Fresh Groundwater Resources in Georgia and Management Problems

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Fresh water represents conditioned factor for human body’s life. That’s why the superiority of drinking water is recognized as human body’s priority according to the international declarations. World is experiencing deficit of quality water. Natural Disasters caused by the pollution of the fresh groundwater is also very painful and acute, because it needed more time, more material and financial means for the liquidation of their results, and what the most important practically is, it is impossible to renew the initial natural conditions completely. All these conditions that the rational use of fresh groundwater passed by the interests of separate countries and became worldwide, international problem - fresh water became as considerable raw material for the worlds import and export. The fresh groundwater place the important role among the water recourses of Georgia. Their existing is considerably connected to the development of industry and agriculture, also with water supply issue of populated area. Groundwater management requires precise knowledge of sources (aquifers). Monitoring of Georgia’s most important aquifers started many years ago and has provided large amount of data. This was interrupted at the beginning of the 1990s. It could be noted that fresh water existing in the country is distinguished with high quality. According to the mineralization and temperature parameters groundwater is generally divided into the following groups: 1) Fresh drinking waters (mineralization not exceeding 1.0 g/l); 2) Mineral waters (mineralization over 1.0 g/l); 3) Thermal waters—healing (20°C - 35°C), Geothermal (40°C - 108°C). Below we present briefly review about the situation of fresh groundwater resources, started recovery of groundwater monitoring network and the analysis of the management problems.