WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 13-Sep-17								
Applicant/Owner: Enbridge	State:	MN Sampling Point: w-50n20w1-a1								
Investigator(s): PJK	Section, Township, Rang	e: S. 1 T. 50N R. 20W								
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex	x, none): concave Slope: 0.0 % / 0.0 °								
Subregion (LRR or MLRA): LRR K	Lat.: 46 50.8385 Lo	ong.: -92 49.4573								
Soil Map Unit Name: B127B		NWI classification: N/A								
Are climatic/hydrologic conditions on the site typical for this tin	ne of year? Yes O No	(If no, explain in Remarks.)								
		nal Circumstances" present? Yes No								
	-	nai en cambiances present.								
Are Vegetation , Soil , or Hydrology 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 Present? Yes • No	mg samping point location	ons, cransces, important reactives, etc								
Hydric Soil Present? Yes No	Is the Sampled Area	Yes No								
Vac 📵 Na 🔿	within a Wetland?	res 🕙 No 🔾								
Remarks: (Explain alternative procedures here or in a separat										
Uvdrology										
Hydrology Wetland Hydrology Indicators:										
Primary Indicators (minimum of one required; check all that a	unnlu)	Secondary Indicators (minimum of 2 required)								
	ned Leaves (B9)									
High Water Table (A2) Aquatic Fau	, ,	Moss Trim Lines (B16)								
Saturation (A3) Marl Depos	sits (B15)	Dry Season Water Table (C2)								
	Sulfide Odor (C1)	Crayfish Burrows (C8)								
	hizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)								
	f Reduced Iron (C4)	Stunted or Stressed Plants (D1)								
	n Reduction in Tilled Soils (C6)	Geomorphic Position (D2)								
	Surface (C7)	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)								
Sparsely Vegetated Concave Surface (B8)	lain in Remarks)	FAC-neutral Test (D5)								
sparsely regulated constants can late (etc.)		E The fleatilitiest (bb)								
Field Observations: Surface Water Present? Yes No Depth (in	iches): 0									
The Control of the Co	ches):0 Wetland H	ydrology Present? Yes No								
(includes capillary fringe) Yes Vo Depth (in										
Describe Recorded Data (stream gauge, monitoring well, aeria	I photos, previous inspections), if a	vailable:								
Remarks:										

VEGETATION - Use scientific names of plants

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(Blat.d. 20	Absolute		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	0					
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)		
6	0			That Are OBE, TACW, OF FAC.		
7	0			Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15)	0 - Total Cover			Total % Cover of: Multiply by:		
	0			0BL speci es x 1 =		
1				FACW species <u>25</u> x 2 = <u>50</u>		
2				FAC speciles <u>5</u> x 3 = <u>15</u>		
3				FACU species $0 \times 4 = 0$		
4				UPL speci es		
5				Column Totals: 100 (A) 135 (B)		
6						
7				Prevalence Index = B/A = <u>1.350</u>		
Herb Stratum (Plot size: 5		Total Cover		Hydrophytic Vegetation Indicators:		
	//0		OBL	✓ Rapid Test for Hydrophytic Vegetation		
1. Scirpus cyperinus		✓	OBL	✓ Dominance Test is > 50%		
2. Solidago gigantea			FACW	✓ Prevalence Index is ≤3.0 ¹		
3. Calamagrostis canadensis			OBL	Morphological Adaptations ¹ (Provide supporting		
4. Panicum capillare			FAC	data in Remarks or on a separate sheet)		
5. Symphyotrichum novae-angliae			FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
6				1		
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
8	0					
9	0			Definitions of Vegetation Strata:		
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
l1	0			at breast height (DBH), regardless of height.		
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and		
(8) 1 2 20	100 =	Total Cover		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 5.20 it tall.		
3				Woody vine - All woody vines greater than 3.28 ft in		
4				height.		
		Total Cover				
				Hydrophytic Vegetation		
				Present? Yes No		
Remarks: (Include photo numbers here or on a separate sh	eet.)	·				
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^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-50n20w1-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Re	dox Featu					
(inches)	Color (moist)	<u></u>	Color (moist)	%	Type 1	Loc ²	Texture	Remarks	
				-			-		
							-		
1									
		n. RM=Reduc	ed Matrix, CS=Covere	ed or Coate	d Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=M	atrix	
Hydric Soil 1	indicators:						Indicators for Proble	ematic Hydric Soils: ³	
Histosol (A1)		Polyvalue Belov	v Surface (S8) (LRR R	,		(LRR K, L, MLRA 149B)	
Histic Epi	pedon (A2)		MLRA 149B)					x (A16) (LRR K, L, R)	
☐ Black Hist	ic (A3)		Thin Dark Surfa			A 149B)		or Peat (S3) (LRR K, L, R)	
Hydrogen	Sulfide (A4)		Loamy Mucky I						
☐ Stratified	Layers (A5)		Loamy Gleyed	Matrix (F2)			Dark Surface (S7)		
Depleted	Below Dark Surface (A1	1)	Depleted Matri:	(F3)				urface (S8) (LRR K, L)	
	k Surface (A12)		Redox Dark Su	rface (F6)			Thin Dark Surface		
	ıck Mineral (S1)		Depleted Dark	Surface (F7	')			lasses (F12) (LRR K, L, R)	
	eyed Matrix (S4)		Redox Depress	ions (F8)				in Soils (F19) (MLRA 149B)	
Sandy Re) (MLRA 144A, 145, 149B)	
	Matrix (S6)						Red Parent Materia		
		4.40D)					Very Shallow Dark		
☐ Dark Surf	ace (S7) (LRR R, MLRA	149B)					Other (Explain in F	Remarks)	
³ Indicators of	f hydrophytic vegetation	and wetland	hydrology must be p	resent, unl	ess disturb	ed or proble	ematic.		
Restrictive I	ayer (if observed):								
Type:	ayer (ii observea):								
	L \						Hydric Soil Present?	Yes ● No ○	
Depth (inc	nes):						•	100 - 110 -	
Remarks:									
No digging or	n pipeline, active bur	ied utilities.	Soils assumed hyd	dric based	on veget	ation and I	hydrology.		