Abstract

Five indicators of water quality, namely biochemical oxygen consumption in five days, chemical oxygen consumption by dichromate method, nitrate nitrogen, ammonium nitrogen and total phosphorus, were determined in the river Stropnice. The samples were monitored at four offtake places along the river monthly during the year 2013. Twice a year water samples were analyzed also fromthe dischargeof the wastewater treatment plants. The results show that some changes of the individual parameters can be traced during the year, such as increase of oxygen consumption and total phosphorus in the summer months. However, no significant fluctuation was indicated for the measured parameters at any of the offtake places. Based on the values of the individual parameters water in Stropnice can be ranked to quality classes II. – IV.

In the long-term frame of water quality examination from the year 2008 average indicators´ values and characteristic values were determined. The results revealed that neither in this case substantial changes of water quality regarding the measured indicators can be observed.