

عنوان مقاله:

Evaluation of reusing treated wastewater of Islamic Azad University, Roudehen Branch for the irrigation of green fields in this area

محل انتشار:

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نویسندگان:

M Farahani - Faculty Members of Islamic Azad University of Roudehen Branch

M Macki Aleagha - Faculty Members of Islamic Azad University of Roudehen Branch

خلاصه مقاله:

To consider the problem of water storage in Iran, wastewater reuse is one of the most important successful strategies to overcome this problem. Treated wastewater is a valuable resource for agriculture and irrigation, which however without a properly developed the planning framework policy, safety and efficient management of this resource can not be achieved. Therefore, the planning and managing of agricultural reuse projects need to consider institutional and legal, socio-economic, financial, environmental, technical and psychological aspects. This study carried out to evaluate the suitability of using the effluent wastewater of the Islamic Azad University of Roudehen for irrigation of the green fields of this area. We have determined the values of : pH, CO₃, EC, DO, BOD, COD, Ca, Mg, Cl, HCO₃, Na, K, TS, TSS, PO₄, P, NO₂, NO₃, NH₃, NH₄, NH₃-N, and MPN in 30 samples of raw and effluence wastewater during 3 months. The average of these parameters compared with effluent standards published by the environmental protection department of Iran. The results showed that, the quality of this effluent is considered suitable for irrigation of green fields expect for MPN and TSS which are decrease by increasing the chlorination and filtration methods respectively. The important parameters of water quality such as EC, SAR, Na% in the effluent were 1731 $\mu\text{s/cm}$, 5.2, .49.2 respectively and the quality of this effluent is classified as acceptable for plant resistant to salinity

کلمات کلیدی:

Reuse, Irrigation, Municipal Wastewater, Agriculture

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