

**MICROBIOLOGICAL, TOXICOLOGICAL AND CHEMICAL STUDY OF
MORNOS RESERVOIR U.V.-DISINFECTED WATER**

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ABSTRACT

The purpose of this study is the testing of the efficiency of a UV-disinfection system for untreated water from Mornos's reservoir and the comparison with the efficiency of chlorination by using the criterion of % killing effect of microorganism-indicators of water pollution. Determinations of THMs were carried in chlorinated water after UV-disinfection and clarification. Also, the toxicological effect of the disinfected water on the survival rate of rainbow trout was studied. Under the experimental conditions, UV radiation is equivalent to chlorine-disinfection, achieving a significant decrease of THM concentration in accordance to E.C. criteria for minimization of these products, if water is chlorinated after settling.