## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: St. Louis	5	Sampling	<b>Date:</b> 12-Sep-17
Applicant/Owner: Enbridge		Si	tate: MN Sar	mpling Point:	w-51n20w27-d1
Investigator(s): PJK		Section, Township,	Range: S. 27	<b>T.</b> 51N	<b>R.</b> 20W
Landform (hillslope, terrace, etc.):	owland	Local relief (concave, o	-	ncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat	— ∴ 46 52.2710	Long.: -92 51.	.6762	Datum: NAD 83
Soil Map Unit Name: B107A				classification: P	SS/EM B
Are climatic/hydrologic conditions on	the site typical for this time o	of year? Yes   No	(If no, exp	— Jain in Remarks.)	<u> </u>
		,	"Normal Circumsta	•	Yes   No
		-	needed, explain any	•	arke )
Summary of Findings - Atta		•	, , ,		•
Hydrophytic Vegetation Present?	Yes   No				
	Yes ● No ○	Is the Sample within a Wetla		No O	
_ ·	Yes ● No ○	WILIIII a VVCuo	and?	110 0	
Remarks: (Explain alternative proce		anort )			
Hydrology Wetland Hydrology Indicators:			Secondary	! -!tass (minimu	so windh
Primary Indicators (minimum of one	required, check all that apply			Indicators (minimus	m of 2 required)
Surface Water (A1)	Water-Stained			e Soil Cracks (B6) ge Patterns (B10)	
✓ High Water Table (A2)	Aquatic Fauna	, ,		Frim Lines (B16)	
✓ Saturation (A3)	Marl Deposits (			eason Water Table (	C2)
Water Marks (B1)	Hydrogen Sulfid	de Odor (C1)		sh Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizos	spheres along Living Roots (C	<i>'</i>	tion Visible on Aeria	
Drift deposits (B3)		educed Iron (C4)		d or Stressed Plants	s (D1)
Algal Mat or Crust (B4)		eduction in Tilled Soils (C6)		orphic Position (D2)	
Iron Deposits (B5)	☐ Thin Muck Surf	` '		w Aquitard (D3)	· · ·
Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface	U Other (Explain	in Remarks)	_	opographic Relief ([ eutral Test (D5)	04)
Sparsery vegetated concave surface	(50)		▼ FAC-IR	eutrai Test (D5)	
Field Observations: Surface Water Present?  Yes	No Depth (inches	s): 3			
		Wetl	and Hydrology Pres	ent? Yes •	No O
(includes capillary fringe) Yes	No Depth (inches				
Describe Recorded Data (stream gauge	ge, monitoring well, aerial ph	notos, previous inspections	), if available:		
Remarks:					

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

VEGETATION - OSE SCIENCING Harnes of pla	Sampling Point: w-51n20w27-d1			
(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 30 x 1 = 30
1	0			FACW species 70 x 2 = 140
2	0			I
3				<u> </u>
4				FACU species $0 \times 4 = 0$
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: <u>115</u> (A) <u>215</u> (B)
7				Prevalence Index = B/A = 1.870
		= Total Cover		
Herb Stratum (Plot size: 5 )				Hydrophytic Vegetation Indicators:
1. Phalaris arundinacea	40	<b>✓</b>	FACW	✓ Rapid Test for Hydrophytic Vegetation
2 Panicum capillare		$\overline{\Box}$	FAC	<b>✓</b> Dominance Test is > 50%
3. Solidago gigantea		$\Box$	FACW	<b>✓</b> Prevalence Index is ≤3.0 <sup>1</sup>
4. Scirpus cyperinus	30	<b>✓</b>	OBL	Morphological Adaptations <sup>1</sup> (Provide supporting
5 Commission naves and les	10	$\Box$	FACW	data in Remarks or on a separate sheet)
<u> </u>		$\Box$	TACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Definitions of Vegetation Strata.
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and
			•	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				size, and woody plants less than 3.20 it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	= Total Cover		
				Hydrophytic
				Vegetation   Yes • No •
Pamarker (Include photo numbers have as an a consuctor of	oot \			
Remarks: (Include photo numbers here or on a separate sh	ee.,			

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

Soil Sampling Point: w-51n20w27-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth						_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks	
0-8	10YR 3/2	90	10YR 4/4	10	C	M	Sandy Loam		
			-				-		
			-						
1 Type: C=Con	centration. D=Depleti	on. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining, M=Ma	ntrix	
J.	<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Location: PL=Pore Lining. M=Matrix  Hydric Soil Indicators:  Indicators for Problematic Hydric Soile: <sup>3</sup>								
Histosol (			Polyvalue Belo	w Surface	(S8) (LDD I	0	_	matic Hydric Soils: 3	
	pedon (A2)		MLRA 149B)	w Juliace	(30) (LIXIX I	Χ,		LRR K, L, MLRA 149B)	
Black Hist			☐ Thin Dark Surf	ace (S9) (	LRR R, MLI	RA 149B)		(A16) (LRR K, L, R)	
	Sulfide (A4)		Loamy Mucky	Mineral (F1	) LRR K, L	)		r Peat (S3) (LRR K, L, R)	
	Layers (A5)		Loamy Gleyed	Matrix (F2)	)		Dark Surface (S7)		
	Below Dark Surface (a	Δ11)	Depleted Matri	x (F3)				rface (S8) (LRR K, L)	
	k Surface (A12)	A11)	✓ Redox Dark Su	ırface (F6)			Thin Dark Surface (		
	ıck Mineral (S1)		Depleted Dark	Surface (F	7)			asses (F12) (LRR K, L, R)	
	eyed Matrix (S4)		Redox Depress	sions (F8)				n Soils (F19) (MLRA 149B)	
Sandy Re								(MLRA 144A, 145, 149B)	
	Matrix (S6)						Red Parent Materia		
	ace (S7) (LRR R, MLR	A 149B)					Very Shallow Dark		
							Other (Explain in R	emarks)	
Indicators of	f hydrophytic vegetati	on and wetlar	nd hydrology must be p	present, un	lless distur	bed or probl	ematic.		
Restrictive L	ayer (if observed):								
Type: <u>ro</u>	ock								
Depth (incl	hes): <u>8</u>						Hydric Soil Present?	Yes ● No ○	
Remarks:									