Water Quality Index for the Groundwater around Amalner Town of Jalgaon District, Maharashtra (India)

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Ground water samples were collected from six different sites around Amalner town and analyzed during winter and summer season (November 2007 to June 2008). The results were compared with water quality standards prescribed by WHO and ISI 10500-91. To determine suitability of groundwater for drinking purpose, Water Quality Index (WQI) was computed. For calculating WQI, the parameters selected were pH, Electrical conductivity, Total disolved solids, Dissolved oxygen, Total alkalinity, Total hardness, Calcium, Magnesium, Sodium, Chloride, Sulphate, and Nitrate.The results reveals that, high values of WQI were found mainly due to high values of EC, TDS, TA, TH in ground water.

Key Words: Ground water, Physico-Chemical parameter, Water Quality Index.