

عنوان مقاله:

Monitoring of Heavy Metal Concentration in Groundwater of Qorveh County, Kurdistan Province, Iran

محل انتشار:

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خلاصه مقاله:

Background & Aims of the Study: Nowadays, the quality of water is a very important concern. High levels of heavy metals in drinking water may cause some health problems such as cancer. The aim of this study is determination of some heavy metal concentrations in groundwater of some parts of Qorveh county, Kurdistan, Iran. **Materials & Methods:** In this study 25 water samples were analyzed, using Inductively Coupled Plasma for determining the concentrations of iron, chromium, copper and zinc. As a case study, the groundwater contamination in some parts of Qorveh county, Kurdistan, Iran, was investigated and compared to the maximum contaminant level specified by the World Health Organization (WHO) and Iranian Standard Institute (IS: 1053), using ANOVA test. **Results:** Obtained results showed that in some cases the concentration of heavy metals were above WHO and IS: 1053. **Conclusions:** Heavy metals contamination can enter the food chain and cause various health problems. Thus, according to the obtained results, it is necessary to launch water management programs in the study area.

کلمات کلیدی:

Heavy Metals, Kurdistan, Groundwater, Monitoring, Iran

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