

Cedar Creek at Covered Bridge Rd

Road Salt Monitoring Data Summary

February 2011 – January 2013¹

Volunteers: Jim Engstrom and Jim Gennrich



Photo by Jim Gennrich

Specific conductance summary:

- 17 measurements taken
- Minimum: 620 $\mu\text{S}/\text{cm}$ on 4/10/2011
- Maximum: 1550 $\mu\text{S}/\text{cm}$ on 5/4/2012
- Mean: 894 $\mu\text{S}/\text{cm}$

Chloride (Cl^-) summary:

- 5 samples collected
- Minimum: 56.3 mg/L on 5/8/2011
- Maximum: 160 mg/L on 2/17/2011
- Mean: 92 mg/L

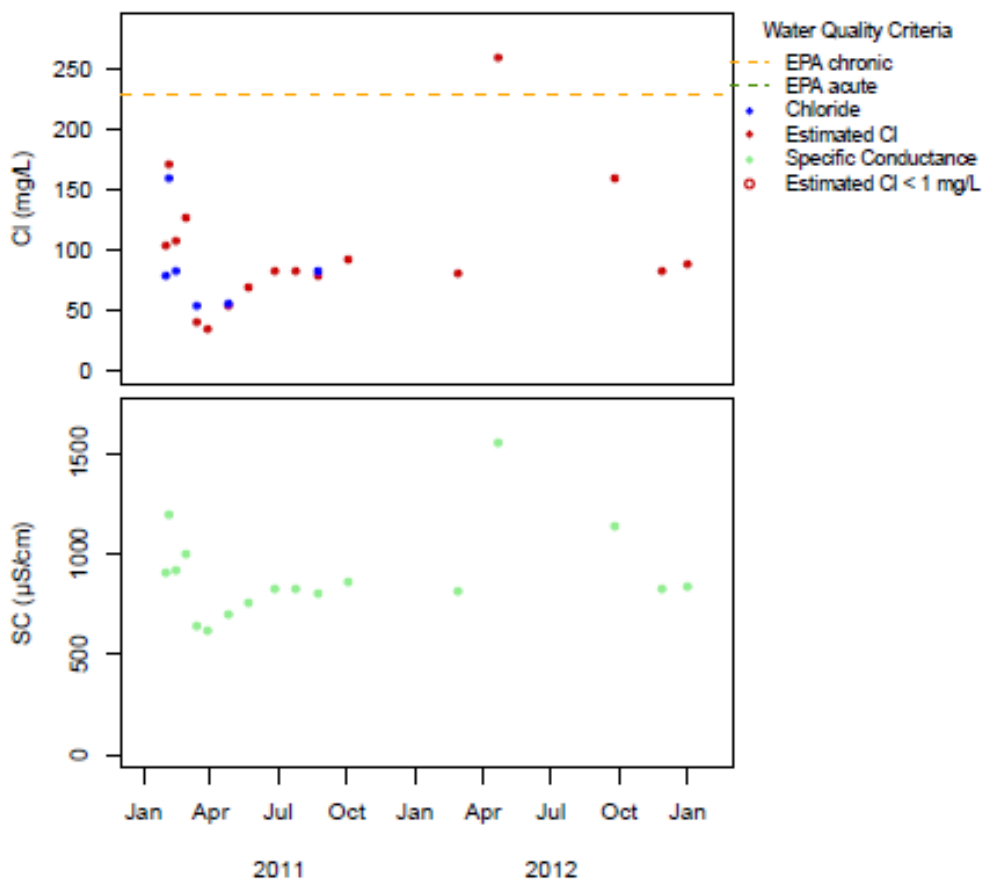
EPA Acute and Chronic Standard Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L has not been exceeded at this site.

However, the EPA chronic chloride standard of 230 mg/L was exceeded one time in 2012:

- 242 mg/L on 5/4/2012 (calculated)³

Results Through December 2013³:



¹ All data in SWIMS as of 8/26/2014 were downloaded

² Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001.

³ Calculated chloride: $\text{Cl} = 0.242 \times \text{SC} - 115.2$, $\text{adjR}^2 = 0.8$, except when $\text{SC} > 2250$, then $\text{Cl} = 0.346 * \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$