Lowes Creek at CTH II

Road Salt Monitoring Data Summary January-December 2012



Photo courtesy of Jim Beecher

Volunteers: Katy Grant, Tim Molitor, Keilor Eggan, and Travis Bender Specific conductance summary:

13 measurements taken

Minimum: 170 μS/cm on 3/31/2012

Maximum: 300 μS/cm on 2/15/2012

Mean: 208 μS/cm

Chloride (Cl⁻) summary:

4 samples collected

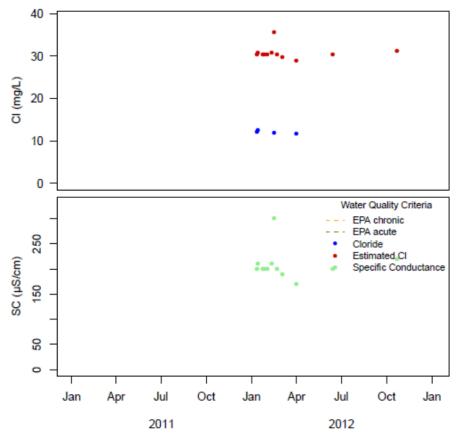
Minimum: 11.7 mg/L on 3/31/2012 Maximum: 12.5 mg/L on 1/13/2012

Mean: 12 mg/L

EPA Acute and Chronic Exceedences for Chloride¹:

Neither the EPA acute chloride standard of 860 mg/L nor the EPA chronic chloride standard of 230 mg/L was exceeded at this site in 2012.

Results Over Time²:



¹ EPA acute chloride standard: The one-hour average concentration should not exceed 860 mg/L more than once every three years. EPA chronic chloride standard: The four day average concentration should not exceed 230 mg/L more than once every three years on average. Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001. ² Calculated chloride: When SC >1540 μS/cm was Cl = 0.3441 * SC – 291, adjR² = 0.98; when SC was \leq 1540 μS/cm was Cl = 1.044 * (exp(0.001609 * SC + 3.046)), adj $R^2 = 0.65$. Equations based on data from both Madison and Milwaukee.