

ASSESSMENT OF GROUNDWATER QUALITY IN AND AROUND BIDADI INDUSTRIAL AREA, RAMANAGAR DISTRICT, KARNATAKA

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ABSTRACT

The water quality index (WQI) is a single number that expresses the quality of water by integrating the water quality variables. The purpose is to provide a simple and concise method for expressing the water quality for different usage. The present work deals with the monitoring of variation of seasonal ground water quality index of ground water for Bidadi industrial area in Bangalore, Karnataka state of India. For calculating the WQI the following 13 physico-chemical parameters such as pH, Electric Conductivity, Total Dissolved Solids, Total Alkalinity, Chlorides, Total Hardness, Dissolved Oxygen, Fluoride, Iron, Calcium, Magnesium, Sulphate and Nitrate have been considered. The water quality index value of ground water was 113.9. In the present investigation the quality of water was found to be poor in and around Bidadi industrial area.

KEYWORDS: Ground Water, Physico-Chemical Parameters, Water Quality Index, Water Quality Standards