

## **ASSESSMENT OF THE QUALITY CHARACTERISTICS OF PINIOS RIVER, GREECE**

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### **ABSTRACT**

Quality parameters were determined in the water of Pinios river during one year sampling period. Physicochemical parameters (pH, conductivity, DO) did not show remarkable differences neither between sampling sites, nor between sampling periods. Nutrients (nitrogen and phosphorus compounds) showed temporal variations because of agricultural activities. Heavy metals (Pb, Cd, Cr, Cu, Ni) were also determined in the dissolved fraction. Variations observed were related to the geology of the examined area and the influence from anthropogenic sources. Statistical analysis of variance of the most important chemical parameters and heavy metals showed significant variation between sampling periods, while insignificant ones between sampling sites.