

# Waste Water Treatment Plant Ankara

150 million Euro project with financial support of the Federal Republic of Germany



**AMIAN TIT WATER MANAGEMENT**

Project Information

Products and Services

Drinking Water

Process Water

Waste Water

ICA Technology

Operation and Finance

## Waste Water Treatment Plant Ankara



Ankara, the capital of Turkey, is situated approx. 850 m above sea level in the heart of Anatolia. The summers in this region are characterised by dry weather, during which river beds can run dry. The wastewater produced in this metropolis, with a population of 4 million, therefore often formed the main supply to the nearby system of rivers and streams but remained untreated for a long time. This situation was improved notably when the sewage treatment plant was constructed. The financing of this major environmental protection project was made possible by the Federal Republic of Germany. The quality class of the surface water was improved from class IV to class II. The plant was designed and constructed within a period of 5 years by a consortium led by PWT Wasser- und Abwassertechnik GmbH.

### Technical Data

#### ■ Size of Plant

Population Equivalents	3,900,000 PE
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#### ■ Flow

Average Dry Weather Flow $Q_d$	765,000 m <sup>3</sup> /d
Peak Dry Weather Flow $Q_t$	41,000 m <sup>3</sup> /h
Peak Wet Weather Flow $Q_m$	63,800 m <sup>3</sup> /h

#### ■ Loads

BOD <sub>5</sub>	235 t/d
COD	480 t/d
TS	200 t/d
TKN	24 t/d
P <sub>tot</sub>	3.2 t/d

#### ■ Effluent Discharge Criteria

BOD <sub>5</sub>	30 mg/l
TS	30 mg/l



At the current stage, the plant is constructed for a capacity of 3.9 million Population Equivalents. The design and relevant plant components have already been prepared to deal with a capacity of 6.3 million Population Equivalents in the year 2025. The plant includes full biological treatment, sludge digestion with cogeneration of the produced biogas. The investment cost had been 150 million Euro.

With the construction of this plant PWT Wasser- und Abwassertechnik GmbH has given proof of its comprehensive range of supplies and services for the construction of large turn-key plants.



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