

HOBAS® Clears Traces of Time CC-GRP Pipe Systems for a Wastewater Treatment Plant in Slovakia

The construction of the Wastewater Treatment Plant in Poprad Town's quarter Matejovce, Slovakia, was initiated 20 years ago but came to a complete halt after 5 years. When the project was continued in 2004 the established constructions were no longer intact, neither were the pipelines that run between tanks and buildings.

Time and weather had left their traces on the original steel pipes that had been partially installed - they fell victim to corrosion. A suitable replacement had to be found which was fit enough to meet a row of requirements. Above all, however, it should have a long lifetime.

Further requirements were set due to site conditions such as the nearby Poprad River and railway tracks: high groundwater levels and corrosion resistance needed to be considered in the choice for the right material. Product flexibility and variability were further criteria for the installation drawing had to include existing constructions and a simple and fast installation had to be given.

HOBAS CC-GRP Pipe Systems met all requirements. Especially the infinite range of made-to-measure fittings simplified and accelerated the installation.

A total of 640 m pipe and no less than 50 fittings were installed for the project. The pipelines between the pumping units were designed for the pressure class PN 6 and gravity pipes PN 1 were utilized between the tanks where the inclination sufficed for a correct flow. To suit the terrain and groundwater on site, the pipes were delivered with a stiffness class SN 10 000.

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Year of Construction
2005
Installation Time
8 Wochen
Total Length of Pipe
640 m, over 50 tailor-made fittings
Pressure Class
PN 1 – PN 6
Stiffness Class
SN 10000
Diameter
DN 350 – DN 1800
Application
SewerLine

Installation Method
Open trench and on concrete supports of original line
Client
ZIPP a.s. Bratislava
Investor
Podtatranská vodárenská spoločnosť a.s.
Advantages
Corrosion resistance, made-to-measure fittings, fast installation, leak tightness, long lifetime

