



Multiple Criteria Assessment of Water Quality Monitoring System in Karoon River

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Abstract: Karoon River is not only one of the longest rivers in Iran but also the most prolific in terms of water discharge. Keeping in view the many industrial and agricultural centres as well as the large cities in its catchment area, the river is certainly of strategic and economic importance in the West and South West of Iran. Hence, establishment of an indefectible water quality monitoring network is a national requirement. The present work aims to study the existing water quality monitoring system of the river and assessing location priority and the number of stations due to consumption types using *Multiple Criteria Decision Making*, MCDM. By the proposed method, the stations among the network are ranked in accordance with their importance to identify critical stations for the water quality analysis. It provides a basis for changing and/or reducing the number of existing water quality stations in the monitoring system of the river.

Keywords: *water quality, Karoon River, MCDM, SAW*

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