

## Lille Fives - Rue Gutenberg Flood-control basin



### Country

France

### Client

Communauté Urbaine  
de Lille

### Date

2002-2007

### Cost of works

€ 9.9 million

### Sogreah's services

- ▶ Complete project coordination and management

### Background

The Fives neighbourhood in Lille is severely exposed to flooding during heavy rains. The Darwin siphon downstream of the neighbourhood is inadequate and the Greater Lille council therefore decided to build a 20 000 m<sup>3</sup> storage basin for combined sewage in Rue Gutenberg to limit overflows.

### Characteristics

- ◆ Dimensions: 160 m x 10.8 m x 15 m (height)
- ◆ Completely buried structure in an urban site

- ◆ Diaphragm wall construction
- ◆ Grout curtain around the basin
- ◆ Creation of two additional storm weirs
- ◆ Creation of an 1800 mm dia. effluent feeder main
- ◆ Creation of three equal compartments
- ◆ Construction of an equipment room inside the basin
- ◆ Separate high- and low-level draw-off systems for clear and turbid water after 24 hours
- ◆ Automatic rinsing system by means of 6 hydroejectors

- ◆ Activated carbon deodorisation system
- ◆ Automatic screen rake at the entrance to the basin
- ◆ Energy dissipation via a spiral stairway
- ◆ Remote supervision and automatic equipment
- ◆ Surface road works above the basin

**Duration of works: 20 months**

SETS/VHD/ebd/0107