

**PRELIMINARY RESULTS OF PASSIVE TREATMENT OF MINE WATERS
FROM ABANDONED SB DEPOSIT POPROČ**

**PREDBEŽNÉ VÝSLEDKY PASÍVNEHO ČISTENIA BANSKÝCH VÔD
NA OPUSTENOM SB LOŽISKU POPROČ**

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Abstract:

Abandoned Sb deposit Poproč is evaluated as an environmental load with recommendation of detail research, risk analyses and remediation. Natural waters from locality Poproč are contaminated by drainage waters from Ágnes adit and tailing impoundment. Locality Poproč was selected as a model locality for realization of pilot passive remediation of mine waters on the base of previous field and experimental works. Different kinds of passive treatment technologies will be use there – application of Fe materials, usage of controlled precipitation of secondary minerals of Sb, application of microfungi and biomass for bioaccumulation of contaminants. In this article are presented results obtained during the first phases of realization of research project APVV-0344-11.

Keywords:

Antimony, remediation, mine waters, Poproč