Neenah Slough at CTH JJ

Road Salt Monitoring Data Summary
December 2011- December 2012

Photo courtesy of Jim Beecher

Volunteers: Frank and Lynn Druecke, and Janet Moldenhauer

Specific conductance summary:

- 8 measurements taken
- Minimum: 800 µS/cm on 5/2/2012
- Maximum: 1570 µS/cm on 2/23/2012
- Mean: 1186 µS/cm/

Chloride (Cl^-) summary:

- 5 samples collected
- Minimum: 94.5 mg/L on 5/2/2012
- Maximum: 237 mg/L on 2/23/2012

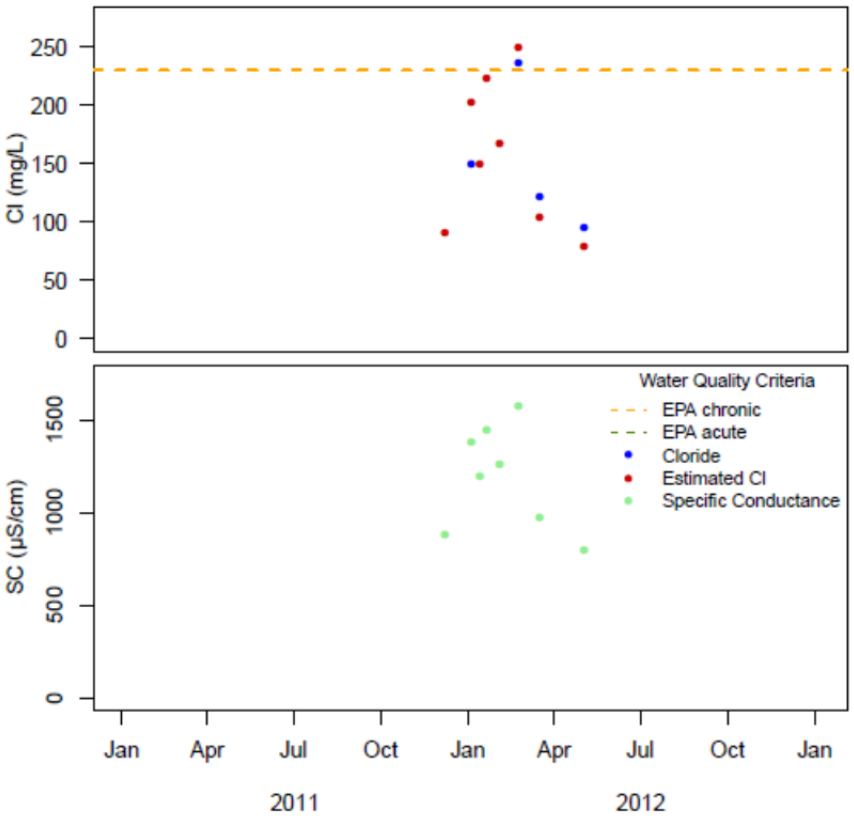
Mean: 165 mg/L

EPA Acute and Chronic Exceedences for Chloride[1]:

The EPA acute chloride standard of 860 mg/L was not exceeded at this site in 2011 or in 2012. The EPA chronic chloride standard of 230 mg/L was not exceeded at this site in 2011, but was exceeded one time in 2012:

- 237 mg/L on 2/23/2012 (measured)

Results Over Time[2]:



[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, adjR^2 = 0.98; when SC was ≤ 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.