

MONITORING OF THE POLLUTION FROM HEAVY METALS IN SURFACE WATERS OF GREECE

**N.GEORGOPOULOS, N. S. THOMAIDIS, A. STASINAKIS, A. GRIGOROPOULOS,
T. D. LEKKAS**

Laboratory of Water and Air Quality, Department of Environmental Studies, University of
the Aegean, Theofrastou and Alkaiou, Mytilini 81 100, Greece

ABSTRACT

The purpose of this study was the monitoring of the pollution from heavy metals in the surface waters of Greece, in the frame of the 76/464/EEC directive. Samples were collected from 16 rivers and lakes of Greece in three (3) seasonal sampling campaigns. The total acid extractable and the dissolved fraction of As, Cd, Ni, Cr, Zn, Pb, Cu, Fe, Mn, V, Mo, Ti, Ba were determined. The concentrations of heavy metals were low, with exception of As in lake Doirani and lake Volvi. As, Zn, Mo, and Ba were mainly in the dissolved phase, while Fe, Mn, Co and Cr were associated with the particulates. Significant statistical correlation was observed between Cr, Ni, Fe, Pb, Zn, Mn and Co.