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Estimation of water quality the river Tom and regional problems of water use (for example of the town Tomsk)

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Chemical composition of natural waters indicates the corresponding conditions of the environment and characterizes a geochemical situation. The upper reaches of the Tom aren't touched by economic activity but on the other hand it is influenced by chemical, metallurgy, mineral resource industry of the Kuzbass. This influence leads to a complex change of ionic and saline composition of the water. Deterioration of the water quality of the Tom River at the end of 80s - at the beginning of 90s was the cause of giving up using the river water for potable purposes and the decrease of water intake and use in Tomsk. Today, the city, population of which is half a million, uses groundwater for potable and industrial purposes. A long period exploitation of Tomsk underwater inlet (more than 30 years) caused degradation of underwater quality and appearance extensive field of depression. We show the necessity of a combined use of underwater and river water, measures for improvement of river water quality and preservation of a unique groundwater deposit.