WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 11-Sep-17
Applicant/Owner: Enbridge	State:	MN Sampling Point: w-51n20w28-a3
Investigator(s): PJK	Section, Township, Range	e: S. 28 T. 51N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.6601 Lo	ong.: -92 52.744
Soil Map Unit Name: B101A		NWI classification: PFOB
Are climatic/hydrologic conditions on the site typical for this t	ime of year? Yes No	(If no, explain in Remarks.)
		nal Circumstances" present? Yes No
		d, explain any answers in Remarks.)
Summary of Findings - Attach site map show	•	
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No	Is the Sampled Area	Yes ● No ○
Wetland Hydrology Present?	within a Wetland?	163 0 140 0
Remarks: (Explain alternative procedures here or in a separa	-t	
Hydrology Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that Surface Water (A1) Water-Stz	apply) ained Leaves (B9)	_ Usurface Soil Cracks (B6) Drainage Patterns (B10)
	auna (B13)	Moss Trim Lines (B16)
	osits (B15)	Dry Season Water Table (C2)
Water Marks (B1) Hydroger	Sulfide Odor (C1)	Crayfish Burrows (C8)
	Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	on Reduction in Tilled Soils (C6)	✓ Geomorphic Position (D2)
[]	k Surface (C7)	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	plain in Remarks)	FAC-neutral Test (D5)
		E The head at 15st (66)
Field Observations: Surface Water Present? Yes No Depth (inches): 0	
· · · · · · · · · · · · · · · · · · ·		
Saturation Present? Ves No Denth (inches): 16 Wetland Hy inches): 10	ydrology Present? Yes $lacktriangle$ No $lacktriangle$
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeri		vallable:
Describe Recorded Data (stream gauge, monitoring well, aen	ai priotos, previous irispections), ii av	raliable.
Remarks:		

VEGETATION - Use scientific names of plants

(5)	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:6(A)
2				
3				Total Number of Dominant Species Across All Strata: 6 (B)
4				Species Across Air Strata. (b)
5				Percent of dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				Burnel and Burnel and American
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15	=	= Total Cove	r	Total % Cover of: Multiply by:
A Allows to some	20	✓	FACW	0BL speci es <u>40</u> x 1 = <u>40</u>
- 0 " / / / /			FACW	FACW species <u>120</u> x 2 = <u>240</u>
			FACW	FAC speciles x 3 =0
3. Salix petiolaris		~	FACW	FACU species0 x 4 =0
4				UPL species $0 \times 5 = 0$
5				(0)
6	0			Column Totals: 160 (A) 280 (B)
7	0			Prevalence Index = B/A = 1.750
(Diet einer E	60 =	= Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				✓ Rapid Test for Hydrophytic Vegetation
1. Carex lacustris	20	✓	OBL	✓ Dominance Test is > 50%
2. Solidago gigantea	40	✓	FACW	
3. Calamagrostis canadensis	20	✓	OBL	✓ Prevalence Index is ≤3.0 ¹
4. Phalaris arundinacea		✓	FACW	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				
6				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ 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.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(8) - 1 - 20	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				
1				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:
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-51n20w28-a3

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

Soil Sampling Point: w-51n20w28-a3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth							-				
(inches)	Color	(moist)	%	Color (moist)	%	Type	Loc2	Texture	Remarks	
0-6	10YR	2/1	100				_		Silt Loam		
6-20	10YR	4/2	80	10YR	5/6	20	С	M	Silty Clay Loam		
	-	-							-		
		-									
¹ Type: C=Cond	centration. I	D=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand G	ains ² Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I	ndicators:								Indicators for Broble	ematic Hydric Soils: 3	
Histosol (A				Poly	/alue Belov	w Surface	(S8) (LRR	R,			
	pedon (A2)				A 149B)					(LRR K, L, MLRA 149B)	
Black Histi				Thin	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)		x (A16) (LRR K, L, R)	
	Sulfide (A4)		Loan	ny Mucky I	Mineral (F1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Layers (A5)			Loan	ny Gleyed	Matrix (F2))		Dark Surface (S7)		
	Below Dark		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 (Depl	eted Dark	Surface (F	7)			lasses (F12) (LRR K, L, R)	
	yed Matrix			Redo	x Depress	ions (F8)				in Soils (F19) (MLRA 149B)	
		(34)			•) (MLRA 144A, 145, 149B)	
Sandy Red									Red Parent Materi	al (F21)	
Stripped N		D D M DA	4.400)						Very Shallow Dark	Surface (TF12)	
□ □ Dark Surfa	ace (S7) (LF	KK K, MLKA	(1498)						Other (Explain in F	Remarks)	
³ Indicators of	hydrophyti	c vegetatio	n and wetla	ind hydrology	must be p	oresent, un	less distur	bed or probl	ematic.		
Restrictive La	aver (if ob	served):									
Type:	., (
Depth (inch	nes).								Hydric Soil Present?	Yes ● No ○	
•	163)										
Remarks:											