

# Pigeon River by Wauwautosa Rd

## Road Salt Monitoring Data Summary

February 2011– November 2013<sup>1</sup>



Photo courtesy of Jim Beecher

**Volunteer:** Shannon Teresinski

### Specific conductance summary:

- 23 measurements taken
- Minimum: 700  $\mu\text{S}/\text{cm}$  on 9/26/2011
- Maximum: 1060  $\mu\text{S}/\text{cm}$  on 3/11/2011
- Mean: 836  $\mu\text{S}/\text{cm}$

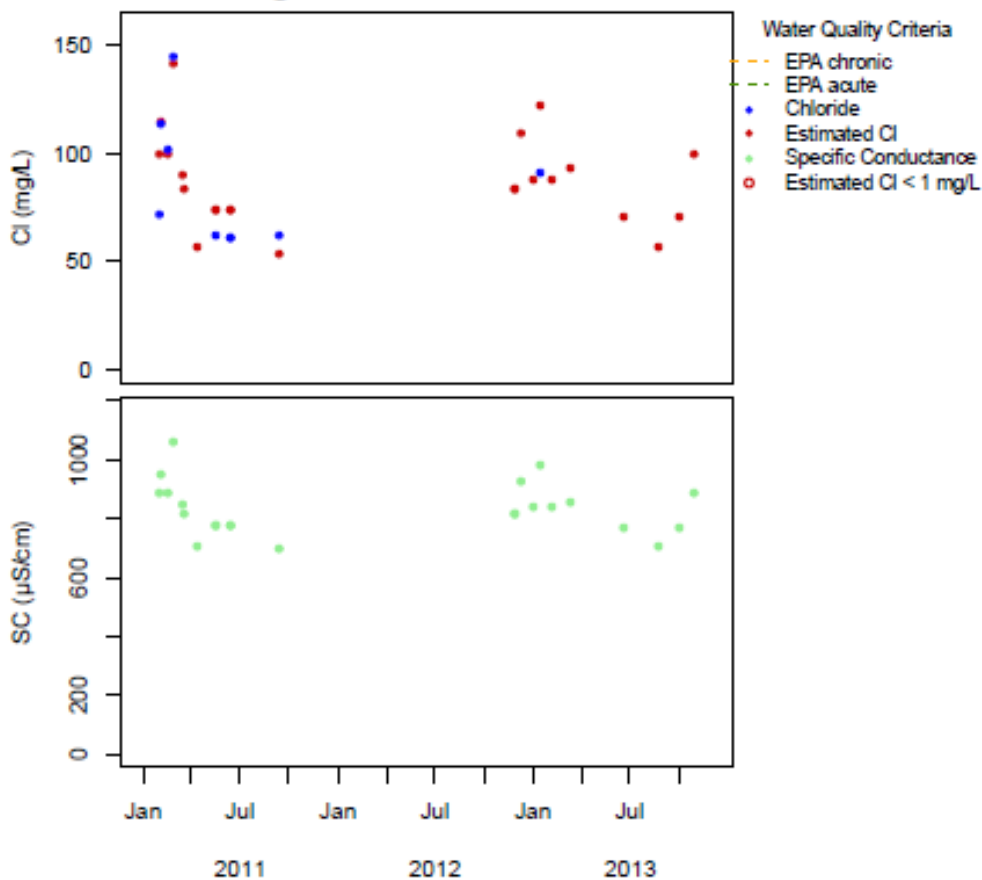
### Chloride (Cl<sup>-</sup>) summary:

- 7 samples collected
- Minimum: 61.1 mg/L on 6/27/2011
- Maximum: 144 mg/L on 3/11/2011
- Mean: 88 mg/L

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

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

### Results Through December 2013<sup>3</sup>:



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

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

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