# Yahara River at Jenifer St

## Road Salt Monitoring Data Summary February – December 2011

THE REAL PROPERTY OF THE PROPE

Photo courtesy of Jim Beecher

Volunteers: Christina and Ian Anderson

### **Specific conductance summary:**

• 11 measurements taken

Minimum: 440 μS/cm on 4/2/2011
 Maximum: 600 μS/cm on 2/13/2011

Mean: 496 μS/cm

### Chloride (Cl⁻) summary:

6 samples collected

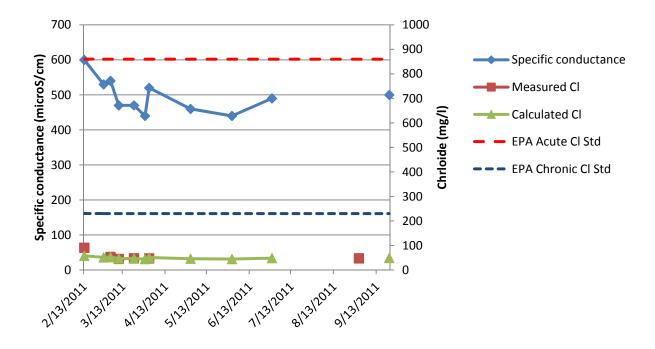
Minimum: 45.2 mg/L 3/18/2011
Maximum: 90.8 mg/L 2/13/2011

Mean: 55 mg/L

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

Neither the EPA acute nor chronic chloride standards were exceeded at this site based on volunteer monitoring in 2011.

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



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

<sup>&</sup>lt;sup>2</sup> Two regression equations calculated based on specific conductance and chloride data collected from the Madison and Milwaukee areas collectively. The equation used when specific conductance >1540 μS/cm was Cl = 0.3441 \* SC − 291, adjR<sup>2</sup> = 0.98; and when specific conductance ≤ 1540 μS/cm was Cl = 1.044 \* (exp(0.001609 \* SC + 3.046)), adj R<sup>2</sup> = 0.65.