## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplii	ng Date: 13-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-50n20w2-a2
Investigator(s): PJK	Section, T	ownship, Range: S. 2	<b>T.</b> 50N	<b>R.</b> 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex, none):	concave	Slope: <u>0.0</u> % / <u>0.0</u> °
Subregion (LRR or MLRA): LRR K Lat.:	46 51.997	<b>Long.:</b> -92	2 50.0620	Datum: NAD 83
Soil Map Unit Name: B127B			WI classification:	N/A
Are Vegetation , Soil , or Hydrology naturally Summary of Findings - Attach site map showing	ntly disturbed? problematic? sampling p		any answers in Re	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area in a Wetland? Yes	● <sub>No</sub> ○	
Remarks: (Explain alternative procedures here or in a separate rep No digging on pipeline, active buried utilities.	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 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)	Other (Explain in Remarks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		✓ FAC-neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes O No O	Depth (inches): 0					
Water Table Present? Yes O No 🖲	Depth (inches):0	ydrology Present? Yes 💿 No 🔾				
Saturation Present? Yes O No O	Wetland Hy Depth (inches): 0	ydrology Present? Yes 🔍 No 🔾				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

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

VEGETATION - Ose scientific names of pla	Sampling Point: w-50n20w2-a2			
	Absolute		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:5_(A)
2				Total Number of Dominant
3				Species Across All Strata: <u>5</u> (B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	0 =	Total Cover		Total % Cover of: Multiply by:
	E		FACW	OBL species60 x 1 =60
			TACW	FACW species30 x 2 =60
2	-			FAC species15 x 3 =45
3	-			FACU species $0 \times 4 = 0$
4	-			UPL species $0 \times 5 = 0$
5				Column Totals:(A)(B)
6				
7				Prevalence Index = $B/A = 1.571$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
	25	$\checkmark$	OBL	Rapid Test for Hydrophytic Vegetation
		<ul><li>✓</li></ul>	OBL	$\checkmark$ Dominance Test is > 50%
			FACW	✓ Prevalence Index is ≤3.0 $^1$
			OBL	Morphological Adaptations <sup>1</sup> (Provide supporting
	15		FAC	data in Remarks or on a separate sheet)
5. Panicum capillare	10			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6. Onoclea sensibilis	-		FACW	$^1$ Indicators of hydric soil and wetland hydrology must
7. Symphyotrichum novae-angliae			FACW	be present, unless disturbed or problematic.
8				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				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )	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			Monthanian Allowed to incompation there 0.00 ft is
5	0			Woody vine - All woody vines greater than 3.28 ft in height.
4	0 =	Total Cover		
				Hydrophytic
				Vegetation Present? Yes • No ·
				Present? 105 0 110 0
Remarks: (Include photo numbers here or on a separate she	eet.)			

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

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix			dox Featu			·	<b>-</b> .
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
							<u>1</u>	
							<u></u>	
				-				
-			-	-	-	-		
	. <u> </u>	······						
<sup>1</sup> Type: C=Cor	centration. D=Depletion	. RM=Reduce	d Matrix, CS=Covere	ed or Coate	ed Sand Gra	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=N	latrix
Hydric Soil							-	ematic Hydric Soils : <sup>3</sup>
Histosol			Polyvalue Belov	N Surface (	(S8) (I RR P	2.		
	ipedon (A2)		MLRA 149B)			- 1		(LRR K, L, MLRA 149B)
Black His			Thin Dark Surfa	ace (S9) (l	LRR R, MLR	A 149B)	_	ox (A16) (LRR K, L, R)
			Loamy Mucky I				5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed				Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)	•	Depleted Matrix				Polyvalue Below S	Surface (S8) (LRR K, L)
	Below Dark Surface (A1	1)	Redox Dark Su				Thin Dark Surface	e (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark		7)		Iron-Manganese I	Masses (F12) (LRR K, L, R)
	uck Mineral (S1)				/)		Piedmont Floodpl	ain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depress	10HS (F8)			Mesic Spodic (TA	5) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Parent Mater	
Stripped	Matrix (S6)						Very Shallow Darl	
Dark Sur	face (S7) (LRR R, MLRA	149B)					✓ Other (Explain in	
<sup>3</sup> Indicators of	f hydrophytic vegetation	and wotland	hydrology must be r	vrosont un	loce disturb	od or proble		(Contained)
			nyarology mast be p	nesent, un				
Restrictive I	ayer (if observed):							
Туре:							Ubuduia Cail Duasanta	× • •
Depth (ind	ches):						Hydric Soil Present?	Yes 🔍 No 🔾
Remarks:								
No digging o	n pipeline, active bur	ied utilities	Soils assumed by	dric based	1 on veget	tation and	hydrology	
No algging c		icu utilitics.			i on vege		nyarology.	