

# Report

07/05/05

## **1. Experimental setup at the Tech-area –**

- Started preliminary aeration experiment.
- Calibrated two pH sensors.
- We checked the pH and the conductivity sensors in the ring where it gave expected values of:
  - pH in the ring – 6.3 ~ 6.4
  - Conductivity – 9.5 MOhm-cm
- Today we filled the reservoir with fresh water and used the pH and conductivity sensors that were calibrated and checked as above. pH reading was 8.3. The conductivity reading started at 850 KOhm-cm but gradually dropped to 650 KOhm-cm (it was still dropping when we shut down the system). In order to isolate any possible installation induced problems, I am planning to check the pH sensor in a standalone jar containing water drawn from the reservoir.

## **2. Status of various tasks from the project schedule –**

- APS Water System study - Completed
- Literature Survey - On going
- P&ID Diagram - Completed
- Experimental Set up - Completed, Minor modifications continuing on as needed basis.
- Experiment - Started aeration experiments.