

Lake Wingra Arboretum Big Spring

Road Salt Monitoring Data Summary March 2012 – May 2014¹



Photo by Eric Bannerman

Volunteers: Roger Bannerman

Specific conductance summary:

- 13 measurements taken
- Minimum: 1080 $\mu\text{S}/\text{cm}$ on 5/21/2014
- Maximum: 1140 $\mu\text{S}/\text{cm}$ on 3/25/2013
- Mean: 1102 $\mu\text{S}/\text{cm}$

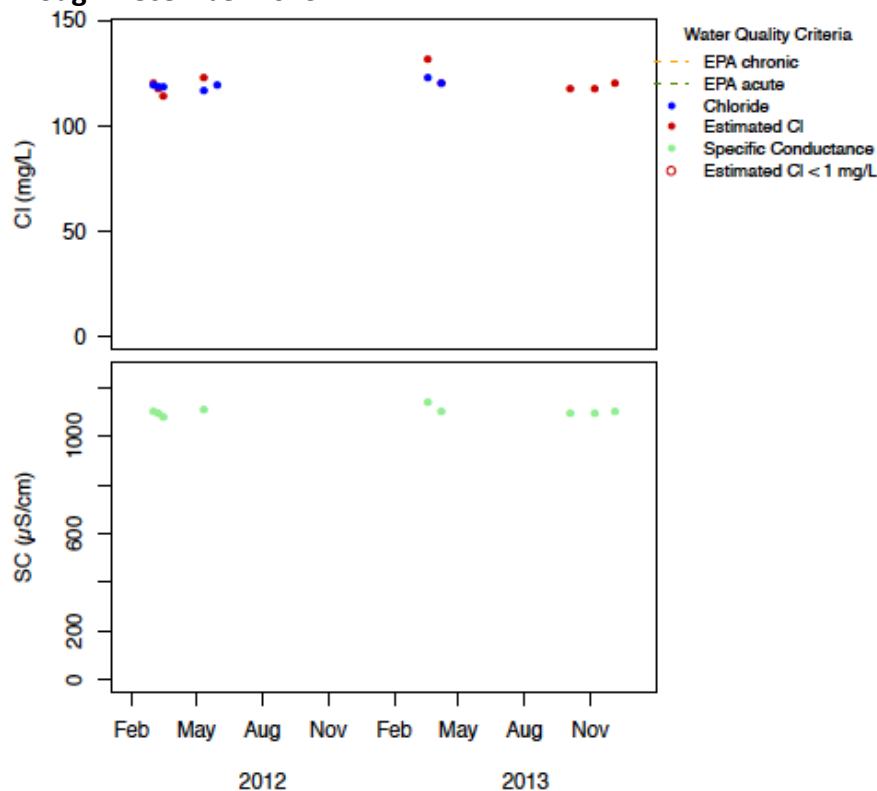
Chloride (Cl⁻) summary:

- 7 samples collected
- Minimum: 117 mg/L on 5/17/2012
- Maximum: 123 mg/L on 3/25/2013
- Mean: 119 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

Neither the EPA acute chloride standard of 860 mg/L nor the chronic chloride standard of 230 mg/L was exceeded at this site based on volunteer monitoring.

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