



Τσιμεντέσεις στο δεξιό αντίκρουσμα - Grouting of right abutment



Γενική άποψη θεμελίων του φράγματος - General view of dam foundations



Κατασκευή έργων υδροληψίας - Draw-off culvert under construction

Tamasos Dam

Tamasos Dam is constructed on Pedhaios river about 23 km south of Nicosia, between the villages Pera Orinis and Kambia.

It is an earthfill dam with a central clay core. The embankment has a height of 34 m and crest length 210 m. The reservoir has a storage volume of about 2,8 million cubic metres, (MCM). Due to the presence of old land slides on the upper part of the left abutment, an upstream and a downstream toe weights have been constructed to provide further support to it.

The catchment area contributing to the river flows is 45 km² and the reservoir area at full storage is 30 ha. The mean annual flow of Pedhaios river at the dam location is 6,3 MCM.

Tamasos Dam is a recharge dam. The flow of Pedhaios river is intercepted at the dam location where water is stored in the reservoir and released in a controlled manner downstream of the dam for the recharge of the aquifers between Pera and Nicosia. The water stored in the aquifer is then utilized mainly for irrigation through existing boreholes.

The geological and site investigations were carried out by the Water Development Department in collaboration with the Geological Survey Department. The design of the Dam was carried out by the Water Development Department under the supervision of the Consulting Engineers, Mott MacDonald Ltd, UK.

The construction contract was awarded to the Cypriot construction firm Charilaos Apostolides & Co. Ltd for the sum of Cy£1.566 million. The construction works commenced in September 1999 and were substantially completed in January 2002.

The Water Development Department is responsible for the operation and maintenance of the dam and will monitor the recharge of the aquifers downstream of the dam up to Nicosia on a continuous basis.



Κατασκευή αναχώματος - Embankment under construction