WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	County: St. Louis	Samp	ling Date: 12-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n20w35-d1
Investigator(s): PJK		Se	ction, Township, Range:	s. 35 t. 51N	R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local	relief (concave, convex, r	one): concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRI	 ? К	Lat.: 46 51.	3074 Lon g		Datum: NAD 83
Soil Map Unit Name: B104A				NWI classification	
Are climatic/hydrologic conditio	ns on the site typica	ol for this time of year?	Yes ● No ○	— (If no, explain in Rema	
Are Vegetation, Soil	, or Hydrology			Circumstances" present	
Are Vegetation , Soil	, or Hydrology			·	
Summary of Findings -			,	explain any answers in F ns. transects. imp	•
Hydrophytic Vegetation Present					ortanic reactares, etc
			Is the Sampled Area	Yes ● No ○	
Hydric Soil Present?			within a Wetland?	Yes ♥ No ∪	
Wetland Hydrology Present?					
Remarks: (Explain alternative	procedures here or	in a separate report.)			
Active cattle pasture					
I					
I					
Hydrology					
Wetland Hydrology Indicators:				Secondary Indicators (mir	nimum of 2 required)
Primary Indicators (minimum o	of one required; che	ck all that apply)		Surface Soil Cracks (E	
Surface Water (A1)		Water-Stained Leaves (B9))	Drainage Patterns (B	
High Water Table (A2)		Aquatic Fauna (B13)	,	Moss Trim Lines (B16	
Saturation (A3)		Marl Deposits (B15)		☐ Dry Season Water Ta	•
Water Marks (B1)		Hydrogen Sulfide Odor (C	1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)		_ , , , ,	•	Saturation Visible on	
Drift deposits (B3)	Ë	Presence of Reduced Iron		Stunted or Stressed F	- · · ·
Algal Mat or Crust (B4)	F	Recent Iron Reduction in	` '	Geomorphic Position	, ,
Iron Deposits (B5)	F	_	Tillea solis (co)	Shallow Aquitard (D3)	• •
Inundation Visible on Aerial Im	202ry (R7)	Thin Muck Surface (C7)		Microtopographic Reli	
Sparsely Vegetated Concave Su	_	Other (Explain in Remarks)	FAC-neutral Test (D5)	
Sparsery regulation contents of	inace (bo)			FAC-Heutiai Test (Do))
Field Observations:					
	s ○ No ●	Depth (inches):	0		
Water Table Present? Ye:	s O No 💿	Depth (inches):	0		
Saturation Present? (includes capillary fringe) Yes	s O No 💿	· · · · · · · · · · · · · · · · · · ·	Wetland Hyd	rology Present? Yes	, ● No ○
Describe Recorded Data (stream	n gauge, monitoring	well, aerial photos, prev	vious inspections), if avai	lable:	
	gg-,	,, p, p	,,,,,,		
Remarks:					

VEGETATION - Use scientific names of plants

	Absolute		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							
3				Total Number of Dominant Species Across All Strata: 3 (B)			
4				Species Across Air Strata.			
5				Percent of dominant Species			
				That Are OBL, FACW, or FAC:100.0% (A/B)			
6				Burnel and Tarker and			
7				Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cove	•	Total % Cover of: Multiply by:			
1	0			0BL speci es95 x 1 =95			
				FACW species			
2				FAC speci es 0 x 3 = 0			
3				FACU species x 4 =0			
4	-			UPL speci es x 5 =0			
5				· ·			
6	0			Column Totals: <u>95</u> (A) <u>95</u> (B)			
7	0			Prevalence Index = B/A = 1.000			
(Diot size: 5	0 =	= Total Cove		Hydrophytic Vegetation Indicators:			
Herb Stratum (Plot size: 5				✓ Rapid Test for Hydrophytic Vegetation			
1. Scirpus atrovirens	40	✓	OBL	✓ Dominance Test is > 50%			
2. Calamagrostis canadensis	15		OBL				
3. Carex lacustris	20	✓	OBL	✓ Prevalence Index is ≤3.0 ¹			
4. Carex stricta	20	✓	OBL	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
5				l — ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
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				beilintions 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			
(5) - 20	95 =	= Total Cove		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					
				Hydrophytic			
				Vegetation Present? Yes No ○			
				Present? 103 0 110 0			
Remarks: (Include photo numbers here or on a separate she	eet.)						

Sampling Point: w-51n20w35-d1

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

Soil Sampling Point: w-51n20w35-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth (inches)			Redox Features						_			
(inches)	Color (moist)	_ %_	Type ¹		Texture	Rer	marks	
0-6	10YR	3/2	80	10YR	4/6	20	C	PL	Silty Clay Loam			
6-20	10YR	4/1	80	10YR	4/6	_ 20	C		Silt Loam	_		
									-			
				-					-			
-		-		-								
			-		-							
1												
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix												
Hydric Soil I							(OO)	-	Indicators for Prol	olematic Hydr	ic Soils: 3	
Histosol (•				☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)			2 cm Muck (A10) (LRR K, L, ML	RA 149B)		
	pedon (A2)				Thin Dark Surface (S9) (LRR R, MLRA 149B)				Coast Prairie Re	dox (A16) (LRR	K, L, R)	
Black Hist				Loamy Mucky Mineral (F1) LRR K, L)					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4) Layers (A5)			Loamy Gleyed Matrix (F2)				,	Dark Surface (S7) (LRR K, L, M)			
	Below Dark S	Surface (A	11)	Depleted Matrix (F3)					Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A1		,	Redox Dark Surface (F6)					☐ Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S			☐ Dep	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	eyed Matrix (S			Red	ox Depress	sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		,							✓ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)✓ Red Parent Material (F21)			
	Matrix (S6)								☐ Very Shallow Dark Surface (TF12)			
	ace (S7) (LRF	R R, MLRA	A 149B)						Other (Explain in Remarks)			
³ Indicators of	hydrophytic	vegetatio	n and wetl	and hydrology	must ha i	nrasant III	nlace dietur	had or proble		i Kemarks)		
			in and well	ina nyarology	must be j	present, ui	illess distui	bed of proble	emanc.			
Restrictive La	ayer (If obs	erved):										
Type:	\.								Hydric Soil Present?	Yes	No O	
Depth (inch	nes):								•		110 -	
Remarks:												