

# Pike River at Pike River Pathway Walk Bridge

## Road Salt Monitoring Data Summary

February 2012 – May 2013<sup>1</sup>



Photo courtesy of Jim Beecher

**Volunteers:** Chris Blaine

### Specific conductance summary:

- 11 measurements taken
- Minimum: 740  $\mu\text{S}/\text{cm}$  on 4/22/2013
- Maximum: 1745  $\mu\text{S}/\text{cm}$  on 3/7/2012
- Mean: 1200  $\mu\text{S}/\text{cm}$

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

- 13 samples collected
- Minimum: 73.5 mg/L on 4/10/2013
- Maximum: 426.7 mg/L on 3/7/2012
- Mean: 210.17 mg/L

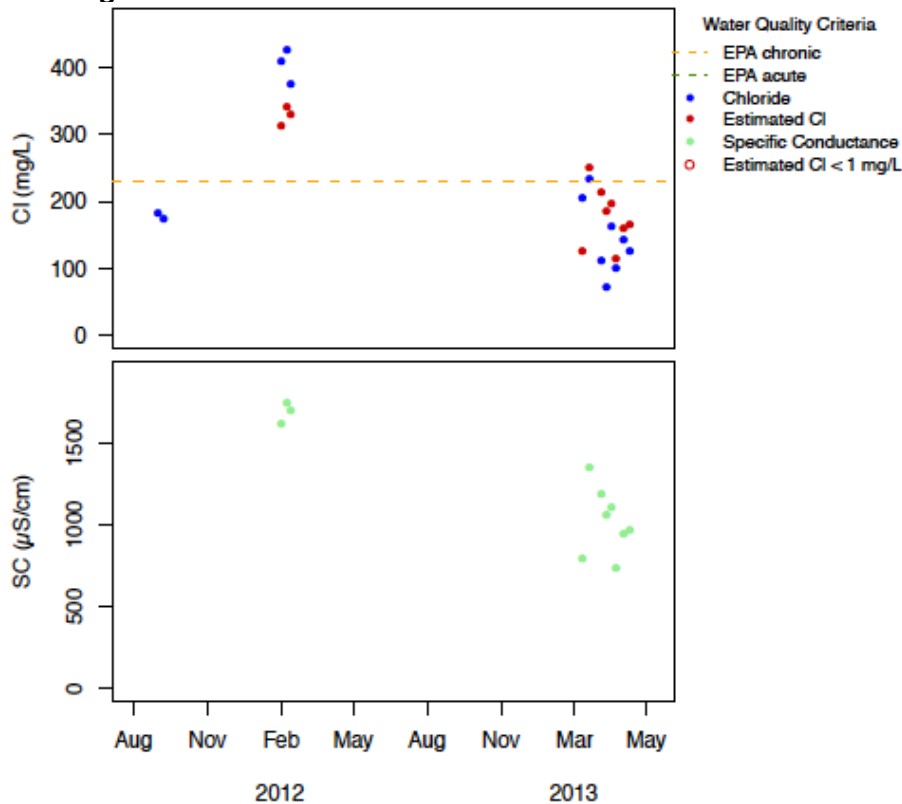
### EPA Acute and Chronic Exceedences for Chloride<sup>2</sup>:

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

However, the EPA chronic chloride standard of 230 mg/L was met or exceeded at this site six times:

- 411 mg/L on 2/29/2012 (measured)
- 375 mg/L on 3/12/2012 (measured)
- 255 mg/L on 4/4/2013 (calculated)
- 427 mg/L on 3/7/2012 (measured)
- 235 mg/L on 3/20/2013 (measured)
- 238 mg/L on 4/16/2013 (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:  $\text{Cl} = 0.225 \times \text{SC} - 52.3$   $\text{adjR}^2 = 0.74$ , except when  $\text{SC} > 2250$ , then  $\text{Cl} = 0.346 \times \text{SC} - 309.8$ ,  $\text{adjR}^2 = 0.97$