

## Featured Project

### City of Shasta Lake Water Filter Plant Upgrade Control System Modification

City of Shasta Lake, California

ArcSine Engineering provided comprehensive control system programming and integration support for a major upgrade to the City's primary water treatment facility. This programming included provisions for integration with a future City-wide SCADA system for the City's water treatment and distribution systems.

In addition to programming the Water Treatment Plant PLC and HMI systems, the project integrated data acquisition and controls for nine remote sites, including a raw water pump station, five reservoirs, and three pressure-relief valves.

Unique features to the project:

- Radio path study for remote site communications.

ArcSine's work included:

- HMI programming, utilizing Control Microsystems ClearSCADA.
- PLC programming of Control Microsystems SCADAPack.
- Communications – DNP3 advanced communications server.
- Licensed fixed-frequency radio telemetry with multiple remote sites, as well as on-site serial communications.
- 11 PLC's, 30 SCADA screens, 9 remote sites.

**Programming  
Construction Services  
Water/Wastewater  
Controls  
System Design**

