

Iam359

Lilly Mendoza's Individual Contribution Page

Subteam: EStARS

Spring 2017 Contributions

I will be returning to work with EStARS this semester. The team will be working to fabricate a compatible filter to the 1 L/s plant. The subteam I will be working with will be in charge of fabricating the manifolds for the filter. The team will also attempt to test the filter if completed by the end of the semester.

Spring 2016 Contributions

I will be working with the EStARS semester this semester. The team will be working to design a system to measure headloss in the filter during forward wash and find a way indicate if the bed is fluidized during backwash. At this point in the semester, a manometer system has been set up to indicate headloss in the entire tank and a way to measure fluidization in the sand layer. The rest of the semester, we will be researching the relationships within our data collection and implement our findings into the field. The team will also continue to test the filter's performance while running with PACL and clay.

Fall 2015 Contributions

This semester the team was able to revise lab set-up, lab scale fixing to prevent leakage, and begin initial testing of new inlet system that replaced slotted pipes with orifices. Testing still continues to determine the new inlet systems effectiveness and whether revision is needed. Also, different methods are being used to determine if the bed is fluidized during backwash and new equipment was added to read turbidity and headloss.

Spring 2015 Contributions

While on the EStARS system, I was working to solve conflicts associated with the cap blowing off during backwash, understand/use manometers to measure backwash efficiency, and to fabricate a new filter inlet design with orifices instead of slotted pipes.