

# Neenah Slough at Cameron Way

## Road Salt Monitoring Data Summary

### December 2011- May 2014<sup>1</sup>



Photo: Jim Beecher

**Volunteers:** Luke Vandenburg and Jonathon Lisowe (2011-2), Ashley Lloyd (2014)

**Specific conductance summary:**

- 13 measurements taken
- Minimum: 860  $\mu\text{S}/\text{cm}$  on 3/12/2012
- Maximum: 13000  $\mu\text{S}/\text{cm}$  on 12/31/2011 and 3/4/2012
- Mean: 7015  $\mu\text{S}/\text{cm}$

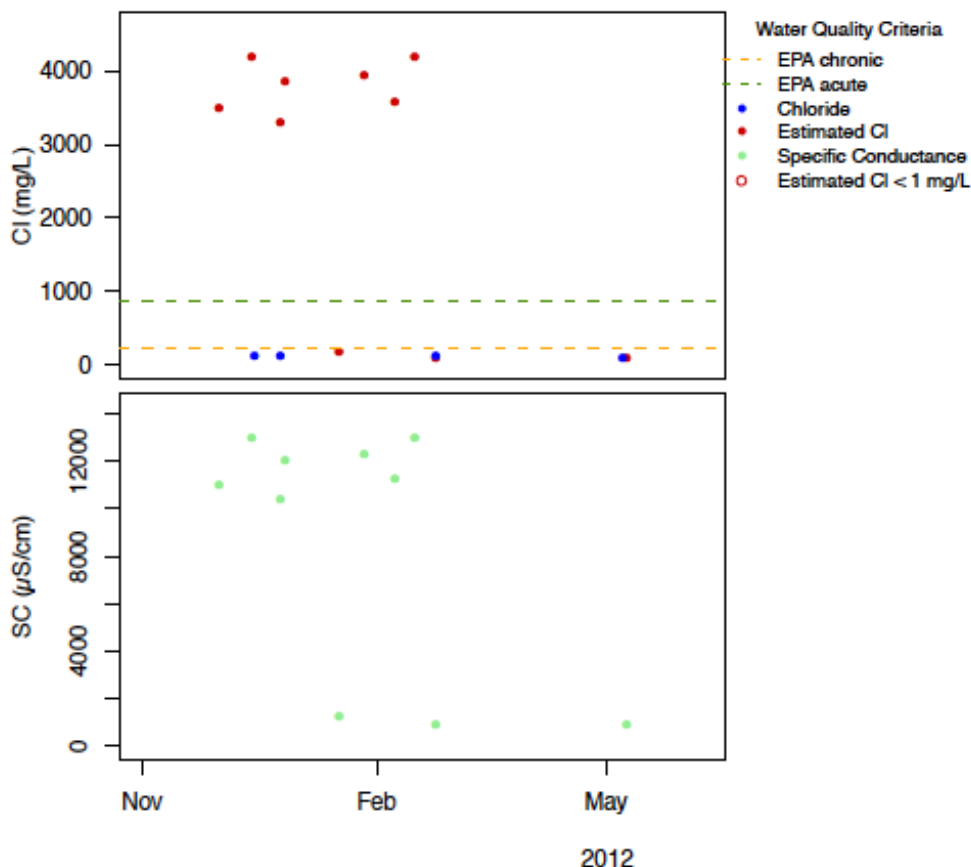
**Chloride ( $\text{Cl}^-$ ) summary:**

- 4 samples collected
- Minimum: 87.8 mg/L on 5/25/2012
- Maximum: 131 mg/L on 3/12/2012
- Mean: 112 mg/L

**EPA Acute and Chronic Exceedences for Chloride<sup>2</sup>:**

The EPA acute chloride standard of 860 mg/L was exceeded on multiple occasions at this site<sup>3,4</sup>. Calculated estimations also suggest that the EPA chronic chloride standard of 230 mg/L was also exceeded at this site on 3/11/2014 with an estimated measure of 728 mg/L of chloride.

**Results Through December 2013<sup>2</sup>:**



<sup>1</sup> All data in SWIMS as of 8/26/2014 downloaded

<sup>2</sup> Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001.

<sup>3</sup>  $\text{Cl} = 0.242 * \text{SC} - 115.2$ ,  $\text{adjR}^2 = 0.8$ , except when  $\text{SC} > 2250$ , then  $\text{Cl} = 0.346 * \text{SC} - 309.8$ ,  $\text{adjR}^2 = 0.97$

<sup>4</sup> These calculated values are extremely high and thus suspect. There may be something different happening at this site from other sites.