# Evaluation of Analytical Methods for EDCs and PPCPs via Interlaboratory Comparison

#### **Funding Agency:**

Water Research Foundation (AwwaRF)

#### **Principal Investigators:**

Dr. Brett Vanderford

#### **Co-Principal Investigators:**

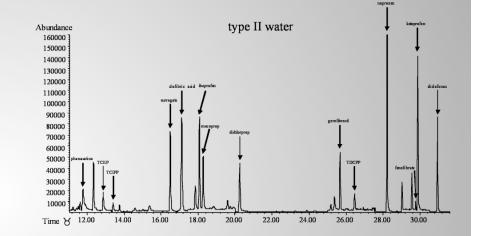
- Dr. Shane Snyder
- Dr. Andrew Eaten
- Dr. Yingbo Guo
- Dr. Jörg Drewes
- Dr. Thomas Ternes
- Curtis Wood

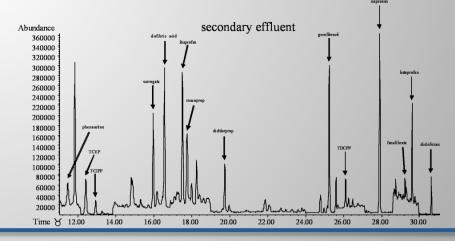
#### **Students Participating:**

Christiane Hoppe-Jones

Start date: 01 - 2009

End Date: 06 - 2010









## **Project Objectives**

- Evaluate methodology for the analysis of EDCs and PPCPs at low ng/L detection levels
- Provide analytical guidance for water and wastewater utilities, as well as commercial and research laboratories





### Methodology

**Task 1** Literature review

**Task 2** Interlaboratory comparison

**Task 2.1** spiked/unspiked deionized water (low and high ng/L)

Task 2.2 spiked/unspiked drinking water (low and high ng/L)

**Task 2.3** spiked/unspiked surface water (low and high ng/L)

**Task 3** Sample collection/preservation studies

sample container & preservation

sample hold times

**Task 4** Implementation and testing of methods in select laboratories

**Task 5** Develop final analytical guidance/final report





## **Target Compound List for Spikes**

PPCPs		Potential EDCs	
Carbamazepine	Erythromycin	17β-Estradiol	Bisphenol A
Sulfamethoxazole	Acetaminophen	17α-Ethynylestradiol	Octylphenol
Trimethoprim	Fluoxetine	Estrone	Nonylphenol
Naproxen	Triclosan	Progesterone	
Diclofenac	Primidone	Testosterone	
Ibuprofen	Caffeine		
Gemfibrozil	Ciprofloxacin		



