Root River at Puetz Rd

Road Salt Monitoring Data Summary February 2011–December 2013¹



Photo courtesy of Jim Beecher

Volunteer: Kevin Hensiak **Specific conductance summary:**

42 measurements taken

Minimum: 18.4 μS/cm on 2/20/2011
 Maximum: 5700 μS/cm on 2/16/2011

• Mean: 1567 μS/cm

Chloride (Cl⁻) summary:

8 samples collected

Minimum: 111 mg/L on 9/28/2011Maximum: 1100 mg/L on 3/1/2011

Mean: 426 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:

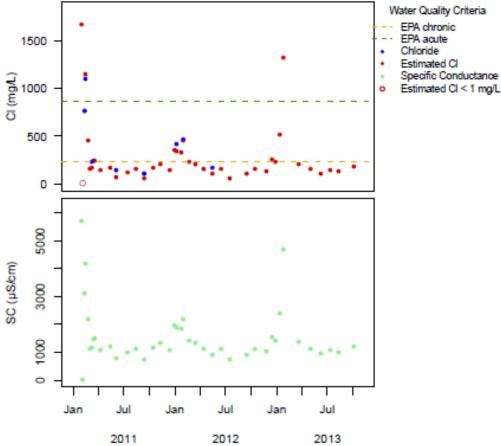
o 1662 mg/L on 2/16/2011 (calculated)³³

o 1100 mg/L on 3/1/2011 (measured)

o 1316 mg/L on 2/1/2013 (calculated)

In addition, the EPA chronic chloride standard of 230 mg/L was predicted to have been exceeded 10 times as shown on the graph below:

Results Through December 2013³:



 $^{^{}m 1}$ 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 = 0.242 x SC-115.2 adjR 2 = 0.8, except when SC >2250, then CI = 0.346 * SC - 309.8, adjR 2 = 0.97