



# RESERVOIR WORKS – II PHASE

## CONSULTING SERVICES FOR STUDY AND WORK ASSIGNMENT

**Country** Republic of Armenia

**Client** World Bank /  
YerevanDjur CJSC

**Duration** December 2010 – April 2011

***Brief description of project and services provided***

During the design works engineering-geological investigations of reservoir areas, technical studies of reservoir structures subject to repair were implemented and corresponding conclusions provided. Under the detailed design the following was planned:



- Replacement of the existing regulating valves for the inlet and outlet flows of the DRRs with new ones with electric drives;
- Installation of electromagnetic flow meters for measurement of the water amount flowing into and out of the reservoirs;
- Installation of ultrasonic level meters for determining of water level in the reservoirs;
- Installation of chlorine sampling devices on corresponding pipelines for measuring the residual chlorine in the water flowing into and out of the reservoirs;
- Providing lighting of the reservoirs' sanitary protection zones;
- Improvement of external power supply system (as necessary);
- Repair, reconstruction or construction of dispatcher buildings, dry chambers for regulation of DRRs, valve and flow meter chambers;
- Construction of power supply and information transfer air cable system for the equipment and devices inside the DRRs' sanitary protection zone.

Within the framework of the design reconstruction of dry chambers, repair of covers, internal repair works in dry chambers, dispatcher buildings, guardhouses were planned.



**Project objective:**

Improvement of the control system of storage reservoirs operating in Yerevan city water supply system, increase the level of equipment with control equipment and devices, and make preconditions for introducing automated control system in the future stages.