

Road Dam B 80, Saxony-Anhalt, Germany

Entwicklungsgesellschaft
Seengebiet Mansfelder Land mbH

Service area	Contract value	Project duration
Infrastructure Planning, Geotechnical Engineering	€55,000	10/2002 - 10/2003



Project description:

Investigation of the external and internal safety of an earth dam as a basis of dimensioning an approx. 20 m high and 600 m long earth dam to be founded on unstable, water saturated ground. The planning of the dam had to consider the flooding of a nearby open pit (Salziger See) and subsequent increase of the groundwater level with associated formation of a seepage water flow in the dam body.

Further project data:

- Height of dam: 20 m
- Length of dam: 600 m

Purpose:

Deviation of Federal Road B 80

Our services:

- Exploration (drilling, penetration tests, pressure tests)
- Soil-static calculations of the external and internal stability
- Investigation on the deformation of the dam and dam footing ground
- Determination of the seepage flow and dimensioning of the dam foot drainage system

Client benefits:

- Time saving, as the experts' office was in the vicinity of the construction site
- Quality assurance by using experienced soil mechanics engineers and accredited soil mechanics engineers
- Synoptic approach by employing a multidisciplinary team and therefore guaranteeing the success of the project