

# Pewaukee River at STH 164

## Road Salt Monitoring Data Summary

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



Photo by Jim Beecher

**Volunteer:** Jayne Jenks

**Specific conductance summary:**

- 30 measurements taken
- Minimum: 810  $\mu\text{S}/\text{cm}$  on 6/17/2013
- Maximum: 2200  $\mu\text{S}/\text{cm}$  on 2/20/2014
- Mean: 1294  $\mu\text{S}/\text{cm}$

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

- No samples collected

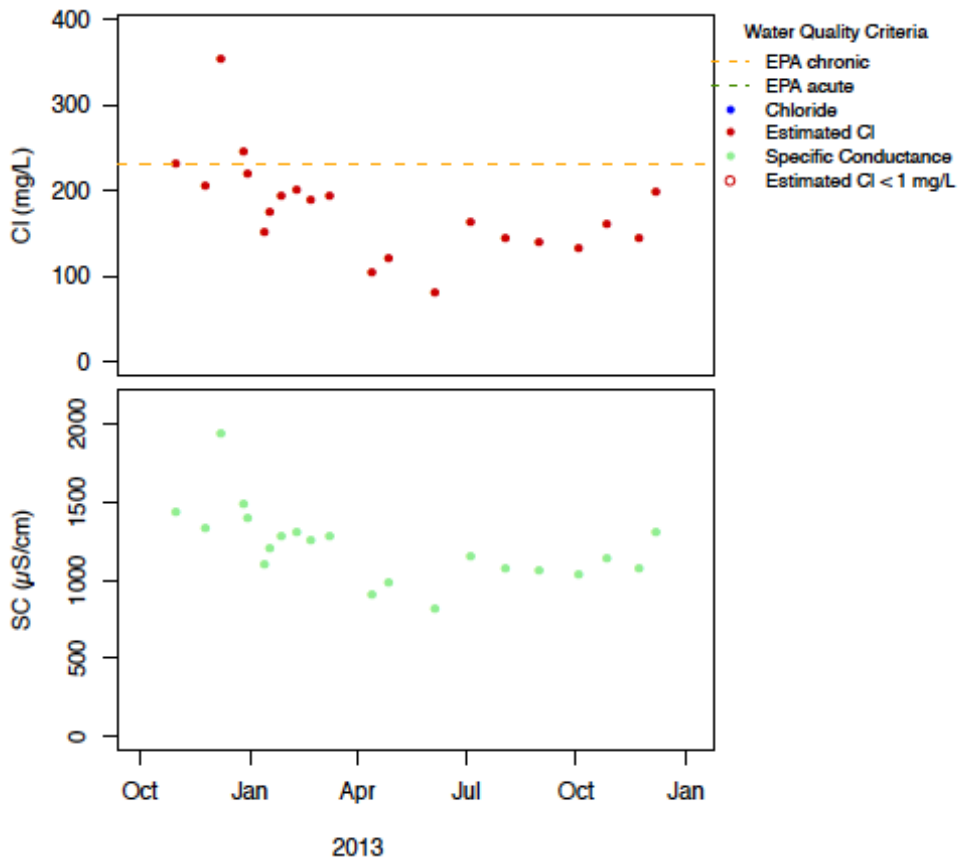
**EPA Acute and Chronic Exceedences for Chloride<sup>2</sup>:**

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 predicted<sup>3</sup> to have been exceeded on seven occasions:

- |                          |                          |
|--------------------------|--------------------------|
| ○ 231 mg/L on 11/12/2012 | ○ 354 mg/L on 12/20/2012 |
| ○ 245 mg/L on 1/8/2013   | ○ 417 mg/L on 2/20/2014  |
| ○ 274 mg/L on 3/11/2014  | ○ 318 mg/L on 3/31/2014  |
| ○ 270 mg/L on 5/8/2014   |                          |

**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  $\text{Cl} = 0.346 * \text{SC} - 309.8$ ,  $\text{adjR}^2 = 0.97$