# Starkweather, E. Br. at Commercial

## *Road Salt Monitoring Data Summary*

## *February 2011 – December 2013*[1]

Photo courtesy of Jim Beecher

**Volunteers:** Erin and Jake Vennie-Vollrath

**Specific conductance summary:**

- 28 measurements taken
- Minimum: 370 µS/cm on 9/3/2011
- Maximum: 5500 µS/cm on 1/24/2012
- Mean: 1780 µS/cm

**Chloride ($Cl^-$) summary:**

- 5 samples collected
- Minimum: 44.8 mg/L on 9/3/2011
- Maximum: 1610 mg/L on 1/24/2012
- Mean: 572 mg/L

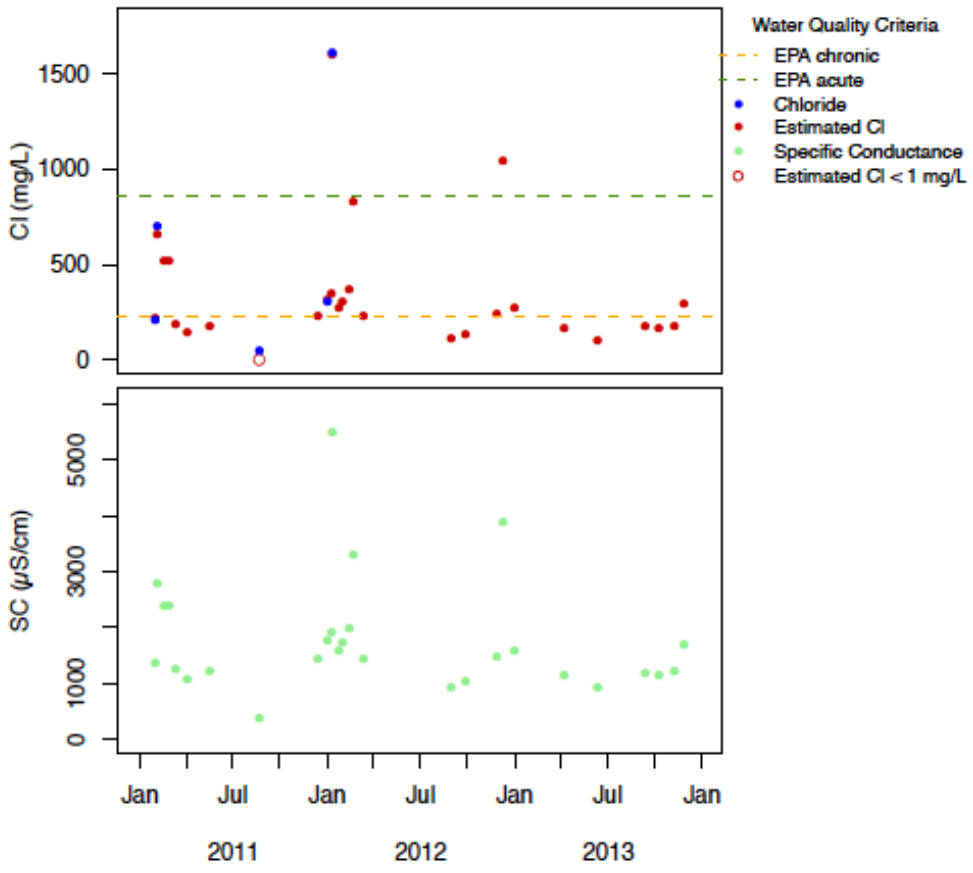
**EPA Acute and Chronic Exceedences for Chloride[2]:**

The EPA acute chloride standard of 860 mg/L was exceeded twice:

- 1610 mg/L on 1/24/2012 (measured)
- 1040 mg/L on 12/21/2012 (calculated)[3]

The EPA chronic chloride standard of 230 mg/L was exceeded thirteen times at this site. These measured and predicted exceedences are displayed on the graph below.

**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 = 0.242 x SC−115.2 adj$R^2$ = 0.8, except when SC >2250, then Cl = 0.346 * SC – 309.8, adj$R^2$ = 0.97