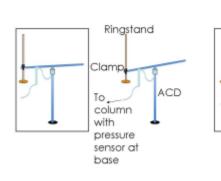
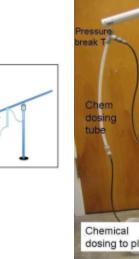
Laboratory Research Set-ups

Photos of Experimental Set-ups and photos of Students Conducting Research in the AguaClara Lab





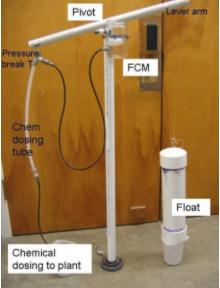




Diagram of robust ACD test set up with ringstand holding lever arm Labeled robust ACD, picture of whole system (FCM, lever, doser, float) standing alone ca. Nov 2008

Close-up of the pre Nov 2008



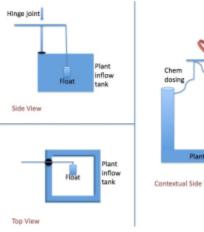
Robust ACD, picture of whole system (FCM, lever, doser, float) hooked up for testing ca. Nov 2008

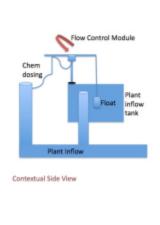


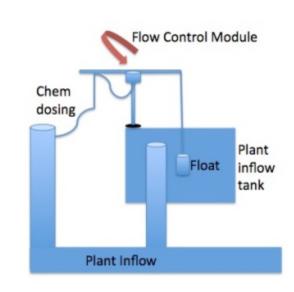
Close-up of the pivot and FCM connection in the robust ACD ca. Nov 2008 $\,$



Robust ACD, pictu standing alone ca.



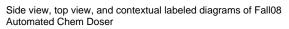


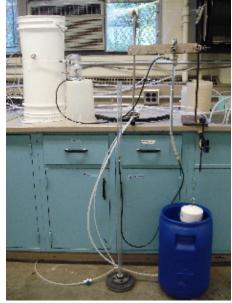




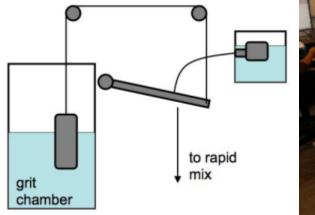
Side view labeled diagram of Fall08 Automated Chem Doser in contex of Tamara plant

Labeled pic of auto October 2008 (with





Automated chem doser experimental set-up from October 2008 (with disconnected FCM)





Drawing of proposed schematic for automatic flow and chemical dosing system

Demo Plant Team

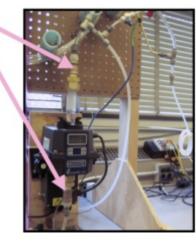
Straws to r

Straight connections - reduces head loss



Tube Floc - PIV Setup

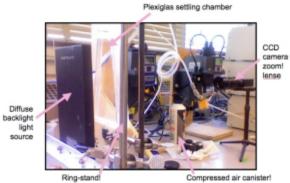
Sediment trap prevents flocs from slipping into column after flow has stopped !!!

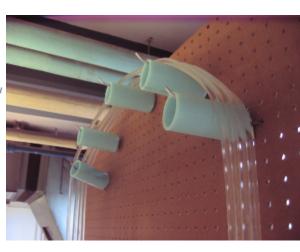




Tube Floc - Improving Settling Column by particle trapping

Tube Floc - Improving Settling Column by straight inlet



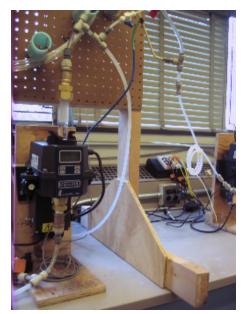


Tube Floc - Board Flocculator - top

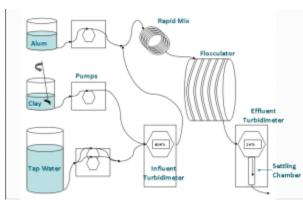


Tube Floc - Just th

camera w/ zoom! lense



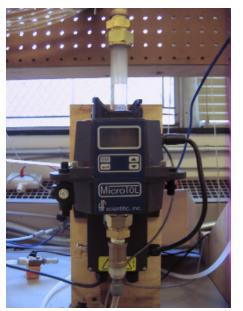
Tube Floc - Board Flocculator and Effluent Turbidimeter



Tube Floc - Setup Schematic



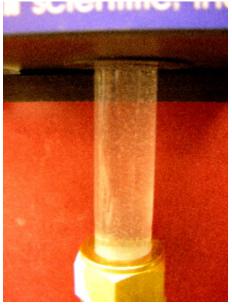
Tube Floc- Laboratory settling column



Tube Floc - Settling column with Straight inlet



Tube Floc - Dye Test Setup



Tube Floc- Visualizing floc settling



Tube Floc - New B



Tube Floc - Heat T



Tube Floc- Lab set



FCM- The column experimental set up for determining the relationship between flow rate and headloss (Fall 2007).



FCM- Top-down view of the float valves in chlorine (left) and alum solutions (right) for the corrosion testing (Fall 2007).

FCM- Overview of vertical distance be and the effluent loc