

Water Quality Index Worksheet

Calculating the Overall Water Quality of a Section of a River System

Date 4/29/07

Time 12:45 pm

Location Upper St. Croix River upstream from confluence with Eau Claire River

Test Parameter	Test Results (Column A)	Q-Value (Column B)	Weighing Factor (Column C)	Total (Column D)
1. Dissolved Oxygen	<u>113</u> % saturation	98	0.17	16.66
2. Fecal Coliform	<u>1</u> colonies/100 mL	98	0.16	15.68
3. pH	<u>6.6</u> Units	80	0.11	8.8
4. BOD	<u>3.5</u> mg/L	68	0.11	7.48
5. Temperature	<u>0</u> No change in Temp	91	0.10	9.1
6. Total Phosphate	<u>.021</u> mg/L	99	0.10	9.9
7. Nitrates	<u>.45</u> mg/L	98	0.10	9.8
8. Turbidity	<u><10</u> JTU (NTU)/feet	95	0.08	7.6
9. Total Solids	<u>50.4</u> mg/L	88	0.07	6.16

Overall Water Quality Index 91.18 (Excellent)

WQI	Water Rating Scale
91-100	Excellent water quality
71-90	Good water quality
51-70	Medium or average water quality
26-50	Fair water quality
0-25	Poor water quality