# Pigeon River by Wauwautosa Rd

## Road Salt Monitoring Data Summary February –December 2011



Photo courtesy of Jim Beecher

## **Specific conductance summary:**

Volunteer: Phil Strobel

• 10 measurements taken

Minimum: 700 μS/cm on 9/26/2011
Maximum: 1060 μS/cm on 3/11/2011

Mean: 843 μS/cm

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

7 samples collected

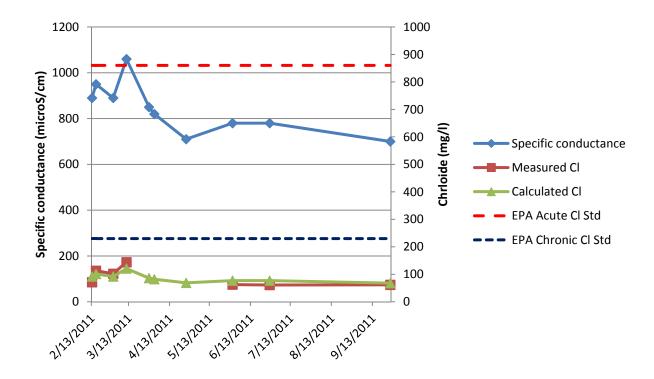
Minimum: 61.1 mg/L 6/27/2011Maximum: 113 mg/L 2/16/2011

Mean: 88 mg/L

### EPA Acute and Chronic Exceedences for Chloride<sup>1</sup>:

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 in 2011.

#### Results Over Time<sup>2</sup>:



<sup>&</sup>lt;sup>1</sup> Acute standard: The one-hour average should not exceed 860 mg/L more than once every three years. Chronic standard: The four day average should not exceed 230 mg/L more than once every three years. Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001.

<sup>&</sup>lt;sup>2</sup> Calculated chloride: When SC >1540  $\mu$ S/cm was Cl = 0.3441 \* SC – 291, adjR<sup>2</sup> = 0.98; when SC was ≤ 1540  $\mu$ S/cm was Cl = 1.044 \* (exp(0.001609 \* SC + 3.046)), adj R<sup>2</sup> = 0.65. Equations based on data from both Madison and Milwaukee.