

**Design
Landfill closure
Landfill Falkenau**

**C&E · Consulting und
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Objective: Landfill closure
landfill Falkenau

Location: Hainichen

Client: AWVC Chemnitz

Beneficiary: AWVC Chemnitz

Year: 2004



Services provided:

Phases

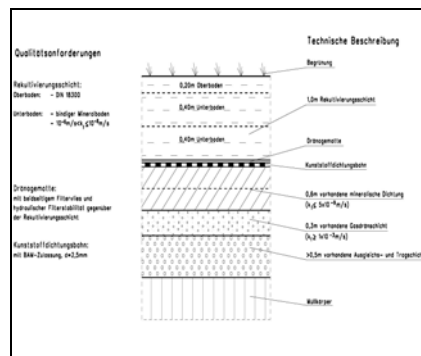
- Settlement prognosis
- Stability calculation
- Design and approval planning

Content

Surface sealing, active gasification, design of landfill access and bypass roads, design of surface water intake, greening/ planting of landfill body, preparation of the defect notification period



- 47.100 m² surfaced sealing acc. to German Law for the municipal solid waste under consideration of the existing intermediate covering,
- Reconstruction of 12 existing gas wells incl. well pipelines ,
- Expansion and modification of 4 existing gas wells and relocation of well pipelines over the length of approx. 300 m to the compressor and flare systems,
- 7.250 m² Design of existing landfill access / bypass roads with bituminous base and surface layer
- 1.000 m construction of drainage ditches for discharge of landfill surface water incl. the piping in the crossing sections
- 44.500 m² landfill body recultivation by grass seeds and shrubs,
- Construction and measuring of 5 settlement levels to control the deformation behaviour of landfill body within the after-care period,



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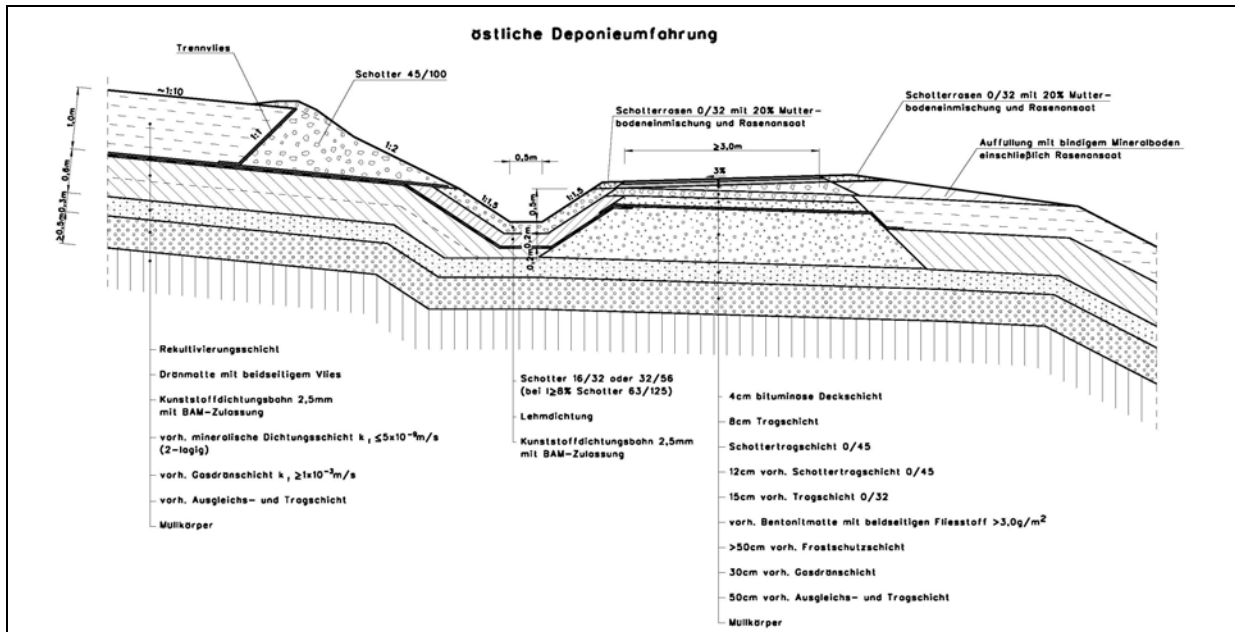


Illustration: Typical cross section landfill bypass roads

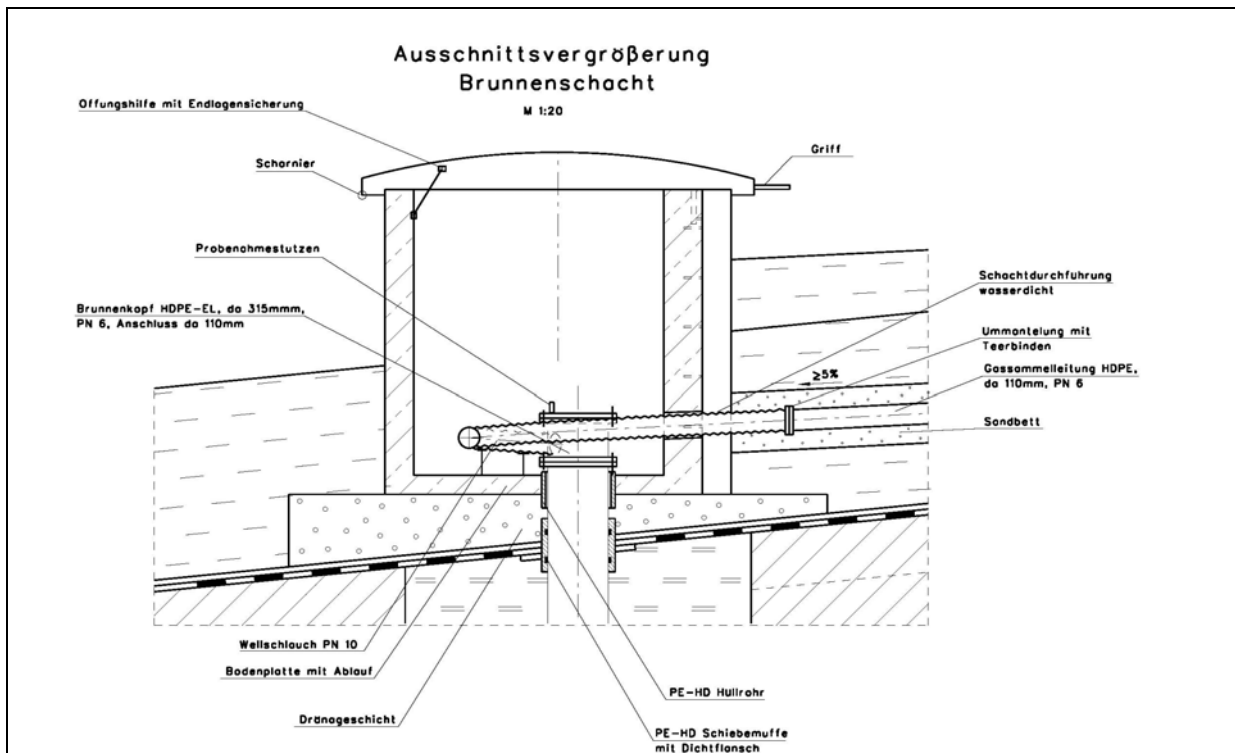


Illustration: Schematic diagram connection of gas wells