



WASTEWATER TREATMENT PLANT- COMMON FILTRATION AND FLOTATION UNIT - DESIGN ASPECTS

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Abstract

Operation of one unit treatment basin (common basin) in large wastewater treatment plants has demonstrated that could ensure the simultaneous sediment removal and separation of fats from wastewaters. This fact represents an advantage that leads to high economical and technological benefits. However, in designing activity, the actual standards do not offer design relationships to establish the difference of heights between the two immiscible liquids levels at discharging basin, in order to control the quality of the process. To cover this lack, the authors have established design relationships that can be applied for the primary wastewater treatment, which have in composition fat /extractable substances with variable density in time.

Keywords: wastewater treatment, gravel filter, sand clearing basin, fat collector

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