

Champagnier - Booster station



Country

France

Client

Syndicat Intercommunal
des Eaux de la Région
Grenobloise (SIERG)

Date

2004-2009

Cost of works

€2.3m exc. VAT

Sogreah's services

- ◆ Preliminary studies for the entire project
- ◆ Design services and project supervision



Context

The SIERG is responsible for satisfying the growing demand for water from the various localities and industries situated in the Grésivaudan valley around Grenoble.

To avoid doubling the pipes in the highly built-up northern sector and pending other solutions for reinforcing and safeguarding the network, the SIERG decided to go ahead with work to reinforce it

by installing appropriately sized booster stations in suitable locations.

On conclusion of the preliminary studies carried out by Sogreah, the scenario adopted involved constructing a booster station at "Les Iles" in the commune of Champagnier, capable of delivering 4000 m³/h to a TDH of 30 m.

Characteristics of the structures

- ◆ Equipment: 3 single-stage split case pumps (+1 on standby) delivering a design discharge of 1300 m³/h to 30 m TDH/u.
- ◆ Total discharge: 4000 m³/h.
- ◆ Situated on a by-pass from the existing ND 800 mm feeder pipe.
- ◆ Protection provided by four 5 m³ water-hammer tanks.
- ◆ Supply: ND 1500 mm.
- ◆ Suction feeder: DN 600.
- ◆ Stainless steel pipe.

GNB/CYB/ebd/1209