

Environment Conservation Journal 15(1 & 2)195-199, 2014
ISSN 0972-3099 (Print) 2278-5124 (Online)
Abstracted and Indexed



Determination of Zn, Cd, Pb and Cu metals in ground water of District Hapur, Uttar Pradesh (India) by anodic stripping voltammetric technique

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Received:05.02.2014

Revised: 15.03.2014

Accepted: 24.4.2014

Abstract

In the present communication determination of Zn, Cd, Pb and Cu metals has been carried out from ground water of Hapur District, Uttar Pradesh (India) using differential pulse anodic stripping voltammetry (DPASV) at Hanging Mercury Dropping Electrode (HMDE). Determination of Zn, Cd, Pb and Cu was carried out by using acetate solution as buffer (pH 4.6) with a sweep rate of 0.06 V/sec and pulse amplitude 0.05 V by HMDE by standard addition method. The minimum level of Zn, Cd, Pb and Cu should also be near to zero and the concentration found in the ground water sample of Hapur (India) as analyzed 2.1834, 0.0509, 0.0116 and 0.0331mg/L⁻¹ respectively.

Keywords: *Anode stripping voltammetry, hanging mercury dropping electrode, heavy metals, ground water, district Hapur*