



Evaluation of Water Quality in Bovilla Reservoir Using Physico-Chemical Parameters during 2006-2008[#]

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Abstract: Bovilla reservoir was constructed in 1998 and is located about 15 km North-East of Tirana city. This reservoir is the main source of drinking water for the city of Tirana (more than 700.000 inhabitants). The aim of the study was to collect sufficient baseline quality data to provide a basis for future water quality protection and monitoring in Bovilla reservoir. Water quality samples were collected from May 2006 to May 2008 with a frequency of two months in three sites, in different depth of the lake (1m, 3m, 5m, 10m, 15m, 20m, 30m, 40m). Vertical profiles for water temperature, pH, dissolved oxygen (DO), conductivity, alkalinity, total phosphorus (TP), nitrite, nitrate, ammonium, total dissolved solids (TSS), turbidity, UV absorbance, BOD5, chlorophyll a, b, c and Secchi disk transparency were recorded. The study was carried on within the framework of SCOPES Program (Scientific Cooperation between Eastern Europe and Switzerland), project JRPIB 7320-111032/1 focused on “*Limnologic and hydrologic assessment of Bovilla basin (Tirana, Albania) and its watershed, focused on drinking water use*”.

Keywords: *reservoir, drinking water, physico-chemical parameters, SCOPES project.*

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