

## عنوان مقاله:

Physicochemical, Spectroscopic, and Bacteriological Analyses of Borehole Waters in Selected Areas of Makurdi-Nigeria Service Unavailable

محل انتشار: فصلنامه روشهای تصفیه محیط, دوره 11, شماره 2 (سال: 1402)

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## خلاصه مقاله:

Physicochemical, spectroscopic, and bacteriological analyses were carried out to determine the quality of borehole waters in selected areas of the Makurdi metropolis. UV/Visible spectrophotometric methods of analysis were used for most determination. The results revealed that the physicochemical parameters are within the recommended national and international standards except for values of total hardness for the Brewery Area, Judge's Quarters, and Old GRA. The total coliform values range from  $\lambda - \lambda \gamma cfu/\lambda \cdot ml$  with borehole location C° in the Benue State University area having the highest cfu/ $\lambda \cdot ml$ . The bacterial isolates E. coli and S. typhi. The borehole waters are thus suitable for human and other consumption purposes.Physicochemical, spectroscopic, and bacteriological analyses were carried out to determine the quality of borehole waters in selected areas of the Makurdi metropolis. UV/Visible spectrophotometric methods of analysis were used for most determination. The results revealed that the physicochemical parameters are within the recommended national and international standards except for values of total hardness for the Brewery Area, Judge's Quarters, and Old GRA. The total coliform values range from  $\lambda - \lambda \gamma cfu/\lambda \cdot ml$  to determine the quality of borehole waters in selected areas of the Makurdi metropolis. UV/Visible spectrophotometric methods of analysis were used for most determination. The results revealed that the physicochemical parameters are within the recommended national and international standards except for values of total hardness for the Brewery Area, Judge's Quarters, and Old GRA. The total coliform values range from  $\lambda - \lambda \gamma cfu/\lambda \cdot ml$  with borehole location C° in the Benue State University area having the highest cfu/ $\lambda \cdot ml$ . The bacterial isolates .E. coli and S. typhi. The borehole waters are thus suitable for human and other consumption purposes. Be. Coli and S. typhi. The borehole waters are thus suitable for human and other consumption purposes.

كلمات كليدى:

Water, Heavy metals, nutrients, physicochemical, bacteriological, Spectroscopic

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