

Project Details

Municipal Landfill, China

Client:

Confidential

Project Budget:

Confidential

Key staff:

Piet Wens
Paul Verkaeren
Uda Pannizzo
Luis Hens

Duration:

2012 – on going

Provided services

- Conceptual Design
- Detailed Design
- Engineering Analysis



Introduction

On Client's request, Pollux Consulting carried out the exploitation plan as well as the LFG valorisation of the main regional sanitary landfill for disposal of solid waste from a municipality of 800.000 inhabitants, in conformity with the regulatory requirements of the P.R. of China .

Global description

The landfill site comprises two landfilling areas for non hazardous MSW. The first one has a capacity of 1 mill. Tonnes of MSW and it is already closed (2008). The second landfill is expected to be operative until 2035 (4 mill.Tonnes of MSW disposal)

Delivered Services

Pollux Consulting is involved in the project for delivering technical assistance during operation of the landfill, as well as for the treatment and valorisation of landfill gas. Pollux Consulting delivers the following services:

Drafting of the Landfill Operational Plan,

Including the design notes and landfill gas management.

Design Notes concerning the improvement of the existing design, improvement of the disposal capacity.

Stability Analysis of the improved design, using Slide and Plaxis Software.

Drawings of the improved design,

Using Rhino 3 D and AutoCad Civil 3D Softwares.

Calculation of the Biogas potential

Using the Pollux Consulting Biogas Software and the GasSim Software.

Design of the biogas extraction and collection system,

Using Pipeflow, Rhino 3 D and AutoCad Civil 3D Software.

