Brest - Costour valley
Gravity waste water collector

Country
France

Client
Communauté Urbaine
Brest Métropole Océane

Date
2007-2008

Cost of works
€2,038m exc. VAT

Sogreah's services
- Design services and project supervision, including preparation of documents required by French water legislation

A strategic challenge
for developing Froutven business park.

Context
Severe constraints in laying the gravity waste water pipe:
- Secondary roads to be crossed;
- Costour valley, a raw water reserve and wetland area;
- Moulin Blanc drinking water treatment plant site;
- Brest-Paris railway lines;
- Brest feeder road.

Aims
To lay 2,200 m of 500 mm dia. and 350 m of 600 mm dia. waste water pipes. As a compensatory measure, to rehabilitate the raw water reserve by-pass section and lay 1,050 m of 300 mm dia. pipe to convey the raw water.

Performance of the study
Close cooperation with all stakeholders in order to keep to deadlines and ensure optimum scheduling of the works

Description
Tight schedule for completing the works in 25 weeks.
Three materials (cast iron, earthenware, fibreglass-reinforced polyester) to comply with the requirements of each part of the route (7 m extra depth, gentle gradient of 0.15 %, delivery times, etc.).
A consortium of three companies (SADE, MARC and DLE) had to be set up to keep to the deadlines.
An environmental assurance plan was required to preserve the natural site during (and after) the works.

Bottom of the excavation downstream of the raw water reservoir. On the left is the ND 300 mm raw water pipe and on the right the ND 500 mm waste water pipe.

SOGREAH CONSULTANTS