

# California Lift Station Finds Perfect Pump Rental Solution

Flygt 3000 Series pump comes through as emergency back-up

## Project

When a submersible sewage pump failed at the Menlo Lift Station in Hemet, CA, it left this residential lift station - a key component of the Eastern Municipal Water District (EMWD) wastewater system - without a back-up pump. EMWD needed a replacement pump that could handle flow rates of 378 gallons per minute (GPM) at 30.4 total dynamic head - and needed it immediately.

"Having redundancy in our wastewater system is essential to us, and it's something we take great pride in," says Paul Jones, General Manager of EMWD. "So when the pump went down at Menlo we needed to take care of it as soon as possible."

EMWD began searching for a 3-phase, 460-volt replacement pump that could be rented while the pump was out for repairs. It had to be a submersible, given the above-ground space constraints around the lift station. After several local pump providers said they had nothing like that for rent, the prospects looked bleak. Then EMWD called Xylem, and suddenly the District had the exact right pump for the job.

## Solution

In the past year, Xylem began offering its versatile Flygt 3000 Series electrical submersible pumps as a rental option to customers and made them available from rental locations around the U.S. The timing couldn't have been better for EMWD. When the District called its local Xylem branch, the Xylem team quickly identified the right model for this rental job - a 5-horsepower (hp) Flygt 3102 electric submersible pump.

The Flygt 3000 Series pumps feature patented N-technology with innovative self-cleaning impellers. The N-impellers are designed so there are no clogs or build ups. They are made with robust, hard iron impellers that are corrosion and abrasion resistant, offering a long life span.



Xylem service truck with a crane, making installation and pump positioning easier for the Xylem team.

**CUSTOMER:** Eastern Municipal Water District

**CHALLENGE:** Provide a replacement back-up pump for the Menlo Lift Station that could be rented on a temporary basis while the primary pump was out for repair. The pump needed to be compact and submersible, given the space constraints above ground and the residential setting of the lift station.

### PRODUCTS:

- 1 Flygt 3102 5-horsepower electric submersible pump

**RESULT:** The Flygt 3102 proved to be an ideal solution for the Menlo Lift Station. The rental option was something Eastern Municipal Water District needed but didn't expect they'd be able to get. The Flygt 3102 pump met the flow and head requirements of their system, and it was able to be installed directly to the slide-rail system in the wet well.

Xylem offers a wide horsepower range of Flygt 3000 series of pumps - from 2 to 470 hp - and handle flow rates up to 16,000 GPM with heads up to 400 feet. The broad parameters of the Flygt 3000 series enabled Xylem to select the proper pump for this application. The Flygt 3102, 5 hp pump had the flow and head characteristics that the District needed and the compact size to fit the tight footprint of the jobsite.

EMWD supplied a guide-rail adapter that bolted to the Flygt 3102 pump that adapted to the guide-rail system in the wet well. This provided a low-impact submersible unit in the residential setting, and also provided the ideal rental solution at a very economical price point. Two workers easily installed the compact Flygt 3102 pump with far less manpower than the three to four workers typically required to install a non-submersible pump.

### Results

Moving sewage in a residential area and providing redundancy was important to EMWD's commitment to its customers. Xylem's rental option (Flygt 3102) enabled the customer to quickly replace its failed pump at the Menlo Lift Station without incurring a significant capital investment - and without sacrificing any of the performance required for the job. EMWD now considers the Flygt electric submersible pump as its go-to solution - and Xylem as its trusted partner for submersible pump rental needs.

"Xylem came through for us in an emergency situation, and we were thrilled that they had exactly what we needed in stock," says Jones. "Renting the 3000 Series pump, versus the capital expenditure of purchasing it outright, was really the icing on the cake. It was the ideal temporary solution we were looking for."



The Flygt 3102 electric submersible pump about to be lifted into position in the wet well.