © NO C
Remarks:								