



Bovilla Water Treatment Plant

about project

L57



Budget

10.5 million Euro



Municipal sectors/ directorates

Municipality of Tirana, UKT

PROJECT DESCRIPTION

The old Bovilla water spring was built during 1973-1974 and is located about 15 km in the North-Eastern part of Tirana, 281m above sea level. The lake of Bovilla is situated 50 from the Bovilla dam, and is supplied by three main sources arising from the carbonate complex of Kruja - Dajti mountain range. The supply varies from 130 l / sec in periods of drought, up to 440 l / sec during wet periods, with an average annual flow amount of 360 l / s.

In recent years, perturbation of water in the exit of the intake facility has been identified, with turbidity reaching up to 900 NTU and composing colloidal particles. During the days of turbulence increased levels of ammonia and nitrite have been identified.

The project aims to construct two water treatment plants next to the Bovilla water source, with a capacity of 220 l / sec each, using the terrain for construction and trying not to lose quota.

OVERALL OBJECTIVE

The overall objective consists in providing continuous drinking water supply to the administrative unit of Zall-Herr (the villages Herraj, Priske e vogël e poshtme, Qinam, Kallmet, Pinar, Mëlçisë), Dajt (Shish Tufinë), administrative unit of Paskuqan (Center of Babrru, Babrru Shpat, Prengajve) and the Municipality of Kamez. The project is in line with the Albanian standards of STASH 3904:1997 and the recommended WHO directives.

PROJECT IMPLEMENTATION MODALITY

The construction of the water treatment plants requires two implementation phases, one for each water treatment plant. Based on preliminary assessments, the construction costs of the two plants amount to 4.5 million euros. The project has also envisaged the replacement of 700mm diameter of steel pipeline from the intake facility to the depot of Kinostudio. The pipeline is 16.4 km long and is currently amortized, after 40 years of usage and with illegal connections along his length. Preliminary assessments indicate that the replacement of the pipeline amounts to 6 million Euros. The total cost for the above mentioned interventions amounts to 10.5 million Euros.

PRELIMINARY IMPACTS

This project impacts directly on the water supply for the community consumers of the administrative units of Zall Herr, Dajt, Paskuqan and the Municipality of Kamëz, ensuring that the quality of water is in line with the parameters of STASH 3904: 1997 for "potable water" and the normative of the WHO. The replacement of the Kinostudio pipeline will reduce water losses along the transmission line from 60% to 15%, providing 24h of water supply, to an annual average of about 150 l / s. This will lead to improved water supply services for the community of the north-eastern Tirana.

