



Broadband Access Point & Programmable Logic Controller Replacement – Phase 3

SAWS construction work on this project will replace aging communication equipment used to collect and transmit data from water production sites and pump stations with new wireless communication infrastructure. The existing controllers have an expected lifespan of 10 years. The radio systems have an expected lifespan of 7 years. The upgrades will increase efficiency by allowing development of standardized, automated control strategies based on equipment efficiency, customer demand patterns and energy costs. Phase 1 construction was completed in 2018 and Phase 2 construction is currently ongoing. This project will also upgrade the chlorine leak monitoring system at some sites. These upgrades are necessary to provide comprehensive and remote monitoring of the chlorine system at these facilities. This allows staff to maintain operational continuity and respond to events safely.

When Will Work Occur?

Estimated construction duration is 15 months.

Construction Elements:

- ✓ Phase 3 will include work on multiple sites across the SAWS system. 17 sites will have communication equipment including PLCs and radios replaced, and 33 sites will have chlorine detection monitoring upgrades. All work is planned to be performed inside of SAWS facilities.
- ✓ Replacing and upgrading the control and communication systems for the pump stations is necessary for uninterrupted service, strengthening of cyber security, migration to one common Supervisory Control and Data Acquisition (SCADA) control system, and to maintain operational continuity and respond to incidents safely.
- ✓ These upgrades are necessary to provide comprehensive and remote monitoring of the chlorine system at these facilities. This allows staff to maintain operational continuity and respond to events safely.

For more information:

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SCADA Panel



PLC



Radio

