

Renovation of sewer system with Amiblu NC Line in Krakow

In Poland's second largest city Krakow, an aged non-circular sewer was relined with 746 m of Amiblu NC Line pipes. The location close to a main artery and ongoing operations of the existing sewer line made the installation challenging.

The project "Water and sewage management in Kraków - stage V" is co-financed by the European Union and underway in Krakow since 2017. It involves a comprehensive modernization of the municipal water and sewage management system. Over 6 km of sewerage and 3.5 km of water supply lines will be created, and approximately 30 km of the existing network will be repaired and renovated.

Depending on the locations and conditions of the various network sections, different technologies were used to rehabilitate the aged pipelines. For a combined sewer system in Słowackiego Avenue, which is one of the most frequented roads of the city, trenchless was clearly the best option. The 80 year old non-circular collector required structural reinforcement due to its very poor static condition, and it was decided that Amiblu should supply the necessary GRP products for this project.

The rehabilitation plan was challenging: Both the traffic on Słowackiego Avenue and the water flow inside the sewer had to be maintained throughout the construction works. The contractor decided to work 90 % at night, i.e. from 10 p.m. to 6 a.m. in the morning. Amiblu NC Line facilitated the installation in the still operating sewer thanks to the quick and easy way to join the gaskets. 746 m of non-circular profiles in lengths of 1 to 3 meters were fitted inside the old channel to upgrade its structural strength and thereby extend its lifetime. The project was successfully completed in June 2019 and now contributes to a safer, future-oriented wastewater management in Krakow.



Above: 746 m of Amiblu NC Line pipes in various cross-sections were installed in the course of eight months to renovate parts of Krakow's aged sewer system.

PROJECT DATA

Country City	Poland Krakow
Year of construction	2018/2019
Installation method	Trenchless / Relining
Application	Combined sewer system
Technology	Amiblu NC Line
Total length of pipe	746 m
Pipe diameters	800/1200 mm, 700/1050 mm, 618/1084 mm, 500/950 mm
Client / investors	Miejskie Przedsiębiorstwo Wodociągów / Kanalizacji Spółka Akcyjna w Krakowie
Contractor	PPRIUS REMKAN Sp. z o.o.
Designer	PPU CPROJECT Kraków