

Pewaukee River at Capitol Dr Road Salt Monitoring Data Summary November 2012- July 2014¹



Photo by Jim Beecher

Volunteer: Jayne Jenks

Specific conductance summary:

- 32 measurements taken
- Minimum: 820 $\mu\text{S}/\text{cm}$ on 1/30/2013
- Maximum: 3800 $\mu\text{S}/\text{cm}$ on 2/20/2014
- Mean: 1803 $\mu\text{S}/\text{cm}$

Chloride (Cl⁻) summary:

- 2 samples collected
- Minimum: 336 mg/L on 1/30/2014
- Maximum: 991 mg/L on 2/20/2014
- Mean: 664 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

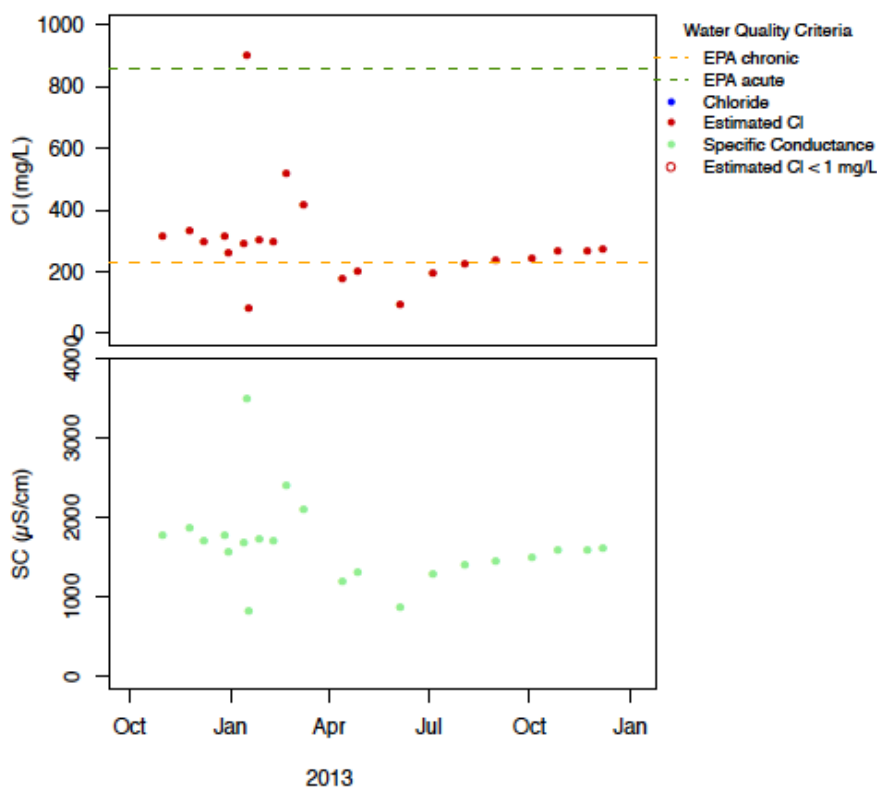
The EPA acute chloride standard of 860 mg/L has been exceeded four times at this site.

- 901 mg/L on 1/28/2013 (calculated)³
- 936 mg/L on 3/11/2014 (calculated)
- 991 mg/L on 2/20/2014 (measured)
- 867 mg/L on 3/13/2014 (calculated)

In addition, the EPA chronic chloride standard of 230 mg/L was exceeded on 19 occasions. Besides those shown on the graph below, the following exceedences were predicted:

- 272 mg/L on 1/10/2014
- 328 mg/L on 3/31/2014
- 340 mg/L on 1/30/2014
- 287 mg/L on 5/8/2014

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