



## **Hydro-chemical profile of the chosen water quality indicators in upper part of Zagożdżonka river, Poland**

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Hydro-chemical profile is a presentation of the changeability of water quality indicators along the river, based on field measurements. Usually, it is made as a chart of particular water quality indicator with the average low flow at the vertical axis and length of the river at the horizontal axis. Additionally, every important source of pollution like cities and tributaries are put on the chart. Such graphic presentation helps to identify the hot spots along the river. Based on two years of investigation at 10 cross-sections, the hydro-chemical profiles of phosphorus and nitrogen forms have been drawn. The seasonal and spatial changeability of nutrients has been recognized and the hot spot of nutrient pollution has been determined.