

Fox River at River Rd Sussex

Road Salt Monitoring Data Summary

February 2011- July 2014¹



Photo by Jim Beecher

Volunteer: Jayne Jenks (2013-14), Nicholas LaFave (2011-12)

Specific conductance summary:

- 41 measurements taken
- Minimum: 490 $\mu\text{S}/\text{cm}$ on 1/30/2013
- Maximum: 1340 $\mu\text{S}/\text{cm}$ on 2/20/2014
- Mean: 1043 $\mu\text{S}/\text{cm}$

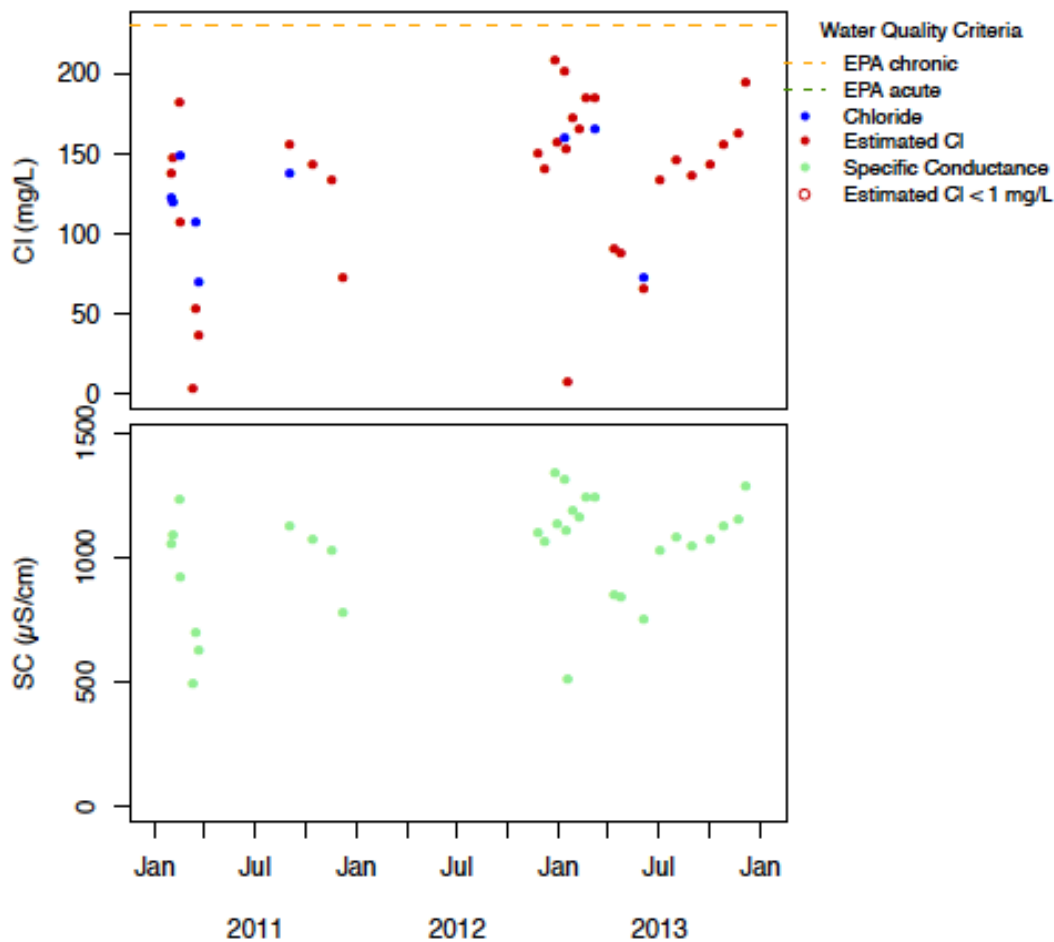
Chloride (Cl^-) summary:

- 11 samples collected
- Minimum: 69.3 mg/L on 4/4/2011
- Maximum: 165 mg/L on 3/21/2013
- Mean: 126 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

Neither the EPA acute chloride standard of 860 mg/L nor the EPA chronic chloride standard of 230 mg/L were exceeded at this site.

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: $\text{Cl} = 0.242 * \text{SC} - 115.2$, $\text{adjR}^2 = 0.8$, except when $\text{SC} > 2250$, then $\text{Cl} = 0.346 * \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$