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-50n19w16-a1
Investigator(s): SMR	Section, T	ownship, Range: S. 16	T. 50N	R. 19W
Landform (hillslope, terrace, etc.): Mound	Local relief (c	oncave, convex, none):	convex	Slope: 8.7 % / 5.0 °
Subregion (LRR or MLRA): LRR K	46 48.6267	Long.: -92	45.7250	Datum: NAD 83
Soil Map Unit Name: F175A	<u>-</u>	1	IWI classification:	N/A
	itly disturbed? problematic? sampling p	Are "Normal Circun (If needed, explain oint locations, tra	any answers in Re	marks.)
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 rep	ort.)			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)				
Primary Indicators (minimum of one required	Surface Soil Cracks (B6)					
Surface Water (A1)		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)		Crayfish Burrows (C8)				
		Saturation Visible on Aerial Imagery (C9)				
Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots (C3)		Stunted or Stressed Plants (D1)				
	Drift deposits (B3) Presence of Reduced Iron (C4)					
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 •	Depth (inches): 0					
Water Table Present? Yes O No •		drology Present? Yes 🔿 No 🖲				
Saturation Present? (includes capillary fringe) Yes O No O	Depth (inches):0					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plants				Sampling Point: u-50n19w16-a1		
Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
			FACU	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)		
			TACO	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	0			Drouplance Index werkehoet		
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15)	70 =	Total Cover		Total % Cover of: Multiply by: OBL species x 1 =0		
1 . Corylus cornuta	80	\checkmark	FACU			
2	0			FACW species $0 \times 2 = 0$		
3				FAC speciles $_{100}^{70}$ x 3 = $_{210}^{210}$		
4				FACU species 160 x 4 = 640		
5	0			UPL species20x 5 =100		
6				Column Totals: _250 (A) _950 (B)		
7				Prevalence Index = $B/A = 3.800$		
		- Total Cover		Hydrophytic Vegetation Indicators:		
Herb Stratum (Plot size: 5)				Rapid Test for Hydrophytic Vegetation		
1. Cornus canadensis	70	\checkmark	FAC			
2. Eurybla macrophylla	20	\checkmark	UPL	Dominance Test is > 50%		
3. Aralia nudicaulis	10		FACU	Prevalence Index is $\leq 3.0^{1}$		
4	0			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation ¹ (Explain)		
6						
7				¹ 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				at breast height (DBH), regardless of height.		
12				Conting/objudy Mandy planta loss than 2 in DDU 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		
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 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:	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)						
Depth	Matrix			lox Features		-	
	lor (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
<u> </u>	′R 3/4	100				Sandy Clay Loam	
4-20 10Y	′R 4/4	100				Sandy Clay Loam	
				·			
				·			
			······	·			
			······	·			
		·					
17 0.0							
÷.		on. RM=Redi	uced Matrix, CS=Covere	ed or Coated Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=Mat	
Hydric Soil Indicate	ors:		□ - · · - ·			Indicators for Problem	natic Hydric Soils : 3
Histosol (A1)	4.0)		Polyvalue Belov MLRA 149B)	v Surface (S8) (LRR R	,	2 cm Muck (A10) (LF	RR K, L, MLRA 149B)
Histic Epipedon (A)	A2)			ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Hydrogen Sulfide	(04)			Aineral (F1) LRR K, L)			Peat (S3) (LRR K, L, R)
Stratified Layers (Loamy Gleyed	Matrix (F2)		Dark Surface (S7) (L	
Depleted Below D		.11)	Depleted Matrix	k (F3)		Polyvalue Below Surf	
Thick Dark Surface		,	Redox Dark Su	rface (F6)		Thin Dark Surface (S	
Sandy Muck Mine			Depleted Dark	Surface (F7)			ses (F12) (LRR K, L, R)
Sandy Gleyed Ma			Redox Depress	ions (F8)			Soils (F19) (MLRA 149B)
Sandy Redox (S5)						Red Parent Material	MLRA 144A, 145, 149B) (E21)
Stripped Matrix (S	S6)					Very Shallow Dark Si	
Dark Surface (S7)) (LRR R, MLRA	A 149B)				Other (Explain in Rei	
³ Indicators of hydrop	hvtic vegetatio	on and wetla	nd hydrology must be p	resent, unless disturb	ed or proble		
Restrictive Layer (if					<u> </u>		
Type:	observeu):						
Depth (inches):						Hydric Soil Present?	Yes 🔿 No 🖲
Remarks:							