WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 08-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: w-51n21w20-a3
Investigator(s): SMR	Section, Township, Range: S.	20 T. 51N R. 21W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none	
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.3732 Long.:	-93 2.2232 Datum: NAD 83
Soil Map Unit Name: B135A		NWI classification: PFO1B
Are climatic/hydrologic conditions on the site typic	al for this time of year? Yes No (If	f no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology		rcumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		lain any answers in Remarks.)
	nap showing sampling point locations,	•
	Is the Sampled Area	Yes No
	within a Wetland?	TES © INU C
Remarks: (Explain alternative procedures here or		
Hydrology		
Wetland Hydrology Indicators:		econdary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; ch		Surface Soil Cracks (B6)
☐ Surface Water (A1) ☐ High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Drainage Patterns (B10) Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	_ ` ` ` ,
☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	FAC-neutral Test (D5)
, , ,		
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0	
Water Table Present? Yes No		
Saturation Present?	Depth (inches): 0 Wetland Hydrolo Depth (inches): 0	gy Present? Yes No
(includes capillally frilige)	ng well, aerial photos, previous inspections), if available	le:
Demonto		
Remarks:		

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: w-51n21w20-a3			
(2)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1 Fraxinus nigra		✓	FACW	That are OBL, FACW, or FAC:3 (A)
2. Populus tremuloides		✓	FACU	T. I.W. J. CD. St. J.
3. Larix laricina	30	✓	FACW	Total Number of Dominant Species Across All Strata: 4 (B)
4. Picea mariana	10		FACW	
5		Ē		Percent of dominant Species
6		\Box		That Are OBL, FACW, or FAC: 75.0% (A/B)
7		\Box		Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Cove	•	0BL species 40 x 1 = 40
1	0			
2		$\overline{\Box}$		FACW species
3		$\overline{\Box}$		FAC speci es x 3 = 0
4		$\overline{\Box}$		FACU species 20 x 4 = 80
5		$\overline{\Box}$		UPL speci es $0 \times 5 = 0$
6.		$\overline{\Box}$	-	Column Totals: 130 (A) 260 (B)
		$\overline{\Box}$		
7				Prevalence Index = B/A = 2.000
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
	40		ODI	Rapid Test for Hydrophytic Vegetation
1. Carex laslocarpa		✓	OBL	✓ Dominance Test is > 50%
2				✓ Prevalence Index is ≤3.0 ¹
3				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9				Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2.		H		
		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30		- rotal cove	•	greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
т.	0 =	= Total Cove		l nongri
		- Total Cove	•	
				Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			

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

Soil Sampling Point: w-51n21w20-a3

Depth		Matrix				dox Featu			absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type 1	Loc ²	Texture Remark	is
0-5	10YR	2/1	100						Very Fine Sandy Loam	
5-14	10YR	4/2	80	10YR	4/4	20	C	M	Very Fine Sandy Loam	
14-20	10YR	4/1	85	10YR	4/6	15	С	М	Very Fine Sandy Loam	
	-			-						
				-						
		-		-	-			-		
		-		-	-	-		-		
		-			-			-		
¹ Type: C=Cor	ncentration. D	=Depletio	on. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Matrix	
Hydric Soil	Indicators:								Indicators for Problematic Hydric So	oils: 3
Histosol				Poly	value Belo [,] A 149B)	w Surface ((S8) (LRR F	₹,	2 cm Muck (A10) (LRR K, L, MLRA 14	
	ipedon (A2)				,	ace (S9) (I	IDD D MID	οΛ 140P)	Coast Prairie Redox (A16) (LRR K, L,	
Black His				_		Mineral (F1			5 cm Mucky Peat or Peat (S3) (LRR k	
	n Sulfide (A4)					Matrix (F2)			☐ Dark Surface (S7) (LRR K, L, M)	
	Layers (A5)	Curfoos (A	111)		eted Matri		,		Polyvalue Below Surface (S8) (LRR K	(, L)
	Below Dark S rk Surface (A		(11)			rface (F6)			Thin Dark Surface (S9) (LRR K, L)	
	uck Mineral (S			☐ Depl	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR I	
	eyed Matrix (Redo	ox Depress	sions (F8)			Piedmont Floodplain Soils (F19) (MLF	
Sandy Re		,0.,							Mesic Spodic (TA6) (MLRA 144A, 145	5, 149B)
	Matrix (S6)								Red Parent Material (F21) Very Shallow Dark Surface (TF12)	
☐ Dark Sur	face (S7) (LR	R R, MLRA	A 149B)						Other (Explain in Remarks)	
³ Indicators o	of hydrophytic	vegetatio	on and wetla	nd hydrology	must be i	oresent un	less disturk	ned or probl	• •	
Restrictive L			or and wond	na nyarology		5, 555, 11, 4 , 1		704 01 P102		
Type:	ayei (ii obs	eiveu).								
Depth (inc	hes).								Hydric Soil Present? Yes No	0
•										
Remarks:										