

Summary

Main objective of the diploma thesis was to observe the concentrations of selected types of drugs in the environment around the area of the village Horní Beřkovice. This goal was achieved by monitoring of the drugs concentration in surface and ground waters at Horní Beřkovice site. Monitoring system allowed to detect the passage of pollution from the source of the contamination, through sewage treatment plant, the unsaturated zone and aquifer to a potential user of contaminated groundwater. The diploma thesis is based on the field data from TACR project. I have analyzed data from the six samplings at the area of the village Horní Beřkovice with regard to the observed drugs or their residues in surface and ground waters. I have compared the results with data from the sewage treatment plants in the river basin of Želivka.

Keywords: ground water, surface water, sewage treatment plant, drugs, contamination