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-51n20w21-a2
Investigator(s): PJK	Section, Township, Range: S. 21 T. 51N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none): concave Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K Lat.:	46 52.9041 Long.: -92 53.780 Datum: NAD 83
Soil Map Unit Name: B148A	NWI classification: PFO4B
Are climatic/hydrologic conditions on the site typical for this time of y	ear? Yes NO (If no, explain in Remarks.)
	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
-	sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No O	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?
Wetland Hydrology Present? Yes ● No ○	Within a Wetana:
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 Lea	
✓ High Water Table (A2) ✓ Saturation (A3) ✓ Marl Deposits (B15)	
✓ Saturation (A3) ☐ Marl Deposits (B15 ☐ Water Marks (B1) ☐ Hydrogen Sulfide (
I nyaregen samas s	eres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
☐ Drift deposits (B3) ☐ Presence of Reduc	
	ction in Tilled Soils (C6) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surface	
Inundation Visible on Aerial Imagery (B7) Other (Explain in R	
Sparsely Vegetated Concave Surface (B8)	FAC-neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	0
Water Table Present? Yes No Depth (inches):	
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	

VEGETATION - Use scientific names of plants

VEGETATION - Ose scientific fiames of plants			Sampling Point: w-51n20w21-a2	
(Dlate) - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1 Picea mariana	60	✓	FACW	That are OBL, FACW, or FAC:3 (A)
2. Larix laricina		✓	FACW	THIN I GO THE
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4	0			
5		Ē		Percent of dominant Species
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 100.0% (A/B)
7		Ħ		Prevalence Index worksheet:
1.		= Total Cove	_	
Sapling/Shrub Stratum (Plot size: 15	=	= Total Cove	r	
1	0			
2		H		FACW species 80 x 2 = 160
3		П		FAC speciles x 3 =
				FACU speci es x 4 =0
4				UPL speci es x 5 =0
5			-	Column Totals: 160 (A) 240 (B)
6				
7				Prevalence Index = B/A = 1.500
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
				✓ Rapid Test for Hydrophytic Vegetation
1. Chamaedaphne calyculata		✓	OBL	✓ Dominance Test is > 50%
2. Betula pumila			OBL	Prevalence Index is ≤3.0 ¹
3	0			Morphological Adaptations ¹ (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10		П		
				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
1				at breast height (DDF1), regardless of height.
2	-			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30	= 80	= Total Cove	r	greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				
3				Woody vine - All woody vines greater than 3.28 ft in
4			-	height.
	0 =	= Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes No
Pamarke: (Include photo numbers have as an a consumt	shoot)			•
Remarks: (Include photo numbers here or on a separate s	oneet.)			

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

Soil Sampling Point: w-51n20w21-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)						
Depth Matrix	Redox Features	_				
(inches) Color (moist) %	Color (moist) % Type 1 Loc2	<u>Texture</u> <u>Remarks</u>				
0-24 10YR 2/2 100		Peat				
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	· — — — — — — — — — — — — — — — — — — —					
	· ——— ——— ——					
¹ Type: C=Concentration. D=Depletion. RM=Rec	duced Matrix, CS=Covered or Coated Sand Grains ² Loc	ation: PL=Pore Lining. M=Matrix				
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils: 3				
✓ Histosol (A1)	Polyvalue Below Surface (S8) (LRR R,					
Histic Epipedon (A2)	MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
Black Histic (A3)	☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)				
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Dark Surface (S7) (LRR K, L, M)				
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L)				
Thick Dark Surface (A12)	Redox Dark Surface (F6)	☐ Thin Dark Surface (S9) (LRR K, L)				
Sandy Muck Mineral (S1)	Depleted Dark Surface (F7)	☐ Iron-Manganese Masses (F12) (LRR K, L, R)				
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy Redox (S5)		Red Parent Material (F21)				
Stripped Matrix (S6)		☐ Very Shallow Dark Surface (TF12)				
Dark Surface (S7) (LRR R, MLRA 149B)		Other (Explain in Remarks)				
	and hydrology must be present, unless disturbed or prob					
	and hydrology must be present, unless disturbed or prob	nematic.				
Restrictive Layer (if observed):						
Type:		Hydric Soil Present? Yes No				
Depth (inches):		Hydric Soil Present? Yes W No				
Remarks:						