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-b2
Investigator(s): DPT	Section, Township, Range: S. 1	T. 50N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none)	
Subregion (LRR or MLRA): LRR K	Lat.: 46 50.6755 Long.: -	92 49.1912 Datum: NAD 83
Soil Map Unit Name: B127B		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for t	this time of year? Yes No (If r	no, explain in Remarks.)
Are Vegetation . , Soil . , or Hydrology .	•	umstances" present? Yes No
Are Vegetation , Soil , or Hydrology		in any answers in Remarks.)
Summary of Findings - Attach site map s	, ,	•
Hydrophytic Vegetation Present? Yes No No		-
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	es No
Wetland Hydrology Present? Yes No	within a wettand:	
Remarks: (Explain alternative procedures here or in a s	enarate renort.)	
Hydrology Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:		ondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all Surface Water (A1)		Surface Soil Cracks (B6) Drainage Patterns (B10)
	` '	Moss Trim Lines (B16)
	I Deposits (B15)	Dry Season Water Table (C2)
		Crayfish Burrows (C8)
Sediment Deposits (B2)	dized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	sence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	ent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
	n Muck Surface (C7)	Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other Sparsely Vegetated Concave Surface (B8)	er (Explain in Remarks)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsely vegetated concave surface (56)		FAC-neutral rest (D5)
Field Observations: Surface Water Present? Yes No De	anth (inches).	
	epth (inches): 0	
	epth (inches):0 Wetland Hydrolog	y Present? Yes No
(includes capillary fringe) Yes V NO V	epth (inches): 0	•
Describe Recorded Data (stream gauge, monitoring well	, aerial photos, previous inspections), if available	
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pi	Sampling Point: w-50n20w1-b2			
(Dist. 20)	Absolute	Dominant Species 2	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:3 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es 80 x 1 = 80
1	0			FACW species 20 x 2 = 40
2	0			
3				<u> </u>
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6.				Column Total s: 100 (A) 120 (B)
7				Prevalence Index = B/A = 1.200
		Total Cove		
Herb Stratum (Plot size: 5		- I Clai COVE		Hydrophytic Vegetation Indicators:
1. Scirpus cyperinus	50	✓	OBL	Rapid Test for Hydrophytic Vegetation
		V	FACW	✓ Dominance Test is > 50%
		✓	OBL	✓ Prevalence Index is ≤3.0 ¹
			UBL	☐ Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				17.45.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
12				Capling/abruh Waady planta loop than 2 in DDI land
	100 =	Total Cove	•	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				g. caro. than 0.20 it (iii) taiii
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 Cove	r	
				Hydrophytic
				Vegetation Present? Yes No
				Present? Yes No V
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: w-50n20w1-b2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Depth Matrix Redox Features							_		
(inches)	Color (moist)	<u>%</u>	Color (<u>%</u>	Type ¹	Loc2	Texture	Remarks
0-12	10YR	3/2	80	10YR	4/6	20	С	PL	Clay Loam	
12-20	10YR	4/2	90	10YR	5/6	10	С	М	Silt Loam	
									-	
		-			-				-	
									-	
		-								
		-	_		-					
1 Type: C=Cond	entration. D	=Depletio	n. RM=Red	uced Matrix.	CS=Covere	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil I		200,000		acca manny		,	ou ouriu or	2000		
Histosol (A				Polya	value Relov	w Surface	(S8) (LRR	2		ematic Hydric Soils: 3
	pedon (A2)				4 149B)	v Surface	(30) (LIKIK	Χ,		(LRR K, L, MLRA 149B)
Black Histi				Thin	Dark Surfa	ace (S9) ((LRR R, MLI	RA 149B)		x (A16) (LRR K, L, R)
_	Sulfide (A4)			Loan	ny Mucky M	Mineral (F1	1) LRR K, L)		or Peat (S3) (LRR K, L, R)
_	Layers (A5)			Loan	ny Gleyed	Matrix (F2	2)		Dark Surface (S7)	
_	Below Dark :	Surface (A	11)	☐ Depl	eted Matri	x (F3)				urface (S8) (LRR K, L)
	k Surface (A		,	✓ Redo	x Dark Su	rface (F6)			☐ Thin Dark Surface	
	ck Mineral (S			Depl	eted Dark	Surface (F	7)			lasses (F12) (LRR K, L, R)
	yed Matrix (Redo	x Depress	ions (F8)				in Soils (F19) (MLRA 149B)
Sandy Red		,) (MLRA 144A, 145, 149B)
Stripped N									Red Parent Materia	
	ace (S7) (LR	R R, MLRA	(149B)						✓ Very Shallow Dark ✓ Other (Explain in F	
										Remarks)
³ Indicators of			n and wetia	ina nyarology	must be p	resent, ur	niess distur	bed or probl	ematic.	
Restrictive La	ayer (if obs	erved):								
Type:									Hydric Soil Present?	Yes ● No ○
Depth (inch	nes):								nyuric Soil Present?	Yes S No C
Remarks:										