

Assessing Water Quality Using GIS: The Case of Northern Lebanon Miocene Aquifer

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Abstract : This research focuses on assessing the ground water quality of Northern Lebanon affected by saline water intrusion. The chemical, physical and microbiological parameters were collected in various seasons spanning over the period of two years. Results were assessed using Geographic Information System (GIS) due to its visual capabilities in presenting the pollution extent in the studied region. Future projections of the excessive pumping were also simulated using GIS in order to assess the extent of the problem of saline intrusion in the near future.

Keywords : GIS, saline water, quality control, drinkable water quality standards, pumping

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