

PROJECT LOCATION

Dunnigan, CA

PROJECT TYPE

Construction

PROJECT TIMEFRAME

10/2017 - 2/2018

PROJECT PHASE

Complete

CONSTRUCTION COST

\$700,000

AV[™] SCOPE OF WORK

\$140,000

END USER

California American Water

GENERAL CONTRACTOR

Garney Pacific, Inc.

DESIGN ENGINEER

Black and Veatch

AQUEOUS VETS[®] TEAM

Robert Crow – Vice President of
Business Development

Chris Perry – Manufacturing
& Field Services Manager



Dunnigan Water Treatment Plant Using Ion-Exchange Technology to Address Chrome VI

Aqueous Vets[®] (AV[™]) teamed with Garney Pacific, Inc. to provide a complete water treatment system for the removal of Chromium VI at the California American Water's wellhead treatment facility in Dunnigan, CA.

Project Details

California American Water (Cal Am) purchased the Dunnigan Water Treatment System in 2015, which was previously owned and operated by Dunnigan Water Works. Once the acquisition of the water system was complete, Cal Am committed to installing a treatment system that would address the Chromium VI contaminants using filtration and ion-exchange processes. By installing this system, Cal Am demonstrated its commitment to delivering the highest quality of potable water to its consumers and providing a product that meets or exceeds current drinking water standards.

"Aqueous Vets[®] delivered on what they said they could. This project had unknowns that required team member flexibility and AV was a valuable member of that team. AV performed, and we look forward to future projects with them."

- Matt Roberts, Project Manager

Aqueous Vets[®] Scope

AV provided a complete system to treat the well water to California's potable water standards. Cal Am desired a system that would facilitate whole-vessel exchange services involving removal and replacement using spare units. As a highly experienced team member, AV was asked to provide those value engineering ideas that could streamline the project and enhance the system without sacrificing short or long term operational considerations. After careful review, AV's technical and engineering capabilities were able to offer several value-added ideas which focused on system robustness and improved operational functions. Once implemented, the value-added changes provided a cost savings to Cal Am.



AV's scope included prefiltration, fabricated steel and PVC manifold piping, ion exchange vessels, sensors for controls monitoring, on-site installation, and system pressure testing.

AV's team worked closely with Garney Pacific and Cal Am to ensure delivery, installation, and successful startup of the system in a timely manner.