

# Mud Creek at CTH BB

## Road Salt Monitoring Data Summary

December 2011- June 2014<sup>1</sup>



**Volunteers:** Sandy Vander Velden (2011-2), Teresa Weglarz and students (2014)

### Specific conductance summary:

- 14 measurements taken
- Minimum: 730  $\mu\text{S}/\text{cm}$  on 12/10/2011
- Maximum: 2700  $\mu\text{S}/\text{cm}$  on 3/5/2012
- Mean: 1559  $\mu\text{S}/\text{cm}$

### Chloride (Cl<sup>-</sup>) summary:

- 5 samples collected
- Minimum: 177 mg/L on 4/22/2012
- Maximum: 616 mg/L on 3/5/2012
- Mean: 368 mg/L

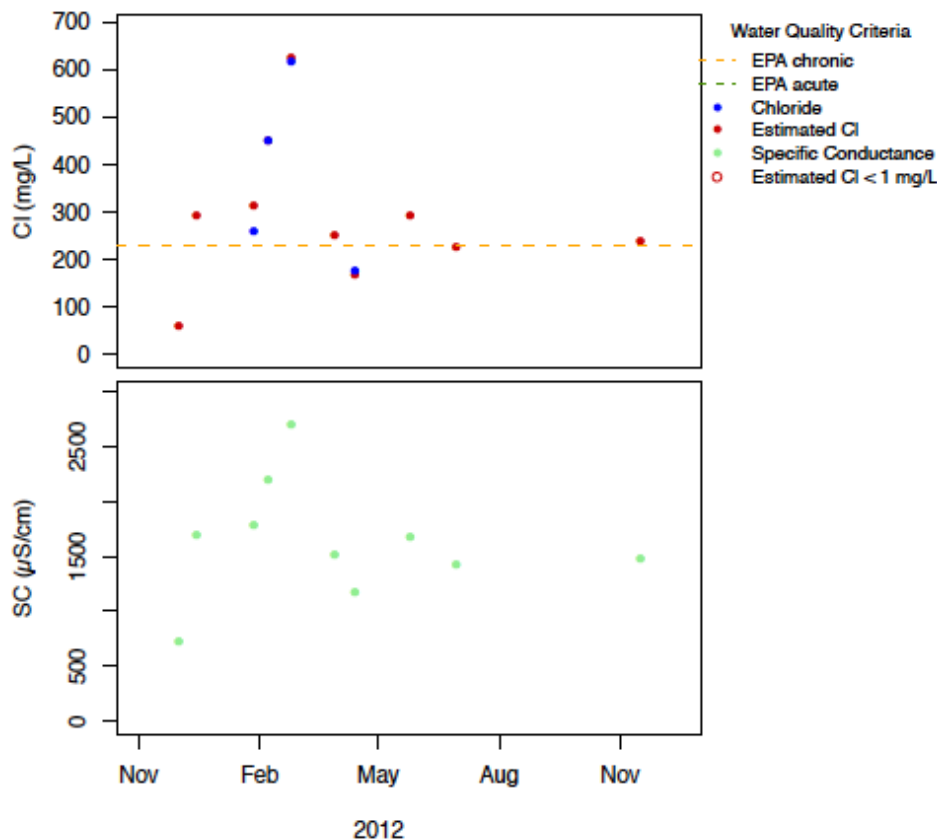
### EPA Acute and Chronic Exceedences for Chloride<sup>2</sup>:

The EPA acute chloride standard of 860 mg/L has not been exceeded at this site.

The EPA chronic chloride standard of 230 mg/L was measured or predicted to have met or exceeded this standard on a number of occasions between December 2011 and May 2014. In addition to the exceedences shown on the graph below, calculated estimations suggest the following exceedences in 2014:<sup>3</sup>

- 295 mg/L on 4/2/2014
- 250 mg/L on 5/27/2014

### Results Through December 2013<sup>3</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> Calculated chloride:  $\text{Cl} = 0.242 * \text{SC} - 115.2$ ,  $\text{adjR}^2 = 0.8$ , except when  $\text{SC} > 2250$ , then  $\text{Cl} = 0.346 * \text{SC} - 309.8$ ,  $\text{adjR}^2 = 0.97$