

## **WATER QUALITY IMPROVEMENT USING IONEXCHANGE PROCESS**

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### **ABSTRACT**

The present research was initiated with the aim to provide data on the possibility of improvement of the groundwater quality of the greater area of waste disposal sites by the use of ionexchange systems for the removal of heavy metals. For the development and the implementation of the method, natural zeolite (clinoptilolite) was used. The influence of the following parameters on the metal removal (Cd, Cr, Cu, Fe, Ni, Pb, Zn) were examined: the pre-treatment process and the contact time. The experimental results showed that the optimum contact time is 24 hrs.