

SAN GABRIEL VALLEY WATER COMPANY W6 PFAS Removal IX Resin Treatment Facility

BACKGROUND

San Gabriel Valley Water Company (SGVWC) is a private water utility that provides safe, reliable, economical, and environmentally sustainable water to parts of El Monte, West Covina, Hacienda Heights, Whittier, Arcadia, Baldwin Park, and Montebello, California. The company utilizes locally produced groundwater from 31 wells located in the Main San Gabriel Basin and four wells located in the Central Groundwater Basin.

PROJECT DETAILS

Faced with a water quality dilemma of PFOS and PFOA concentrations above California notification and response levels, SGVWC required an expedited project schedule to prevent wells W6C and W6D from being shut down.

Aqueous Vets® (AV®) provided an ion exchange treatment solution that incorporates long term corrosion management, optimized hydraulic performance, proper water distribution as shown through CFD modeling, efficient media utilization, and long-term ease of maintenance.



PROJECT LOCATION

Whittier, CA

PROJECT TIMEFRAME

Feb. 2020 – Sept. 2021

GENERAL CONTRACTOR

Hal Heys Construction

DESIGN ENGINEER

San Gabriel Valley
Water Company

PROJECT TYPE

Design, Manufacture,
Supply, and Install

PROJECT PHASE

Complete

END USER

San Gabriel Valley
Water Company

CONTACT AV SALES

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AqueoUSVETS®



| KEY SYSTEM DESIGN & OPERATIONAL PARAMETERS | VALUE |
|--|----------------------------|
| Number of Systems/Vessels per System | 3/2 |
| Operating Configuration | Parallel/Lead-Lag |
| Media Capacity/Volume per Vessel | 446 ft ³ |
| Resin Type | Perchlorate Selective |
| Design Flow Rate | 7.2 MGD |
| Hydraulic Loading | 14.7 gpm/ft ² |
| Empty Bed Contact Time per Vessel | 2 Minutes |
| Underdrain | Septa/External Ring Header |
| Overall System Height to Top of Pipe | 16'-4" |

AQUEOUS VETS® PROJECT SCOPE

AV designed, manufactured and delivered three (3) PF12-520 IX Resin Systems (12-ft. diameter ion exchange resin systems).

