

Lily Creek at Good Hope Rd

Road Salt Monitoring Data Summary

February 2011– March 2014¹



Photo courtesy of Jim Beecher

Volunteer: Joe Rath

Specific conductance summary:

- 21 measurements taken
- Minimum: 950 $\mu\text{S}/\text{cm}$ on 8/14/2011
- Maximum: 3300 $\mu\text{S}/\text{cm}$ on 3/1/2011 and 3/12/2011
- Mean: 1870 $\mu\text{S}/\text{cm}$

Chloride (Cl^-) summary:

- 11 samples collected
- Minimum: 188 mg/L on 9/20/2011
- Maximum: 739 mg/L on 2/28/2013
- Mean: 385 mg/L

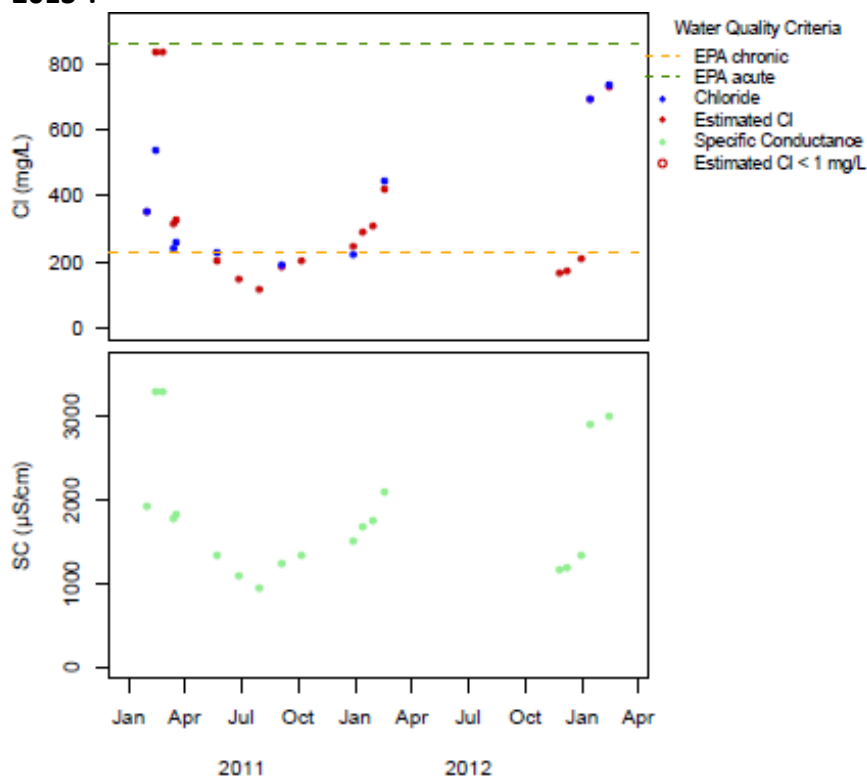
EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L has not been exceeded at this site based on volunteer monitoring efforts.

However, the EPA chronic chloride standard of 230 mg/L has been measured or predicted to have been exceeded 14 times. In addition to those exceedences shown below, these were measured or predicted:

- 323 mg/L on 2/22/2014 (measured)
- 335 mg/L on 3/31/2014 (calculated)
- 624 mg/L on 3/22/2014 (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 $\text{Cl} = 0.346 * \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$