



FEASIBILITY STUDIES FOR YEREVAN WATER AND WASTEWATER NETWORK IMPROVEMENT

TASK 4: IMPROVEMENT OF DRINKING WATER SUPPLY NETWORK AND MAIN SEWERAGE COLLECTORS

Country Republic of Armenia

Client SOGREAH Consultants

Duration July 2010 – August 2011

Brief description of project and services provided

Within the framework of the project study of Yerevan water and wastewater systems, clarification of technical condition of their separate segments and nodes was done aimed at identification of rehabilitation and development needs. In particular:

- Field instrumental investigations of the internal water supply network and main wastewater collectors under the service of YerevanDjur CJSC, data collection, inventory, updating of general plans.
- Flow and pressure measurements in characteristic points of water supply distribution network.
- Based on the results, updating of the hydraulic model of the city distribution network.
- Preparation of the list of W&W systems' improvement measures and their investment evaluation.
- Development of proposal of priority reconstruction and improvement measures, including:
 - repair of drinking water pipelines - 43.08 km
 - drinking water network expansion - 19.73 km
 - reconstruction of inlet lines of private houses - 10,000 connections
 - repair of emergency sewerage collectors - 10.58 km
- Preliminary environmental and social assessment was done, including positive and negative impacts of the project on water resources and water bodies, land resources, food safety and human health.
- Environmental management plan was developed, including 3 main stages:
 - Representation of mitigation measures,
 - Monitoring and assessment,
 - Plan review, based on the results of monitoring and assessment.
- Social studies were implemented in affected communities.



The proposed investment projects were discussed and approved by YerevanDjur CJSC. The studies will serve a basis for implementation of the process of improvement of Yerevan city's water supply and wastewater systems.

Project objective:

Improvement of Yerevan city water supply network, regulation of pressures, reduction of leakage, increasing of water supply duration, increasing water supply reliability level, improvement of wastewater system, improvement of sanitary condition of the city and ecological condition of river Hrazdan.