

Plaines de Wilhems - Sewerage project

Phase 1: Construction of the trunk sewer



Country

Mauritius

Client

Waste Water Management Authority

Date

2005-2008

Cost of works

€26.8m before tax

Sogreah's services

- ▶ Complete supervision of the works

Background

The project consists in laying a trunk sewer between the town of Curepipe and the new St Martin sewage treatment plant. The route passes through the towns of Phoenix and Quatre Bornes.

The sewer will collect wastewater from an urban area with a population of 80,000.

Description

The trunk sewer is made of glass fibre reinforced polyethylene (PE-GF) and has the following lengths and diameters:

DN	m	Depth (m)
300	3,610	2 to 4
400	3,340	2 to 6
500	3,890	2 to 3
600	3,070	2 to 6
900	5,180	2 to 9
1,100	7,240	2 to 5
Total	26,330	

In addition, 1,100 m of old cast iron, asbestos and steel drinking water pipes along the route were replaced by cast iron and HDPE pipes. Lastly, more than 500 manholes were fitted. The works were performed in a dense urban setting with severe traffic-related constraints.

Detailed services

Sogreah is responsible for complete supervision of the works (approval of payments). A full-time team of nine people has been set up for the duration of the works. The works contract was awarded to Jan de Nul (Belgium) and is of the FIDIC Red Book type.