

Development and Prospects of the Borjomi Mineral Water Deposit

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The paper presents the history of the formation of the Borjomi mineral water deposit, its hydrogeological characteristics, and contemporary development prospects. The general physical-geographical and geological features of the Borjomi region are discussed, with particular emphasis on the hydrogeological environment, recharge systems, and mineralization processes.

The study reviews the history of the deposit's discovery and its step-by-step development, including the dynamics of exploitation and the main approaches to the assessment of water resources. The genesis, chemical composition, and formation mechanisms of Borjomi mineral waters are described, which are associated with regional geodynamic and hydrothermal processes.

The concluding section evaluates the future development prospects of the deposit, the possibilities for its sustainable use, and the importance of sanitary protection zones for ensuring the long-term preservation of mineral water quality and resources. The paper provides a comprehensive analysis of the Borjomi mineral water deposit and emphasizes the necessity of its rational management.