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## Heavy Metal Distributions in Water of the Aras River, Ardabil, Iran

PDF (Size: 375KB) PP. 73-78 DOI: 10.4236/jwarp.2012.42009

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### ABSTRACT

Aras (situated on the frontier river) is one of Iran's important rivers which is situated on the west North of the country. The concentration of heavy metals in this river was studied around Ardabil province during the 1389 in all four seasons (spring, summer, autumn, winter). The cluster analysis technique with the help of the results gained from density of metals like (Zn, Cu, Fe, Hg, Ni, Pb, Cd) was used in the water of Aras river for classifying quality of the river. According to the gained results from the cluster analysis, the stations were divided into three groups with high pollution (HP), medium pollution (MP) and low pollution (LP). In general, S3, S5 stations with high pollution, S2, S4 stations with medium pollution and S1 station with low pollutions are classified in the water of Aras River.

### KEYWORDS

Aras; Distribution; Heavy; Iran; Metals; River; Water

### Cite this paper

F. Nasehi, A. Hassani, M. Monavvari, A. Karbassi, N. Khorasani and A. Imani, "Heavy Metal Distributions in Water of the Aras River, Ardabil, Iran," *Journal of Water Resource and Protection*, Vol. 4 No. 2, 2012, pp. 73-78. doi: 10.4236/jwarp.2012.42009.

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