## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampling Date: 11-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n20w28-a2
Investigator(s): PJK	Section, T	ownship, Range: S. 28	<b>T.</b> 51N	<b>R.</b> 20W
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	46 52.6529	<b>Long.:</b> -92	2 52.0425	Datum: NAD 83
Soil Map Unit Name: 1020A	-		WI classification:	N/A
	ntly disturbed? problematic? <b>sampling p</b>	Are "Normal Circur (If needed, explain oint locations, tra	any answers in Re	-
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland? Yes	○ <sub>No</sub> ●	
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; 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)	<ul> <li>Oxidized Rhizospheres along Living Roots (C3)</li> </ul>	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)		Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	Uther (Explain in Remarks)	FAC-neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes O No	Depth (inches): 0					
Water Table Present? Yes O No	Depth (inches): 0					
Saturation Present? Yes O No (includes capillary fringe)	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**

VEGETATION - Use scientific names of plants				Sampling Point: u-51n20w28-a2		
(2) · · · · 20	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species		
1				That are OBL, FACW, or FAC: (A)		
2				Total Number of Dominant		
3	0			Species Across All Strata: (B)		
4						
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)		
6	0					
7	0			Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15 )	0 =	Total Cover		Total % Cover of: Multiply by:		
	0			OBL species x 1 =		
1				FACW species X 2 =30		
2				FAC species x 3 =		
3				FACU species $90 \times 4 = 360$		
4				UPL species x 5 =		
5				Column Totals:(A)(B)		
6						
7		Total Cover		Prevalence Index = B/A = <u>3.714</u>		
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:		
1. Lotus corniculatus	60	$\checkmark$	FACU	Rapid Test for Hydrophytic Vegetation		
2. Solidago gigantea	10		FACW	Dominance Test is > 50%		
	10		FACU	Prevalence Index is $\leq$ 3.0 $^{1}$		
A Phalaria arundinaaaa	5		FACW	Morphological Adaptations <sup>1</sup> (Provide supporting		
	5		FACU	data in Remarks or on a separate sheet)		
0. Transition interes	5		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
	10		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
			170	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	0			a breast height (DDH), regardless of height.		
12		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and		
_Woody Vine Stratum (Plot size: 30 )	105 -	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			Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
	0 =	Total Cover	-			
				Hydrophytic		
				Vegetation Present? Yes O No 💿		
Remarks: (Include photo numbers here or on a separate she	et.)					
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\* Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

US Army Corps of Engineers

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)						
Depth	Matrix		Re	dox Features			
(inches)	Color (moist)	%	Color (moist)	<b>% Type</b> <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 3/4	100				Sandy Loam	
				·			
				·			
				·		·	
<sup>1</sup> Type: C=Con	centration D=Depleti	on RM=Redu	iced Matrix_CS=Covere	ed or Coated Sand Gra	ains 21 oca	ation: PL=Pore Lining. M=Mat	rix
Hydric Soil						Indicators for Problem	natic Hydric Soils : $^3$
Histosol (	(A1)			w Surface (S8) (LRR R		2 cm Muck (A10) (Ll	RR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		MLRA 149B)			Coast Prairie Redox	
Black His	tic (A3)		_	ace (S9) (LRR R, MLR	A 149B)		Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Mucky M	Mineral (F1) LRR K, L)		Dark Surface (S7) (L	
Stratified	Layers (A5)		Loamy Gleyed	Matrix (F2)			
	Below Dark Surface (A	A11)	Depleted Matrix	k (F3)		Polyvalue Below Sur	
	rk Surface (A12)	,	Redox Dark Su	rface (F6)		Thin Dark Surface (S	
			Depleted Dark	Surface (F7)		Iron-Manganese Ma	sses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplain	Soils (F19) (MLRA 149B)
	eyed Matrix (S4)					Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re	edox (S5)					Red Parent Material	(F21)
Stripped	Matrix (S6)					Very Shallow Dark S	
Dark Surf	face (S7) (LRR R, MLR	A 149B)				Other (Explain in Re	
3 Indiantara a	f hudronhutio vogototi	on and watle	nd hydrology must be p	racant unless disturb	od or proble		indiko)
muicators o	ii nyuropnytic vegetati	un anu wetiai	na nyarology musi be p	desent, unless disturb			
Restrictive L	ayer (if observed):						
Type: <u>ro</u>	ock						
Depth (inc	ches): 12					Hydric Soil Present?	Yes 🔾 🛛 No 🖲
	·						
Remarks:							
1							
1							