## 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: w-50n19w17-e1
Investigator(s): SMR	Section, Township, Rang	ge: S. 17 T. 50N R. 19W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, conver	
Subregion (LRR or MLRA): LRR K Lat.:	- : 46 49.344 <b>L</b> e	ong.: -92 46.2512
Soil Map Unit Name: F137B		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for this time of	fyear? Yes   No	(If no, explain in Remarks.)
	•	mal Circumstances" present? Yes  No
	-	ed, explain any answers in Remarks.)
Summary of Findings - Attach site map showing	•	
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes   No	Is the Sampled Area within a Wetland?	a Yes ● No ○
Wetland Hydrology Present? Yes No	Within a Wetana.	130 - 110 -
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 Lo	• •	Drainage Patterns (B10)
High Water Table (A2)  Aquatic Fauna (E		Moss Trim Lines (B16)
Saturation (A3)  Marl Deposits (B		Dry Season Water Table (C2)
☐ Water Marks (B1) ☐ Hydrogen Sulfide		Crayfish Burrows (C8)
	pheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
☐ Drift deposits (B3) ☐ Presence of Red☐ Algal Mat or Crust (B4) ☐ Recent Iron Red☐		
	luction in Tilled Soils (C6)	
Thin wack sured	` '	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Other (Explain ir  Sparsely Vegetated Concave Surface (B8)	1 Remarks)	<ul><li>Microtopographic Relief (D4)</li><li>✓ FAC-neutral Test (D5)</li></ul>
Sparsely vegetated concave surface (bb)		FAC-fleutial fest (D5)
Field Observations:  Surface Water Present?  Yes No Depth (inches)		
Water Table Present? Yes No Depth (inches)	):0 Wetland H	lydrology Present? Yes   No
Saturation Present? (includes capillary fringe) Yes No Depth (inches)		yarorogy i rescrict
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if a	vailable:
Remarks:		
Kemara.		

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

vederation - ose scientific fiames of pr	Sampling Point: w-50n19w17-e1						
(Dist.:: 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30 )	% Cover	_species:	Status	Number of Dominant Species			
1				That are OBL, FACW, or FAC:3(A)			
2				Total Number of Dominant			
3				Species Across All Strata:3(B)			
4							
5	0			Percent of dominant Species That Are OBL FACW or FAC: 100.0% (A/B)			
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			
1				FACW species 0 x 2 = 0			
2				FAC species x 3 =0			
3				FACU species $0 \times 4 = 0$			
4	0						
5	0			l '			
6	0			Column Totals: 100 (A) 100 (B)			
7	0			Prevalence Index = B/A = 1.000			
(Diot size: 5	0 =	Total Cover		Hydrophytic Vegetation Indicators:			
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation			
1. Scirpus cyperinus		✓	OBL	✓ Dominance Test is > 50%			
2. Carex lacustris	30	✓	OBL	✓ Prevalence Index is ≤3.0 ¹			
3. Scirpus atrovirens	30	✓	OBL				
4. Typha x glauca	10		OBL	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6							
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
8				be present, unless disturbed or problematic.			
9				Definitions of Vegetation Strata:			
0		П		To Mandaglanta O's (7.0 as) as as as 's dispersion			
				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
1  2				at broadt Holght (BBH), Togaraloss of Holght.			
12	-	 - Total Cavar		Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30 )	=	Total Cover		greater than 3.28 ft (1m) tall			
1	0			Herb - All herbaceous (non-woody) plants, regardless of			
2				size, and woody plants less than 3.28 ft tall.			
3		$\overline{\Box}$					
4	0			Woody vine - All woody vines greater than 3.28 ft in height.			
4		Total Cover		noight.			
		- Iotai covei					
				Hydrophytic			
				Vegetation			
				Present? Yes No V			
Remarks: (Include photo numbers here or on a separate s	heet.)						

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

Soil Sampling Point: w-50n19w17-e1

	iption: (De	scribe to	the depth	needed to	locument	t the indi	cator or c	onfirm the	absence of indicators.)			
Depth (inches)	Color (	Matrix	%	Color (		dox Feat	ures Type_ <sup>1</sup>	Loc <sup>2</sup>	- Toyture	De	narks	
0-9	10YR	<b>moist)</b> 3/1	80	10YR	<b>moist)</b> 3/4	<b></b> 20	_ <u>rype</u> ' C	M	Sandy Clay Loam	Kem	ıaı KS	
9-20	10YR	4/2		10YR	4/6		C		Sandy Clay Loam			
									. <u> </u>			
		-		-	-							
				-								
		-		-	-			-				
<sup>1</sup> Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coat	ted Sand Gr	rains <sup>2</sup> Loca	ation: PL=Pore Lining. M=M	atrix		
Hydric Soil I	ndicators:								Indicators for Proble	ematic Hydri	c Soils: 3	
Histosol (A	•			Poly	value Belo A 149B)	w Surface	(S8) (LRR	R,	2 cm Muck (A10)			
	edon (A2)					200 (50)	(LRR R, MLI	DA 140D)	Coast Prairie Redo			
Black Histi							1) LRR K, L		5 cm Mucky Peat	or Peat (S3) (L	.RR K, L, R)	
	Sulfide (A4)					Matrix (F2		,	Dark Surface (S7) (LRR K, L, M)			
	Layers (A5) Below Dark S	Surface (A	11)		eted Matri		-/		Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A		11)			ırface (F6)			Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S					Surface (F			☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	yed Matrix (			Redo	x Depress	sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 1498)			
_	ndy Redox (S5)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
Stripped M									Red Parent Material (F21)  Very Shallow Dark Surface (TF12)			
Dark Surface (S7) (LRR R, MLRA 149B)					Other (Explain in Remarks)							
<sup>3</sup> Indicators of	hydrophytic	venetatio	n and wetla	and hydrology	must be i	nresent iii	nless distur	hed or probl		terriarita		
			Traina Trotte		mast 20 j	p. 000, <b>u</b> .	ooo alotai	200 0. p. 02.				
Restrictive La	ayer (II obs	ervea):										
Depth (inch	nes).								Hydric Soil Present?	Yes	No O	
	103)											
Remarks:												
ı												