

# Water & Waste Water Treatment & Monitoring

## H2O Water Queen Creek, Arizona

### PROJECT OVERVIEW

To meet the growing demands of several new housing developments in the Queen Creek Arizona area, H2O Water, a small, private water company seeks to automate a water system that will grow to eight water plants in just over five years.

### SCOPE OF SUPPLY

Equipment / Software:

- Allen Bradley Micrologix and Compactlogix PLC's
- Allen Bradley RSView32 SCADA Package
- MDS iNet Spread Spectrum Radios
- Ethernet Communications

### CLIENTS GOALS

- Remote monitoring and control of eight sites via Ethernet radio.
- Develop a SCADA system built on non-proprietary technology
- Provide detailed pump runtime data
- Provide a cost-effective, dependable system with exceptional uptime
- Provide an easy-to-use Graphical User Interface (GUI) to operations personnel with concise data

### SOLUTION

H2O Water's service area consists of roughly twenty square miles and the main plant communicates by Ethernet radio to seven remote locations. The remote monitoring and control via SCADA allows H2O Water the ability to increase water plant productivity, record chlorine data vital to the plants' operation, report on required EPA data, and to track pump run times and performance which is then used for internal maintenance forecasting.

### CONCLUSION

Intecon, company of NAS designed this RTU network, and has handled complete fabrication of UL508 RTU's in its Tempe facility. Intecon, have performed all PLC and SCADA programming, system startup and troubleshooting on location. To ensure seamless integration, each site was brought online one at a time. Intecon maintains a good relationship with H2O, and still provides all service and maintenance of the automation equipment and software. H2O Water continues to add new components to their system to help them become more efficient.