

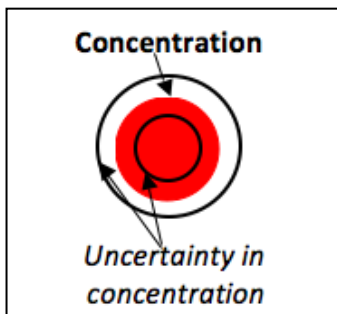
In February, 2013, South Sound Green collected 3 samples from two different creeks in South Puget Sound.



**Fig 1.** Map showing where South Sound Green collected samples in February, 2013.

## Understanding the Data

The following pages show a comparison of the relative concentrations observed at the three sites.



**Fig 2.** Legend for how to read heat maps on the following page.

**Ratios:** The data shared in this report are in relative concentrations (ratios). If a ratio is 3:1, that means that for every 3 units at site A, there was 1 unit at site B (e.g. 3 ng/L at site A vs. 1 ng/L at site B). It's important to note a large circle does NOT mean a high concentration. For example, there could be a 3:1 ratio, but we could have had small concentrations like 0.3 ng/L and 0.1 ng/L.

**Heat maps:** We chose to show visual representations of ratios (called heat maps even though they don't show temperature) so we could quickly see differences between sites. The **concentration** is represented by the **area** of the red circle and the **uncertainty** in this concentration is represented by the **space** between the inner and outer black circles.

**Non-Detects:** At some sampling locations, chemicals were not present at levels above our laboratory's ability to detect them. Non-detects are indicated by a lack of a circle at a sampling location. The detection limit varies with each chemical, but is generally below 1 ng/L or less than 1 part-per-trillion.

*SoundCitizen protocols are not designed to meet regulatory compliance requirements. Data shared here are for educational purposes only. Data were not published or externally reviewed at the time this report was published online; final concentrations may change.*

**Carbamazepine** (anti-seizure medication)

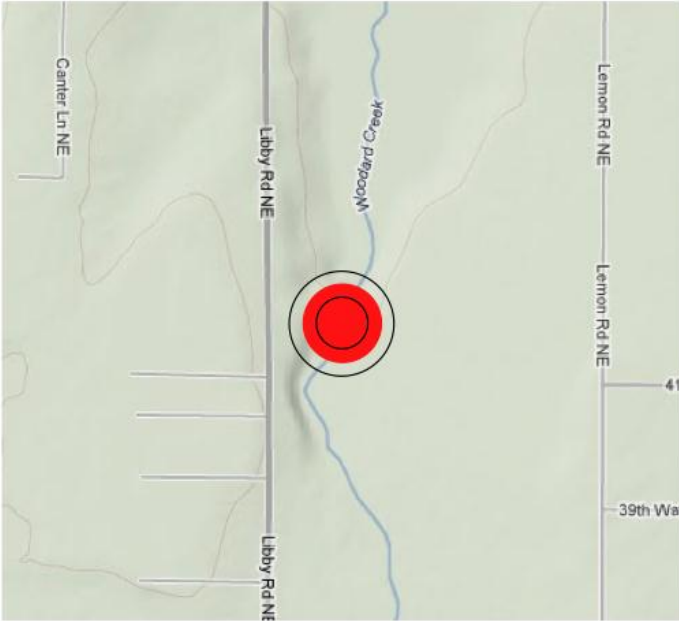


Fig 3. Heat map showing 2.5:1:1 ratio in concentration of carbamazepine for Woodard: Woodland 1: Woodland 2.

**Ibuprofen** (anti-inflammatory medication)

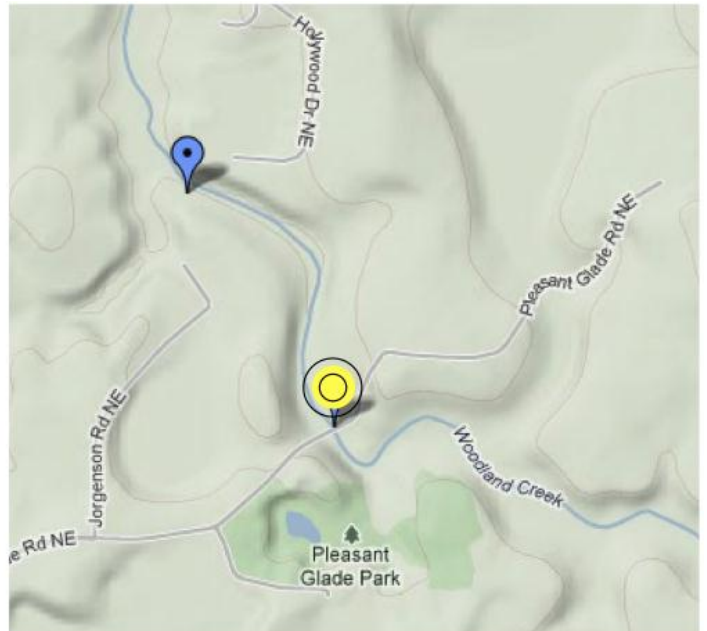
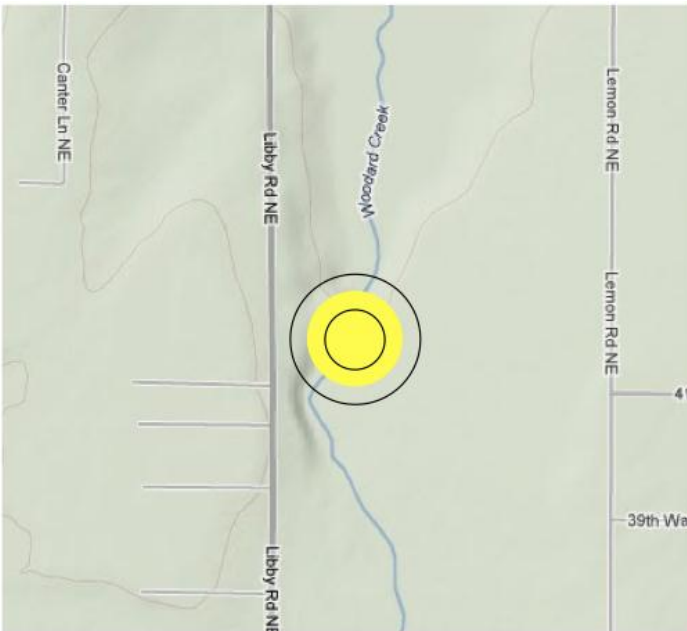


Fig 4. Heat map showing 5:ND:1 ratio in concentration of ibuprofen for Woodard: Woodland 1: Woodland 2.

**Nicotine** (substance in tobacco plant)

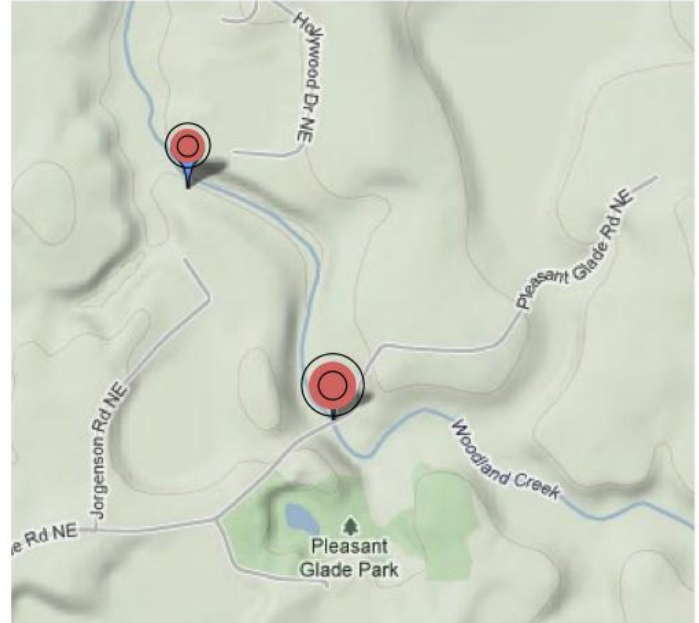
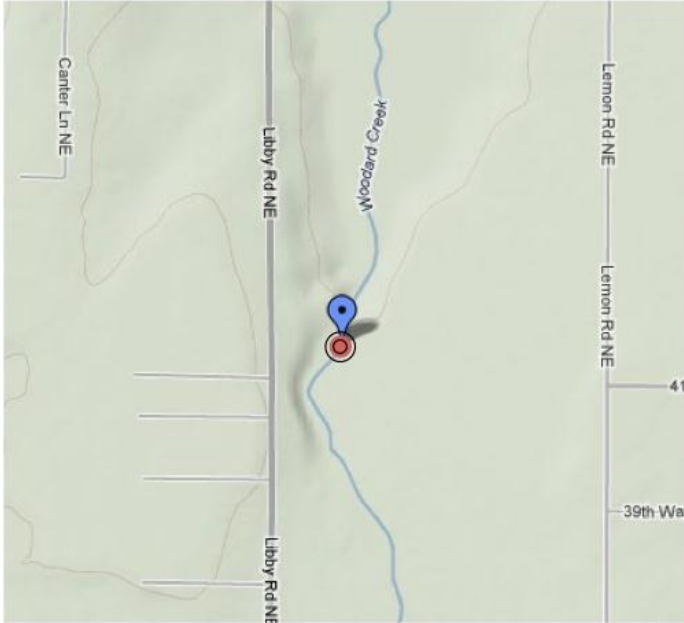


Fig 5. Heat map showing 1:2:4 ratio in concentration of nicotine for Woodard: Woodland 1: Woodland 2.

**Propylparaben** (cosmetic preservative)

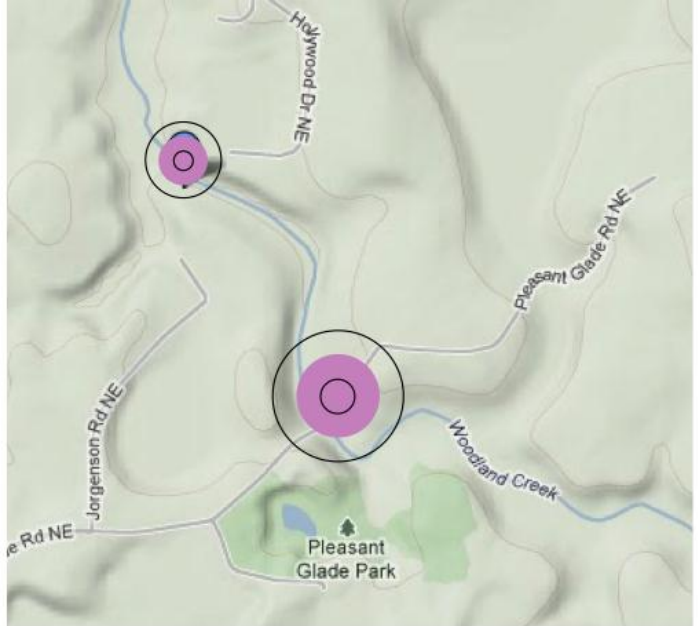
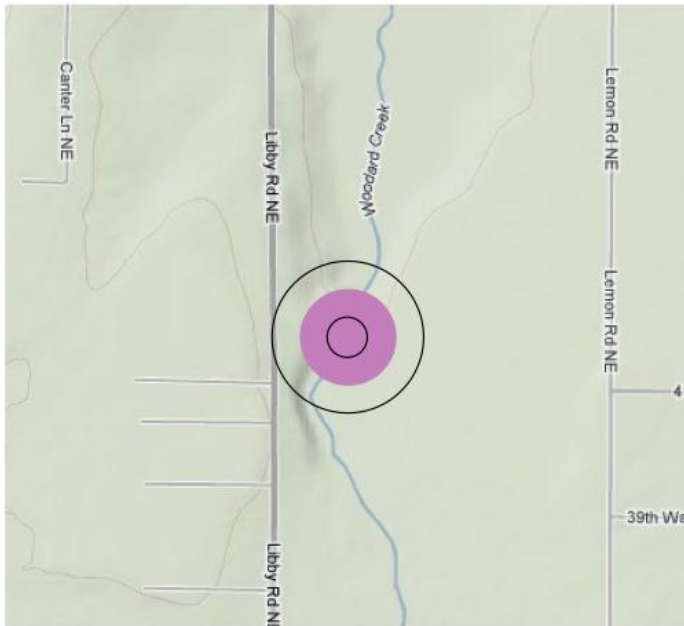


Fig 6. Heat map showing 4:1:3 ratio in concentration of propylparaben for Woodard: Woodland 1: Woodland 2.

**Sulfamethoxazole** (antibiotic)

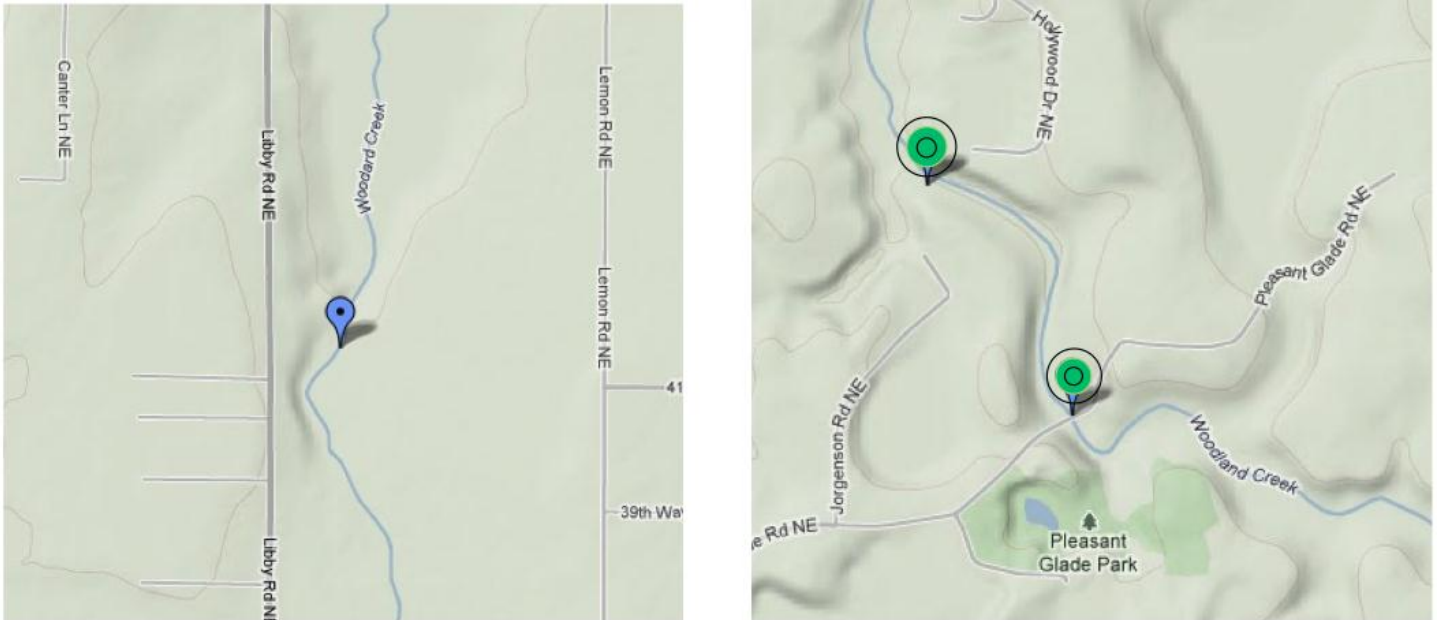
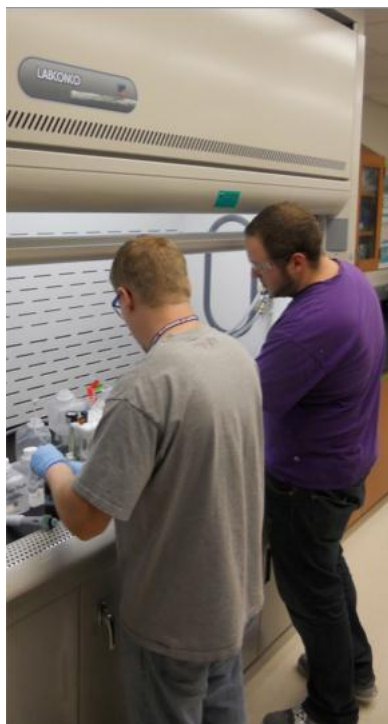


Fig 7. Heat map showing ND:1:1 ratio in concentration of sulfamethoxazole for Woodard: Woodland 1: Woodland 2.



**A-Z list of chemicals**

To learn more about the compounds in these analyses, visit the December 2012 version of SoundCitizen’s A-Z List of Chemicals at:  
[depts.washington.edu/soundcit/data/compounds/a-z-chemicals/](http://depts.washington.edu/soundcit/data/compounds/a-z-chemicals/)

**Acknowledgements**

We thank South Sound Green for collecting samples.

Derek Overman and Alex Gipe (pictured on the left) processed the samples used in this report.

Dr. Justin Miller-Schulze developed the analytical methodology and performed data analysis for the samples used in this report.

**An interactive map of sample sites is available at:**

<http://goo.gl/maps/EQV4h>