

عنوان مقاله:

Assesment of Groundwater Samples from Sa'adatu Rimi College of Education, Kumbotso, Kano

محل انتشار:

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خلاصه مقاله:

Human activities are a major factor determining the quality of surface and groundwater through atmospheric pollution, effluent discharges, use of agricultural chemicals, eroded soil and land use. The purpose of this research was to determine the physicochemical parameters of water samples collected from Sa'adatu Rimi College of Education, Kumbotso Kano and to compare with the standards given by World Health Organization (WHO) and Nigeria Standard for Drinking Water Quality (NSDWQ). Four samples were collected from different locations within the college premises for the analysis. The analyzed parameters are pH, temperature, Total dissolved solids, Total suspended solids, Suspended solid, Electrical conductivity, Alkalinity, Mg^{2+} , Ca^{2+} , ammonia, sulphate, Nitrate, Nitrite, Turbidity, Salinity, Total hardness, free carbon dioxide, Iron and Chloride. The results indicated that all the analyzed parameters are within the permissible limits recommended by WHO and NSDWQ with exception of turbidity level at A sampling station, pH concentration at B, C, and D sampling point and nitrite concentrations at C and D sampling point. The results also showed that, the concentration of total hardness were slightly above the maximum permissible limit (MPL) recommended by NSDWQ. This paper also recommended that, the college management should provide a basis for the regular monitoring of water quality status.

کلمات کلیدی:

Alkalinity, Ammonia, Groundwater, Physicochemical, Sa'adatu Rimi, Water analysis

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