

## Contribution à l'analyse physico-chimique des eaux de ruissellement urbaines

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### ABSTRACT/RESUME

*Abstract: Stormwaters are produced by the streaming of rain water on pervious surfaces even on the impervious surfaces but saturated by a pluviometry with great width. Pollution is mobilized by rain during its fall. It comes from emissions of various sources: industry, heating and exhaust of the internal combustion engines of motor vehicles. Stormwaters are recognised as substantial source of pollutants for receiving aquatic environments. For that various samples were collected on several sites in order to evaluate the concentration in pollutants contained in this water. The increase in concentration of pollutants depends by many factors: intensity of rain, importance of streaming, nature of material surface, nature of activities on or near surface. The characterisation related to the analysis of physico-chemical parameters such as pH, conductivity, COD, BOD, TSS, toxic metals and ions orthophosphates, sulphates, nitrates, nitrites, ammonium, potassium, calcium, magnesium and sodium. The descriptive analysis of physico-chemical parameters showed that water presents very high concentrations in nitrites and metals exceed standard of potability. Statistical analysis of data allowed us to note that a significant correlation existed between certain parameters and also to identify the distribution of mineralization of stormwater. The analyses were carried out by UV-visible spectrophotometry, flame spectrophotometry and atomic adsorption.*