



STUDIES REGARDING THE PERFORMANCES OF MUNICIPAL WASTEWATER TREATMENT PROCESSES

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Abstract

The paper presents new studies on the removal efficiencies related to the quality specific indicators of municipal wastewater treatment plant. Studies were performed on a modern wastewater treatment plant in Romania, located on the Black Sea coast, which processes about 3200 L·s⁻¹ of effluent from Constanta city, including sewage (60%) and industrial wastewater (food industry and processing, constructions, petroleum products distribution etc.). The dynamics of average removal efficiencies for total suspended solids (TSS), total extractable in ether petroleum (EP), COD_{Cr} and BOD₅ in 2003 and 2005 are shown. Overall determined efficiencies were: TSS 50 - 86%, EP 37 - 79%, COD_{Cr} 53 - 87% and BOD₅ 53 - 89%. Improved performances in 2005 comparing with 2003 can be noticed.

Keywords: municipal wastewater, COD, BOD, TSS, EP, treatment removal efficiencies

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