

Experimental Support for the District Metered Areas/Pressure Management Areas Application

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Abstract : The purpose of the paper is to present and verify a methodology of decreasing water losses by introducing and managing District Metered Areas (DMA) and Pressure Management Areas (PMA) by analyzing the results of the application of the methodology to the water supply system of the city of Zagreb. Since it is a relatively large system that has been expanding rapidly, approach to addressing water losses was possible only by splitting the system to smaller flow and pressure zones. Besides, the geographical and technical limitations had imposed the necessity of high pressure in the system that needed to be reduced to the technically optimal level. Results of activities were monitored on a general and local level by establishing, monitoring, and controlling indicators that had been established by the International Water Association (IWA), among which the most recognizable were non-revenue water, water losses and real losses as presented in the paper.

Keywords : district metered area, pressure metered area, active leakage control, water losses

Conference Title : ICWES 2020 : International Conference on Water and Environmental Sciences

Conference Location : Moscow, Russia

Conference Dates : August 27-28, 2020