

Journal of Environmental Hydrology

ISSN 1058-3912

Electronic journal of the International Association for Environmental Hydrology

On the World Wide Web at <http://www.hydroweb.com>

JEH Volume 9 (2001), Paper 16, November 2001

Posted November 8, 2001

MULTIVARIATE ANALYSIS FOR IDENTIFYING THE GOVERNING FACTORS OF GROUNDWATER QUALITY

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ABSTRACT

The R-mode factor analysis technique has been successfully applied to understand the processes responsible for the decline of groundwater quality in Guntur urban area, Andhra Pradesh, India. Factor I is dominated by TDS, Na, Cl, SO₄ and K, factor II by pH and CO₃, and factor III by NO₃ variables. They measure salinity, hardness, alkalinity and pollution, and are interpreted as representing the role of climate, water-rock interaction, land use and anthropogenic sources.

*Reference: Subba Rao, N., J. Prakasa Rao, D. John Devadas, K. Srinivasa Rao, and C Krishna; **Multivariate Analysis for Identifying the Governing Factors of Groundwater Quality**, Journal of Environmental Hydrology, Vol. 9, Paper 16, November 2001.*

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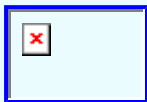
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