Milwaukee River Estabrook Dam

Road Salt Monitoring Data Summary February – December 2011



Photo courtesy of Jim Beecher

Volunteers: John Schafer and Jessica Zalewski

Specific conductance summary:

• 10 measurements taken

Minimum: 560 μS/cm on 3/19/2011

Maximum: 1240 μS/cm on 3/5/2011

Mean: 831 μS/cm

Chloride (Cl⁻) summary:

5 samples collected

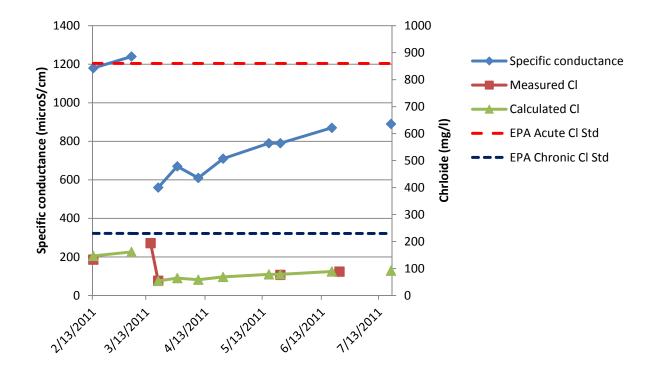
Minimum: 54.7 mg/L 3/19/2011
Maximum: 194 mg/L 3/15/2011

Mean: 109 mg/L

EPA Acute and Chronic Exceedences for Chloride¹:

Neither the EPA acute chloride standard of 860 mg/L nor the chronic chloride standard of 230 mg/L was exceeded at this site based on volunteer monitoring in 2011.

Results Over Time²:



¹ Acute standard: The one-hour average should not exceed 860 mg/L more than once every three years. Chronic standard: The four day average should not exceed 230 mg/L more than once every three years. Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001.

² Calculated chloride: When SC >1540 μ S/cm was Cl = 0.3441 * SC – 291, adjR² = 0.98; when SC was ≤ 1540 μ S/cm was Cl = 1.044 * (exp(0.001609 * SC + 3.046)), adj R² = 0.65. Equations based on data from both Madison and Milwaukee.