

# KAZAKHSTAN

## WATER SUPPLY KAZALINSK / NOVOKAZALINSK

### **Location**

Aral Sea Region

### **Client**

Committee for Water Resources,  
Ministry of Agriculture, Kokschetau

### **Financing**

German Financial Cooperation / KfW

### **Period**

2002 - 2008

### **Value of Services**

1.441 million US\$



### **Project Description**

The provincial capital Novokazalinsk is situated close to the Aral Sea and suffers from the drying-up of the sea with increasing soil salinity, decay of commercial and industrial activities and negative migration. Water supply improvement measures are provided for Novokazalinsk, the adjacent smaller town of Kazalinsk and four nearby villages with together 50,000 inhabitants.

The system consists of abstraction from the Syrdarya River, two purification plants, 6 pump stations with storage facilities, and reticulation networks in the two towns. One purification plant is operated by the local Water Supply Corporation (KSK) and the other one by the railway organization. Parallel to river abstraction, purified groundwater is supplied by a transmission line over a distance of 230 km from well fields in the north.

Project components comprise:

- Immediate improvements aiming at a better quality of the supplied river water, power saving in the pump stations, network loss reduction and efficient operation; works are carried out by an international general contractor which also performs a two-year training for the KSK staff
- Feasibility study for long-term measures with a proposal for further structural requirements and operational improvements

### **Scope of Services**

- Inventory of existing water supply system, mapping of all plant and both distribution networks
- Analysis of technical, commercial, financial and organizational procedures of the operator
- Elaboration of immediate improvements for the purification plant, transmission mains, 6 pump stations and the two town networks; specification of workshop equipment and operation vehicles required
- Assistance in tendering and award of contracts
- Supervision of construction and of training for operation staff
- Preparation of a feasibility study for long-term measures including the integration of the railway supply system into the town network and the assessment of a sewer system serving part of Novokazalinsk