



**ENTERPRISE
AUTOMATION**
A TETRA TECH COMPANY

PROJECT PROFILE

Master services agreement *Encina Wastewater Authority*

Client background

The Encina Wastewater Authority (EWA) is a public agency located in Carlsbad, California. EWA provides wastewater treatment services to more than 400,000 residents in northwestern San Diego County. EWA's facilities and services are essential for protecting the local ocean environment, preserving public health, and providing recycled water resources for the region. Enterprise Automation provided sole-sourced automation and integration services to EWA since 2017 as part of a five-year professional services agreement.

Project background

The control system originally implemented at the Encina Water Pollution Control Facility (EWPCF) had been maintained and upgraded by various groups, including EWA staff, integrators, and contractors. As a result, the facility risked facing the network and reliability issues that can accompany a lack of standardization and documentation.

In 2017 the Authority developed and released an RFP to find an automation consultant who would overhaul the entire facility and develop a platform built on industry best practices and a pervasive standardization.

EA solution

When the Authority awarded EA a five-year Master Services Agreement, EA started developing a master plan for the future of the EWPCF.

The first task was to execute a thorough plant audit to fully understand the state of the existing system. Following the audit was a SCADA evaluation to determine which platform was best suited for the site and the Authority's operations staff. The final task before the first capital plant improvement project could begin was developing a full suite of instrumentation and control standards.

EA executed several concurrent projects to address the approximately 6,300 IO spread across seven plant areas.

Project Manager



**Matt
Avila**

Project Technical Lead



**Alex
Coker**

Key Insights:

- Contracted to architect and orchestrate a complete facility controls overhaul
- 6,300 IO over 7 plant area
- 50+ existing PLCs

Key Technologies:

- Test Platform
- Source Control
- Change Control