

**Jachimko, B. Water Supply System in Zielona Gora (Poland) Reconstruction Concept. *Ochrona Srodowiska* 2013, Vol. 35, No. 4, pp. 29–32.**

**Abstract:** The main disadvantages of current water supply system in Zielona Gora include low degree of groundwater exploitation, improper distribution of individual water types among individual consumers and costly multistage pumping system. The target model of Zielona Gora water supply assumes building of the two new intake sites and a treatment plant in the southern part of the town as well as extension of groundwater supplied area. The analysis completed leads to conclusion that eliminating surface water contribution to Zielona Gora water supply system is not feasible. However, the proposed model allows increasing the contribution of groundwater to the water supply system. The following guidelines regarding existing objects reconstruction were developed based on the performed analysis: surface water intake site shall remain (prognostic efficiency of  $400 \text{ m}^3/\text{h}$ ), water treatment plant in Zawada shall continue to treat mixed waters (surface and groundwater) according to prognosis of  $1000 \text{ m}^3/\text{h}$ , and the pumping system at Sulechowska street should insure future efficiency of  $1000 \text{ m}^3/\text{h}$ .

**Keywords:** Water intake, groundwater, water treatment.