## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplir	Sampling Date: 13-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-50n20w1-c1	
Investigator(s): SMR	Section, T	ownship, Range: S. 1	<b>T.</b> 50N	<b>R.</b> 20W	
Landform (hillslope, terrace, etc.): Lowland	Local relief (d	concave, convex, none):	concave	Slope: <u>0.0</u> % / <u>0.0</u> °	
Subregion (LRR or MLRA): LRR K	at.: 46 50.5131	<b>Long.:</b> -92	48.9383	Datum: NAD 83	
Soil Map Unit Name: B118A	<u>.</u>	7	WI classification:	PSSB	
	icantly disturbed? ally problematic? <b>1g sampling p</b>	Are "Normal Circun (If needed, explain point locations, tra	any answers in Re	-	
Hydrophytic Vegetation Present?       Yes ●       No ○         Hydric Soil Present?       Yes ●       No ○         Wetland Hydrology Present?       Yes ●       No ○		e Sampled Area in 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)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)						
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)							
Sparsely Vegetated Concave Surface (B8)	Uther (Explain in Remarks)	FAC-neutral Test (D5)						
Field Observations:								
Surface Water Present? Yes O No 🖲	Depth (inches): 0							
Water Table Present? Yes O No 🖲	Depth (inches):0	rdrology Present? Yes 🖲 No 🖯						
Saturation Present? Yes O No •	Wetland Hy           Depth (inches):         0	vdrology Present? Yes 🔍 No 🔾						
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections), if av	ailable:						
Remarks:								

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

VEGETATION - Use scientific names of plai	Sampling Point: w-50n20w1-c1			
	Absolute	O	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: $100.0\%$ (A/B)
6	0			Prevalence Index worksheet:
7		= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL speciles         70         x 1 =         70
1	0			<b>FACW species</b> $30 \times 2 = 60$
2				FAC species $0 \times 3 = 0$
3				-
4	0			FACU species x 4 = UPL species x 5 =
5	0			
6	0			Column Totals: <u>100</u> (A) <u>130</u> (B)
7	0			Prevalence Index = $B/A = 1.300$
Herb Stratum (Plot size: <u>5</u> )	=	= Total Cover		Hydrophytic Vegetation Indicators:
	20			Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea 2. Calamagrostis canadensis	<u>20</u> 40		FACW OBL	✓ Dominance Test is > 50%
	30		OBL	✓ Prevalence Index is ≤3.0 $^1$
	10		FACW	Morphological Adaptations <sup>1</sup> (Provide supporting
4. <i>Symphyotrichum novae-angliae</i> 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				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				Sanling/ohrub Woody plants less than 2 in DPH and
		= Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30 )	_			
1	0			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		= Total Cover		noight.
				Hydrophytic
				Vegetation Present? Yes • No ·
Remarks: (Include photo numbers here or on a separate she	et.)			
······································	,			

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

US Army Corps of Engineers

Profile Descr	ription: (De	scribe to	the depth	needed to d	locumen	t the indic	ator or co	onfirm the	absence of indicators.)			
Depth <u>Matrix</u>			Redox Features									
(inches)	Color (		<u>%</u>	Color (	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4	10YR	2/1	100						Muck			
4-15	10YR	4/1	70	10YR	4/4	30	C	M	Sandy Loam			
15-20	10YR	4/3	100						Sand			
									-			
		-				-						
		<u>.</u>			<u>-</u>							
<sup>1</sup> Type: C=Con	centration. D	=Depletic	on. RM=Red	uced Matrix, (	CS=Cover	ed or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=	Matrix		
Hydric Soil 1	Indicators:								Indicators for Prot	plematic Hydric Soils : <sup>3</sup>		
🗌 Histosol (	A1)					w Surface	(S8) (LRR F	<b>R</b> ,				
Histic Epi	pedon (A2)				MLRA 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hist	tic (A3)			_	Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) LRR K, L)				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	n Sulfide (A4)					Mineral (F1 Matrix (F2)			<ul> <li>Dark Surface (S7) (LRR K, L, M)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> </ul>			
	Layers (A5)	/.			eted Matr		)					
	Below Dark S		(11)			urface (F6)						
	k Surface (A					Surface (F	7)					
	uck Mineral (S eyed Matrix (S					sions (F8)	,		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Ge		34)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Matrix (S6)								Red Parent Material (F21)     Very Shallow Dark Surface (TF12)			
	ace (S7) (LRI	R R, MLRA	A 149B)						Other (Explain in			
<sup>3</sup> Indicators o	f bydronbytic	vegetatio	on and wetla	ind hydrology	must ha	nresent un	lass distur	and or probl				
			in and weat	ind right ology	indst be	present, un						
Restrictive L Type:	ayer (if obs	ervea):										
Depth (inc	hos).								Hydric Soil Present?	Yes $ullet$ No $igcap$		
•	iies).											
Remarks:												