Environmental Engineering and Management Journal

March/April 2009, Vol.8, No.2, 347-351 http://omicron.ch.tuiasi.ro/EEMJ/



"Gheorghe Asachi" Technical University of lasi, Romania



## APPLICATION OF INDUCTIVELY COUPLED PLASMA – ATOMIC EMISSION SPECTROSCOPY (ICP-AES) BASED ANALYSIS FOR WATER QUALITY CONTROL

Irina Dumitriu<sup>1,2\*</sup>, Radu – Claudiu Fierascu<sup>1,2</sup>, Ioana Raluca Bunghez<sup>1</sup>, Rodica – Mariana Ion<sup>1,2</sup>

> <sup>1</sup>INCDCP-ICECHIM, 202 Independentei Road, 060021, Bucharest, Romania <sup>2</sup>Valahia University, 2 Carol I Blvd., Targoviste, Romania

## Abstract

The quantification of heavy metals presence in the environment is a very important aspect regarding water quality control. The limits for those metals are very well established by Romanian laws and the essence of every validation report is to prove that the method, the apparatus and the operator can reach the established limits. In the present paper such a validation report is presented, proving the appropriate use of Inductively Coupled Plasma – Atomic Emission Spectroscopy (ICP-AES) for waste water monitoring.

Key words: ICP-AES, metals, toxicity, water quality

<sup>\*</sup> Author to whom all correspondence should be addressed: e-mail: dumitriu.irina@yahoo.com, Phone: +4.021.316.30.94