

## **FRESH UNDERGROUND WATER MONITORING IN THE OIL PRODUCING REGION OF THE REPUBLIC OF TATARSTAN, RUSSIA**

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Oil exploitation in the Tatarstan Republic resulted in substantial ecological damage not only to atmosphere air, soil, lithosphere, but also to surface and underground waters that are important for both drinking and industrial purposes. Nowadays, regional strategy of TatNeft Petroleum Co. includes drinking water preservation and a search for new water sources as first-rate problems which are only possible to solve by acquiring up-to-date information about water microelement composition, i.e. water monitoring.

Since 1993, Exploration Dept. of TatNeft Co. has been conducting water monitoring in the territory of Tatarstan Republic in the form of: 1) survey network setting, field sampling; 2) generalization and analysis of hydrochemical survey, studying and reviewing available geological and hydrogeological data from the area, analysing the known pollution sources and how they influence underground and surface water; 3) elaboration of a methodical basis for the water monitoring, and development of the HydroMonitoring Data Processing System.