



LQM
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Project Profile

Sector: Landfill Gas
Project: Landfill Gas Surface Emissions and Flux Box Methane Emissions Survey
Client: Confidential client and site
Period: 2001



LQM were commissioned to follow the draft Environment Agency methane emissions protocol and to perform a walkover survey on three areas of this large (>200Ha) co-disposal landfill in order to determine the methane surface concentration variations at the site as a basis for designing an economic flux box survey based on the application of geostatistics to the data.

The survey comprised surface methane measurements using a modified FID with a double funnel attachment. Surveys were carried out on a 5m x 5m grid and showed a spatial correlation of data of approximately 30m – 60m. Geostatistical techniques were employed to determine the representative number of sample points. Subsequently, 240 flux box measurements were made and the site emissions from the various surfaces calculated. Finally we provided our client with the data to support the choice of gas well spacing in the operational phases and the technical basis for a phased approach to gas management at the site.