

عنوان مقاله:

Groundwater vulnerability Assessment in Kermanshah Province, Iran

محل انتشار:

نخستین کنفرانس پژوهشهای کاربردی منابع آب ایران (سال: 1389)

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خلاصه مقاله:

Pattern of distribution of various point source pollutions and available information on water quality have been used in Kermanshah Province in western Iran in order to provide a groundwater vulnerability assessment to existing aquifers in this area. This evaluation aimed to describe the intrinsic vulnerability of the aquifer and examine the potential risks originating from local land use practices. The results indicated a relatively high risk of groundwater pollution of the aquifers resulting from point source pollutions. Moreover, water quality data available on groundwater have been used to validate the vulnerability and risk estimations. Recommendations are provided for development of a system of remedial measures based on a thorough understanding of the geologic and hydrogeologic setting with the help of aerial photography and satellite imagery interpretations. It has also suggested to establish a new monitoring stations or enhance the present facilities along surface water and groundwater resources to periodically analyze water samples to delineate the vertical and lateral extent of migration of pollutants.

کلمات کلیدی:

Ground water; Wastewater; Karst aquifer

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