

عنوان مقاله:

Wastewater management and environmental monitoring in a Karmozd coal washery effluents

محل انتشار:

اولین کنفرانس بین المللی تصفیه فاضلاب و بازیافت آب، فناوری ها و یافته های نو (سال: 1388)

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خلاصه مقاله:

The discharge of coal washery wastewater causes serious pollution problems to surface water and groundwater. Effluent from coal mine increase the load of TSS, TDS and COD values of river water as well as blanketing effect of coal slurry particles on the bed of the river are appeared. An investigation was made to determine characteristics of coal washery effluents and also to evaluate the dispersion of pollutants in the river. The samples were collected at three points and analyzed for chemical oxygen demand (COD) and total suspended solids (TSS) in discharge point of the coal washery and in the wastewater's discharge from 100 to 2500 meter of distances. The analysis shows the high percentage of COD and TSS in the Karmozd coal washery effluents and in the Talar River. Different coagulant was used for the removal of TSS and COD reduction from the coal washery effluents at settling rate of 30 and 60 min and polymer was found to be very effective. A Cost Benefit Analysis between coagulants showed that the polymer was cheaper than other coagulants. At last wastewater management strategies was suggested for helping the pollution control.

کلمات کلیدی:

Water Pollution, Coagulant, Coal Washery, TSS, COD, Iran

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