

**Country**

France

**Client**

Commune of Saint-Bon  
en Tarentaise

**Date**

2006-2010

**Cost of works**

€2m exc. VAT

**Sogreah's services**

- ▶ Design services and project supervision

**Context**

The commune of Saint-Bon Courchevel has decided to increase and secure its drinking water production capacity in order to guarantee supplies to the community and enable its extension projects to go ahead smoothly.

It is taking advantage of a raw water transfer project being implemented by the "Three Valleys" operating company (for artificial snow production) to

mobilise water from La Rosière lake and channel up to 45 l/s to supply drinking water to the commune.

**Characteristics**

- ◆ Raw water quality: Surface water with a high sulphate content (750-800 mg/l) connected with the dissolution of gypsum; water very cold (2-5°C).
- ◆ Treatment capacity: 36-108 m<sup>3</sup>/h (adjustable),

with possible increase later to 162 m<sup>3</sup>/h.

- ◆ Treatment process: discharge and pressure regulation, pre-filtration, membrane filtration (reverse osmosis or nano-filtration), remineralisation and adjustment through CO<sub>2</sub> injection and filtration on neutralite, disinfection by chlorination.
- ◆ Mountain site at an altitude of 1930 m.

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