

## Water quality characteristics along the course of the Danube River. II. The Harsova area.

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**Abstract.** Environmental water dissolves a wide variety of minerals, nutrients, and other substances from soils, rocks, and atmosphere, carrying them into solution. Human activities also can change the composition of surface waters. In order to analyze the water quality for Danube River, there have been determinate the quality parameters such as hardness, chloride, ammonium, fluoride and metallic ions (total iron, copper, chromium, manganese and zinc), pH, nitrate nitrogen, nitrite nitrogen, ammonia nitrogen, chemical and biochemical oxygen demand. The analyzed samples of surface water were collected from Danube River at different locations of Harsova area, along 2007 year. The obtained concentrations of trace metals are low and do not show any evidence of contamination, except for copper. Concentrations of nitrogen nitrate and nitrogen nitrite assigned the Danube water to 3<sup>rd</sup> and 4<sup>th</sup> class of quality, but the COD and BOD values assigned the water in first class of quality.

*Keywords:* Danube River, Harsova, water quality, pH, hardness, chloride, fluoride, metallic ions, nutrients, COD, BOD.

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