

Statistical analysis of the water pollution indicators pertaining to treated municipal sewage introduced to the river

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Abstract. The assessment of the rate of self-purification processes in the natural environment, including the water bodies of streams and rivers is possible by the means of the numerical modelling. Nonetheless, the reliability of results of the qualitative numerical calculations may be affected by the quality of the collected input data and efficiency of the model calibration. The commonly required input data include pollutants characteristics and coefficients for empirical equations of their transport and decay, while calibration of a model requires series of measurements of selected pollutants concentration in water. This paper presents studies of concentration of pollutants measured in the treated sanitary wastewater discharged to the Bystrzyca river from municipal wastewater treatment plant, and their concentrations measured directly in the river, above and below the location of discharge point. The performed qualitative measurements of treated sewage discharged from municipal wastewater treatment plant and water of the Bystrzyca river included determination of COD, BOD₅, N-NH₄, N-NO₃, N-NNO₃, TKN, TN, TP and TSS concentration. The presented results of measurements are the first step in development and calibration of the model, allowing to successfully predict the influence of discharged sanitary wastewater on quality of water in the river.

1 Introduction

Discharging wastes – both solid and liquid – to waters was a very convenient solution. Wastewater discharged to rivers via gutters were diluted and underwent self-cleaning, while the river, in certain distance downstream from the waste discharge site, regained its quality. However, at present it is not possible, because, e.g. due to the industrial development, new chemical compounds are being synthesised, which enter the water cycle in the natural environment and may have a negative influence on it as well as on the human health [1-2]. Therefore, due to constantly deteriorating quality of available water resources, only the treated wastewater which meets the requirements stated in valid legal regulations can be discharged to running waters, i.e. rivers [1-4].

Monitoring of receiver's water quality enables to determine the influence of introducing treated wastewater to the environment, as well as the efficiency of self-cleaning process. Due to the fact that rivers may transport pollutants over great distances, control and running water quality assessment, as well as taking the actions aimed at improving their quality, are important. Even a highly-treated medium may carry significant amounts of biogenic and mineral compounds, which may cause unfavourable processes, i.e. eutrophication or increase in water salinity. The treated wastewater, in the case of treatment plant failure, may release, i.e. heavy metals, persistent organic

pollutants, potential carcinogens, as well as bacteria, viruses and parasites into the receiver [5-6]. As a result, numerous publications appeared in recent years, aimed at developing the river condition assessment systems [3, 7-16].

The quality of running waters has been evaluated for a long time on the basis of physicochemical analyses. The main parameters determining the quality of wastewater and receiver waters include BOD₅ (5-day Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), pH, TSS_{tot} (Total Suspended Solids), as well as the content of nitrogen and phosphorus compounds [5-8]. It is also known that a complete assessment of river condition is possible only after introducing the aspects of biological assessment [8-10]; similarly, as in the case of the treated wastewater quality assessment and wastewater treatment plant efficiency.

At present, there are numerous methods for evaluating the condition of river environment, ranging from the organoleptic evaluation of water quality, to highly precise physicochemical methods and biotesting. However, as far as the quality assessment of aquatic ecosystems is concerned, the environmental indices systems are increasingly preferred. They enable to evaluate the quality of aquatic environment as a habitat for organisms – various species of protozoa are commonly used for this purpose [8, 12-16].

Obviously, the best results of river condition control can be achieved by simultaneously applying all three

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