

CONTAMINATION OF THE WATER AND SEDIMENT LOAD FROM THE DRAINAGE BASIN OF THE SLANÁ RIVER BY INFLUENCE OF FORMER AND PRESENT MINING ACTIVITIES

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ABSTRACT

The paper contains information on occurrence and content of selected elements, mostly heavy metals, in samples of waters and sediment load procured from localities with former mining and subsequent treatment and metallurgic activity. Samples were procured from spots of mining water outflows from abandoned shafts or tunnels and outflows from active and old mining sludge basins including selected profiles on streams in the reservoirs of waterworks (WW), in drainage basin of Slaná River. The chemical composition of waters and sediment load in 2 WW reservoirs of drainage basin Slaná River is markedly influenced by water from near-by drainage basin of Hnilec River. Sampling was carried out within projects that focused to study of the treatment of bottom sediments of watercourses in areas with current and finished mining activity and observation of current state of sediment load in chosen places of sampling.

Key words: reservoir of waterworks, mining water, sediment load, sludge basin and heavy metals