Pike Creek at 41

Road Salt Monitoring Data Summary February 2012 – May 2014¹



Photo courtesy of Jim Beecher

Volunteers: Chris Blaine

Specific conductance summary:

• 48 measurements taken

Minimum: 445 μS/cm on 3/12/2012
 Maximum: 11700 μS/cm on 3/6/2013

Mean: 1665 μS/cm

Chloride (Cl⁻) summary:

47 samples collected

Minimum: 80.7 mg/L on 3/12/2012
Maximum: 3473 mg/L on 3/6/2013

Mean: 415 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L was exceeded three times at this site based on volunteer monitoring:

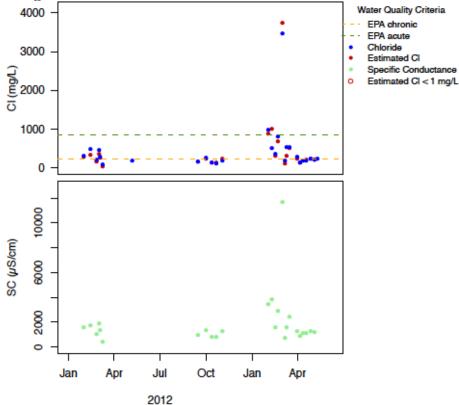
994 mg/L on 2/6/2013 (measured)

o 1008 mg/L on 2/13/2013 (calculated)³

o 3473 mg/L on 3/6/2013 (measured)

In addition, the EPA chronic chloride standard of 230 mg/L was met or exceeded 33 times at this site. This includes all 14 measurements made between February and May 2014.

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