



A Subsidiary of the RWL Water Group USA



BRACKISH WATER DESALINATION FOR GARILLIS FACILITY IN LIMASSOL, CYRUS

THE FACTS

LOCATION: Limassol, Cyprus

APPLICATION: Brackish seawater desalination

DATE OF INSTALLATION: JAN. 2009

PROBLEM: Groundwater unfit for human consumption.

SOLUTION: A turnkey solution that provided brackish water desalination.

CAPACITY: 10,000 m³ /day

FOOTPRINT: 720 m²

CLIENT: Cyprus Water Development Department

AEROMIX IS THE EXCLUSIVE SOURCE FOR NIROSOFT TURNKEY SOLUTIONS

- DESALINATION OF BRACKISH AND SEA WATER
- EFFLUENT RECLAMATION
- SUPPLY OF DRINKING WATER IN REMOTE LOCATIONS OR DISASTER AREAS
- DEMINERALIZED WATER
- WASTEWATER TREATMENT

ABOUT AEROMIX

AEROMIX is a world leader in water and wastewater treatment equipment. AEROMIX offers full lines of treatment systems, aeration, equipment, and solar-powered equipment. Learn more by visiting www.aeromix.com.

Challenge

The city of Limassol in Cyprus was experiencing an increasingly severe water shortage with regular water cuts. The local groundwater in the local aquifer was unfit for human consumption and the growing population and expanding tourist industry was placing extra pressure on the existing water supply. The Cyprus Water Development Department (WDD) selected a Turnkey System for implementation of a cost-effective solution which would relieve the water shortage without disturbing the local population.

Solution

At the Garillis facility, the water passes through sand filters before undergoing reverse osmosis. Minerals are then added for improved taste and health. This process produces purified drinking water, along with a waste concentrate that's discarded to the local sewage system. The result is 10 million litres of high quality drinking water a day. The quiet and ecologically friendly plant, located in the heart of a residential area in Limassol, operates without causing any disturbances whatsoever to the neighbouring population.

System Description

The desalination plant is designed to treat brackish water with high nitrate levels. The treatment process is comprised of:

- Pre-treatment by multimedia and cartridge filters
- Brackish water reverse osmosis
- Remineralization and post-chlorination

Five-Year BOT project

The Garillis desalination plant was supplied on a Build-Own-Transfer (BOT) basis for the Cyprus Water Development Department. The project was completed in record time — five months from order to completion.