

**STUDY OF THE GROUNDWATER QUALITY IN THE AREA OF INOFYTA,
GREECE**

M. PAPAIOANNOY¹, I. SPANOS², M. LOIZIDOU³, and J. MATHER⁴

*¹Hellenic Ministry for the Environment, Physical Planning and Public Works, Dpt of
International and EU Affairs, 15 Amaliados str., 115 23 Athens, Greece*

*^{2,3}National Technical University of Athens, Dpt of Chemical Engineering, 9 Iroon
Polytechniou str., Zografou Campus, 157 73 Athens, Greece*

⁴Royal Holloway University of London, Dpt of Geology, Egham, TW20 OEX, UK

ABSTRACT

A regional groundwater quality survey from 37 industrial boreholes in the area of Inofyta, Greece identified the existence of anthropogenic substances in local aquifers. The parameters that were identified in groundwater samples were allocated to their possible source, namely wastewater deriving from local land uses comprising mainly intense industrial activity, stock-breeding and agricultural practices. The limited extent of heavy metal contamination may be due to site-specific geological characteristics, i.e. alkaline soil pH and high clay minerals' content, that lead to retention of pollutants within the unsaturated zone.