Pike River at Walking Bridge-Carthage College

Road Salt Monitoring Data Summary February 2012 – May 2013¹

Volunteers: Chris Blaine



Photo courtesy of Jim Beecher

Specific conductance summary:

24 measurements taken

Minimum: 460 μS/cm on 3/11/2013
 Maximum: 3450 μS/cm on 3/6/2013

Mean: 1004 μS/cm

Chloride (Cl⁻) summary:

28 samples collected

Minimum: 59.4 mg/L on 10/4/2012
Maximum: 1003 mg/L on 3/6/2013

Mean: 180 mg/L

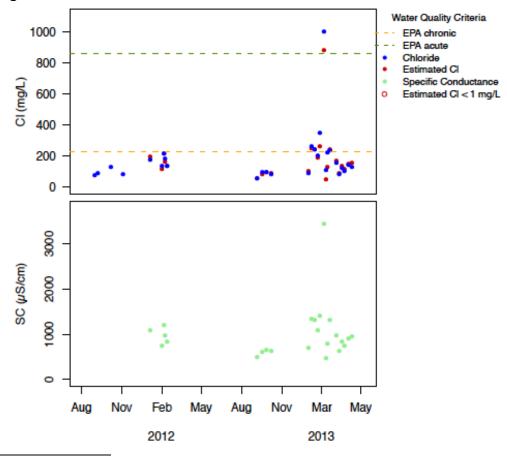
EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L was exceeded once at this site:

1003 mg/L on 3/6/2013 (measured)

In addition, the chronic chloride standard of 230 mg/L was exceeded seven times at this site based on volunteer monitoring. These exceedences are shown on the graph below.

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 x SC-52.3 adjR 2 = 0.74, except when SC >2250, then CI = 0.346 * SC - 309.8, adjR 2 = 0.97