

Analysis and assessment of the hydro-technical variants for the catchment and prevention of ground water inflow in the tailings pond (IAA) Trünzig of the Wismut Ltd.

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Project target: Analysing the reasons for the inflow of ground water in the tailings pond (IAA) Trünzig B and the derivation of technical measures for reducing the influences, and further with the aim of a long-term stabilisation possibility for safe guarding of the industrial tailings pond (IAA)

Location: Seelingstädt, Thuringia

Client: Wismut GmbH

Beneficiary: Wismut GmbH

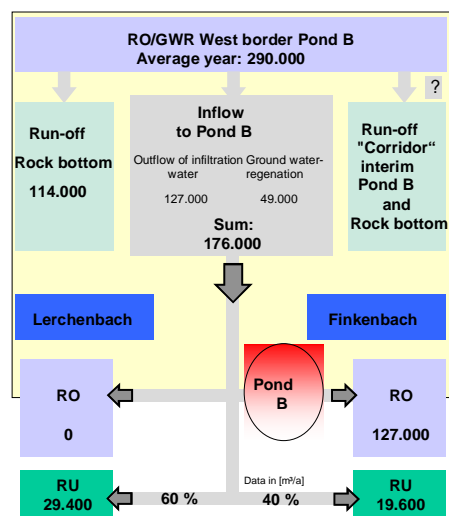
Period: 1998 - 1999

Budget: 50,000 €

Initial situation:



On the surface of the tailings pond Trünzig B a large amount of water gathers whose origin is uncertain and must be reduced and contained in order to allow the consolidation of the slime/sludge in the pond and the subsequent surface cover.



Main tasks:

- Investigation of the present water inflow and the hydrogeological situation in the catchment area.
- Establishment of a hydrogeological and hydrological model and a water balance.
- Identification of technical possibilities for the reduction of in streaming water.
- Assessment of the impacts of the technical measures on the environment and the remediation progress.
- Design planning of the precedence solution.