WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis		Sampling Date: 08-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling	Point: w-	51n21w22-a4
Investigator(s): DPT	Section, T	ownship, Range: S.	20 T.	51N	R. 21W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (c	oncave, convex, non	e): concave	Slope	e:0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.3324	Long.:	-93 1.7793		Datum: NAD 83
Soil Map Unit Name: B268B	-		NWI classi	fication: N/A	
	ificantly disturbed? rally problematic?	Are "Normal Ci (If needed, exp	lain any answ	present? Yes ers in Remarks.)	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland?	Yes 🔍 No 🔇)	
Remarks: (Explain alternative procedures here or in a separate Floodplain fringe to East Savanna River.	e 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, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

VEGETATION - Use scientific names of plants

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Tree Stratum (Plot size: <u>30</u>)		O	Indicator	Dominance Test worksheet:			
	% Cover		Status	Number of Dominant Species			
1. Fraxinus nigra	40		FACW	That are OBL, FACW, or FAC: <u>6</u> (A)			
2. Acer saccharinum	20	\checkmark	FACW	Total Number of Dominant			
3. Ulmus americana	20	\checkmark	FACW	Species Across All Strata:6(B)			
4	0						
5	0			Percent of dominant Species That Are OBL_EACW_or_EAC: 100.0% (A/B)			
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
7				Prevalence Index worksheet:			
	80 =	Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15)			51014	OBL species x 1 =			
1. Fraxinus nigra	30		FACW	FACW species			
2				FAC species x 3 =			
3				FACU species $0 \times 4 = 0$			
4	0						
5	0			•			
6	0			Column Totals: <u>180</u> (A) <u>320</u> (B)			
7	0			Prevalence Index = $B/A = 1.778$			
		Total Cover					
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation			
1. Calamagrostis canadensis	40	\checkmark	OBL				
2. Phalaris arundinacea			FACW	✓ Dominance Test is > 50%			
3				\checkmark Prevalence Index is \leq 3.0 ¹			
				Morphological Adaptations ¹ (Provide supporting			
4				data in Remarks or on a separate sheet)			
5				Problematic Hydrophytic Vegetation ¹ (Explain)			
6				¹ Indicators of hydric soil and wetland hydrology must			
7				be present, unless disturbed or problematic.			
8	0						
9	0			Definitions of Vegetation Strata:			
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
11	0			at breast height (DBH), regardless of height.			
12				Sapling/shrub - Woody plants less than 3 in. DBH and			
	70 =	Total Cover		greater than 3.28 ft (1m) tall			
Woody Vine Stratum (Plot size: 30)							
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.			
	0 =	Total Cover					
	-						
				Hydrophytic			
				Vegetation			
				Present? Yes Vo 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

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth				Redox Features			_					
(inches)	Color (%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks		
0-5	10YR	2/1	100						Silty Clay Loam			
5-20	10YR	3/1	95	10YR	3/6	5	C	M	Clay Loam			
		a-	-				-					
						-						
			n PM-Per	luced Matrix CS	S-Cover	ed or Coat	ed Sand Gr	ains 21 oct	ation: PL=Pore Lining. M=M	latriv		
Hydric Soil 1		-Depietic		iuceu matrix, c.	5-COVEI		eu Sanu Gi					
Histosol (Dobara	luo Polo	w Surface	(S8) (LRR I	r	Indicators for Proble	ematic Hydric Soils : ³		
	pedon (A2)			MLRA	149B)	w Suitace	(30) (LKK I	Χ ,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Black Hist				🗌 Thin D	ark Surf	ace (S9) ((LRR R, MLI	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
_	n Sulfide (A4)			🗌 Loamy	Mucky	Mineral (F	1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5)			Loamy	Gleyed	Matrix (F2	2)		Dark Surface (S7) (LRR K, L, M)			
Depleted	Below Dark S	Surface (A	(11)		ed Matri				Polyvalue Below Surface (S8) (LRR K, L)			
Thick Dar	rk Surface (A	12)		Redox					 Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) 			
Sandy Mu	uck Mineral (S	51)				Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Gle	eyed Matrix (S4)		Redox	Depress	sions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Re	dox (S5)								Red Parent Material (F21)			
	Matrix (S6)								Very Shallow Dark			
Dark Surf	face (S7) (LR	r r, mlra	A 149B)						Other (Explain in F	Remarks)		
³ Indicators o	f hydrophytic	vegetatio	on and wetle	and hydrology n	nust be j	present, ur	nless distur	bed or probl	ematic.			
Restrictive L	ayer (if obs	erved):										
Type:		-										
Depth (inc	hes):								Hydric Soil Present?	Yes $ullet$ No $igcap$		
Remarks:												
Kennarks.												