SELECTED BY CALIFORNIA AMERICAN WATER

Aqueous Vets® Design-Build of PFOA/PFOS Removal Treatment Plant

BACKGROUND

In February of 2017, Aqueous Vets® (AV®) teamed with Auburn Constructors and Brown and Caldwell for the design-build project at the Nut Plains Well Site for California American Water. The project required AV to design, manufacture, install, and commission a 1.4 million gallon per day (MGD) Granular Activated Carbon Treatment System to remove Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS) (180-200 ppt combined) from the potable water well.

California American Water is committed to delivering the highest quality of potable water to its consumers and provides a product that meets or exceeds current drinking water standards. As suggested by the U.S. EPA health advisory issued on May 19, 2016, California American Water seeks to ensure that potential levels of PFOA and PFOS in drinking water served to customers in their Suburban Rosemont system remain below 70 parts per trillion (ppt) combined.

PROJECT LOCATION
Rancho Cordova, CA

PROJECT TIMEFRAME
April 2017 – August 2017

AV® SCOPE OF WORK
$640,000

GENERAL CONTRACTOR
Auburn Constructors, Inc.

PROJECT TYPE
Design, Manufacture
Installation & Commission

PROJECT PHASE
Complete

END USER
California American Water

CONTACT AV SALES
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AqueoUS VETS®

KEY GAC SYSTEM DESIGN & OPERATIONAL PARAMETERS	VALUE
Number of Systems/Vessels per System	2/2
Operating Configuration	Parallel/Lead-Lag
Carbon Capacity/Volume per Vessel	667 ft^3
Media Type	Coal Carbon
Empty Bed Contact Time per Vessel	10.5 Minutes
PFOA/PFOS Combined Concentration	180-200 ppt
Design Flow Rate per System	475 gpm
Influent TOC Concentration	1 ppm
Total Facility Capacity	1.4 MGD
Underdrain	Septa/External Ring Header
Overall System Height to Top of Pipe	15'-10"

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