

Quanics

Engineering Water Solutions®

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New Quanic Treatment System

When technologies fail, the original site limitations are compounded by subsequent infrastructure improvements that limit the installation of newer technologies. The sand filter at Hutchens Elementary in West Mobile County, Alabama, served the school and an adjacent 160-lot residential development. It served well but time and increased wastewater load led to a failure of the sand filter. The utility, Mobile Area Water & Sewer System, decided to replace it. The desire of the utility was to utilize the two existing 30,000 gallon Xerxes tanks that were used to dose the sand filter. The new technology would then be placed in the footprint of the existing sand filter.

Wastewater from the school and the subdivision is pumped to the existing recirculation tanks. The pumps in the existing tank were replaced with six Quanics turbine effluent pump packages. A new control panel was also installed. Six ATS-16-AC AeroCell modules were then installed in the footprint of each of the two existing sand filters for a total of twelve modules. After passing through the open cell foam media, 80% of the effluent is routed back to the recirculation tanks for further treatment. The remaining 20% is discharged to a subsurface chamber system located on the property.

The Quanics Certified Dealer, J. H. Wright and Associates of Daphne, Alabama, coordinated the project with design engineer Harold Barker of Volkert Engineering in Mobile, Alabama. System startup occurred in Fall 2008 and the site was immediately fully operational.



Advanced Treatment Case Studies

SITE PROFILE		DATE
Hutchens Elementary School		12-04-08
Treatment = AeroCell Open Cell Foam Media		ENGINEER
Sizing = 30,000 gpd		YOUR COMPANY
Site Challenges = Replace a failing sand filter using the footprint of the original system		
Solution!		
Twelve QUANICS Advanced treatment system ATS-16-AC modules with chamber dispersal		



Failed sand filter

