

Floating bleaching earth/acid sludge depositions

## Sluicing Dump Residual Opencast Mining Pit Cecilie

### Project name:

Detailed investigation including rehabilitation conception for the sluicing dump Cecilie in preparation of the flooding of the opencast mines in the Geiseltal

### Country:

Germany, Saxony-Anhalt

### Project Location:

Residual opencast mining pit  
Geiseltal

### Client:

LMBV Lausitzer u. Mitteldeutsche  
Bergbau-Verwaltungsgesellschaft  
mbH

### Contact:

Ms. Grit Uhlig, Ltr. SB SA

### Purpose:

Preparation of the residual pit  
flooding

### Contract volume:

€ 230.000

### Project duration:

2002 - ongoing

### Field of services:

Mining redevelopment

### Project data:

- Size of ROMP Cecilie: 45 ha
- Sluicing of ashes, exhausted bleaching earth, acid sludge and overburden soil
- Sluicing period: 1942-1976
- Limited bearing capacity
- Shallow groundwater

### Project description:

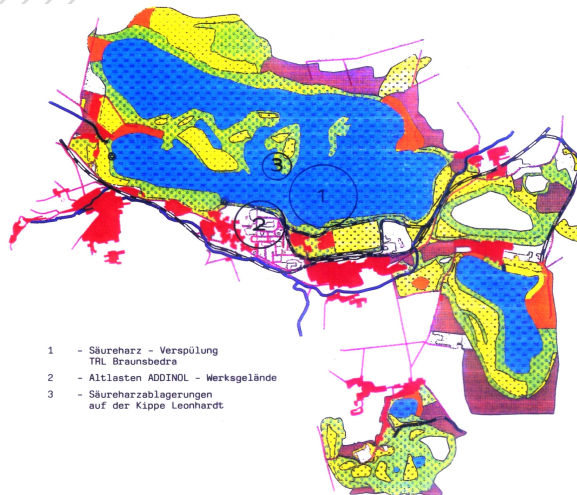
Investigation of a contaminated site in the residual opencast mining pit Cecilie, a former open mine in the Geiseltal, inferring rehabilitation measures to safeguard the quality of bathing water in the future Geiseltal lake.

### Services:

- Inquiries into the mine surveying of the LMBV and MIBRAG
- Investigation by means of trial pits, dry borings, driving core soundings
- Evaluation of aerial photographs
- Routine analytics by means of oil film formation and floating tests
- Bearing capacity tests
- Risk assessment
- Remediation conception
- Remediation plan in addition to final operation plan and mining approvals
- Construction planning
- Construction supervision
- Technical assistance for slopes and drainage of the opencast mine
- H&S coordination

### Client benefits:

- Interdisciplinary engineering services in one hand
- Mining experience and detailed knowledge
- Price advantages for the client



# Abandoned Open Pit Mücheln Water Quality Prognosis Geiseltalsee

## Project Description:

Prognosis of the development of the water quality under complex consideration of old contaminated sites in the vicinity of the future "Geiseltal Lake"

## Services:

- Data research
- Definition of water balance areas
- Sampling of the water entrance points and the pumping sites respectively the newly formed surface waters
- Assessment of the contaminants' load and prognosis of the contaminant concentrations
- Prognosis of the decomposition of MBAS (peptides)
- Risk assessment of the sensitive future utilization as a recreational area

## Advantage for the Client:

- Acceptance of the work at the Regulatories
- Planning- and cost safety

## Project Name:

Water quality prognosis and risk assessment for the flooding of the "Geiseltal Lake"

## Country:

Sachsen-Anhalt, Germany

## Locality:

District Merseburg-Querfurt

## Client:

LMBV Lausitzer und Mitteldeutsche Bergbau-Verwaltungsgesellschaft (Central German Mining and Administration Association)

## Contact Person:

Ms Uhlig

## Purpose:

Planning approval for flooding abandoned open pit Mücheln

## Project Value:

40.000 Euro

## Project Duration:

2002

## Project Manager:

Bernhard Schneider

## Field of Services:

Mining redevelopment