

# cjc339

## Caroline Caglioni's Individual Contribution Page

Subteams: Foam Filtration/White Paper

### Spring 2015 Contributions

#### Foam Filtration Pore Size

This semester I am working on the Foam Filtration Pore Size team, which acts in conjunction with the Foam Filtration team. While this is a new team we have a very specific goal, based on the inquiries from the most recent trip to Honduras in January. We are trying to determine what is the best distribution of foam pore sizes to use in the foam filter. We plan to do this by researching the efficiencies of the different foam pore sizes with respect to different filter parameters, such as dissolved organics, coagulant dose, influent turbidity, etc. This will require significant experimentation in order to observe how each foam pore size behaves in terms of effluent turbidities and headloss growth.

In addition to the research, I plan on attending the EPA P3 symposium in Washington, D.C. in April where the Foam Filtration Team will demonstrate their technology.

#### White Paper

I will also be working on the White Paper team in order to produce technical communications materials for AguaClara. We will be constructing a series of presentable materials that explain the technology and the goals of the AguaClara organization. I will be doing graphic design work and technical writing in order to create literature that can interested investors and competitors can use to understand the depth and breadth of the AguaClara technology.

### January 2015 Contributions

My efforts in AguaClara this semester are significantly inspired by my experience traveling around Honduras for 2-weeks via the AguaClara Water Treatment Plants this January. During the trip, I worked with a small group conducting and recording interviews in different municipalities where AguaClara plants currently exist and are going to be built. We spoke to various community members, from water board members and town mayors to townspeople and plant operators. It was an extremely enlightening experience, one that I will never forget.