



Country
Morocco

Client
Amendis

Date
2001-2005

Cost of works
€28m

Sogreah's services
▸ Design Services

Description / Particularities

- Sea outfall for the new; treatment plant at Tangiers
- Discharge of 2.5 m³/s;
- 2500 m section at sea discharging at -40 m;
- 1300 mm diameter HDPE pipe;
- Site subject to strong Atlantic waves and currents in the Strait of Gibraltar;
- Major challenge: preserving bathing water quality.

Detailed services:

- 3D modelling of the behaviour of the various discharge options;
- Determination of the best location for water quality;
- Determination of the main characteristics of the outfall;
- Preliminary design, competitive bidding documents for the structures;
- Assistance in analysing bids;
- Impact assessment concerning the coastal maritime environment.