

## Filtration Processes on the Territory of the Sioni Reservoir and the Adjacent Territory

*Guram Kutelia, Nargiza Abutidze, Nona Lursmanashvili, Elene Goderdzishvili*

E-mail: [guram.kutelia@tsu.ge](mailto:guram.kutelia@tsu.ge)

Department of Geology, Faculty of Exact and Natural Sciences,  
Ivane Javakhishvili Tbilisi State University,  
3, I. Chavchavadze ave., Tbilisi, 0179, Georgia

The aim of the study was to study the filtration processes on the dam of the Sioni Reservoir and the adjacent territory, using geophysical methods of exploration, in particular, methods of electrical exploration.

The calm distribution of the natural electric field on the territory of both banks of the Sioni reservoir indicates that during the period of the minimum water level, water filtration is practically not observed. As for the anomalies of the electric field on the right bank of the reservoir, it should be caused by bypass filtration, that is, by filtrates of the old channel of the Iori River.