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Water Capacity and Quality of Deep Wells at the Company Laberion (Dona & Exs) in Podujeve

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Abstract:The study aims at researching the water capacity of the deep wells (Φ 200mm and Φ 110mm) for the supply of the factory "Laberion" for porduction and packaging of natural juices "Dona" and "Eks" in Podujevo. Under the study the research on groundwater deposits has taken place, alluvial deposits and water capacity needed from the well (Φ 200mmm and Φ 120mm) in accordance to capacities provided for each unit of the factory. For determining the inflow (experimental/exploiting debit) of the deep wells (Φ 200mmm and Φ 120mm) probation tests have been undertaken.The testing of pilot pumping was undertaken with a duration of 72 hours. During testing period three different water level drops were achieved. For each level drop the constant water level could be maintained for 8 hours. During testing of the well, in certain time periods, in accordance to the droping level of the water the level of the well was also controlled. In addition to this, in different time periods the capacity of immersed pump with its maximum capacity of 16lit/s was also measured. The immersed pump was sumberged in a depth of 16m for the first well and 25m for the second well.Based on the results of the well tests, physico-chemical and microbiological analyzes of the factory "Laberion" with its units in Podujevo it can be concluded that this factory will have sufficient water to cover own needs. By comparison of different parameters of physico-chemical analysis it can be concluded that measured parameters do not excees the allowed limits of related parameters, the values are substantially lower or not present at all.

***Key words**: water capacity, physic-chemical analyzes, determination of flows*

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