

# Pewaukee River at CTH M

## Road Salt Monitoring Data Summary

### November 2012- July 2014<sup>1</sup>



Photo by Jim Beecher

**Volunteer:** Jayne Jenks

**Specific conductance summary:**

- 33 measurements taken
- Minimum: 830  $\mu\text{S}/\text{cm}$  on 6/17/2013 and 10/15/2013
- Maximum: 2000  $\mu\text{S}/\text{cm}$  on 12/20/2012
- Mean: 1130  $\mu\text{S}/\text{cm}$

**Chloride (Cl<sup>-</sup>) summary:**

- 7 samples collected
- Minimum: 134 mg/L on 6/17/2013
- Maximum: 377 mg/L on 1/28/2013
- Mean: 234 mg/L

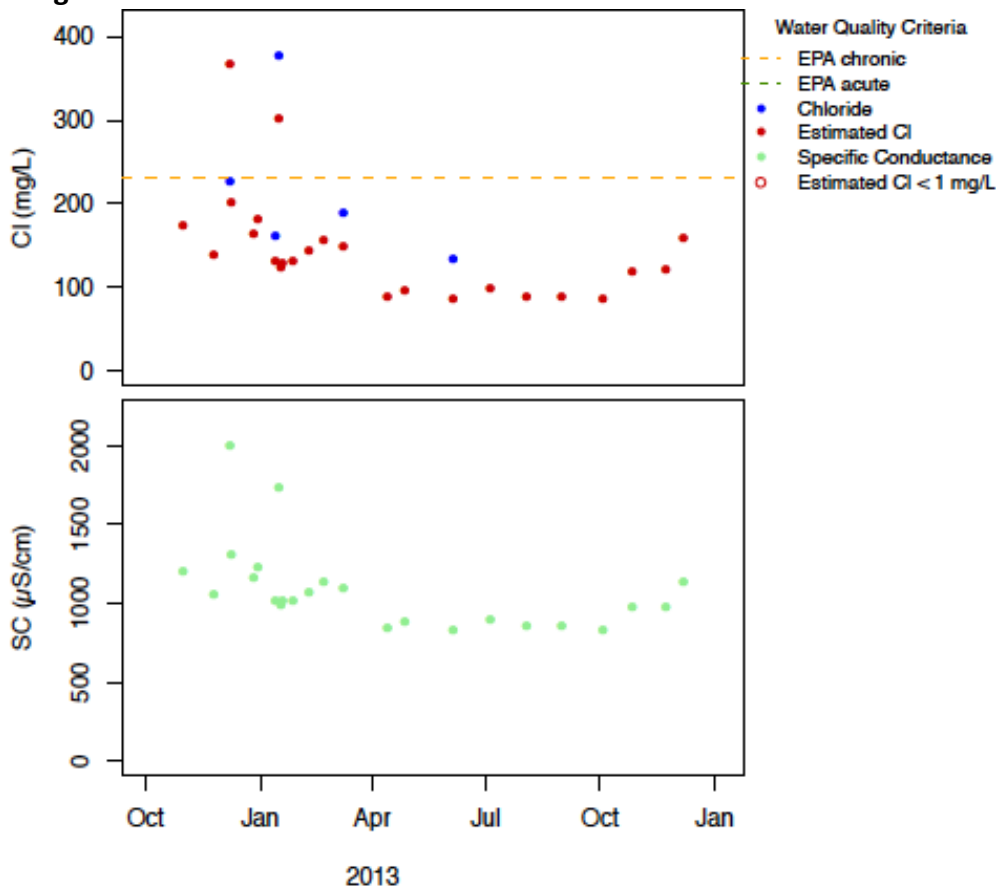
**EPA Acute and Chronic Exceedences for Chloride<sup>2</sup>:**

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

The EPA chronic chloride standard of 230 mg/L was exceeded four times.

- 369 mg/L on 12/20/2012 (calculated)<sup>3</sup>
- 377 mg/L on 1/28/2013 (measured)
- 365 mg/L on 2/20/2014 (measured)
- 243 mg/L on 3/31/2014 (calculated)

**Results Through December 2013<sup>3</sup>:**



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

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

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