Pike River at Middle Entrance Walking Bridge

Road Salt Monitoring Data Summary February 2012 – May 2014¹



Photo courtesy of Jim Beecher

Volunteers: Chris Blaine **Specific conductance summary:**

• 40 measurements taken

Minimum: 540 μS/cm on 3/11/2013
 Maximum: 2275 μS/cm on 2/20/2014

• Mean: 1028 μS/cm

Chloride (Cl⁻) summary:

43 samples collected

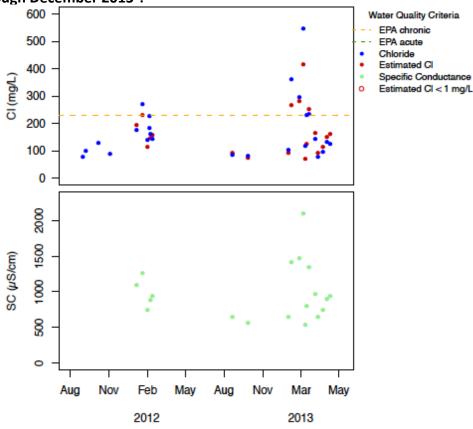
Minimum: 77.4 mg/L on 9/28/2011
Maximum: 661.3 mg/L on 2/20/2014

Mean: 213 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L has not been exceeded at this site based on volunteer monitoring. However, the EPA chronic chloride standard of 230 mg/L has been exceeded on a number of occasions. In addition to those shown below, 12 of 13 site visits made in 2014 between February 20 and May 1 exceeded the limit. These ranged from 243 mg/L to 661 mg/L.

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: CI = $0.225 \times SC - 52.3 \text{ adjR}^2 = 0.74$, except when SC >2250, then CI = $0.346 \times SC - 309.8$, adjR² = 0.97.