

**HYDROGEOLOGICAL AND HYDROCHEMICAL STUDY
OF KIRKUK GOVERNORATE, NORTHERN IRAQ**
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ABSTRACT

The Ground water, in the study area is found within two main hydrogeological basins, affected by structural conditions such as folds and faults. The first basin is within Bai Hassan and Mukdadiya formations, it is located northeast of Baba Dom, which extends from northwest to southeast, whereas the second basin is within Quaternary sediments and Bai Hassan Formation, it is located southwest of Baba Dom.

The ground water of the first basin is suitable for all uses; it is of carbonate group and family Ca – bi-Carbonate, whereas the groundwater of the second basin is not suitable for human uses, but suitable for other uses, except in some regions, it is of sulphate group and family Ca – Sulphate. Water origin in both aquifers is mainly meteoric.