

Deliverable A1-1

Review of municipal waste landfills construction and operation techniques and liners properties

This Deliverable constitutes product of the preparatory Action A1 Review of EU legislation and materials requirements for landfills construction and restoration.

The general structure and the most common methods of landfilling are presented.

The Greek legislation governing solid waste management and landfilling is reviewed and the general technical requirements of inert, hazardous, and non-hazardous wastes landfills are displayed thoroughly. Additionally, the monitoring and control parameters of landfill during the operation and after-care phases are introduced.

Three paradigms of landfills are presented: for hazardous and non-hazardous waste and a contaminated soil landfill.

Eventually are pointed out the specifications of the mechanical properties of each geomembrane type used as waterproofing substrate for sealing of the bottom and perimeter slopes of the landfill, in order to minimize the possibility of drainage leak into the subsoil.