

Networks of the Water Supply Councils of Nicosia, Limassol and Larnaca

PROJECT TITLE

Networks of the Water Supply Councils of Nicosia, Limassol and Larnaca

LOCATION

Nicosia, Limassol and Larnaca, Cyprus

CLIENT

Water Supply Council of Nicosia

DESCRIPTION

The project deals **separately** for **each Council** (Nicosia, Limassol and Larnaca) and involves the **development** of a **Strategic Principal Mains Model** and a **Detailed All Mains Model** for the **simulation** of the operation of the water supply network. The **Strategic Principal Mains Model** comprise all the **tanks**, all the **main distribution pipelines** and the **demand junctions** at the heads of all network areas. The **Detailed All Mains Model** comprise all the **data** of the **Strategic Model** and the **total** of **pipelines** and **junctions** of the **secondary distribution networks**. The models are **applied** in **evaluating network operation** (for present demands as well as for predicted future demands of the next 25 years) and in proposing a **new network layout** in response to **predicted future water demands**.

The staff of ADK S.A. completed the whole study for the Councils of Limassol and Larnaca. The **study includes** tasks such as **Analysis of Consumption data** and **estimates of the future demand** (25 years), **Verification** (Categorisation) **of the Hydraulic Models**, **Estimates of the Existing Operation** and **Proposals for their Improvement**, **Estimates of the Future Operation** and **Proposals for the construction of new Projects**, **Negotiations with the competent Authorities**, **Training of the Councils' staff in the use of the Hydraulic Models and the Systems Operation** as well as **identification of the minimum required software for the correct and accurate operation of the proposed hardware**.