water solutions

Pumping station in Florida

LARGE APARTMENT COMPLEX WASTEWATER PUMP STATION

Situation

Major apartment complex in Lake Worth, Florida, USA required a quality, competitively-priced sewage pump station to handle about 400.000 liters per day of heavy residential wastewater (that is, with a high content of grease, solids, paper products, etc.). The challenge also included providing pumps that would handle a wide range of flow rates (400 a 2000 liters per minute) at a wide range of TDH (from 4.2 to 1.7 bar, since the pump station pumps into a force main whose pressure varies from high to low), handling solids up to 80mm.

Solution

Atlantic Environmental reinforced fiberglass MOPS (Manufactured Odorless Pump Station) was provided with Zenit Uniqa Pumps. The station is 1.8 mt. in diameter for 7.5 mt. feet deep, with 25 HP Zenit vortex impeller pumps. The manufactured pump station costs a fraction of a built-in-place concrete pump station, and the Zenit vortex impeller Uniqa pumps handled the challenging flow rates that were needed at the required system pressures. The Uniqa pumps also meet the Explosion-Proof requirements of the local codes.

Benefits

The high efficiency Zenit Uniqa Pumps have been pumping the wastewater at the needed flows and pressures, handling the difficult solids, with excellent, trouble-free reliability, and clog-free performance, for over 2 years, and several thousand hours of operation. Electrical costs and overall operational costs are low, saving the owner money. The customer is very happy with a high quality MOPS pump station with excellent Zenit pumps!

Mops sewage pump station with zenit uniqa pumps

25 Hp (18,5 kw) zenit UNIQA pumps before installation

Customer	Atlantic Environmental Systems, Inc.				
Company Profile	Manufacturer of fiberglass and HDPE pump stations for wastewater and stormwater				
Location	Lake Worth, Florida	**Country**	USA	**Area**	North America
Application	Heavy Residential Sewage and Wastewater				
Installed Products	Uniqa ZUG V080B 18,5/2 AW 165 PD ATEX				
Date	April 6, 2016 (Pumps installed Febr., 2014)				