Pike River Between CTH Y and Sheridan Rd

Road Salt Monitoring Data Summary February 2012 –May 2014[1]

Photo courtesy of Jim Beecher

Volunteers: Chris Blaine

Specific conductance summary:

- 41 measurements taken
- Minimum: 360 µS/cm on 3/11/2013
- Maximum: 1600 µS/cm on 2/20/2014
- Mean: 921 µS/cm

Chloride (Cl^-) summary:

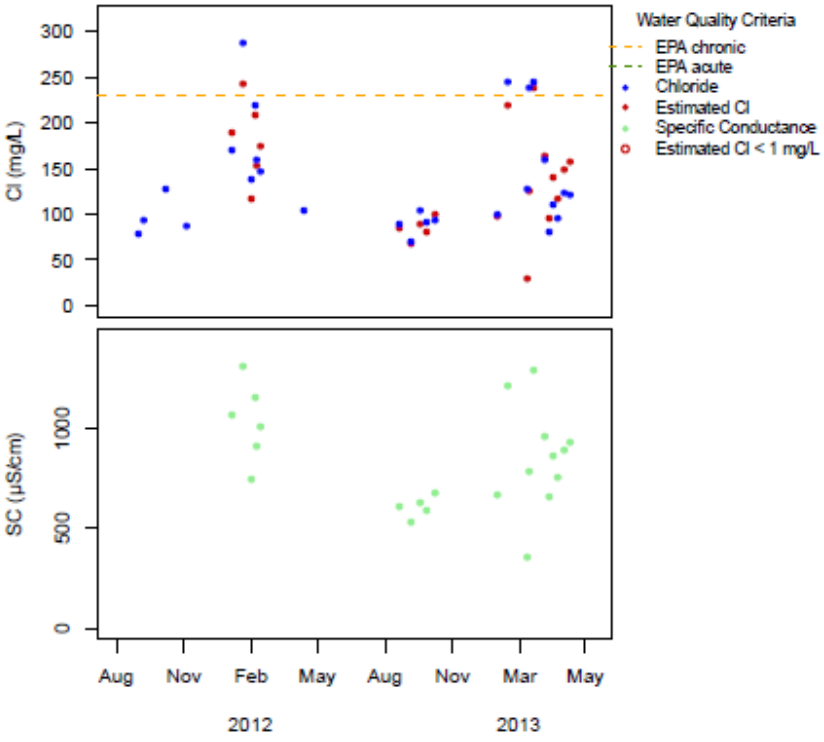
- 43 samples collected
- Minimum: 69.3 mg/L on 10/4/2012
- Maximum: 434.8 mg/L on 4/28/2014
- Mean: 180 mg/L

EPA Acute and Chronic Exceedences for Chloride[2]:

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 exceedences shown on the graph below, the following were predicted:

- 429 mg/L on 2/20/2014 (measured)
- 235 mg/L on 3/28/2014 (measured)
- 279 mg/L on 4/6/2014 (measured)
- 427 mg/L on 4/13/2014 (measured)
- 435 on 4/28/2014 (measured)
- 301 mg/L on 3/12/2014 (measured)
- 234 mg/L on 3/31/2014 (measured)
- 327 mg/L on 4/10/2014 (measured)
- 257 mg/L on 4/15/2014 (measured)
- 338 mg/L on 5/1/2014 (measured)

Results Through December 2013[3]:



[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: Cl = 0.225 x SC−52.3 adjR^2 = 0.74, except when SC >2250, then Cl = 0.346 * SC – 309.8, adjR^2 = 0.97