## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampling Date: 14-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-50n19w17-e1
Investigator(s): SMR	Section, T	ownship, Range: S. 17	<b>T.</b> 50N	<b>R.</b> 19W
Landform (hillslope, terrace, etc.): Hillside	Local relief (c	oncave, convex, none):	convex	Slope: 21.2 % / 12.0
Subregion (LRR or MLRA): LRR K Lat.:	46 49.0274	<b>Long.:</b> -92	2 46.2523	Datum: NAD 83
Soil Map Unit Name: F137B	-	1	WI classification:	N/A
Are Vegetation, Soil, or Hydrology naturally Summary of Findings - Attach site map showing	problematic? sampling p	(If needed, explain oint locations, tra	-	
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 rep	ort.)			

## 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 I					
Drift deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils					
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imager	ry (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)				
Field Observations:							
Surface Water Present? Yes	🔾 No 🖲	Depth (inches): 0					
Water Table Present? Yes	🔾 No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes 🔿 No 🖲				
Saturation Present? Yes No  Depth (inches):			Wetland Hydrology Present? Yes 🔾 No 🖲				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

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

vegeration - use scientific names of plai	Sampling Point: u-50n19w17-e1			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% 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: $25.0\%$ (A/B)
6 7	0			Prevalence Index worksheet:
		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species         0         x 1 =         0
1	0			FACW species $20 \times 2 = 40$
2	0			FAC species $0 \times 3 = 0$
3	0			FACU species $80 \times 4 = 320$
4	0			UPL species $0 \times 5 = 0$
5	-			•
6				Column Totals: <u>100</u> (A) <u>360</u> (B)
7				Prevalence Index = $B/A = 3.600$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
1. Phieum pratense	40	$\checkmark$	FACU	Rapid Test for Hydrophytic Vegetation
	20	V	FACU	Dominance Test is > 50%
	20		FACU	<b>Prevalence Index is <math>\leq</math> 3.0</b> <sup>1</sup>
3. Lotus corniculatus 4. Phalaris arundinacea	20		FACW	Morphological Adaptations <sup>1</sup> (Provide supporting
5				data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6	0			
7	0			<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	0			at breast height (DBH), regardless of height.
12	0			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
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0			size, and woody plants less than 3.28 ft tall.
23	0			
4	0			Woody vine - All woody vines greater than 3.28 ft in height.
т	0 =	Total Cover		
				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 Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth		Matrix			dox Featu			_	
(inches)	Color (		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR	3/4	100					Sandy Clay Loam	
8-20	10YR	4/4	100					Sandy Clay Loam	
-									
	1- 1-		-				-	·	
					-	-			
-	-	-	-		-	-			
	1- 1-		-				-		
<sup>1</sup> Type: C=Cor	ncentration. D	D=Depletic	on. RM=Red	uced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins <sup>2</sup> Loca	ation: PL=Pore Lining. M=Matrix	
Hydric Soil	Indicators:							Indicators for Problemati	ic Hydric Soils : <sup>3</sup>
Histosol (	(A1)			Polyvalue Belov	w Surface (	(S8) (LRR R	,	2 cm Muck (A10) (LRR I	
🗌 Histic Epi	ipedon (A2)			MLRA 149B)				Coast Prairie Redox (A1)	
Black His	tic (A3)			Thin Dark Surfa			A 149B)	5 cm Mucky Peat or Pea	
Hydroger	n Sulfide (A4)	)		Loamy Mucky I				Dark Surface (S7) (LRR	
Stratified	Layers (A5)			Loamy Gleyed				Polyvalue Below Surface	
	Below Dark		.11)	Depleted Matri				Thin Dark Surface (S9)	
Thick Dai	rk Surface (A	12)		Redox Dark Su		-		Iron-Manganese Masses	
Sandy Mu	uck Mineral (	S1)		Depleted Dark		/)		Piedmont Floodplain Soi	
	eyed Matrix (	(S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (ML	
Sandy Re								Red Parent Material (F2	1)
	Matrix (S6)							Very Shallow Dark Surfa	ice (TF12)
Dark Sur	face (S7) (LR	R R, MLRA	A 149B)					Other (Explain in Remar	ks)
<sup>3</sup> Indicators o	of hydrophytic	c vegetatio	on and wetla	nd hydrology must be p	present, un	less disturb	ed or proble	ematic.	
Restrictive L	aver (if obs	served):							
Type:									
Depth (inc	ches):							Hydric Soil Present? Ye	es 🔿 No 🖲
Remarks:									
Nernarks.									