Pollution parameters and performance indicators of the WWTP of Medea (Algeria)

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Description

Despite the magnitude of the repercussions generated by the wastewater on the degradation of the Environmental medium, on the water shortage and consequently on public health, in Algeria, little importance is given to sanitation compared with the supply of drinking water services. These sanitation problems remain a major concern and require an supported significant by taking appropriate measures, in perspective to safeguarding and respecting the environment. From the collection to treatment, This wastewater route deserves to be diagnosed in order to control the sanitation system and optimize its facies, by prospecting and research performance indicators, that identify gaps and propose technical solutions for better wastewater management. The aim of this work is to study the performance indicators in the sanitation system in order to result in recommendations for improvement of the existing, whether at the level of the sewerage network and / or at the treatment plant. This study touches: the hydraulic load and stormwater, the eclectic energy consumed during the removal of all polluting loads well as the study of ratios and correlations existing between different measured parameters. For this we initially studied the hydraulic load that exceeds the nominal capacity of the treatment plant Medea (26000 m3 / day), and then identified the physicochemical parameters most significant in terms of impact on the receiving environment by analyzing 10 physicochemical variables (Temperature, pH, electrical conductivity, TKN, NO3, NH4+, PO4-, COD, BOD5, TSS) for wastewater from the city of Medea. Then arriving at the evaluation of the