QUICK TURNAROUND, NO PROBLEM

AqueoUS Vets and SUEZ surpass construction goals for PFAS removal in Orange, NJ

BACKGROUND

In June 2019, the New Jersey Department of Environmental Protection (DEP) formally adopted drinking water regulations that set PFOS limits to 13 parts per trillion (ppt) and PFOA to 14 ppt. Urgently in need of a treatment solution to stay in compliance, the city of Orange turned to Suez North America to design, implement, and operate a water treatment facility to treat PFAS compounds. AqueoUS Vets® (AV®) was selected as the ion exchange resin treatment provider because of mechanical design expertise, manufacturing capabilities for fast lead times, and field installation knowledge.

The City of Orange expected to be operational within three months of procuring the treatment systems (by the end of September 2021). Recognizing the need for projects with quick turnaround, AV had manufactured a select number of treatment systems for such projects and surpassed that ambitious goal. The City of Orange's treatment system required a mere 4–6-week lead time from the purchase order.

PROJECT LOCATION
Orange, NJ

PROJECT TIMEFRAME
July 2021 – Sept. 2021

AV® SCOPE OF WORK
$350,000

GENERAL CONTRACTOR
Kiley Construction

PROJECT TYPE
Design, Manufacture, Deliver and Install

PROJECT PHASE
Complete

END USER
City of Orange, NJ

DESIGN ENGINEER
Suez WTS Services USA, Inc.

CONTACT AV SALES
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(925) 331-0573

AqueoUS VETS®

PROJECT DETAILS

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	650 ft^3
Resin Type	Purolite A694E
Design Flow Rate	2,000 gpm
Hydraulic Loading	17.7 gpm/ft^2
Empty Bed Contact Time	2.4 Minutes
Underdrain	Septa/External Ring header
Overall System Height to Top of Pipe	16’-4”

AQUEOUS VETS® PROJECT SCOPE

AV designed, manufactured, delivered and installed one (1) of our PF12-520 IX Systems which is a 12-ft.-diameter vessel IX lead-lag pair for drinking water meeting NSF 61 standards.

AqueoUS VETS®