## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis		Sa	mpling Date: 15-Sep-17
Applicant/Owner: Enbridge		State: MN	1	Sampling Poi	int: w-50n19w17-f2
Investigator(s): SMR	Section, To	ownship, Range:	<b>S.</b> 17	<b>T.</b> 50N	<b>R.</b> 19W
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex, n	one):	concave	Slope: <u>0.0</u> % / <u>0.0</u>
Subregion (LRR or MLRA): LRR K	at.: 46 49.3736	Long	<b>J.:</b> -92	46.9145	Datum: NAD 83
Soil Map Unit Name: F137B			N	IWI classificat	tion: PEM/UBF
	icantly disturbed? ally problematic?	(If needed, o	Circum	explain in Re nstances" pres any answers ansects, in	sent? Yes • No ·
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland?	Yes	● <sub>No</sub> ○	
Remarks: (Explain alternative procedures here or in a separate	report.)				

## Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)						
Primary Indicators (minimum of one required;	check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1)	Water-Stained Leaves (B9)	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 Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)						
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)	Geomorphic Position (D2)							
Iron Deposits (B5)	Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)							
Sparsely Vegetated Concave Surface (B8)	FAC-neutral Test (D5)							
Field Observations:								
Surface Water Present? Yes $ullet$ No $igodot$	Depth (inches): <u>15</u>							
Water Table Present? Yes  No	Depth (inches): 0	drology Present? Yes 💌 No 🔿						
Saturation Present? Yes • No ·	Depth (inches): 0	drology Present? Yes $ullet$ No $igloodow$						
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections), if ava	ailable:						
Remarks:								

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

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(Plot cize: 30	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover		Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3 4				Species Across All Strata: (B)
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	= Total Cover		Total % Cover of: Multiply by:
	0			<b>OBL speciles</b> <u>100</u> <b>x 1</b> = <u>100</u>
1 2				FACW species $0 \times 2 = 0$
3				FAC species $0 \times 3 = 0$
4				FACU species $0 \times 4 = 0$
5				UPL species x 5 =
6				Column Totals: <u>100</u> (A) <u>100</u> (B)
7				Prevalence Index = $B/A = 1.000$
Herb Stratum (Plot size: 5)		= Total Cover		Hydrophytic Vegetation Indicators:
	-	_		Rapid Test for Hydrophytic Vegetation
1. Typha x glauca			OBL	✓ Dominance Test is > 50%
2. Scirpus cyperinus 3. Carex lacustris	20		OBL OBL	✓ Prevalence Index is ≤3.0 $^1$
				Morphological Adaptations <sup>1</sup> (Provide supporting
4 5				data in Remarks or on a separate sheet)
6				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: <u>30</u> )	100 =	= Total Cover		greater than 3.28 ft (1m) tall
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.
	=	= Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes Vo 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.

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	iption: (De		the depth	needed to d				ontirm the a	absence of indicators.)			
Depth <u>Matrix</u> (inches) Color (moist) %		%	<u> </u>				Loc <sup>2</sup>	Texture	Remarks			
0-3	10YR	2/1	100						Muck			
3-11	10YR	4/1	80	10YR	4/4	20	C		Sandy Clay Loam			
										·		
11-20	10YR	5/1	80	10YR	4/6	20	C		Sandy Clay Loam			
					-		_					
					-							
										P		
Type: C=Con	centration. D	)=Depletio	on. RM=Red	uced Matrix, C	S=Cover	ed or Coate	ed Sand G	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=N	latrix		
Hydric Soil 1	Indicators:								Indicators for Drohl	ematic Hydric Soils : <sup>3</sup>		
Histosol (				Polyv	alue Belo	w Surface	(S8) (LRR	R,	_			
Histic Epi	pedon (A2)			MLŔA	A 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Black Hist	tic (A3)				Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) LRR K, L)				Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M)			
Hydrogen	n Sulfide (A4)							)				
	Layers (A5)				Loamy Gleyed Matrix (F2)				Polyvalue Below Surface (S8) (LRR K, L)			
	Below Dark S		411)		Depleted Matrix (F3)				Thin Dark Surface (S9) (LRR K, L)			
	k Surface (A			Redox Dark Surface (F6)				Iron-Manganese Masses (F12) (LRR K, L, R)				
	uck Mineral (S			Depleted Dark Surface (F7)     Redox Depressions (F8)				Piedmont Floodplain Soils (F19) (MLRA 149B)				
-	eyed Matrix (	[S4)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy Re								Red Parent Material (F21)     Very Shallow Dark Surface (TF12)				
	Matrix (S6) ace (S7) (LRI		A 140D)									
									Other (Explain in I	Remarks)		
<sup>3</sup> Indicators of	f hydrophytic	: vegetatio	on and wetla	and hydrology	must be	present, un	nless distur	bed or proble	ematic.			
Restrictive L	ayer (if obs	erved):										
Туре:									Hydric Soil Present?	Yes $ullet$ No $igcap$		
Depth (inc	hes):								Hydric Soll Present?	Yes 🔍 No 🔾		
Remarks:												