



HAMMAM MESKOUTINE DAM

Algeria, 1983

PROJECT CHARACTERISTICS

Works: zoned earthfill dam with 3 spillway and outlet tunnels, central inspection gallery and grout curtain.

Purpose: irrigation and flood control.

Dimensions:

- height: 90 m
- embankment volume: 3 500 000 m³
- storage: 100 000 000 m³
- crest length: 460 m

Watertightness: Clay central core. Grout curtain under the core

Materials:

- foundation: schists;
- embankment: sand and gravel, clay.



PROFESSIONAL SERVICES PERFORMED

Consulting work related to the main grouting and drainage curtains in the foundation rocks under the core and to grouting behind tunnel linings.

Hammam Meskoutine is a zoned earth and rock dam with a central clay core. Three spillway outlet tunnels run under the right bank: two tunnels are circular and one is horseshoe, over 11 m high. Most of the rock around the tunnels is swelling. The rock under the dam is waterproofed by a single row grout curtain 80 m deep built with a split spacing method. The grout absorption ranged from 400 kg/m and in primary holes to 95 kg/m in the tertiary ones.

