

Campbell Creek at Witzel Ave

Road Salt Monitoring Data Summary

December 2011- April 2013¹



Photo courtesy of Jim Beecher

Volunteers: Brian Sluka and Max McCollow

Specific conductance summary:

- 9 measurements taken
- Minimum: 630 $\mu\text{S}/\text{cm}$ on 10/18/2012
- Maximum: 3200 $\mu\text{S}/\text{cm}$ on 4/11/2012
- Mean: 2079 $\mu\text{S}/\text{cm}$

Chloride (Cl^-) summary:

- 1 sample collected
- 241 mg/L on 4/14/2013

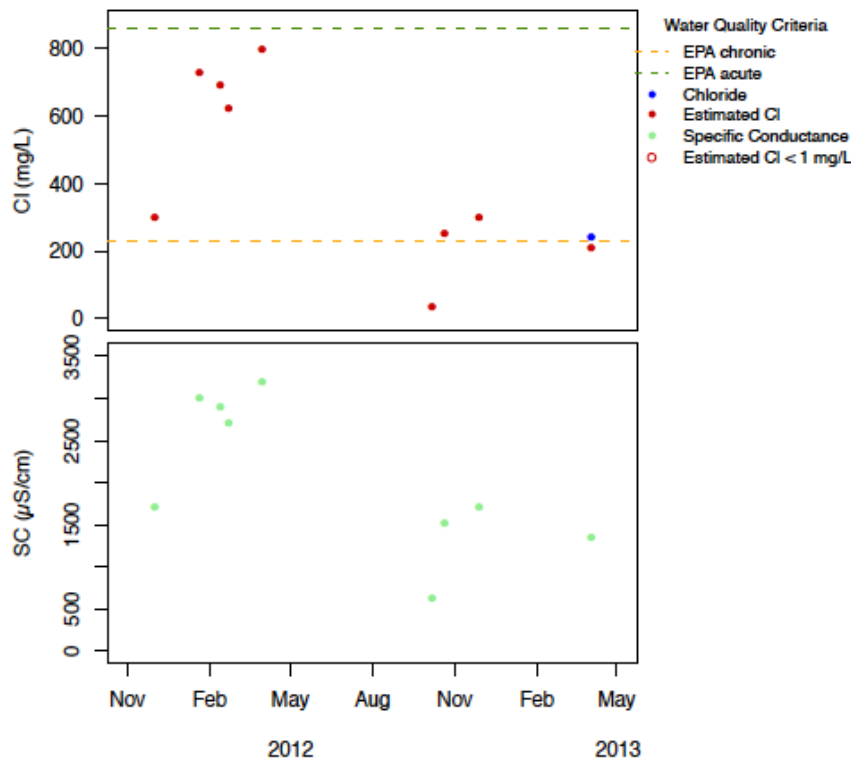
EPA Acute and Chronic Exceedences for Chloride²:

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 measured or predicted to have met or exceeded this standard on a number of occasions:

- 299 mg/L on 12/13/2011 (calculated)³
- 694 mg/L on 2/25/2012 (calculated)
- 797 mg/L on 4/11/2012 (calculated)
- 299 mg/L on 12/10/2012 (calculated)
- 728 mg/L on 2/1/2012 (calculated)
- 624 mg/L on 3/5/2012 (calculated)
- 253 mg/L on 11/1/2012 (calculated)
- 241 mg/L on 4/14/2013 (measured)

Results Through December 2013²:



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

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

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