Riyadh City Water Distribution

Real-Time AQUIS System

Saudi Arabia

Riyadh

Today Riyadh is one of the fastest growing and most prosperous cities in the world. In less than half a century it has grown more than a hundred fold. Its population has increased from 20,000 to approximately four million. It is still growing and prospering.
The need for water is ever increasing having lead to the Saudi's drilling for water in the dessert and transporting it to Riyadh City in large pipelines where it is distributed to the consumers via the city's huge distribution network.

Market in Ryadh at night

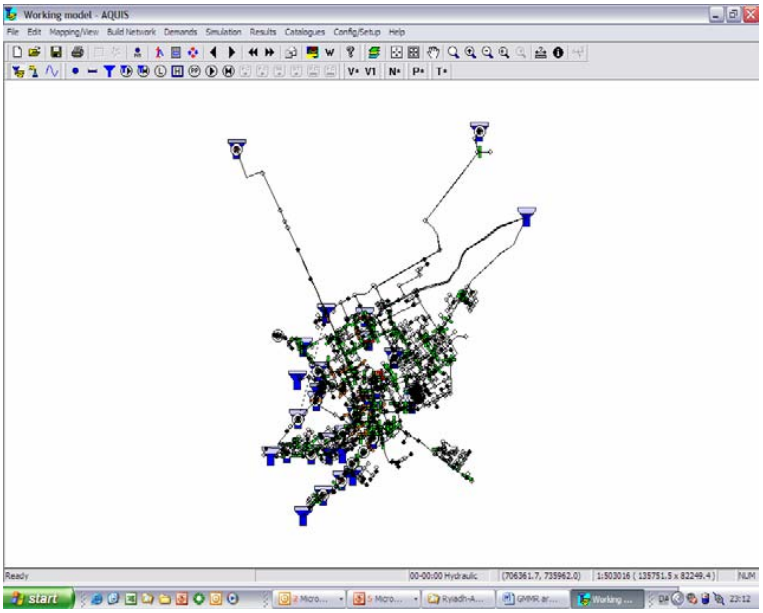
Network Description

Total length of piping in the model is 2.634 km. The water consumption is 540.000 m3/day covering Riyadh with a population of 4.0 million people.

AQUIS Applications

The AQUIS Real-Time Pipeline Simulation System consists of a fully transient realtime pipeline model.

- AQUIS Hydraulic 10,000
- AQUIS Model Manager
- AQUIS Real-Time



System integrator

7T and COWI have jointly been the system integrator and a sub-contractor to the main contractor, Serck Controls, UK, providing the overall SCADA system.