Remediation of landfill Lipprandis
Final closure of landfill
Lipprandis cells 1 to 3

Project objective:
Design, supervision and project management for:
Landfill extension and development of the Waste Management Centre as well as final closure of landfill cells 1 to 3 including all complementary facilities such as surface water and leachate collection, treatment and discharge, interim and final capping systems, gas collection and utilisation system.

Lipprandis is a municipal landfill with 14 ha area size and about 3 million m³ deposit volume.

Location: Lipprandis Saxony
Client: Regulatory Body for Waste Management SW Saxony
Beneficiary: Regulatory Body for Waste Management SW Saxony
Year: 2004 - 2008

Initial Situation:
Cells 1 till 3 of the landfill were temporarily covered; cell 1 – by mineral soil, cells 2 and 3 by qualified material of a mineral sealing layer. The cells 1 till 3 have been actively degasified and the surface water was professionally collected and discharged.

Phases
- Technical design and approval procedures
- Detailed and working design
- Preparation of tender documents, tendering and contracting
- Project implementation

Services
- Technical and detailed design and assistance during approval procedures
- QA/QC plan
- Tender dossier for works contracts and for supply contracts
- Tendering and contracting
- Supervision of construction corresponding to the FIDIC rules (Red Book)
- Project management during implementation
- Training of staff
Remediation of landfill Lipprandis
Final closure of landfill Lipprandis cells 1 to 3

Bench 295 m HN – transition of section 1 to section 2/3

Profiling cell 1
Installation of mineral sealing layer cell 1
Installation of geomembrane and drainage mate cell 1
Placement of recultivation soil section 1
Remediation of landfill Lipprandis
Final closure of landfill
Lipprandis cells 1 to 3

Strengthening of applied mineral sealing layer sections 2/3

Geomembrane and drainage mate sections 2/3

Track of the gas suction pipes

Trenching for the passive landfill degasification

Gas well heads with fittings for the active and passive landfill degasification