

Water conductivity of the old and new tunnels at the river Vere until the catastrophe of June 13, 2015 and after

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While conducting the engineering works at a river, in particular at the time of construction of any hydraulic structure, the important hydrological element is awareness of a flow of as liquid as solid deposits of a river. The speech presented by me refers to water conductivity of the tunnels at the river Vere and the bridge constructed instead of a tunnel. It is accepted according to the calculations of 2010 that water conductivity of the old tunnel of Vake-Saburtalo and the output section of new 220 meters long tunnel accordingly equals to 460m³/s and 410m³/s maximum water outlay.

Water conductivity of the mentioned two tunnels, two tunnels at the new road and the new bridge built instead of one tunnel has been recalculated after the catastrophic flooding of June 4 and June 13, 2015. After the catastrophic flooding of June 4 and June 13, 2015, the high volume of the significant part of the bed has been washed and in the result of calculations the following parameters have been shaped: the input section of Vake-Saburtalo tunnel – 540, its new prolonging tunnel – 430, underroad tunnel of Bakhtrioni – 624, the new water conductive bridge - 1475 and the river input tunnel to a zoo - - 474 m³/s maximum outlays.