

# New wastewater treatment plant with Pexgol pipes

**PEXGOL**  
X-LINKED PIPING SOLUTIONS

The original design for a wastewater treatment plant included stainless steel pipes, but after discovering the superior capabilities of Pexgol pipes, the entire facility was switched over.



## Wastewater Treatment Plant Israel | 2022

### • Working Conditions

Pressure: 8 bars  
Temperature: 60°C / 140°F

### • Pexgol Pipe

Pexgol 160 (6"), 110 (4") & 90 (3") mm, Class 15 (SDR 11)

### • Application

Wastewater treatment

### • Length

200 m / 656 ft

### The Challenge

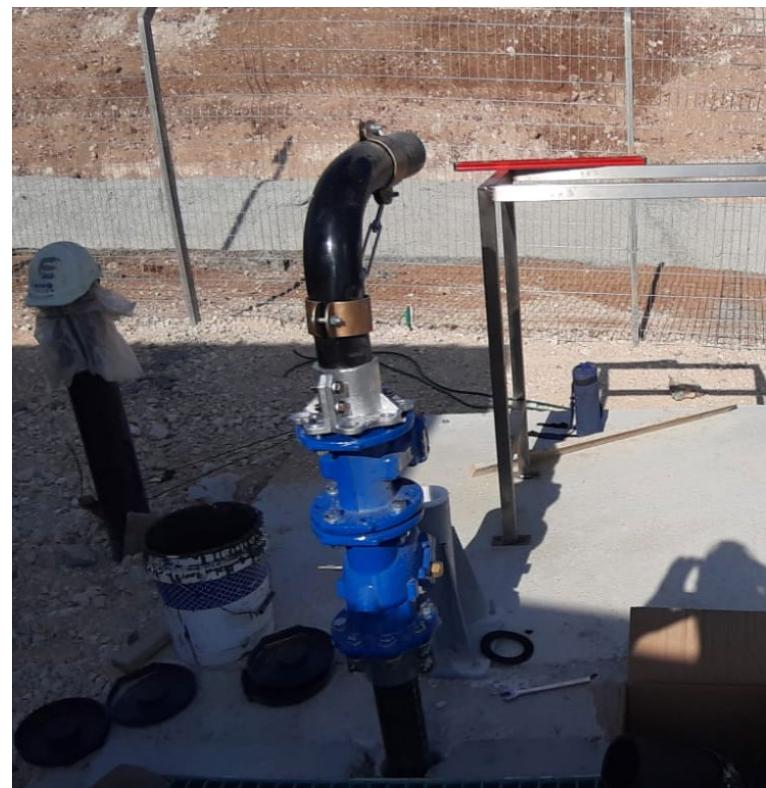
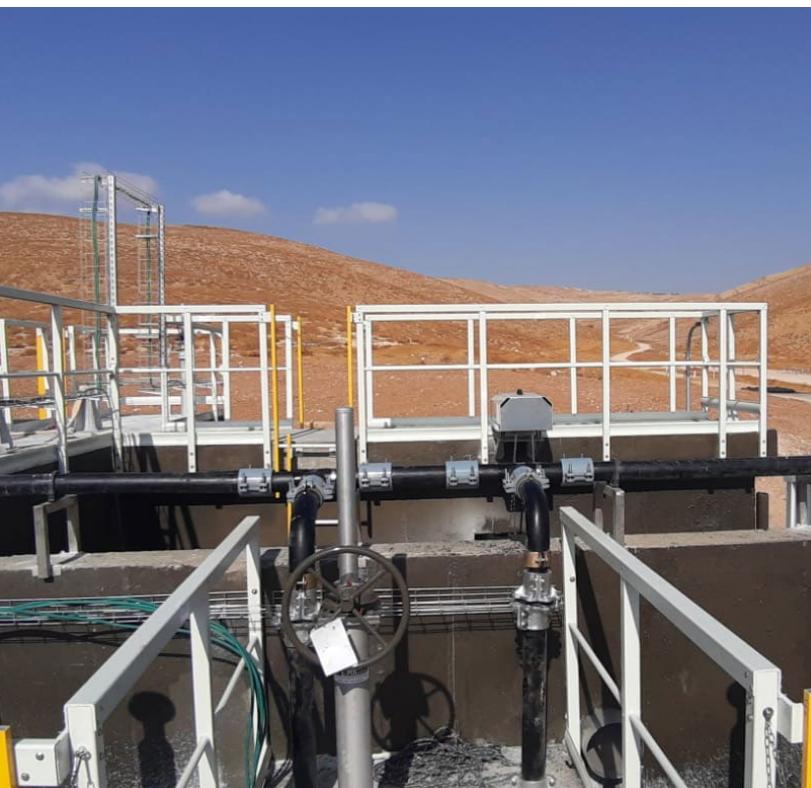
Wastewater treatment facilities are critical to public health and the environment, ensuring that our water sources are safe and clean. One crucial aspect of these facilities is their piping systems, which transport wastewater from one stage of the treatment process to another. Traditionally, stainless steel has been the preferred material for wastewater piping due to its strength and durability. However, a wastewater treatment facility in Israel recently decided to switch to PE-X pipes from Pexgol.

### The Solution

There are several reasons why the client decided to switch from stainless steel to Pexgol pipes. First and foremost, Pexgol pipes are significantly less expensive than stainless steel. In addition, they are much more convenient and flexible to work with, allowing for easier final adjustments in the field. This convenience factor is essential in a wastewater treatment facility, where there are often tight spaces and difficult-to-reach areas.

Another benefit of Pexgol pipes is their availability. Unlike stainless steel, Pexgol pipes are readily available, reducing the wait time for installation and maintenance. Finally, Pexgol pipes are absolutely resistant to corrosive conditions, which is critical in a wastewater treatment facility where pipes are exposed to highly corrosive substances.

To install the Pexgol pipes, the facility used mechanical fittings such as GP Flange couplers, Mechanical double connectors, brass fittings, and electrofusion Couplers. These fittings are easy to install and provide a secure, leak-free connection between pipes. Overall, the switch from stainless steel to Pexgol pipes has proven to be a wise choice for this wastewater treatment facility, providing significant cost savings and convenience, without sacrificing durability or performance.



# The Advantages of Pexgol Pipe Systems

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## High resistance to wear

Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.



## Superb internal and external corrosion resistance

Our pipes are proven to withstand decades of exposure to corrosive environments, with nonstop performance in some of the world's harshest environments.



## Excellent chemical and corrosion resistance

Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.



## Long pipe sections

Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.



## High temperature resistance

Working temperatures can range from -50°C/-58°F up to 110°C/230°F.



## Creep and impact resistance

Pexgol pipes can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Furthermore, Pexgol pipes are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

For more information please visit:  
[pexgol.com](http://pexgol.com)

