## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplir	ng Date: 09-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n21w24-a2
Investigator(s): PJK	Section, 1	Township, Range: S. 24	<b>T.</b> 51N	<b>R.</b> 21W
Landform (hillslope, terrace, etc.): Mound	Local relief (	concave, convex, none):	convex	Slope: <u>1.7</u> % / <u>1.0</u> °
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.2852	Long.: -92	2 56.8981	Datum: NAD 83
Soil Map Unit Name: B103A		I	WI classification:	N/A
	ificantly disturbed? urally problematic? ing sampling p		any answers in Re	-
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 separat	e report.)			

## Hydrology

Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum of	of one required; cl	heck 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)			Geomorphic Position (D2)		
		Shallow Aquitard (D3)			
Inundation Visible on Aerial Ima	agery (B7)	Thin Muck Surface (C7)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Su	0 0 0	Uther (Explain in Remarks)	FAC-neutral Test (D5)		
Field Observations:					
	s 🔾 🛛 No 🖲	Depth (inches): 0			
Water Table Present? Yes	s 🔾 No 🖲	Depth (inches): 0	Hvdrology Present? Yes 🔿 No 🖲		
Saturation Present? (includes capillary fringe) Yes	s 🔿 No 🖲	Wetland Depth (inches): 0	Hydrology 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 sciencific names of plan	Sampling Point: u-51n21w24-a2			
Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover		Indicator Status	Dominance Test worksheet:
	10		FACU	Number of Dominant Species           That are OBL, FACW, or FAC:         2         (A)
· · · ·			TACO	That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:4(B)
4				Demonst of dominant Crossics
5				Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	10 =	Total Cover		Total % Cover of: Multiply by:
1. Alnus incana	5		FACW	<b>OBL speci es</b> <u>5</u> <b>x 1 =</b> <u>5</u>
2				<b>FACW species</b> $35 \times 2 = 70$
				FAC species $0 \times 3 = 0$
3	-			<b>FACU species</b> $_{60}$ <b>x 4</b> = $_{240}$
4				UPL species <u>10</u> x 5 = <u>50</u>
5				Column Totals: 110 (A) 365 (B)
6	-			
7	0			Prevalence Index = $B/A = 3.318$
Herb Stratum (Plot size: 5)	5 =	Total Cover		Hydrophytic Vegetation Indicators:
		_		Rapid Test for Hydrophytic Vegetation
1. Calamagrostis canadensis	5		OBL	Dominance Test is > 50%
2. Pteridium aquilinum	50	✓	FACU	Prevalence Index is ≤3.0 <sup>1</sup>
3. Phalaris arundinacea	30	$\checkmark$	FACW	Morphological Adaptations $^1$ (Provide supporting
4. Fragaria vesca	5		UPL	data in Remarks or on a separate sheet)
5. Eurybla macrophylla	5		UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6	0			
7				<sup>1</sup> 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 at breast height (DBH), regardless of height.
11				
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )	95 =	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.)			

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

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	ription: (De		the depth				onfirm the	absence of indicators.)		
Depth <u>Matrix</u> (inches) Color (moist) %		0/-	<u>Redox Features</u> Color (moist)%Type <sup>1</sup> Loc <sup>2</sup>			Loc <sup>2</sup>	Texture	Remarks		
0-5	10YR	2/2	100			Туре	LUC-	Silty Clay Loam	Kellidi KS	
5-20	10YR	5/2	80	10YR 4/6	20	C		Silt Loam		
	L									
	-									
1 Turney C. Corr			- DM Dod		arad ar Caat	ad Sand Cr		tion, DL Doro Lining M Mo		
		D=Depletic	n. Rivi=Red	luced Matrix, CS=COV	ered or Coat	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=Ma		
Hydric Soil						(00) (: == =	_	Indicators for Probler	natic Hydric Soils: <sup>3</sup>	
				Polyvalue Be MLRA 149B)		(S8) (LRR F	२,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	pedon (A2)			Thin Dark Su		(LRR R. MLF	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)		
Black His				Loamy Muck				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)	)		Loamy Gleye			,	Dark Surface (S7) (LRR K, L, M)		
_	Layers (A5)	Surface (A	11)	Depleted Ma		,		<ul> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> </ul>		
	Below Dark		(11)	Redox Dark						
	rk Surface (A				rk Surface (F					
	uck Mineral (			Redox Depr		,		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	Sandy Gleyed Matrix (S4)     Redux Depressions (r8)       Sandy Redux (S5)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)						
	Matrix (S6)							Red Parent Material (F21)		
	face (S7) (LR		149B)					Very Shallow Dark Surface (TF12)		
								Other (Explain in Re	emarks)	
Indicators o	f hydrophytic	c vegetatic	on and wetla	and hydrology must b	e present, ur	nless disturi	bed or proble	ematic.		
Restrictive L	ayer (if obs.	served):								
Туре:										
Depth (inc	:hes):							Hydric Soil Present?	Yes 🔍 No 🔾	
Remarks:										