Kinnickinnic River at 11th St

Road Salt Monitoring Data Summary February 2011 – March 2014¹

Volunteers: Joe Rath

Specific conductance summary:

• 18 measurements taken

Minimum: 3 μS/cm on 2/11/2013
Maximum: 14900 μS/cm on 1/28/2013

• Mean: 1660 μS/cm



Chloride (Cl⁻) summary:

11 samples collected

Minimum: 307 mg/L on 10/7/2011Maximum: 4890 mg/L on 2/28/2013

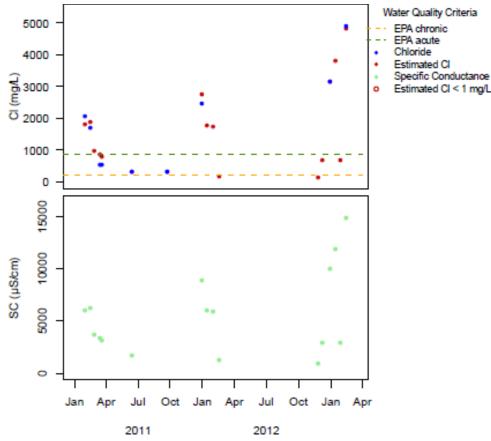
Mean: 1574 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L was exceeded numerous times at this site. In addition to those exceedences shown on the graph below, the following were measured or predicted:

 \circ 1010 mg/L on 2/22/2014 (measured) \circ 1213 mg/L on 3/31/2014 (calculated) ³ In addition, the EPA chronic chloride standard of 230 mg/L was exceeded five times, as displayed 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.

Photo courtesy of Jim Beecher

 $^{^{3}}$ 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