

Jarrie - Industrial water borehole

Production 500 m³/h



Borehole equipment

Country

France

Client

Arkema France

Date

2007-2008

Cost of works

€130,000 exc VAT

Sogreah's services

- ▶ Hydrogeological studies
- ▶ Design services and project supervision
- ▶ Statutory files



Context

At its Seveso-class site at Jarrie, outside Grenoble, Arkema manufactures intermediate species for the chemical industry. In addition to producing chlorine, the site also has the world's largest hydrogen peroxide production unit. Arkema uses groundwater (800 l/s) for its industrial requirements (cooling, fire-fighting). A new borehole was drilled recently to increase the plant's production capacity.

Designed with an operating discharge of 500 m³/h, the borehole was fitted with ND 24" Johnson-type wire-wrapped screens in order to obtain the optimum yield. It exploits the coarse alluvium of the River Drac.

Sogreah's role

Sogreah provided the following services:

- Hydrogeological study to position the borehole at the plant site.
- Drilling of an exploratory borehole.
- Modelling of the hydrodynamic impact (discharge = 500 m³/h) of the new borehole on the aquifer and on the existing structures operated by Arkema.
- Impact documents required by French water legislation.
- Design study and preparation of tender documents.
- Supervision of works.
- Supervision of pumping tests.
- Camera inspection of the borehole.

GNB/BCA/ebd/0608