

La Sévinerie - Equipping and connection of a drinking water supply borehole and five storage reservoirs



Country
France

Client
Syndicat de Production
d'Eau Potable de la
Sévinerie (SPEP)

Date
2005-2008

Cost of works
€3.2m exc. VAT

Sogreah's services

- Preliminary studies, preliminary design and assistance with works contract in the framework of design services and project supervision provided by the consortium

Context

In order to combat the decline in the quality of drinking water distributed from their individual resources (with increased iron and nitrate contents), the villages of Montigny, Attray, Crottes-en-Pithiverais, Aschères-le-Marché and Bazoches-les-Gallerandes joined to form the Syndicat de Production d'Eau Potable de la Sévinerie (SPEP), taking its name from the existing production well.

The SPEP commissioned a consortium consisting of SEAF and Sogreah to provide design services and project supervision with a view to equipping and connecting the Sévinerie well to the existing storage structures.

The operation was broken down into two sections:

- A firm section, involving equipping and connecting the well to the storage structures, as well as the technical equipment rooms capable of treating iron if necessary (the subject of the conditional works).
- A conditional section, involving the installation of the iron removal unit itself if the water analysis performed at the end of the works showed that the iron content was high enough to require treatment.

Description of the project

Firm section:

- Well equipment and well head building (two pumps, 122 m³/h to 40 m TDH).

- 250 m³ buffer tank.
- Booster station (3 pumps, 58 m³/h to 60 m TDH).
- 17,700 m of feeder pipe (PVC, ND 80 to ND 200).
- Work to connect the 5 water towers.
- Iron removal building, lagoon and backwashing water infiltration system.
- Development of roads and utility networks for the well plot.

Conditional section

- Installation of the 122 m³/h iron removal unit (1 aeration module and 2 titration modules).