

A Generalized Exponential Model for Determining Water Quality Index (WQI) for the Classification of the Aba River, Abia State-Nigeria.

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A generalized exponential model for computing water quality index (WQI) is proposed and used for the evaluation of the water quality of the Aba River, Nigeria for various beneficial uses (swimming/bathing, Agriculture, Public water supply, Fish culture etc.) at both dry and wet seasons for upstream and down stream stations. Standards for pollution control and water quality management have been prescribed in terms of the water quality index. The model however mostly classifies the water at a satisfactory level for some of the beneficial uses considered.