

**PROJECT LOCATION**  
San Dimas, CA

**PROJECT TYPE**  
Design, Manufacture, Supply

**PROJECT TIMEFRAME**  
December 2018 – February 2019

**CONSTRUCTION COST**  
\$900,000

**AV<sup>®</sup> SCOPE OF WORK**  
\$350,000

**END USER**  
Golden State Water Company

**GENERAL CONTRACTOR**  
S.E. Nelson Construction

**DESIGN ENGINEER**  
Golden State Water Company

**SALES CONTACT**  
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## Fast Delivery and a Low-Profile Design Helps Golden State Water Company Solve 1,2,3-TCP

Golden State Water Company (GSWC), a subsidiary of American States Water Company (ASWC), operates in nine states serving more than 1,000,000 customers. GSWC provides water service to residents across California located within more than 80 communities throughout 10 counties in Northern, Coastal, and Southern California, delivering water to approximately 255,000 customers.

### Margarita Well Project Details

In October of 2018, Golden State Water Company solicited Design Build Bids from a pre-selected list of general contractors. **Aqueous Vets<sup>®</sup> (AV<sup>®</sup>) teamed with S.E. Nelson Construction Company and provided PF 12-520 Low Profile<sup>™</sup> Adsorption system to meet the requirements of the project.**

Key GAC System Design & Operational Parameters	Value
Number of Systems/Vessels per System	1/2
Operating Configuration	Parallel/Lead-Lag
Carbon Capacity/Volume per vessel	714 ft <sup>3</sup>
Carbon Type	Coal
Design Flow Rate	1.15 MGD/800 gpm
Hydraulic Loading	7.5 gpm/ft <sup>2</sup>
Empty Bed Contact Time @ 800 gpm/system	12.6 Minutes
Underdrain	Septa/External Ring header
Overall System Height to Top of Pipe	14'-6"

### Expedited Delivery and Installation

AV designed, manufactured and supplied our **Low Profile<sup>™</sup>** 12' diameter 40,000-pound GAC system for the removal of 1,2,3-Trichloropropane. Early in the design phase, GSWC contacted the design build team to evaluate having the GAC system installed and operating before April 2019. **AV's as-contracted delivery schedule was 18-20 weeks. To meet the earlier install date, AV amended the design and prioritized the manufacturing schedule, resulting in full delivery within 12 weeks, nearly half that originally estimated.**



# AqueoUS<sup>®</sup>VETS

