



Sacramento County, CA Water Quality SCADA System

Client: Sacramento County Sanitation District 1

Location: Sacramento, CA



System Features

- DYNAC® Software
- 19,000 + Points System
- 138 Remote Sites
- PLCs
- MAS Radio
- Multi Dropped Leased Line
- Interface to County Zone 40 SCADA System
- Data Warehousing
- Redundant Database Servers
- Interface to Weather Alert System
- Remote Access
- Alarm Autodialing Services



The Sacramento County Sanitation District 1 operates and maintains approximately 226 water, sewage, and drainage facilities in the metropolitan area with a population base of approximately 1.5 million distributed over 600 square miles.

Transdyn designed and installed a Water Quality SCADA System that monitors and controls the District's water, wastewater, and drainage facilities. The SCADA System controls approximately 140 facilities via PLCs/RTUs, and will accommodate the District's expansion to over 400 facilities.

The Water Quality SCADA System for the Sacramento County Sanitation District 1, is implemented using Transdyn's DYNAC® SCADA software, redundant servers, workstations, radios, programmable logic controllers (PLCs), and various peripheral components.

Running on DYNAC®, the two SCADA servers are installed in a redundant, automatic failover configuration. Two servers are configured as the Historical Data Server (HDS) and the MIS Server, and multiple redundant communication servers are installed on the SCADA local area network (LAN) to provide the required RS-232 serial communications ports.

The DYNAC® SCADA system software provides complete data acquisition, supervisory control, and data and alarm processing functionality in conjunction with the PLC control logic. The control strategies reside in the PLCs in the form of ladder logic programs providing a distributed architecture.

In addition to complete SCADA functionality, the system provides advanced data presentation, reporting and management functionality via the standard DYNAC® historical database, trending and spreadsheet reporting subsystems, and the SQL interface to the HDS server.