WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	St. Louis	Sampli	Sampling Date: 09-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n21w24-b3		
Investigator(s): PJK		Section, T	ownship, Range: S. 2	4 T. 51N	R. 21W	
Landform (hillslope, terrace, etc.): Mound		Local relief (c	oncave, convex, none)	convex	Slope: <u>1.7</u> % / <u>1.0</u>	
Subregion (LRR or MLRA): LRR K	Lat.:	46 53.861	Long.: -	92 56.1098	Datum: NAD 83	
Soil Map Unit Name: B103A				NWI classification:	N/A	
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Summary of Findings - Attach site ma	naturally	tly disturbed? problematic? sampling p	(If needed, expla	imstances" present? in any answers in Re r ansects, impo	emarks.)	
Hydrophytic Vegetation Present?Yes ○NoHydric Soil Present?Yes ●NoWetland Hydrology Present?Yes ○No	0		e Sampled Area n a Wetland? Ye	s 🔿 No 🖲		
Remarks: (Explain alternative procedures here or i	n a separate repo	ort.)				

Hydrology

Wetland Hydrology Indicat	ors:		Secondary Indicators (minimum of 2 required)				
Primary Indicators (minim		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)		Shallow Aquitard (D3)					
Inundation Visible on Aeri	al Imagery (B7)	Thin Muck Surface (C7)	Microtopographic Relief (D4)				
Sparsely Vegetated Conca	0 9 1 1	Uther (Explain in Remarks)	FAC-neutral Test (D5)				
	10 0a.1000 (20)						
Field Observations:							
Surface Water Present?	Yes 🔿 No 🖲	Depth (inches): 0					
Water Table Present?	Yes 🔿 No 🖲	Depth (inches):0					
Saturation Present? (includes capillary fringe)	Yes No O 	Depth (inches): Wetland Hydrology Present? Yes O No O					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

VEGETATION - Use scientific names of plants

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(Distring 20)	Absolute		Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: <u>30</u>)	% Cover		Status	Number of Dominant Species			
1. Populus tremuloides	85		FACU	That are OBL, FACW, or FAC: (A)			
2				Total Number of Dominant			
3	0			Species Across All Strata:4(B)			
4	0						
5	0			Percent of dominant Species That Are OBL_EACW_or_EAC: 0.0% (A/B)			
6				That Are OBL, FACW, or FAC:(A/B)			
7				Prevalence Index worksheet:			
	85 =	Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species x 1 =			
1. Corylus cornuta	40		FACU	FACW species			
2. Fraxinus nigra			FACW	FAC species10 x 3 =30			
3				FACU speciles 155 x 4 = 620			
4	0			UPL species $\frac{20}{x 5} = \frac{100}{x 5}$			
5	0			•			
6	0			Column Totals: <u>195</u> (A) <u>770</u> (B)			
7	0			Prevalence Index = B/A = 3.949			
Herb Stratum (Plot size: <u>5</u>)	45 =	Total Cover		Hydrophytic Vegetation Indicators:			
		_		Rapid Test for Hydrophytic Vegetation			
1. Pteridium aquilinum	30		FACU	Dominance Test is > 50%			
2. Eurybla macrophylla	20		UPL	Prevalence Index is ≤3.0 ¹			
3. Clintonia borealis	10		FAC	Morphological Adaptations ¹ (Provide supporting			
4. Rubus hispidus	5		FACW	data in Remarks or on a separate sheet)			
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)			
6	0						
7	0			¹ Indicators of hydric soil and wetland hydrology must 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/abrub Woody plants loss 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			size, and woody plants less than 3.20 it tail.			
3	0			Woody vine - All woody vines greater than 3.28 ft in			
4	0			height.			
	=	Total Cover					
				Hadaa da dha			
				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 Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth <u>Matrix</u> (inches) Color (moist) %			Redox Features				- <u>-</u> .		
			<u>%</u>	Color (moi	st) %	Type ¹	Loc ²	Texture	Remarks
0-5	10YR	2/2	100				·	Loam	
5-20	10YR	5/2	80	10YR	5/6 20	C	M	Silt Loam	
	-	-							
	-	-							
	-								
					<u>_</u>				
-									
¹ Type: C=Con	centration [)=Denletic	n RM=Red	uced Matrix CS=	Covered or C	oated Sand Gr	ains 21 oca	ation: PL=Pore Lining. M=N	atrix
Hydric Soil 1		Depiction					dins E000	ů.	
Histosol (Deharaku	Dolour Curfo	ice (S8) (LRR	П	Indicators for Proble	ematic Hydric Soils : ³
				MLRA 14		LE (30) (LKK	κ,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Black Hist	pedon (A2)			🗌 Thin Dar	k Surface (S9) (LRR R, MLI	RA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
		、 、		_		(F1) LRR K, L		5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4))			leyed Matrix		, ,	Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)	Curfage (A	(11)		Matrix (F3)			Polyvalue Below S	urface (S8) (LRR K, L)
	Below Dark		ATT)		ark Surface (F	=6)		Thin Dark Surface	(S9) (LRR K, L)
_	k Surface (A				Dark Surface			Iron-Manganese N	lasses (F12) (LRR K, L, R)
	uck Mineral (epressions (F			Piedmont Floodpla	in Soils (F19) (MLRA 149B)
	eyed Matrix ((54)			- , ,	- /		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re								Red Parent Materi	al (F21)
	Matrix (S6)							Very Shallow Dark	Surface (TF12)
Dark Surf	face (S7) (LR	R R, MLR	A 149B)					Other (Explain in I	Remarks)
³ Indicators of	f hydrophytic	c vegetatio	on and wetla	nd hydrology mu	st be present,	, unless distur	bed or proble	ematic.	
Restrictive L	aver (if obs	served):							
Type:		, . .							
Depth (inc	has).							Hydric Soil Present?	Yes 🔍 No 🔾
•	.nes).								
Remarks:									
1									