



### Country

France

### Client

SMICTOM du Nord  
du Bas-Rhin

### Date

2006-2008

### Cost of works

€3 exc. VAT

### Sogreah's services

- ▶ Design services and project supervision (detailed design, assistance with works contract, inspection of working designs, supervision of works implementation, assistance with acceptance procedures) technique and administrative assistance

### Context

In order to continue operating the dump within the framework of its statutory authorisation, the SMICTOM needed to undertake work to raise and strengthen the existing embankments and build a new extension in the form of an additional cell.

### Aims

Construction of a new operational section at the dump:

- Cell: 8250 m<sup>2</sup> area divided into two units capable of storing 140 000 m<sup>3</sup> of waste.
- Stormwater storage basin: open-air, with a capacity of 2000 m<sup>3</sup>.

### Description of works

The services concerned the following works:

- Moving of the waste on the side slopes in order to install biogas and stormwater drainage systems.
- Consolidation of the lower side slopes by means of a heavy facing (earth and rockfill embankment).
- Placing of clayey geosynthetic to provide enhanced passive security.
- Placing of 10 000 m<sup>2</sup> of HDPE geomembrane in the new cell and stormwater basin to provide active security.

- Installation of a system for draining leachate and biogas and conveying them to the existing treatment installations.
- Construction of a stormwater management system: networks and pumping stations.
- Temporary covering of the dome of the previous stage of operation using inert materials.
- Construction of a reed bed filter to treat leachate sludge, including networks and pumping stations.
- Construction of roads, tracks and various development works (bay, fence and gateway, etc.).