## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplir	Sampling Date: 12-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n20w27-f1	
Investigator(s): PJK	Section, T	ownship, Range: S. 27	<b>T.</b> 51N	<b>R.</b> 20W	
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0 °	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.2033	<b>Long.:</b> -92	2 51.5243	Datum: NAD 83	
Soil Map Unit Name: GP	-	<u> </u>	WI classification:	N/A	
	nificantly disturbed? curally problematic? ving sampling p	(If needed, explain	nstances" present? any answers in Re ansects, impo	-	
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 separa	te report.)				

## Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; of	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   No	Depth (inches): 3	
Water Table Present? Yes   No	Depth (inches): 0	drology Present? Yes 💿 No 🔾
Saturation Present? Yes  No	Depth (inches): 0	drology Present? Yes • No 🔾
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if av	ailable:
Remarks:		

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

vegeration - use scientific names of plai	its			Sampling Point: w-51n20w27-f1
	Absolute	Dominant	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: <u>100.0%</u> (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )		Total Cover		Total % Cover of: Multiply by: OBL species 115 x 1 = 115
1	0			
2	0			FACW species $0 \times 2 = 0$
3				FAC species $0 \times 3 = 0$
4				FACU species $0 \times 4 = 0$
5	0			UPL species $0 \times 5 = 0$
6	0			Column Totals: <u>115</u> (A) <u>115</u> (B)
7				Prevalence Index = B/A = 1.000
Herb Stratum (Plot size: 5)	0 =	Total Cover		Hydrophytic Vegetation Indicators:
	-	_		✓ Rapid Test for Hydrophytic Vegetation
1. Typha x glauca			OBL	✓ Dominance Test is > 50%
2. Scirpus cyperinus			OBL	$\checkmark$ Prevalence Index is $\leq$ 3.0 <sup>1</sup>
3. Carex stricta	20		OBL	Morphological Adaptations <sup>1</sup> (Provide supporting
4. Alisma subcordatum			OBL	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7				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 at breast height (DBH), regardless of height.
11				
12		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 )				greater than 5.20 ft (111) tail
1	0			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.
	=	Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes VNO U
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

Depth	Matrix			dox Featu			-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 3/2	90	10YR 4/4	10	С	Μ	Sandy Loam	
	µ				-		<u>-</u>	·
					-			
		-			-			
								=
		n. RM=Redu	iced Matrix, CS=Cover	ed or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=I	Matrix
dric Soil In			_				Indicators for Prob	lematic Hydric Soils : <sup>3</sup>
Histosol (A1			Polyvalue Belo MLRA 149B)	w Surface (	(S8) (LRR I	<b>ξ</b> ,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Histic Epipe			Thin Dark Surf	aco (SO) (I		0A 140D)	_	ox (A16) (LRR K, L, R)
Black Histic								or Peat (S3) (LRR K, L, R)
Hydrogen S			Loamy Mucky				Dark Surface (S7	
Stratified La								Surface (S8) (LRR K, L)
	elow Dark Surface (A	11)	Depleted Matri				Thin Dark Surface	
Thick Dark	Surface (A12)		Redox Dark Su		-			Masses (F12) (LRR K, L, R)
Sandy Muck	k Mineral (S1)		Depleted Dark		/)			ain Soils (F19) (MLRA 149B)
	ed Matrix (S4)		Redox Depress	sions (F8)				6) (MLRA 144A, 145, 149B)
Sandy Gleye								
Sandy Redo	ox (S5)						Red Parent Mater	Idi (FZI)
	ox (S5)						Red Parent Mater	
Sandy Redo Stripped Ma	ox (S5)	A 149B)					Very Shallow Dar	k Surface (TF12)
Sandy Redo         Stripped Ma         Dark Surfac	ox (S5) atrix (S6) ce (S7) (LRR R, MLRA		nd hydroloay must be i	present. un	less disturl	ped or proble	Uery Shallow Dar	k Surface (TF12)
] Sandy Redo ] Stripped Ma ] Dark Surfac ndicators of h	ox (S5) atrix (S6) ce (S7) (LRR R, MLRA nydrophytic vegetatio		nd hydrology must be j	present, un	less disturl	bed or proble	Uery Shallow Dar	k Surface (TF12)
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