## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	ounty: St. Louis	Samplir	<b>Date:</b> 12-Sep-17					
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n20w27-c3					
Investigator(s): PJK		Sec	tion, Township, Range:	<b>s.</b> 27 <b>t.</b> 51N	<b>R.</b> 20W					
Landform (hillslope, terrace,	etc.): Lowland		elief (concave, convex, n		Slope: 0.0 % / 0.0 °					
Subregion (LRR or MLRA):	LRR K	<b>Lat.:</b> 46 52.3	3124 <b>Long</b>	-92 51.7608	Datum: NAD 83					
Soil Map Unit Name: B107A				NWI classification:	PSS/EM B					
Are climatic/hydrologic cond	itions on the site ty	pical for this time of year?	Yes ● No ○	— (If no, explain in Remarks	s.)					
Are Vegetation $\square$ , Soil	_			Circumstances" present?	Yes ● No ○					
Are Vegetation , Soil	, or Hydrol	, –		-	marke 1					
Are Vegetation , Soil , or Hydrology in naturally problematic? (If needed, explain any answers in Remarks.)  Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc										
Hydrophytic Vegetation Pres	sent? Yes •	No O	-	·						
Hydric Soil Present?	Yes ●	No O	Is the Sampled Area within a Wetland?	Yes ● No ○						
Wetland Hydrology Present?	Yes •	No O	WITHIN a Wellanus	100 0 110 0						
Remarks: (Explain alternat										
Hydrology										
Wetland Hydrology Indicato		· · · · · · · · · · · · · · · · · · ·		Secondary Indicators (minim						
Primary Indicators (minimu  Surface Water (A1)	m of one requirea;			Surface Soil Cracks (B6)						
✓ Surface Water (A1) ✓ High Water Table (A2)		Water-Stained Leaves (B9) Aquatic Fauna (B13)		Drainage Patterns (B10)  Moss Trim Lines (B16)						
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Table	e (C2)					
Water Marks (B1)		Hydrogen Sulfide Odor (C1	)	Crayfish Burrows (C8)	(,					
Sediment Deposits (B2)		Oxidized Rhizospheres alor		Saturation Visible on Ae	rial Imagery (C9)					
Drift deposits (B3)		Presence of Reduced Iron	• •	Stunted or Stressed Plan	• •					
Algal Mat or Crust (B4)		Recent Iron Reduction in T	illed Soils (C6)	Geomorphic Position (D	2)					
Iron Deposits (B5) Inundation Visible on Aeria	Imagery (R7)	☐ Thin Muck Surface (C7)		<ul><li>☐ Shallow Aquitard (D3)</li><li>☐ Microtopographic Relief</li></ul>	/D./\					
Sparsely Vegetated Concav		Other (Explain in Remarks)		FAC-neutral Test (D5)	(D4)					
	• •									
Field Observations: Surface Water Present?	Yes   No	Depth (inches):	6							
	Yes   No	<u>-</u>	0							
Saturation Present?	Yes  No			rology Present? Yes	No O					
(includes capillally fillige)		oring well, aerial photos, prev	ious inspections), if avail	able:						
· ·	0 0 1									
Demonstra										
Remarks:										

## **VEGETATION - Use scientific names of plants**

VEGETATION OSC SCIENCING Names of plan	vederation - ose scientific names of plants				
(Diet size, 20	Absolute	Dominant Indicato Species? Status	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	Species? Status	Number of Dominant Species		
1		Ц	That are OBL, FACW, or FAC: (A)		
2			Total Number of Dominant		
3			Species Across All Strata: 2 (B)		
4					
5			Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)		
6	0		That rice obe, thow, of the		
7	0		Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15 )	0 = Total Cover		Total % Cover of: Multiply by:		
	0		0BL speci es <u>85</u> x 1 = <u>85</u>		
1			FACW species x 2 =		
2			FAC speciles x 3 =0		
3			FACU species x 4 =0		
4			UPL speci es		
5					
6					
7			Prevalence Index = B/A = 1.000		
Herb Stratum (Plot size: 5		Total Cover	Hydrophytic Vegetation Indicators:		
	30	<b>✓</b> OBL	Rapid Test for Hydrophytic Vegetation		
O. Committee		✓ OBL	✓ Dominance Test is > 50%		
		OBL	<b>V</b> Prevalence Index is ≤3.0 <sup>1</sup>		
3. Persicaria sagittata 4. Glyceria canadensis		OBL	☐ Morphological Adaptations ¹ (Provide supporting		
••			data in Remarks or on a separate sheet)		
5		<u> </u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6			<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7		H —	be present, unless disturbed or problematic.		
8			Definitions of Vegetation Strata:		
9		Ц	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			Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30 )	85 =	Total Cover	greater than 3.28 ft (1m) tall		
	0		Herb - All herbaceous (non-woody) plants, regardless of		
1			size, and woody plants less than 3.28 ft tall.		
2			•		
3	0	<u> </u>	Woody vine - All woody vines greater than 3.28 ft in height.		
4		Total Carrai	, meight.		
	=	Total Cover			
			Hydrophytic		
			Vegetation		
			Present? Yes • No ·		
Remarks: (Include photo numbers here or on a separate she	et.)				

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

Soil Sampling Point: w-51n20w27-c3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth Matrix Redox Features			_					
(inches)	Color (moist)		Color (moist)	<u>%</u> <u>Type</u> 1	Loc2	Texture	Remarks	
0-20	10YR 2/1	100				Muck		
			-		-	-		
						-		
			-					
<sup>1</sup> Type: C=Cond	centration. D=Depleti	on. RM=Reduc	ced Matrix, CS=Covere	ed or Coated Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I	Indicators:					Indicators for Broble	ematic Hydric Soils: 3	
Histosol (A			Polyvalue Belov	v Surface (S8) (LRR F	2,			
	pedon (A2)		MLRA 149B)				(LRR K, L, MLRA 149B)	
Black Hist			Thin Dark Surfa	ace (S9) (LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)	
	Sulfide (A4)			Mineral (F1) LRR K, L)			or Peat (S3) (LRR K, L, R)	
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)		
Depleted	Below Dark Surface (	A11)	Depleted Matrix			Thin Dark Surface	urface (S8) (LRR K, L)	
☐ Thick Dar	k Surface (A12)		Redox Dark Su				(59) (LRR K, L) lasses (F12) (LRR K, L, R)	
Sandy Mu	ick Mineral (S1)		Depleted Dark				in Soils (F12) (MLRA 149B)	
	eyed Matrix (S4)		Redox Depress	ions (F8)			) (MLRA 144A, 145, 149B)	
Sandy Red	dox (S5)					Red Parent Materia		
Stripped M	Matrix (S6)						, ,	
☐ Dark Surfa	ace (S7) (LRR R, MLR	A 149B)				<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>		
3 Indicators of	f hydronhytic vegetati	on and wetlan	d hydrology must be p	arasant unlass disturk	and or proble		(Cirial K3)	
			a flydrology fflust be p	nesent, unless distart	ed of proble	ematic.		
	ayer (if observed):							
Type:						Hydric Soil Present?	Yes ● No ○	
Depth (incl	hes):					Tryune don Tresent.	163 C NO C	
Remarks:								