



CONTRACT NO. DE/2005/04

**SUPPLY AND INSTALLATION OF ELECTRICAL AND MECHANICAL EQUIPMENT FOR
UPGRADING OF TING KOK ROAD PUMPING STATION NO. 5**

ENVIRONMENTAL MONITORING AND AUDIT

FINAL EM&A REVIEW REPORT

FROM JUNE 2007 TO APRIL 2008

for

Biwater Man Lee Limited

Submitted by

Kingsford Environmental (H.K.) Ltd.

CONTROLLED DOCUMENT

Revision: C
Approved by: SL

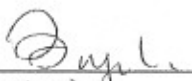
Revision Date: 26/5/08
Distribution Date: 26/5/08

CUSTOMER: **Biwater Man Lee Limited**

PROJECT NAME: **Supply and Installation of Electrical and Mechanical Equipment for Upgrading of Ting Kok Road Pumping Station No. 5**

PROJECT NO.: 81901

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Date: 26/5/2008

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Mr. S. Lau
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Date: 26/5/2008

CONTROLLED DOCUMENT DISTRIBUTION

Document Title : Final EM&A Review Report Controlled Copy No.: _____

Document No. : RPT:FRPT/ RevC/81901

Distributed to : Biwater Man Lee Limited Date : 26/5/2008

REVISION RECORD				
Rev. No.	Revision Notification	Date	Approved By	Signature
A	Report issued to Client	30/4/2008	S. Lau	
B	Report issued to Client	10/5/2008	S. Lau	
C	Report issued to Client	26/5/2008	S. Lau	

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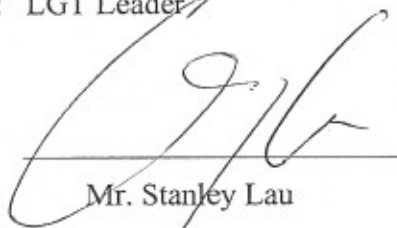
APPROVAL & DISTRIBUTION SHEET

DOCUMENT DATE: 26 May 2008

APPROVAL

Prepared by : LGT Leader

Signature:



Mr. Stanley Lau

Date: 26 May 2008

DISTRIBUTION LIST

Title	Name	No. of Copies
Employer's Representative (Drainage Services Department)	Mr. C. W. Tse	7
E&M Contractor (Biwater Man Lee Limited)	Mr. Thomas Jim	1
Independent Checker (Landfill Gas) (CH2M HILL Hong Kong Limited)	Mr. K. S. Lee	1

EXECUTIVE SUMMARY

This is the Final Environmental Monitoring and Audit Review Report for the Drainage Services Department Contract No DE/2005/04 entitled “Supply and Installation of Electrical and Mechanical Equipment for Upgrading of Ting Kok Road Pumping Station No. 5”. Biwater Man Lee Limited has employed an independent Landfill Gas Team (LGT), Kingsford Environmental (H.K.) Limited, to monitor landfill gas parameter and audit the implementation of the landfill gas hazard mitigation measures, as required in the contract.

The LGT’s duties are to review/comment on the contractor’s method statements regarding actions, investigate complaints, provide monthly and quarterly reports on the environmental status, and certification of reports and all submissions under the EP in accordance with the requirement of the Report on Landfill Gas Hazard Assessment as per section 8 and the Environmental Permit. The Independent Checker (Landfill Gas) (IC(LG)) for the project is to review and verify the reports and all submissions under the EP in accordance with the requirement of the Report on Landfill Gas Hazard Assessment as per section 8.2.4.

For the landfill gas monitoring activities, Action and Limit (A/L) Levels are defined levels of impact recorded which represent levels at which a prescribed response is required. Action Limit Level is provided by the baseline monitoring results documented in the baseline monitoring report (Report No. EA01284R002) for the Project. The A/L Level for the methane are 0.5%/1.0%, the A/L Level for the carbon dioxide are 0.5%/1.5% and the A/L Level for the oxygen are 19.0%/18.0%.

In the project (June 2007 – April 2008), the major site activities included the installation of the E&M equipment at Transformer Room and Pumping Station. In addition, outstanding works, detect, functional test, operation and maintenance at the Pumping Station was conducted.

The site handover date was on 15 May 2007 and no site work was conducted in May 2007 by Biwater Man Lee Limited. Therefore, Environmental Monitoring and Audit was commended in June 2007. In this project, weekly site inspection and landfill gas monitoring, as recommended in the Report on Landfill Gas Hazard Assessment as per section 8, were conducted.

Ir. Stanley Lau was approved by EPD and ER as the LGT Leader for the Drainage Services Department Contract No. DE/2005/04 entitled “Supply and Installation of Electrical and Mechanical Equipment for Upgrading of Ting Kok Road Pumping Station No.5” in this project.

No exceedance of monitoring parameters was found and no deficiencies were found during this project. For this project, some observations, noted by LGT/IC(LG), were made with recommendations for Contractor's improvements. Thus, the work activities and mitigation measures were in compliance with the environmental protection regulations, contract requirements and the requirement of the environmental permit during this project.

During this project, there were no complaints received.

The substantial completion of E&M works was on 11 January 2008 as agreed by Engineer. In addition, EM&A program was completed in April 2008 due to no further site works subject to EM&A requirement.

1 Introduction

This is the Final Environmental Monitoring and Audit (EM&A) Review Report for the Drainage Services Department Contract No. DE/2005/04 entitled "Supply and Installation of Electrical and Mechanical Equipment for Upgrading of Ting Kok Road Pumping Station No. 5". The report was prepared by the Landfill Gas Team, Kingsford Environmental (H.K.) Limited, of the E&M Contractor, Biwater Man Lee Limited.

This report is submitted to the Client, the Drainage Services Department, and Independent Checker, CH2M HILL Hong Kong Limited, for the project. In addition, this report is to be submitted to EPD in accordance with the requirement of the environmental permit (EP-212/2005) and Report on Landfill Gas Hazard Assessment as per section 8 (EM&A).

2 Basic Project Information

2.1 Project Organization

The major parties involved in the project with respect to environmental protection are shown in Appendix 1 (Ref.: Report on Landfill Gas Hazard Assessment). These include the Biwater Man Lee Limited, the Landfill Gas Team, the DSD Client, and the Independent Checker (Landfill Gas), or IC(LG) and EPD. A chart showing the duties of the parties regarding inspections and follow-up is also shown.

The management of Biwater Man Lee Limited and project team is shown in Appendix 1. The LGT consists of an LGT Leader and 1-2 landfill gas technicians. The LGT will co-ordinated with the Site Agent of Biwater Man Lee Limited for site inspection.

2.2 Project Programme

The site works for the E&M equipment and for testing and commissioning of the various systems has commenced on 15 May 2007 and substantial completed on 11 January 2008 with some minor out standing work until April 2008.

The major E&M work packages are listed below in Table 1. The actual dates of occurrences of the works rather than the planning dates, are recorded and detailed in the monthly and/or quarterly reports. The Contractors current detailed work schedule is attached in Appendix 2.

Table 1: Major E&M Work Packages

Section	Task Description
I	- Submissions and approval of Major Equipment, Drawing and Design
II	- Equipment Manufacture and Delivery
	- Site installation, Public Utilities and T&C

The contact information for the key environmental personnel is shown in Table 2. Ir Stanley Lau was approved by EPD and ER as the LGT Leader. The appointment letter of LGT Leader is attached in Appendix 3.

Table 2: Contact Information for Key Environmental Personnel

Name	Title	Telephone	Fax
Mr. Thomas Jim (BML)	Site Agent	2671-2350 / 9080-4998	2671-2351
Mr. Tommy Lo (BML)	Deputy Site Agent	2416-2828	2413-6278
Mr. Thomas Jim (BML)	Site Waste Manager / Co-ordinator	2671-2350 / 9080-4998	2671-2351
Mr. K. C. Lau (BML)	Site Supervisor	9056-7887	2413-6278
Mr. Stanley Lau (KEL)	LGT Leader	2612-2817	2614-7012
Ms. Angela Lau (KEL)	LGT Assistance	2612-2817	2614-7012
Mr. C. W. Tse (DSD)	Engineer's Representative	2594-7309	2827-8532
Mr. K. S. Lee (CH2M)	The Independent Checker (Landfill Gas)	2507-2203	2507-2293

3 EM&A Requirements

The works performed for this contract shall comply with the relevant Hong Kong government ordinances, regulations, guidelines, practice notes, etc. as regards environmental protection, as detailed in the Report on Landfill Gas Hazard Assessment, Section 8 (Environmental Monitoring and Audit) and Environmental Permit.

The Report on Landfill Gas Hazard Assessment, Section 8 (Environmental Monitoring and Audit) specifies environmental auditing to ensure that the mitigation measures recommended in the Report on Landfill Gas Hazard Assessment are effectively implemented. A summary of the required environmental protection and mitigation measures for the construction phase extracted from Appendix G of the Project Profile (“Implementation Schedule for Landfill Gas Hazard Mitigation Measures”) is attached in Appendix 4.

The environmental aspects for the construction phase include plant noise, dust, water quality, waste materials (including chemicals) and landfill gas hazard. Landfill gas monitoring is required at the beginning of each half working day for the E&M installation work (i.e. morning and afternoon). Since no excavation work is carried out by Biwater Man Lee Limited. Therefore, impact monitoring of landfill gas is to be carried out at selected location (i.e. Transformer Room and Pumping Station). Landfill gas parameters to be monitored comprise methane, carbon dioxide and oxygen. In addition, temperature is also recorded. The gas analyzer equipments (Manufacture: Geotechnical Instrument GA 2000 and Serial No.: GA 08277 and Gas Data Model GFM410 Landfill and Serial No. 10239) were used for landfill gas monitoring and the calibration records for the equipment used for landfill gas monitoring is attached in Appendix 5.

For the landfill gas monitoring, Action and Limit (A/L) Levels are defined levels of impact recorded which represent levels at which a prescribed response is required. Action Limited Level is provided by the baseline monitoring results documented in the baseline monitoring report (Report No. EA01284R002) for Project. The Event and Action Plans (EAPs) is to provide, in association with the monitoring and audit activities, procedures for ensuring that if any significant environmental incident (either accidental or through inadequate implementation of mitigation measures) does occur, the cause will be quickly identified and remediated, and the risk of a similar event recurring is reduced. This also applies to the exceedances of A/L criteria identified in the Report on Landfill Gas Hazard Assessment. A summary of the event/action plan for the Project extracted from Report on Landfill Gas Hazard Assessment is attached in Appendix 4.

The Environmental Permit, i.e. section 6.21 of the Particular Specification, is shown in Appendix 6.

4 Summary of Implementation Status of Environmental Protection

4.1 Landfill Gas Monitoring Results

The landfill gas monitoring by Landfill Gas Team was carried out during this project to monitor the landfill gas parameters comprising methane, carbon dioxide and oxygen. Note that temperature is also recorded. The site works of the E&M contractor, Biwater Man Lee Limited, is mainly for installation of E&M equipment inside the Transformer Room and Pumping Station and no excavation work is carried out by Biwater Man Lee Limited. Therefore, monitoring locations were selected at Transformer Room and Pumping Station.

The M1 (new deep borehole) from the period of June to August 2007 and M3 (existing manholes) from the period of June to November 2007 monitored by civil contractor (Maeda) were recorded for the analysis of potential risk and identify any adverse impacts arising from the boreholes in order to protect the worker safety.

Note that M1 (new deep borehole) monitored by civil contractor was dismantled in September 2007, which would not have any significant impacts on site to the E&M contractor, Biwater Man Lee Limited. For the site work of Biwater Man Lee Limited, no excavation work is carried out. In addition, before carrying out any E&M installations, landfill gas monitoring would be performed at the designated working area each day; i.e. morning and afternoon, to ensure the safety at work.

Note that M3 (existing manholes) was dismantled in December 2007. A manhole MH3 (approximately 4m depth and 3m next to M3) of the new system was constructed and monitored by civil contractor to serve the same purpose of M3.

The results are summarized below in Table 3 and the layout plan and the monitoring location code is shown in Appendix 7.

Table 3: Monitoring results by civil contractor (Maeda) at fixed location for the Project

Fixed Monitoring Station	Date of measurement	Flammable gas Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Temp. (°C)	Remarks
M1	29-Jun-07	0.0	0.0	19.7	30.0	
M3	29-Jun-07	0.0	0.0	19.8	30.0	
M1	27-Jul-07	0.0	0.0	19.7	28.9	
M3	27-Jul-07	0.0	0.0	19.8	28.9	
M1	29-Aug-07	0.0	0.0	19.8	25.8	
M3	29-Aug-07	0.0	0.0	19.8	25.8	

Fixed Monitoring Station	Date of measurement	Flammable gas Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Temp. (°C)	Remarks
M3	25- Sep-07	0.0	0.0	20.7	28.1	1m depth
M3	25- Sep-07	0.0	0.0	20.7	28.1	3m depth
M3	29-Oct-2007	0.0	0.0	20.6	23.4	1m depth
M3	29-Oct-2007	0.0	0.0	20.7	23.4	3m depth
M3	29-Nov-2007	0.0	0.0	20.5	16.8	1m depth
M3	29-Nov-2007	0.0	0.0	20.6	23.4	3m depth
MH3	21-Dec -2007	0.0	0.0	20.9	20	1m depth
MH3	21-Dec-2007	0.0	0.0	20.9	20	3m depth
MH3	29-Jan -2008	0.0	0.0	20.9	10	1m depth
MH3	29-Jan-2008	0.0	0.0	20.9	10	3m depth
MH3	28-Feb -2008	0.0	0.0	20.6	11	1m depth
MH3	28-Feb-2008	0.0	0.0	20.6	11.5	3m depth
MH3	27 Mar 2008	0.0	0.0	20.6	23.0	1m depth
MH3	27 Mar 2008	0.0	0.0	20.6	23.5	3m depth
MH3	18-Apr-08	0.0	0.0	20.7	25.0	1m depth
MH3	18-Apr-08	0.0	0.0	20.7	25.0	3m depth

The landfill gas monitoring was carried out according to the working area of E&M installation / operation (inside Transformer Room and Pumping Station) at the beginning of each half working day for the E&M installation / operation works (i.e. morning and afternoon).

For this project, the landfill gas was monitored at Transformer Room and Pumping Station by LGT technician. A total 694 numbers of readings were monitored at Transformer Room and Pumping Station (including hot work and confined space area) were monitored in this project. Note that the on-line automatic gas detection system was installed at Pumping Station and the calibration record for on-line automatic gas detection system used for landfill gas monitoring is attached in Appendix 5.

No exceedances for Action or Limit Level at any locations were recorded during this project. Refer to field measurement recording sheet and monitoring location in Appendix 7.

4.2 Environmental Site Inspections and Site Audits

Weekly site inspections were conducted during the project, as required. Frequency of the site inspections depends upon the work activities as regards environmental protection. The site inspections and audits conducted during the project are summarized in Table 4.

Table 4: Number of Site Inspections And Audits for the Project

For the Project (June 07 – April 08)	Total No.
Site inspections (by ER/LGT/BML)	41
EPD site inspection/visit	1

4.3 Site Activities

The main activities of the E&M Contractor involved the E&M equipment installations, functional test and operation and maintenance. The activities during the contract period are summarized in Table 5.

Table 5: Work Activities from June 2007 to April 2008

<i>Transformer Room</i>	
Installations of E&M equipment	21 Jun '07 – 5 Jul '07, 10 Jul '07, 1 Aug '07, 7 Aug '07 and 14 – 17 Aug '07
<i>Pumping Station</i>	
Installations of E&M equipment	4 Jul '07 – 21 Dec '07
Operation and Maintenance	28 Nov '07 – 11 Jan '08
Outstanding works and functional test of E&M equipment	1 Dec '07 – 31 Dec '07
functional test of E&M equipment	1 Jan '08 – 11 Jan '08
Defect	1 Jan '08 – 30 Apr '08
Operation and Maintenance	28 Nov '07 – 29 Feb '08
Outstanding minor works and provision of emergency call services	1 Mar '08 – 30 Apr '08

4.4 Implemented Environmental Mitigation Measures

The Report on Landfill Gas Hazard Assessment, Section 8 (Environmental Monitoring and Audit) specifies environmental auditing to ensure that the mitigation measures recommended in the Report on Landfill Gas Hazard Assessment are effectively implemented. The required environmental protection and mitigation measures for the construction phase extracted from Appendix G of the Project Profile (“Implementation Schedule for Landfill Gas Hazard Mitigation Measures”) were implemented, as shown below.

Noise, air quality, water quality and waste/chemicals Management

The job nature of the E&M contractor, Biwater Man Lee Limited, is mainly for installation of E&M equipment inside the Pumping Station, all hand-held’s breakers, bulldozer, concrete lorry mixer, dump truck and hand-held’s poker, vibratory would not be used so that the impact from noise and dust would be low. For water quality, appropriate mitigation measure e.g. regular removal of stagnant water and/or spraying larvicide will be implemented in place, if necessary.

The minor construction waste materials are preferred to be removed promptly from the site. No inert C&D materials will be generated from installation of E&M equipment whereas the minor non-inert C&D waste will be disposed to Tseung Kwan O landfill. Note that the C&D materials should be reduced, reused and recycled if possible, before disposal. Any substance identified as chemical waste would be disposed of properly by a licensed collector. A trip ticket system for the disposal of C&D waste should be conducted as required by the Particular Specification. Rubbish bins are provided on-site for collecting general refuses as necessary. The general refuse would be removed regularly and disposed to landfills by a licensed collector. A proper record of each waste disposal, including the new bar-coded disposal delivery form, would be kept to verify proper handling and disposal.

Packaging wastes and construction wastes mainly from Pumping Station was disposed to Tseung Kwan O landfill by the licensed waste collector this project.

The type and quantity of waste for final disposal during this project is shown in Table 6. Note that a record of each disposal is being kept.

Table 6: Type and Quantity of Waste Disposed during this project

Types of Waste	Quantity
Inert C&D Material	Nil
Non-inert C&D Waste	4.67 tonnes (~ 52.5 m ³)
Chemical Waste	Nil

Odour

During the entire project, a deodourizer with a forced ventilation system was installed to remove odour during operation and maintenance of E&M equipment at Pumping Station. The exhaust air from the pumping station was ventilated through a deodourizer capable of achieving at least 99% odour removal, prior to discharge at a direction away from the sensitive receivers accordance with the Environmental Permit, clause 2.5 (EP-212/2005). The test report for deodourizer system is attached in Appendix 8.

Landfill Gas Hazard

The installation of E&M equipment is carried out inside the Pumping Station and no excavation work will be carried out by Biwater Man Lee Limited.

Appropriate mitigation measure will be implemented in place e.g. smoking and naked flames are not allowed within the working area and worker is not allowed to work alone at any time in the confined area. In addition, Safety Officer, trained to familiar with gas detection equipment and landfill gas-related hazards, is appointed on site. Also, safe portable instruments, appropriately calibrated and capable of measuring the methane (0-100% LEL and 0-100% by volume), carbon dioxide (0-100%) and oxygen (0-21%) is provided.

For the confined space, welding, flame-cutting or other hot works are only allowed to be carried out in accordance with the requirement of the Report on Landfill Gas Hazard Assessment as per section 6 and mitigation measures for the construction phase extracted from Appendix G of the Project Profile (“Implementation Schedule for Landfill Gas Hazard Mitigation Measures”).

The temporary site offices or buildings that have enclosed spaces with the capacity to accumulate landfill gas, then they are located on an area which has been proven to be free of landfill gas and monitoring manually by the Safety Officer or an approved and appropriately qualified person to ensure that hazardous concentration of landfill gas does not occur; or be raised clear of the ground. Also, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets will be made available on site. Lastly, periodic environmental monitoring report with LFG control measures evaluation during construction phase should be provided by contractor.

The status of permits and licenses is attached in Appendix 6. The implementation status of mitigation measures for the construction phase extracted from Appendix G of the Project Profile (“Implementation Schedule for Landfill Gas Hazard Mitigation Measures”) is attached in Appendix 4.

5 Summary of Non-Compliances and Remedial Measures

There were no non-compliances were noted. A summary of the non-compliances for the project is shown in Table 7.

Table 7: Summary of Non-Compliances During the Project

Summary	Total No.	No. to follow-up
Non-compliances	0	0

6 Summary of Deficiencies Complaints and Remedial Measures

In the event of complaints, the procedure for handling of the complaints is detailed in The Report on Landfill Gas Hazard Assessment, Section 8.8.3 (Appendix 4). A summary of the deficiencies and complaints for the project is shown in Table 8.

There were no deficiencies and/or complaints noted from the site inspections and landfill gas monitoring for the course of the project.

Table 8: Summary of Deficiencies and Complaints During the Project

Summary	Total No.	No. to follow-up
Deficiencies	0	0
Complaints	0	0

7 Effectiveness of the Mitigation Measures

For the project of the site activities, mitigation measures taken by the E&M Contractor (Bewater Man Lee Limited) for each site work was effective and efficient for implementation of the landfill gas hazard assessment process and EM&A programme.

During the entire project, no methane and carbon dioxide were detected, and oxygen levels were within expected norms throughout construction period. As compare to Action or Limit Level for the Report on Landfill Gas Hazard Assessment, no exceedances for Action or Limit Level at any locations were recorded in the daily field measurement recording sheet throughout construction period and no deficiencies noted from the site inspection during the entire project.

8 Review of Success of the EM&A Programme

There have been no non-compliances, complaints and accidents were recorded during the project. Thus, the EM&A programme were considered to be successful for entire the project period.

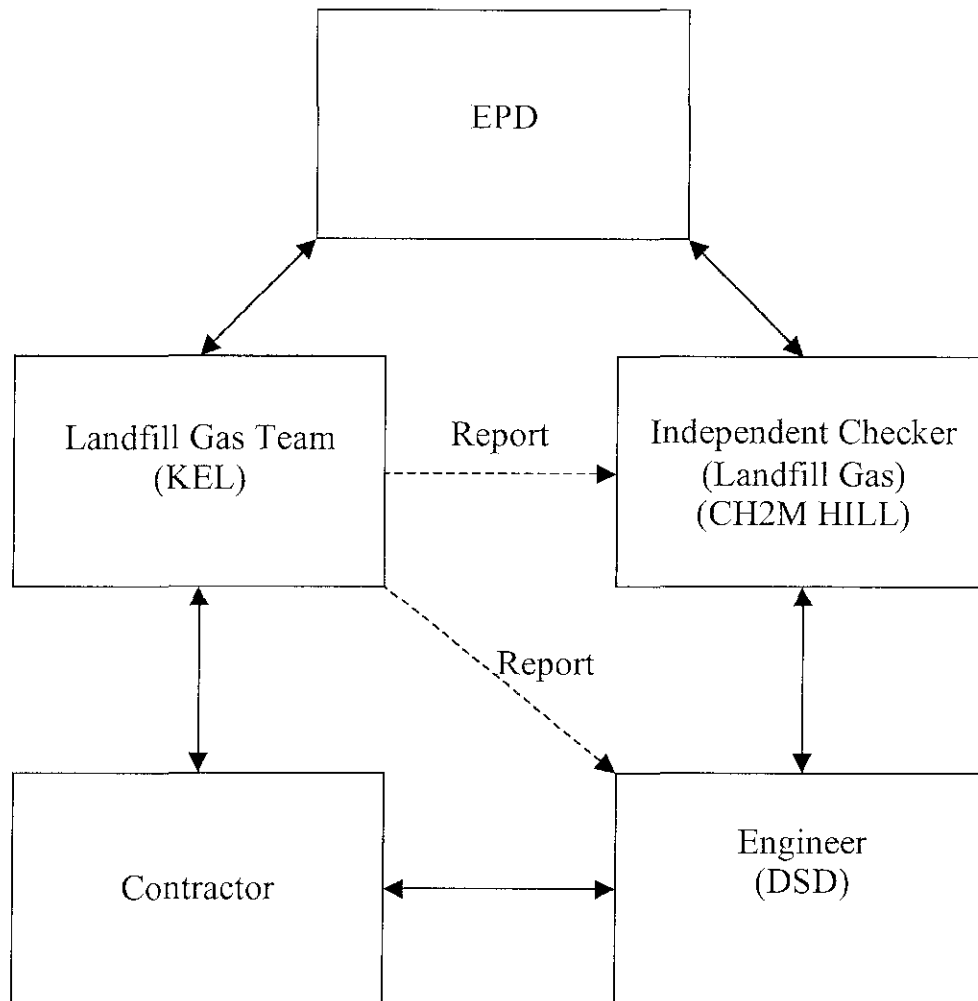
9 Conclusions and Recommendations

There have been no exceedances in A/L level at any monitoring locations. In addition, the required weekly site inspections have been conducted. No deficiencies, i.e. non-compliances, were noted.

In conclusion, the Contractor had performed and carried out their work accordance with the requirements of The Report on Landfill Gas Hazard Assessment, Section 8 (Environmental Monitoring and Audit). Thus, the EM&A programme was considered to be successful for the project entire project period.

Appendix 1

Reporting Structure and Contractor Project Management Structure



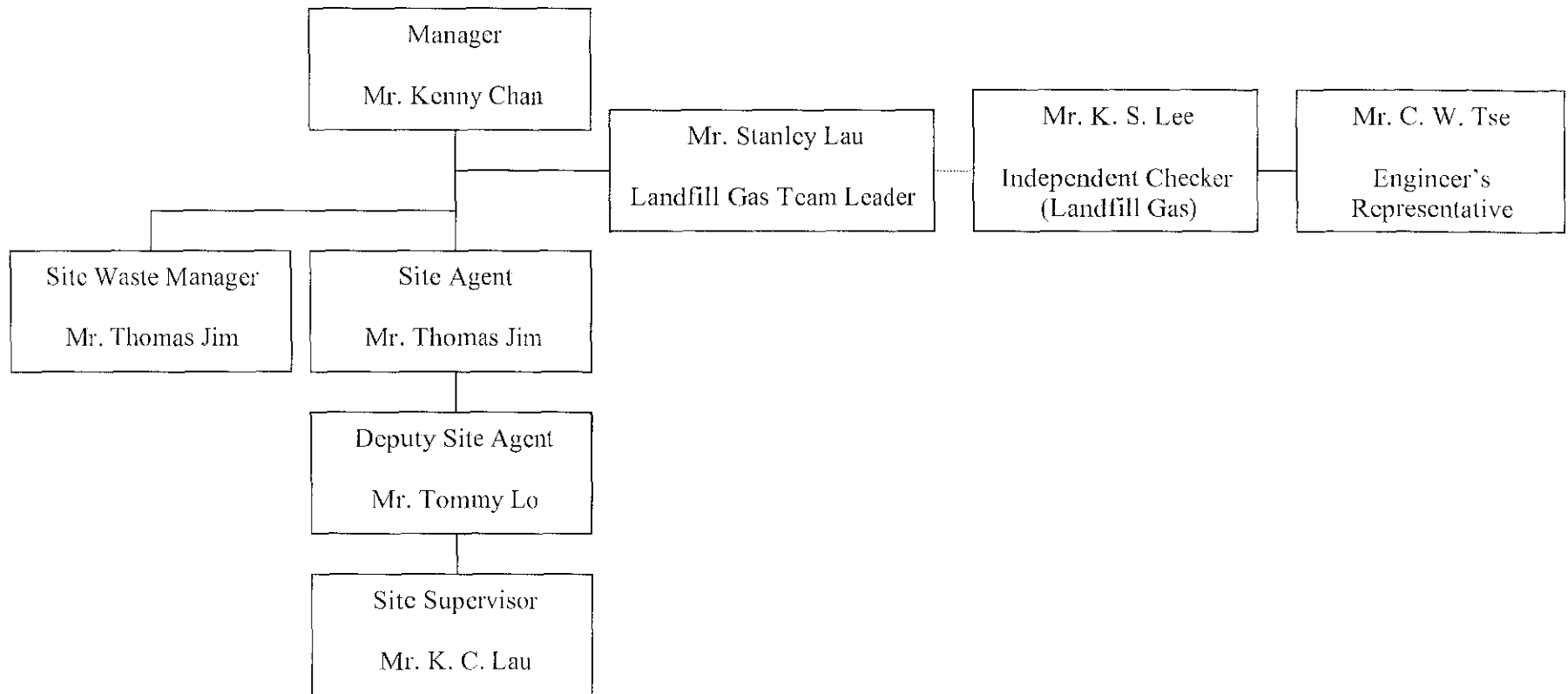
Communication Line
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Reporting Line
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Upgrading of Ting Kok Road Pumping Station No. 5
 Project Organization

CONTRACT NO. DE/2005/04
SUPPLY AND INSTALLATION OF ELECTRICAL AND MECHANICAL EQUIPMENT FOR
UPGRADING OF TING KOK ROAD PUMPING STATION NO. 5

Project Team Organization Chart relevant to EM&A



EM&A Contact Information for Key Personnel

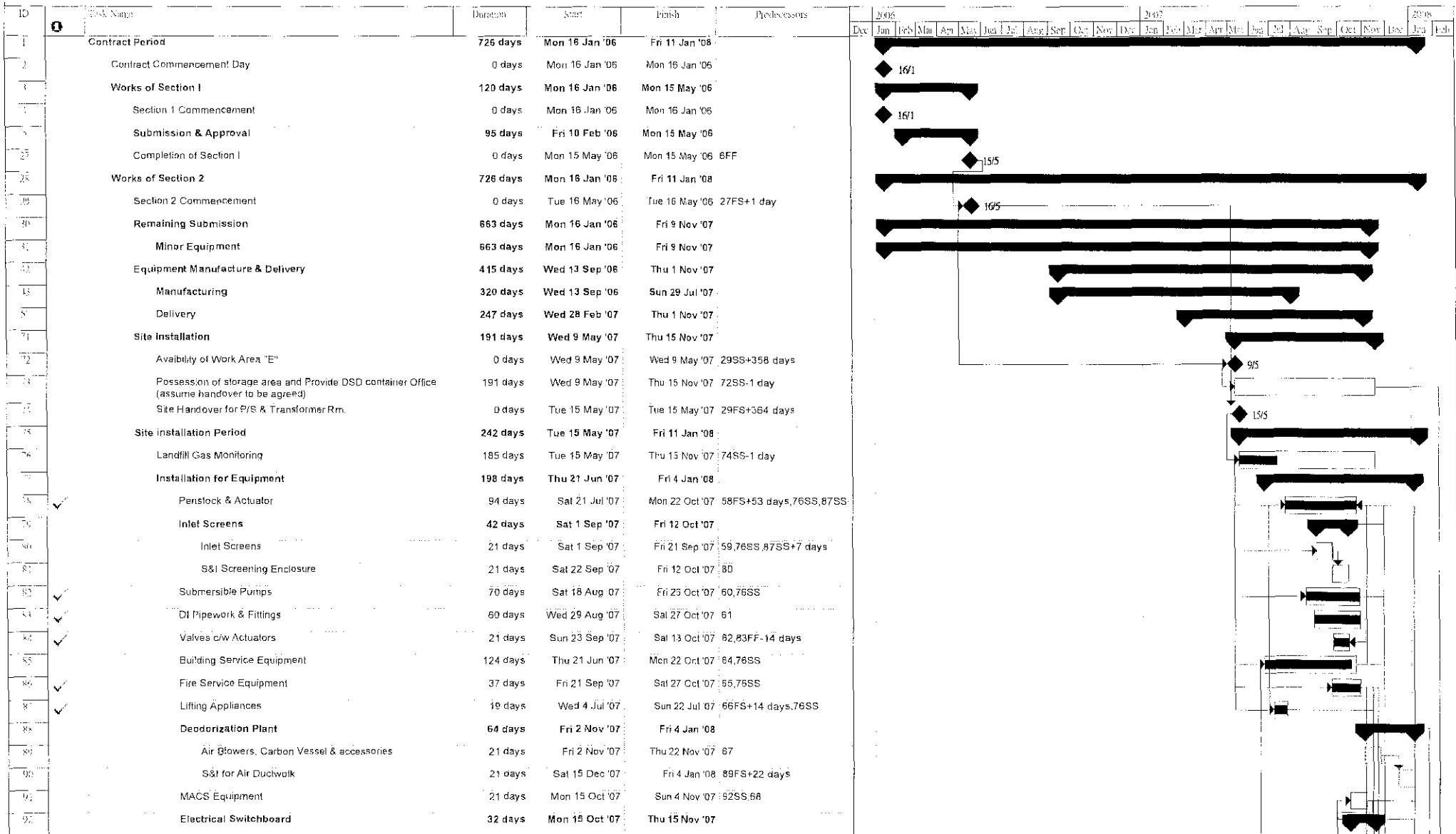
Name	Title	Telephone	Fax
Mr. Thomas Jim (BML)	Site Agent	26712350 / 90804998	26712351
Mr. Tommy Lo (BML)	Deputy Site Agent	24162828	24136278
Mr. Thomas Jim (BML)	Site Waste Manager / Co-ordinator	26712350 / 90804998	26712351
Mr. K. C. Lau (BML)	Site Supervisor	97569316	24136278
Mr. Stanley Lau (KEL)	LGT Leader	2612-2817	2614-7012
Ms. Angela Lau (KEL)	LGT Assistance	2612-2817	2614-7012
Mr. C. W. Tse (DSD)	Engineer's Representative	25947309	28278532
Mr. K. S. Lee (CH2M)	The Independent Checker (Landfill Gas)	2507-2203	2507-2293

Appendix 2

Master Construction Work Program

Contract DE/2005/04
 Supply and Installation of Electrical and Mechanical Equipment for Upgrading of Ting Kok Road Pumping Station No. 5
 WORKS PROGRAMME

Appendix 6
 Revision: 13
 Date: 31 Dec 2007



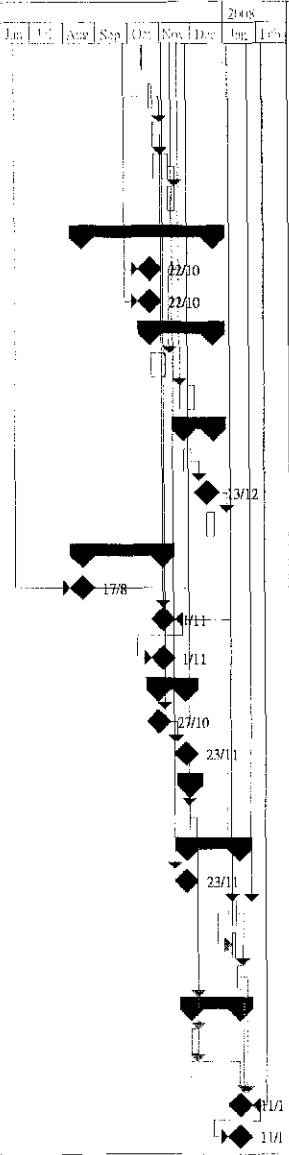
Biwater Man Lee Limited

Task		Milestone		Rolled Up Critical Task		Split		Group By Summary	
Critical Task		Summary		Rolled Up Milestone		External Tasks			
Progress		Rolled Up Task		Rolled Up Progress		Project Summary			

Contract DE/2005/04
Supply and Installation of Electrical and Mechanical Equipment for Upgrading of Ting Kok Road Pumping Station No. 5
WORKS PROGRAMME

Appendix 6
Revision: 13
Date: 31 Dec 2007

ID	Task Name	Duration	Start	Finish	Predecessors	2006												2007											
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
94	Factory Acceptance Test for MCC & LVSWB	1 day	Mon 15 Oct '07	Mon 15 Oct '07	69FS-7 days																								
94	Installation for LVSWBs' Component & Accessories	3 days	Mon 22 Oct '07	Wed 24 Oct '07	69																								
98	Site Acceptance Test for MCC & LVSWBs	1 day	Thu 25 Oct '07	Thu 25 Oct '07	94																								
96	Compartment of MACS/PLC System	14 days	Fri 26 Oct '07	Thu 8 Nov '07	95																								
97	Stimulation between MCC & MAC/PLC System	7 days	Fri 9 Nov '07	Thu 15 Nov '07	96																								
98	Public Utilities	125 days	Fri 17 Aug '07	Thu 20 Dec '07																									
99	Availability for Telephone Duct	0 days	Mon 22 Oct '07	Mon 22 Oct '07	91FS-14 days																								
100	Availability for Cable Duct	0 days	Mon 22 Oct '07	Mon 22 Oct '07	94SS																								
101	PCCW- Telephone Line / Fire Link / ML+	60 days	Mon 22 Oct '07	Thu 20 Dec '07																									
102	Telephone Line	14 days	Mon 22 Oct '07	Sun 4 Nov '07	99																								
103	Fire Link for FSI	14 days	Mon 19 Nov '07	Sun 2 Dec '07	99FS+28 days,85																								
104	MegaLink Plus	28 days	Fri 23 Nov '07	Thu 20 Dec '07																									
105	Application of ML+	7 days	Fri 23 Nov '07	Fri 29 Nov '07																									
106	Availability of ML+	0 days	Thu 13 Dec '07	Thu 13 Dec '07	105FS+7 days																								
107	Stability Checkmate	7 days	Fri 14 Dec '07	Thu 28 Dec '07	106																								
108	CLP for Transformer Room	76 days	Fri 17 Aug '07	Thu 1 Nov '07																									
109	Handover to CLP's Installation	0 days	Fri 17 Aug '07	Fri 17 Aug '07	85SS+58 days																								
110	Switchboard Power Energize (Assumed to be agreed with CLP)	0 days	Thu 1 Nov '07	Thu 1 Nov '07	109FF+35 days,92SF,95FS+7 days																								
111	CLP- Installation for Meters	0 days	Thu 1 Nov '07	Thu 1 Nov '07	110																								
112	Fire Services Department	27 days	Sat 27 Oct '07	Fri 23 Nov '07																									
113	FSI Form 314 & 501 Submission	0 days	Sat 27 Oct '07	Sat 27 Oct '07	86																								
114	FSD Inspection	0 days	Fri 23 Nov '07	Fri 23 Nov '07	86,113FS+27 days																								
115	Flow Diversion by Builder	1 day	Tue 27 Nov '07	Tue 27 Nov '07																									
116	Temporary Facilities	1 day	Tue 27 Nov '07	Tue 27 Nov '07	78,79,82FS+31 days																								
117	Testing & Commissioning Period	49 days	Fri 23 Nov '07	Fri 11 Jan '08																									
118	Load Test for Lifting Appliance	0 days	Fri 23 Nov '07	Fri 23 Nov '07	87FS+124 days																								
119	Functional Testing of Individual Systems/ Equipment	4 days	Sat 5 Jan '08	Tue 8 Jan '08	92FS-7 days,110,86,91,85,																								
120	Preparation and Continuous Commissioning Test Period	3 days	Sat 5 Jan '08	Mon 7 Jan '08	119SS																								
121	72 Hrs Continuous Commissioning Test	3 days	Wed 9 Jan '08	Fri 11 Jan '08	120,119																								
122	Minor Work & Outstanding Work for Defect & Variation Orders	45 days	Wed 28 Nov '07	Fri 11 Jan '08	116																								
123	Variation Orders	7 days	Wed 28 Nov '07	Thu 4 Dec '07	116																								
124	Outstanding Work for F/S	45 days	Wed 28 Nov '07	Fri 11 Jan '08	116																								
125	Finish of Section II	0 days	Fri 11 Jan '08	Fri 11 Jan '08	121,73FF,119																								
126	Complete of Contract	0 days	Fri 11 Jan '08	Fri 11 Jan '08	125																								



Biwater Man Lee Limited

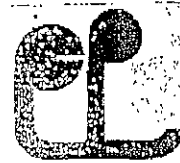
Task		Milestone		Rolled Up Critical Task		Split		Group By Summary	
Critical Task		Summary		Rolled Up Milestone		External Tasks			
Progress		Rolled Up Task		Rolled Up Progress		Project Summary			

Appendix 3

Appointment Letter of Landfill Gas Team Leader

本署編號 f(4) in EP2/N5/F/43 Pt.4

Environmental Protection Department
Branch Office



環境保護署分處

香港灣仔
軒尼詩道
一百三十號
修頓中心廿八樓

OUR REF:

來函編號

YOUR REF:

電話

TEL NO.: 2835 1581

傳真號碼

FAX NO.: 2802 4511

電子郵件

E-MAIL:

網址

HOME PAGE: <http://www.epd.gov.hk>

By Post & Fax : 2827 8532

14 May 2007

Drainage Services Department
44/F, Revenue Tower
5 Gloucester Road
Wan Chai, Hong Kong
(Attn : Mr. C W Tse, Engineer/Electrical & Mechanical Projects Division)

Dear Mr. Tse,

**Environmental Impact Assessment (EIA) Ordinance, Cap. 499,
Environmental Permit No. EP-212/2005 for
Upgrading of Ting Kok Road Pumping Station No. 5**

Landfill Gas Team (LGT) Leader

I refer to your memo under reference DSD EM/8/DE0504/SM of 10 May 2007.

Having reviewed the information of Mr. Stanley C T LAU attached to your memo, I am satisfied that his EM&A experience met the requirements for LGT Leader set out in Section 8.2.2 of the Project Profile (No. PP-238/2005) for the captioned project. Pursuant to Section 8.2.2 of the Project Profile, I hereby approve Mr. Stanley C T LAU as the LGT Leader for the captioned project. Please ensure that he will be an independent party from the Contractor during the project while he is in the position of LGT Leader.

Yours sincerely,

(Maurice YEUNG)

Principal Environmental Protection Officer
for Director of Environmental Protection



Drainage Services Department
E & M Projects Division
44th floor, Revenue Tower, 5 Gloucester Road,
Wan Chai, Hong Kong.

FAX IN
07053100

渠務署
機電工程部
香港灣仔告士打道5號
稅務大樓44樓

本函檔號 Our Ref: () in DSD EM/8/DE0504/SM
來函檔號 Your Ref:
電話 Telephone: (852) 2594 7309
傳真傳真 Fax: (852) 2827 8532

14 May 2007

Biwater Man Lee Ltd.
Suite 202, Block 1,
Hofai Commercial Centre,
Sai Lau Kok Rd.,
Tsuen Wan, N.T.

(Attn. : Thomas Jim)

Dear Sir,

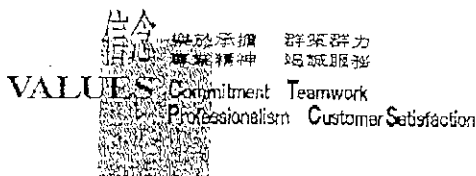
Contract No. DE/2005/04
Supply and Installation of Electrical and Mechanical Equipment
For Upgrading of Ting Kok Road Pumping Station No. 5
Appointment of Landfill Gas Team Leader

I attach herewith a letter ref. f(4) in EP2/N5/F/43 Pt. 4 dated 14.5.2007 and would advise the approval of appointment of Mr. Stanley C T Lau as the landfill gas team leader for your reference. You are reminded of the duties and responsibilities of the landfill gas team stated in Clause 8.2.2 of the Project Profile and the independence of the leader from your company.

Yours faithfully,

Engineer's Representative
Electrical & Mechanical Projects Division
Drainage Services Department

c.c. CE/SP, DSD (Attn. Messrs. Raymond Lee and Tim W Y Tsoi) w/e



Appendix 4

EM&A Key Requirements List and Complaint Procedure

charge of the Site.

- 6.21.8 The Contractor shall display a copy of these Environmental Permits (including the most updated Environmental Permit) on the Site at all vehicular site entrances/exits or at convenient location or as directed by the Engineer for public information at all times. The Contractor shall ensure that most updated information about the Environmental Permit, including any amended Permits, are displayed at such locations.
- 6.21.9 In accordance with the Permits as shown in Appendix VII, the Contractor shall establish an Landfill Gas Team (hereinafter referred to in this Clause as the "LGT") after handover of the Site from the Civil Contractor to undertake monitoring, analysis and reporting of landfill gas and other relevant works required by the Permits.
- 6.21.10 The Contractor shall provide assistance to LGT to undertake the landfill gas monitoring and audit and accompany joint site inspection undertaken by the LGT.
- 6.21.11 The LGT should report to the Contractor and be led and managed by the LGT Leader. The LGT Leader and the LGT should be employed to conduct the E&MA programme and ensure the Contractor's compliance with the project's landfill gas requirements during construction. The LGT Leader should be an independent party from the Contractor and has relevant professional qualifications, or have sufficient relevant experience in landfill gas hazards subject to approval of the ER and the EPD.
- 6.21.12 The duties and responsibilities of the LGT are defined in Appendix E Clause 8.2.2 of Project Profile (as mentioned in the EP) of Upgrading of Ting Kok Road Pumping Station No.5 which include the followings:
- (a) to monitor various landfill gas parameters as required;
 - (b) to analyse the landfill gas monitoring and audit data and review the success of EM&A programme to cost-effectively confirm the adequacy of mitigation measures implemented and to identify any adverse impacts arising;
 - (c) to carry out regular site inspection to investigate and audit the Contractor's site practice, equipment and work methodologies with respect to landfill gas hazard, and effect proactive action to pre-empt problems;
 - (d) to carry out monthly EM&A report, quarterly E&MA summary report and final E&MA review report;
 - (d) to audit and prepare audit reports on the landfill gas monitoring data and its conditions;
 - (e) to report on the landfill gas monitoring and audit results to the relevant parties, the Engineer and EPD or its delegated representative;
 - (f) to recommend suitable mitigation measures to the Contractor in accordance with the Event and Action Plan; and
 - (g) to adhere to the procedures for carrying out complaint investigation.

Event and Action Plan (EAP) for Landfill Gas

The Event and Action Plan for landfill gas detected in utilities and any on-site areas following construction are shown in the table below.

Event and Action Plan for Landfill Gas

Parameter	Level	Action
Oxygen	<19%	- Ventilate to restore oxygen to >19%
	<18%	- Stop works - Evacuate personnel/prohibit entry - Increase ventilation to restore oxygen to >19%
Methane	>10% LEL (i.e. >0.5% by volume)	- Post "No Smoking" signs - Prohibit hot works - Ventilate to restore methane to <10% LEL
	>20% LEL (i.e. >1% by volume)	- Stop works - Evacuate personnel/prohibit entry - Increase ventilation to restore oxygen to <10% LEL
Carbon Dioxide	>0.5%	- Ventilate to restore carbon dioxide to <0.5%
	>1.5%	- Post "No Smoking" signs - Prohibit hot works - Increase ventilate to restore carbon dioxide to <0.5%

*Appendix G
Implementation Schedule for LFG Hazard Mitigation Measures*

Section	Environmental Protection Measures	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
6.1	<p>Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be appointed on site throughout the ground works phase. The Safety Officer should be provided with intrinsically safe portable instruments, appropriately calibrated and capable of measuring the following gases in the ranges indicated:</p> <p style="margin-left: 40px;">methane 0-100% LEL and 0-100% by volume; carbon dioxide 0-100%; and oxygen 0-21%</p>	Within the work site	Contractor	Construction	<i>Code of Practice on Safety and Health at Work in Confined Space,</i> <i>Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)</i>
6.2	No smoking and naked flames should be allowed.				
6.2	No worker should work alone at any time in the confined area or any excavation trenches.				
6.2	Construction equipment should be equipped with a vertical exhaust at least 0.6m above ground level and/or with spark arrestors.				
6.2	Electrical motors and electrical extension cords should be explosion-proof or intrinsically safe.				
6.2	Welding, flame-cutting or other hot works should only be carried out in trenches or confined spaces when controlled by a 'permit to work' procedure, properly authorized by the Safety Officer.				
6.2	Forced ventilation should be required for workers, if in a trench deeper than 1m.				
					<i>Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)</i>

Appendix G
Implementation Schedule for LFG Hazard Mitigation Measures

Section	Environmental Protection Measures	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
6.2	During piping assembly or conduiting construction, all valves/seals should be closed as installed to prevent the migration of gases through the pipeline/conduit. Forced ventilation and gas monitoring should be performed before staff entering and working in large diameter pipe.	Within the work site	Contractor	Construction	<i>Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)</i>
6.2	The Safety Officer should set down the monitoring frequency and areas prior to commencement of construction works.				
6.2	Daily and routine monitoring should be carried out in all excavations.				
6.2	All measurements in excavations should be made with the extended monitoring tube located not more than 10mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters the area.				
6.2	For excavations deeper than 1m, measurements should be carried out: <ul style="list-style-type: none"> • at the ground surface before excavation commences; • immediately before any worker enters the excavation; • at the beginning of each half working day (i.e. morning and afternoon) for the entire period the excavation remains open; and • periodically through the working day whilst workers are in the excavation. 				
6.2	For excavations between 300mm and 1m deep, measurements should be carried out: <ul style="list-style-type: none"> • directly after the excavation has been completed; and • periodically whilst the excavation remains open. 				

*Appendix G
Implementation Schedule for LFG Hazard Mitigation Measures*

Section	Environmental Protection Measures	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
6.2	The landfill gas precautionary measures involved with excavation and piping works should be included in the Safety Plan.	Within the work site	Contractor	Construction	<i>Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)</i>
6.3	The cracks on the ground level at the working area should be monitored during ground-works construction				
6.4	Where there are any temporary site offices, or any other buildings that have enclosed spaces with the capacity to accumulate landfill gas, then they should either: <ul style="list-style-type: none"> • Be located on an area which has been proven to be free of landfill gas and monitored manually by the Safety Officer or an approved and appropriately qualified person to ensure that hazardous concentration of landfill gas does not occur; or • Be raised clear of the ground. If buildings are raised clear of the ground, a minimum, clear separation distance should be 500mm. 				
6.5	Such offices or buildings should be provided with some kinds of control of gas by mechanical means e.g. forced ventilation using fans or blowers.				
6.6	Adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site.				
6.7	Periodic environmental monitoring report with LFG control measures evaluation during construction phase should be provided by contractor and submitted to SP/DSD and EPD.				

Appendix G
Implementation Schedule for LFG Hazard Mitigation Measures

Section	Environmental Protection Measures	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
7.1	When service voids, manholes or inspection chambers within the proposed site are entered for maintenance, monitoring and a checklist system of safety requirements should be performed before entry	Manhole/ chamber	DSD	Operation	<i>Code of Practice on Safety and Health at Work in Confined Spaces</i>
7.2	A procedure should be developed as part of the station operation to respond to gas detector alarms. The detection system should be maintained and calibrated regularly in accordance with the manufacturer's recommendations. In the event of a power failure, the detectors should have an 8-hour battery back-up system, and the procedures should indicate for manual monitoring in the station in the event of prolonged power failure (of longer than 8 hours).	Pumping station			
7.3	Forced ventilation should be used if methane of more than 0.5 % (by volume) in the internal atmosphere (e.g. in service voids, manholes, inspection chambers or rooms as mentioned above) is detected.	Manhole/ chamber/ Pumping station			
7.4	No person should enter or remain in any confined spaces or trenches where the carbon dioxide concentration exceeds 1.5 % (by volume).				
7.5	Oxygen concentration should be monitored and no person should enter or remain in any confined spaces or trenches where the oxygen content of air has fallen below 18 % by volume.				
7.6	All the access to these confined spaces would be restricted only to authorize personnel who should be aware of the LFG hazard. No member of general public should be permitted or allowed to access these confined spaces, manholes or inspection chambers.				

Landfill Gas Complaint

Landfill gas complaint should be referred to the LGT Leader for action. The LGT Leader should undertake the following procedures upon receipt of any complaint:

- log complaint and date of receipt onto the complaint database and inform the IC(LG) and the ER immediately;
- investigate the complaint to determine its validity, and assess whether the source of the problem is due to works activities;
- identify mitigation measures in consultation with the IC(LG) if a complaint is valid and due to works;
- advise the Contractor if mitigation measures are required;
- review the Contractor's response to identified mitigation measures, and the updated situation;
- if the complaint is transferred from the EPD, submit interim report to the EPD on status of the complaint investigation and follow-up action within the time frame assigned by the EPD;
- undertake additional monitoring and audit to verify the situation if necessary, and review that circumstances leading to the complaint do not recur;
- report investigation results and subsequent actions to complainant (if the source of complaint is EPD, the results should be reported within the timeframe assigned by the EPD); and
- record the complaint, investigation, the subsequent actions and the results in the monthly EM&A reports.

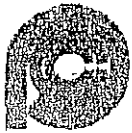
Appendix 5

Calibration records for equipment used for landfill gas monitoring

- **The Portable gas analyzer equipment
(Manufacture: Gas Analyser GA 2000, Geotechnical Instrument)**

- **The Portable gas analyzer equipment
(Manufacture: Gas Data Model GFM410 Landfill)**

- **The on-line automatic gas detection system
(Model: Crowcon Gasmonitor System)**



Hong Kong Productivity Council
香港生產力促進局

COPY

Environmental Management Division

CALIBRATION REPORT

Client : Maeda Corporation
Address : Tai Po Site Office,
Ting Kok Road,
Tai Po

Report No. : CR 000075
Page No. : 2 of 2
Issue Date : 23/08/2006

Received Date : 19/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 22/08/2006

Calibration Results:

Item : Gas Analyser model GA 2000, Geotechnical Instruments
Serial No. : GA 08277
Calibration Method : In house method (calibrated and checked with certified gas standards)
Date of Calibration : 22/08/2006
Results :

Carbon Dioxide

Expected, %	Reading, %
0.0	0.0
11.1	10.6
21.3	21.1
30.1	31.2
40.0	39.9

Approval Signatory:

TEST DATE AND CONDITIONS	
Date	27/07/2007
Atmospheric Pressure	996 mB
Ambient Temp	19 °C
Enviroics Serial No.	3268

GAS DATA LTD

Pegasus House
 Seven Stars Estate
 Wheler Rd
 Coventry
 CV3 4LB
 Tel 02476303311 Fax 02476307711



GFM410 FINAL INSPECTION & CALIBRATION CERTIFICATE

INSTRUMENT DETAILS	
Serial No	Customer
10239	science international corporation

INSTRUMENT CHECKS			
Keyboard	✓	Pump Flow	400 cc/min
Display Contrast	✓	Pump Flow @ -200mB	300 cc/min
Clock Set / Running	✓	S/W Version	G410.0022/0004
Labels Fitted	✓	Recalibration Date	27/7/2008

GAS CHECKS							
Calibration Gas		Instrument Gas Channels Read					
Gas Type	Applied Conc.	CH4 (%)	tol. (% vol.)	CO2 (%)	tol. (% vol.)	O2 (%)	tol. (% vol.)
N2	100%	0.0	0.0	0.0	0.0	0.0	+0.1
CH4	5 %	5.1	+/-0.3	0.0	0.0	0.0	+0.1
	60%	59.2	+/-3.0	0.0	0.0	0.0	+0.1
CO2	5%	0.0	0.0	4.9	+/-0.3	0.0	+0.1
	40%	0.0	0.0	39.4	+/-3.0	0.0	+0.1
AIR (20.9% O2, 400ppm CO2)	100%	0.0	0.0	0.0	+0.1	20.9	+/-0.5

PRESSURE CHECKS							
Calibration Pressure		Instrument Pressure Channels Read					
Pressure @	Applied Pressure	Atmospheric [Ap] (mB)	tol. (mB)	Static [Sp] (mB)	tol. (mB)		
All ports	current atmospheric	996	+/-2.0	0	0.0		
Ap port (internal)	+800mB(a)	800	+/-5.0	0	0.0		
	+1200mB(a)	1200	+/-5.0	0	0.0		
Gas IN port	+400mB(g)	996	n/a	400	+/-2.0		
	-400mB(g)	996	n/a	-399	+/-2.0		

TEST DATE AND CONDITIONS	
Date	27/07/2007
Atmospheric Pressure	996 mB
Ambient Temp	19°C
Enviroics Serial No.	3268

GAS DATA LTD

Pegasus House
 Seven Stars Estate
 Wheler Rd
 Coventry
 CV3 4LB
 Tel 02476303311 Fax 02476307711



GFM410 FINAL INSPECTION & CALIBRATION CERTIFICATE

FLOW CHECKS

OPTIONAL GAS CHECKS								
Calibration Gas		Instrument Gas Channels Read						
Gas Type	Applied Conc.	Label Range						tol. (% vol.)
N2	100%							0.0
								+/- 5.0
								+/- 5.0
								+/- 5.0
								+/- 5.0
								+/- 5.0

OPTIONAL TEMPERATURE CHECK

PACKING						
Instrument	✓	AC Powered Battery Charger	UK	EUR	US	
Gas Sample Pipe	✓	Manual	✓	Carry Case		✓
Spares Pot	✓	Allen Key	✓			
USB Lead		PC Software				
Vane Anemometer		Extra Items				

TESTED ps sarkaria APPROVED [Signature]



Calibration Certificate

Number: CCS/57011

Customer: Biwater Man Lee Limited
 Location: DSD Ting Kok Road Sewage Screening Plant
 Contact Person: Mr. Jim
 Model: Crowcon Gasmonitor System
 Auxiliary System: NA

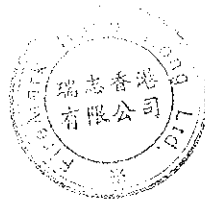
Channel Number	Sensor Type	Measuring Range	Alarm 1	Alarm 2	Alarm 3	Calibration Gas	Result
Rack 1							
1	CH4	0-100%LEL	20	40	100	50%LEL	Passed
2	CO2	0-2%v/v	0.5	1.5	2	1.5%v/v	Passed
3	O2	0-25%v/v	19	18	17	17%v/v	Passed
4	CH4	0-100%LEL	20	40	100	50%LEL	Passed
5	CO2	0-2%v/v	0.5	1.5	2	1.5%v/v	Passed
6	O2	0-25%v/v	19	18	17	17%v/v	Passed
7	CH4	0-100%LEL	20	40	100	50%LEL	Passed
8	CO2	0-2%v/v	0.5	1.5	2	1.5%v/v	Passed
9	O2	0-25%v/v	19	18	17	17%v/v	Passed
Rack 2							
1	CH4	0-100%LEL	20	40	100	50%LEL	Passed
2	CO2	0-2%v/v	0.5	1.5	2	1.5%v/v	Passed
3	O2	0-25%v/v	19	18	17	17%v/v	Passed
4	CH4	0-100%LEL	20	40	100	50%LEL	Passed
5	CO2	0-2%v/v	0.5	1.5	2	1.5%v/v	Passed
6	O2	0-25%v/v	19	18	17	17%v/v	Passed
7	CH4	0-100%LEL	20	40	100	50%LEL	Passed
8	CO2	0-2%v/v	0.5	1.5	2	1.5%v/v	Passed
9	O2	0-25%v/v	19	18	17	17%v/v	Passed

Remarks: Instrument PASSED – fit for service.

Authorized Signature

Technical Department

Date: 10th Jan 2008



FireMark Hong Kong Limited
 Unit 901, 9/F., Lai Sun Commercial Center, 680 Cheung Sha Wan Road, Kowloon,
 Hong Kong
 Tel : (852) 2751 8871 Fax : (852) 2751 8806

Appendix 6

Permits

6.21 ENVIRONMENTAL PERMIT

- 6.21.1 The Works in Ting Kok Road Pumping Station No.5 are classified as a Designated Project under the Environmental Impact Assessment Ordinance (EIAO) and thus its construction and operation are to be governed by an Environmental Permit issued by Environmental Protection Department (EPD). In accordance with the Clause 30 of the General Conditions of Contract, the Contractor shall conform in all respects with the conditions of the Environmental Permit. The concerned Environmental Permit No. EP-212/2005 for Upgrading of Ting Kok Pumping Station No.5 under the Permit Holder of Sewerage Projects/Drainage Services Department is attached in Appendix VII.
- 6.21.2 For the purpose of this Contract, the "Environmental Permit" (EP) means any environmental permit issued by the Director of Environmental Protection in respect of the Works or project which the Works form a part thereof under the Environmental Impact Assessment Ordinance (Cap. 499) including any variation of the environmental permits. The Works of this Contract are therefore subject to the conditions stipulated in the Environmental Permit.
- 6.21.3 The Contractor shall observe and abide by the conditions set out in the EP attached at Appendix VII when carrying out the Works. The Contractor shall display the EP at the Site throughout the construction period. The Contractor needs not apply for a further environmental permit for the Works. The Engineer will coordinate any application for variation of the EP conditions where it is necessary and shall notify the contractor upon any change or variation approved by DEP. If the Contractor choose to apply for and hold a further EP for the Works for any reasons, he can do so but will be at his own risks and he will not be entitled to an extension or to any compensation or cost.
- 6.21.4 The Contractor shall ensure full compliance with all conditions of the EP before and during carrying out the Works. Any non-compliance may constitute a contravention of the EIAO (Cap. 499) and shall be definite ground for enforcement action. The Contractor shall assume all the responsibilities under the EP as if the Contractor is the Permit Holder as far as it is applicable to this Contract. The Contractor is required to indemnify the Employer against any charge for any non-compliance with the EP. The Contractor will not be compensated for any additional cost and/or time incurred due to the Contractor's non-compliance with any conditions of the EP.
- 6.21.5 The Contractor shall comply with all Enactments which shall include but not limited to the following:
- Noise Control Ordinance (Cap. 400);
 - Air Pollution Control Ordinance (Cap. 311);
 - Water Pollution Control Ordinance (Cap. 358);
 - Dumping at Sea Ordinance (Cap. 466); and
 - Water Disposal Ordinance (Cap. 354).
- 6.21.6 The Contractor shall make copies of this Environmental Permit available at all times for inspection by the Director of Environmental Protection at the Site.
- 6.21.7 The Contractor shall give a copy of this Environmental Permit to the person(s) in

charge of the Site.

- 6.21.8 The Contractor shall display a copy of these Environmental Permits (including the most updated Environmental Permit) on the Site at all vehicular site entrances/exits or at convenient location or as directed by the Engineer for public information at all times. The Contractor shall ensure that most updated information about the Environmental Permit, including any amended Permits, are displayed at such locations.
- 6.21.9 In accordance with the Permits as shown in Appendix VII, the Contractor shall establish an Landfill Gas Team (hereinafter referred to in this Clause as the "LGT") after handover of the Site from the Civil Contractor to undertake monitoring, analysis and reporting of landfill gas and other relevant works required by the Permits.
- 6.21.10 The Contractor shall provide assistance to LGT to undertake the landfill gas monitoring and audit and accompany joint site inspection undertaken by the LGT.
- 6.21.11 The LGT should report to the Contractor and be led and managed by the LGT Leader. The LGT Leader and the LGT should be employed to conduct the E&MA programme and ensure the Contractor's compliance with the project's landfill gas requirements during construction. The LGT Leader should be an independent party from the Contractor and has relevant professional qualifications, or have sufficient relevant experience in landfill gas hazards subject to approval of the ER and the EPD.
- 6.21.12 The duties and responsibilities of the LGT are defined in Appendix E Clause 8.2.2 of Project Profile (as mentioned in the EP) of Upgrading of Ting Kok Road Pumping Station No.5 which include the followings:
- (a) to monitor various landfill gas parameters as required;
 - (b) to analyse the landfill gas monitoring and audit data and review the success of EM&A programme to cost-effectively confirm the adequacy of mitigation measures implemented and to identify any adverse impacts arising;
 - (c) to carry out regular site inspection to investigate and audit the Contractor's site practice, equipment and work methodologies with respect to landfill gas hazard, and effect proactive action to pre-empt problems;
 - (d) to carry out monthly EM&A report, quarterly E&MA summary report and final E&MA review report;
 - (d) to audit and prepare audit reports on the landfill gas monitoring data and its conditions;
 - (e) to report on the landfill gas monitoring and audit results to the relevant parties, the Engineer and EPD or its delegated representative;
 - (f) to recommend suitable mitigation measures to the Contractor in accordance with the Event and Action Plan; and
 - (g) to adhere to the procedures for carrying out complaint investigation.

ENVIRONMENTAL IMPACT ASSESSMENT ORDINANCE
(CHAPTER 499)

Section 10
環境影響評估條例
(第 499 章)
第 10 條

ENVIRONMENTAL PERMIT TO CONSTRUCT AND OPERATE
A DESIGNATED PROJECT
建造及營辦指定工程項目的環境許可證

PART A (MAIN PERMIT)
A 部 (許可證主要部分)

Pursuant to Section 10 of the Environmental Impact Assessment Ordinance (the Ordinance), the Director of Environmental Protection (the Director) grants this environmental permit to the Drainage Services Department (hereinafter referred as the "Permit Holder") to construct and operate the designated project described in Part B subject to the conditions specified in Part C. The issue of this environmental permit is based on the documents, approvals or permissions described below:

根據環境影響評估條例(本條例)第 10 條的規定, 環境保護署署長(署長)將本環境許可證批予 渠務署(許可證持有人)以建造及營辦 B 部所說明的指定工程項目, 但須遵守 C 部所列明的條件。本環境許可證依據下列文件、批准或許可而簽發:

Application No. 申請書編號	AEP-212/2005
Document in the Register: 登記冊上的文件:	1. Project Profile - "Upgrading of Ting Kok Road Pumping Station No.5" (Register No.: PP-238/2005) 工程項目簡介 "汀角路 5 號泵房擴建工程" (登記冊編號: PP-238/2005) 2. Application for Environmental Permit submitted by the Permit Holder on 8 March 2005 (Application No.: AEP-212/2005) 許可證持有人於 2005 年 3 月 8 日提交的申請文件 (申請書編號: AEP-212/2005)

Application No. 申請證編號	AEP-212/2005
Director's Permission to Apply Directly for Environmental Permit 署長批准直接申請環境 許可證	Letter Reference: (15) in EP 2/NS/F/43 信件編號: (15) in EP 2/NS/F/43 Date: 25 February 2005 日期: 2005年2月25日

4 April 2005

Date
日期



(Louis P.L. CHAN)
Principal Environmental Protection Officer (Acting)
for Director of Environmental Protection
環境保護署署長
(署理首席環境保護主任 陳煥林代行)

PART B (DESCRIPTION OF DESIGNATED PROJECT)

B 部 (指定工程項目的說明)

Hereunder is the description of the designated project mentioned in Part A of this environmental permit (hereinafter referred to as "the Permit"):

下列為本環境許可證(下稱"許可證")A部所提述的指定工程項目的說明:

<p>Title of Designated Project 指定工程項目的名稱</p>	<p>Upgrading of Ting Kok Road Pumping Station No.5 [This designated project is hereinafter referred to as "the Project"] 汀角路5號泵房擴建工程 [這指定工程項目下稱"工程項目"]</p>
<p>Nature of Designated Project 指定工程項目的性質</p>	<p>Upgrading of the existing pumping station to cope with the sewerage needs of development along Ting Kok Road of Tai Po Industrial Estate up to Tai Mei Tuk 擴建現有汀角路5號泵房, 俾能應付由大埔工業邨至大尾督, 沿汀角路一帶發展對污水收集系統的需要</p>
<p>Location of Designated Project 指定工程項目的地點</p>	<p>Ting Kok Road (adjacent to the Tai Po East Fire Station). The location of the Project is shown in Figure 1 of this Permit. 汀角路 (毗鄰大埔東消防局)。工程項目的地點見載於本許可證夾附的圖一。</p>
<p>Scale and Scope of Designated Project 指定工程項目的規模和範圍</p>	<p>The design flow of the existing sewage pumping station is increased from 2,888 m³/day to 11,520 m³/day. The scope of works of the Project includes the following:</p> <ul style="list-style-type: none">i) To construct a new sewage pumping station of design capacity of 11,520 m³/day;ii) To install 350m long of 450mm diameter twin rising mains and 250m long of 600mm diameter gravity sewers extending to the Tai Po Sewage Treatment Works; andiii) To demolish the existing sewage pumping station upon commissioning of the new sewage pumping station. <p>污水泵房的設計流量將由每日 2,888 立方米增至 11,520 立方米。工程範圍包括:</p> <ul style="list-style-type: none">i) 興建一座每日設計流量為 11,520 立方米的污水泵房;ii) 安裝長 350 米直徑 450 毫米雙管式污水泵喉及長 250 米直徑 600 毫米無壓污水渠至大埔污水處理廠; 及iii) 在新泵房啓用後, 拆卸現有污水泵房的結構物。



PART C (PERMIT CONDITIONS)

I. General Conditions

- 1.1 The Permit Holder and any person working on the Project shall comply with all conditions set out in this Permit. Any non-compliance by any person may constitute a contravention of the Environmental Impact Assessment Ordinance (Cap.499) and may become the subject of appropriate action being taken under the Ordinance.
- 1.2 The Permit Holder shall ensure full compliance with all legislation from time to time in force including without limitation the Noise Control Ordinance (Cap. 400), Air Pollution Control Ordinance (Cap. 311), Water Pollution Control Ordinance (Cap. 358), Waste Disposal Ordinance (Cap. 354) and Country Parks Ordinance (Cap.208). This Permit does not of itself constitute any ground of defense against any proceedings instituted under any legislation or imply any approval under any legislation.
- 1.3 The Permit Holder shall make copies of this Permit together with all documents referred to in this Permit and the documents referred to in Part A of the Permit readily available at all times for inspection by the Director or his authorized officers at all sites/offices covered by this Permit. Any reference to the Permit shall include all documents referred to in the Permit and also the relevant documents in the Register.
- 1.4 The Permit Holder shall give a copy of this Permit to the person(s) in charge of the site(s) and ensure that such person(s) fully understands all conditions and all requirements incorporated in the Permit. The site(s) refers to site(s) of construction of the Project and shall mean the same hereafter.
- 1.5 The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrances/exits or at a convenient location for public's information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including any amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).
- 1.6 The Permit Holder shall construct the Project in accordance with the project description in Part B of this Permit.
- 1.7 The Permit Holder shall ensure that the Project is designed and constructed in accordance with the information and recommendations described in the Project Profile (Register No. PP-238/2005) in the EIA Ordinance Register, the information and mitigation measures described in this Permit and mitigation measures to be recommended under on-going surveillance and monitoring activities during all stages of the Project. Where recommendations referred to in the documents of the Register are not expressly referred to in this Permit, such recommendations are nevertheless to be implemented unless expressly excluded or impliedly amended in this Permit.
- 1.8 The Permit Holder shall notify the Director in writing the commencement date of construction of the Project no later than one month prior to the commencement of construction of the Project. The Permit Holder shall notify the Director in writing immediately if there is any change of the commencement date of the construction.
- 1.9 For the purpose of this Permit, "commencement of construction" does not include works related to site clearance and preparation, or other works as agreed by the Director.



2. Specific Conditions

- 2.1 Any pumping unit at the pumping station that is not functional properly shall be replaced immediately.
- 2.2 The Permit Holder shall keep and maintain in operation condition a standby pumping unit for the purpose of Condition 2.1.
- 2.3 The pumping station shall be provided with two duty and one standby pumps; one duty and one standby mechanical screens, and at least 1.5 hour emergency storage capacity. A telemetry system shall be provided to transmit signals showing irregularity or operation problem to the existing Tai Po Sewage Treatment Works.
- 2.4 The Permit Holder shall notify immediately the Director of Water Supplies of any sewage overflow from the pumping station into Tolo Harbour to avoid causing water quality impact on the Tai Po Salt Water Pumping Station.
- 2.5 The inlet chamber, screen chamber and wet well shall be located underground with cover, and enclosed by a reinforced concrete superstructure. Exhaust air from the pumping station shall be ventilated through a deodorizer capable of achieving at least 99% odour removal, prior to discharge at a direction away from the sensitive receivers at the southeastern and southwestern sides of the pumping station.
- 2.6 All pumps shall be enclosed inside the infrastructure of the pumping station.

Notes:

1. This Permit consists of three parts, namely, Part A (Main Permit), Part B (Description of Designated Project) and Part C (Permit Conditions). Any person relying on this permit should obtain independent legal advice on the legal implications under the Ordinance, and the following notes are for general information only.
2. If there is a breach of any conditions of this Permit, the Director or his authorized officer may, with the consent of the Secretary for the Environment, Transport and Works, order the cessation of associated work until the remedial action is taken in respect of the resultant environmental damage, and in that case the Permit Holder shall not carry out any associated works without the permission of the Director or his authorized officer.
3. The Permit Holder may apply under Section 13 of the Environmental Impact Assessment Ordinance (the "Ordinance") to the Director for a variation of the conditions of this Permit. The Permit Holder shall replace the original permit displayed on the Project site by the amended permit.
4. A person who assumes the responsibility for the whole or a part of the Project may, before he assumes responsibility of the Project, apply under Section 12 of the Ordinance to the Director for a further environmental permit.
5. Under Section 14 of the Ordinance, the Director may with the consent of the Secretary for the Environment, Transport and Works, suspend, vary or cancel this Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site.
6. If this Permit is cancelled or surrendered during construction of the Project, another environmental permit must be obtained under the Ordinance before the Project could be continued. It is an offence under Section 26 (1) of the Ordinance to construct a designated project listed in Schedule 2 of the Ordinance without a valid environmental permit.

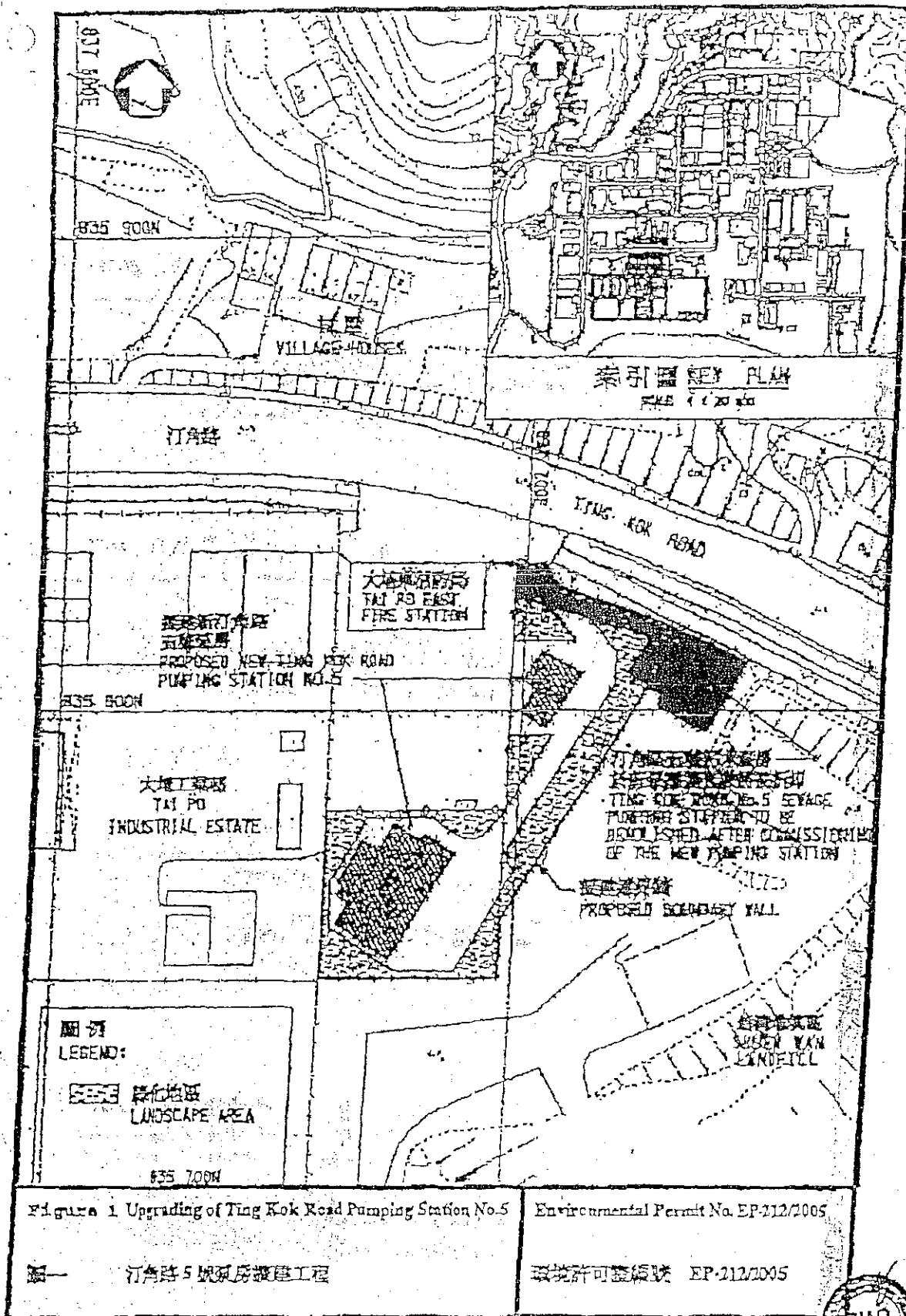


7. Any person who constructs the Project contrary to the conditions in the Permit, and is convicted of an offence under the Ordinance, is liable:
- (i) on a first conviction on indictment to a fine of \$2 million and to imprisonment for 6 months;
 - (ii) on a second or subsequent conviction on indictment to a fine of \$5 million and to imprisonment for 2 years;
 - (iii) on a first summary conviction to a fine at level 6 and to imprisonment for 6 months;
 - (iv) on a second or subsequent summary conviction to a fine of \$1 million and to imprisonment for 1 year; and
 - (v) in any case where the offence is of a continuing nature, the court or magistrate may impose a fine of \$10,000 for each day on which he is satisfied the offence continued.
8. The Permit Holder may appeal against any condition of this Permit under Section 17 of the Ordinance within 30 days of receipt of this Permit.
9. The Notes are for general reference only and that the Permit Holder should refer to the EIA Ordinance for details and seek independent legal advice.



Environmental Permit No. EP-212/2005

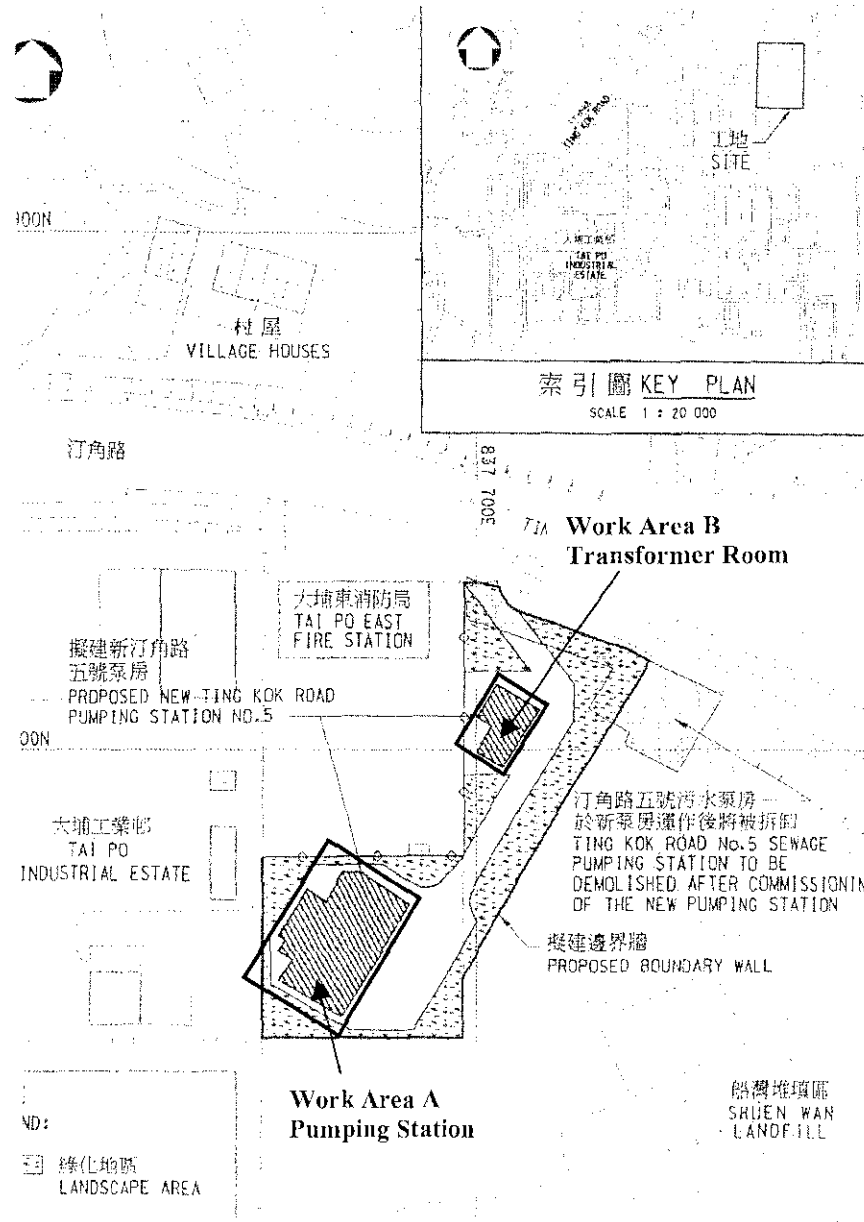
環境許可證編號 EP-212/2005



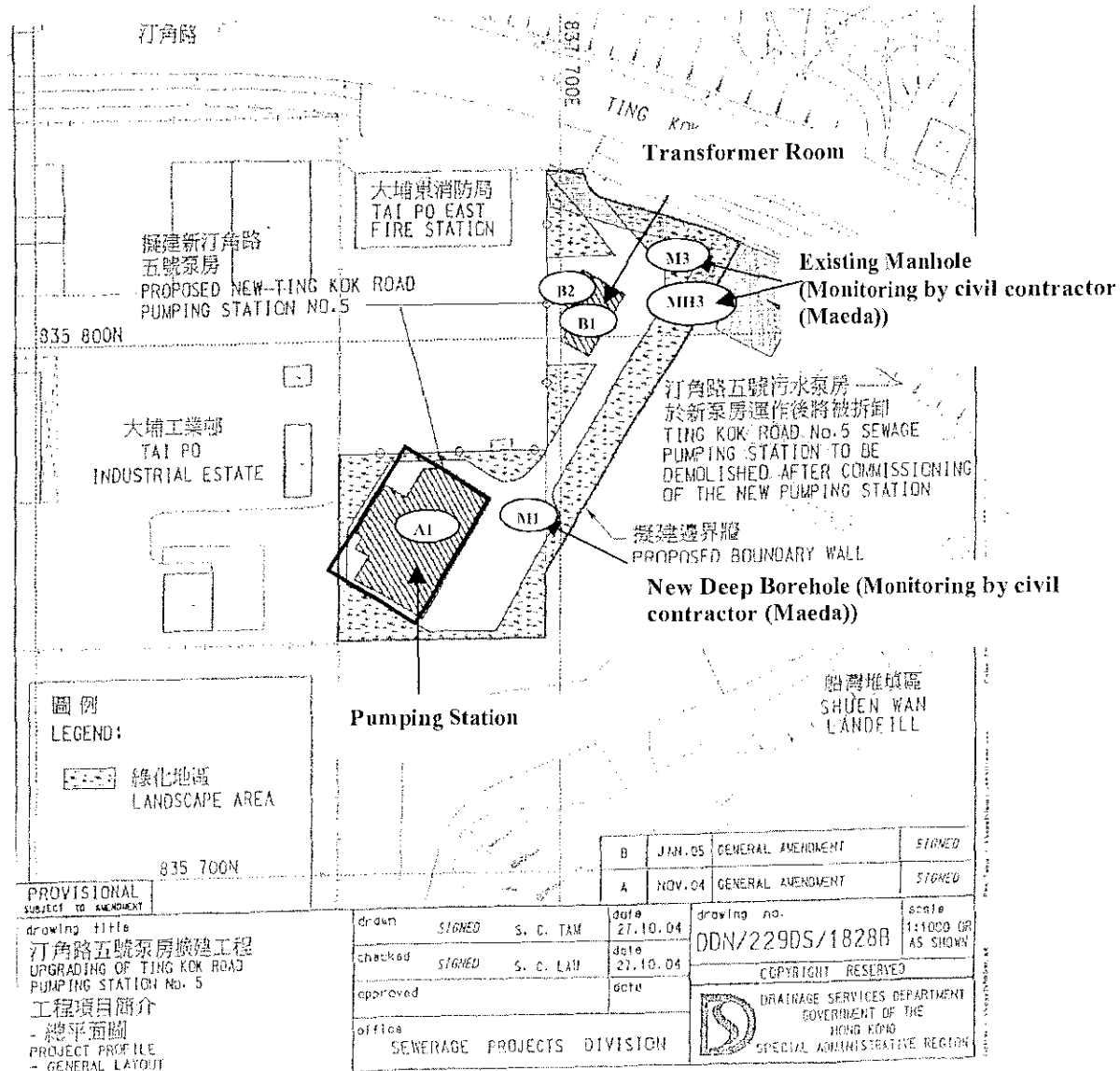
Appendix 7

Site Layout of Work Areas and Landfill Gas Monitoring Results

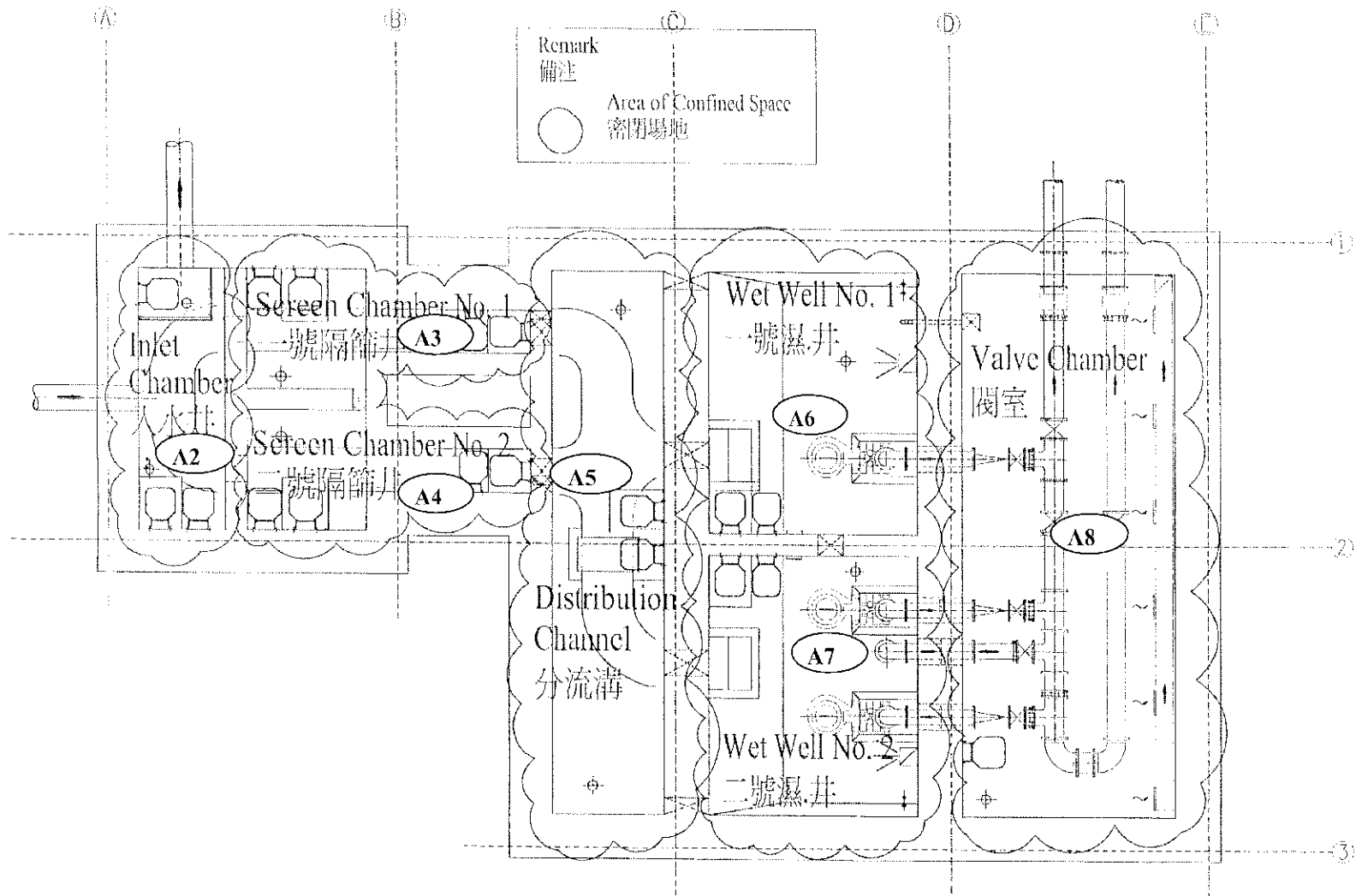
Upgrading Ting Kok Road Pumping Station No. 5 – E&M Works
EM&A Site Inspection – June 2007 - April 2008
Site Layout



Upgrading Ting Kok Road Pumping Station No. 5 – E&M Works Landfill Gas Monitoring – June 2007 – April 2008 Site Layout



Upgrading Ting Kok Road Pumping Station No. 5 – E&M Works
Landfill Gas Monitoring – June 2007 – January 2008
Pumping Station Layout - Confined Space



Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 6 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	6 June 2007	14:40	Overcast	79.3	0.0	0.0	20.6	32.0	
B1	6 June 2007	14: 43	Overcast	79.3	0.0	0.0	20.6	32.0	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 14 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	14 June 2007	13:54	Rain	79.3	0.0	0.0	20.6	27	
B1	14 June 2007	14: 00	Rain	79.3	0.0	0.0	20.6	27	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 21 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balauce gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	21 June 2007	9:00	Sunny	79.3	0.0	0.0	20.6	30	
B2	21 June 2007	9:15	Sunny	79.4	0.0	0.0	20.5	31	
B1	21 June 2007	13:00	Sunny	79.4	0.0	0.0	20.6	31	
B2	21 June 2007	13:05	Sunny	79.4	0.0	0.0	20.6	31	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 22 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balauce gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	22 June 2007	9:00	Sunny	79.4	0.0	0.0	20.5	31	
B2	22 June 2007	9:15	Sunny	79.3	0.0	0.0	20.6	31	
B1	22 June 2007	13:00	Sunny	79.4	0.0	0.0	20.5	31	
B2	22 June 2007	13:05	Sunny	79.4	0.0	0.0	20.5	31	

Field Technician: [Signature]
 (Site Agent)

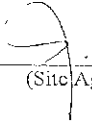
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Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 23 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	23 June 2007	9:00	Sunny	79.3	0.0	0.0	20.6	32	
B2	23 June 2007	9:15	Sunny	79.3	0.0	0.0	20.6	32	
B1	23 June 2007	13:00	Sunny	79.3	0.0	0.0	20.5	33	
B2	23 June 2007	13:05	Sunny	79.3	0.0	0.0	20.5	33	

Field Technician: 
 (Site Agent)

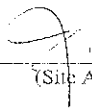
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Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 25 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	25 June 2007	9:00	Sunny	79.4	0.0	0.0	20.5	31	
B2	25 June 2007	9:10	Sunny	79.4	0.0	0.0	20.5	31	
B1	25 June 2007	13:00	Sunny	79.3	0.0	0.0	20.6	32	
B2	25 June 2007	13:07	Sunny	79.3	0.0	0.0	20.6	32	

Field Technician: 
 (Site Agent)

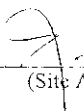
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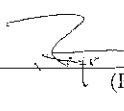
Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 26 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	26 June 2007	9:00	Sunny	79.4	0.0	0.0	20.5	30	
B2	26 June 2007	9:10	Sunny	79.3	0.0	0.0	20.6	30	
B1	26 June 2007	13:00	Sunny	79.4	0.0	0.0	20.5	32	
B2	26 June 2007	13:08	Sunny	79.3	0.0	0.0	20.6	32	

Field Technician: 
 (Site Agent)

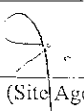
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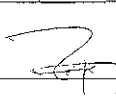
Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 27 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	27 June 2007	9:00	Rain	79.4	0.0	0.0	20.6	29	
B2	27 June 2007	9:06	Rain	79.4	0.0	0.0	20.6	29	
B1	27 June 2007	12:57	Rain	79.3	0.0	0.0	20.5	30	
B2	27 June 2007	13:05	Rain	79.3	0.0	0.0	20.6	30	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 28 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	28 June 2007	8:58	Rain	79.4	0.0	0.0	20.6	29	
B2	28 June 2007	9:07	Rain	79.4	0.0	0.0	20.6	29	
B1	28 June 2007	13:03	Rain	79.4	0.0	0.0	20.6	29	
B2	28 June 2007	13:09	Rain	79.4	0.0	0.0	20.6	29	

Field Technician: 
 (Site Agent)


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Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 29 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	29 June 2007	9:01	Rain	79.3	0.0	0.0	20.5	29	
B2	29 June 2007	9:06	Rain	79.4	0.0	0.0	20.6	29	
B1	29 June 2007	13:00	Rain	79.4	0.0	0.0	20.6	29	
B2	29 June 2007	13:05	Rain	79.3	0.0	0.0	20.5	29	

Field Technician: 
 (Site Agent)

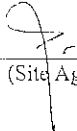
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 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 30 June 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	30 June 2007	9:00	Rain	79.3	0.0	0.0	20.5	29	
B2	30 June 2007	9:05	Rain	79.3	0.0	0.0	20.5	29	
B1	30 June 2007	13:01	Rain	79.4	0.0	0.0	20.6	29	
B2	30 June 2007	13:07	Rain	79.3	0.0	0.0	20.5	29	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

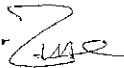
Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 3 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
B1	3 July 2007	8:58	Rain	79.3	0.0	0.0	20.6	29	
B2	3 July 2007	9:02	Rain	79.3	0.0	0.0	20.6	29	
B1	3 July 2007	13:04	Overcast	79.3	0.0	0.0	20.6	30	
B2	3 July 2007	13:09	Overcast	79.4	0.0	0.0	20.5	30	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 6 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	6 July 2007	8:58	Overcast	79.3	0.0	0.0	20.6	30	
A1	6 July 2007	12:57	Sunny	79.3	0.0	0.0	20.6	32	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 7 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	7 July 2007	9:03	Fine	79.4	0.0	0.0	20.5	29	
A1	7 July 2007	13:02	Fine	79.3	0.0	0.0	20.6	31	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 9 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	9 July 2007	8:58	Sunny	79.3	0.0	0.0	20.6	31	
A1	9 July 2007	13:01	Sunny	79.3	0.0	0.0	20.6	33	

Field Technician: g
 (Site Agent)

Checked by: Z
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 10 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	10 July 2007	8:56	Sunny	79.3	0.0	0.0	20.6	31	
B1	10 July 2007	9:06	Sunny	79.4	0.0	0.0	20.5	31	
B2	10 July 2007	9:10	Sunny	79.3	0.0	0.0	20.6	31	
A1	10 July 2007	13:03	Sunny	79.3	0.0	0.0	20.6	34	
B1	10 July 2007	13:09	Sunny	79.4	0.0	0.0	20.5	34	
B2	10 July 2007	13:14	Sunny	79.3	0.0	0.0	20.6	34	

Field Technician: g
 (Site Agent)


Checked by: Z
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 13 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	13 July 2007	8:57	Sunny	79.4	0.0	0.0	20.5	32	
A1	13 July 2007	13:01	Sunny	79.3	0.0	0.0	20.6	34	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 14 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	14 July 2007	9:02	Sunny	79.3	0.0	0.0	20.6	33	
A1	14 July 2007	13:03	Sunny	79.4	0.0	0.0	20.5	35	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 16 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	16 July 2007	9:01	Sunny	79.3	0.0	0.0	20.6	33	
A1	16 July 2007	13:00	Sunny	79.3	0.0	0.0	20.6	34	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 17 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	17 July 2007	9:00	Sunny	79.3	0.0	0.0	20.6	32	
A1	17 July 2007	13:03	Sunny	79.3	0.0	0.0	20.6	34	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 20 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)		
A1	20 July 2007	9:01	Sunny	79.3	0.0	0.0	20.6	31	
A1	20 July 2007	13:07	Sunny	79.4	0.0	0.0	20.5	33	

Field Technician: *(Signature)*
 (Site Agent)

Checked by: *(Signature)*
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 21 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)		
A1	21 July 2007	8:56	Sunny	79.3	0.0	0.0	20.6	33	
A1	21 July 2007	13:10	Sunny	79.4	0.0	0.0	20.5	34	

Field Technician: *(Signature)*
 (Site Agent)

Checked by: *(Signature)*
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 23 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	23 July 2007	9:06	Sunny	79.3	0.0	0.0	20.6	32	
A1	23 July 2007	13:02	Sunny	79.4	0.0	0.0	20.5	33	

Field Technician: *g*
 (Site Agent)

Checked by: *[Signature]*
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 24 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	24 July 2007	9:00	Sunny	79.4	0.0	0.0	20.5	32	
A1	24 July 2007	13:01	Sunny	79.4	0.0	0.0	20.5	34	

Field Technician: *g*
 (Site Agent)


Checked by: *[Signature]*
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 27 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	27 July 2007	9:01	Sunny	79.3	0.0	0.0	20.6	32	
A1	27 July 2007	13:04	Sunny	79.3	0.0	0.0	20.6	33	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

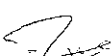
Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 28 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	28 July 2007	9:00	Sunny	79.3	0.0	0.0	20.6	33	
A1	28 July 2007	13:03	Sunny	79.3	0.0	0.0	20.6	33	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 30 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	30 July 2007	8:57	Sunny	79.3	0.0	0.0	20.6	32	
A1	30 July 2007	13:01	Sunny	79.3	0.0	0.0	20.6	33	

Field Technician: g
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 31 July 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	31 July 2007	8:58	Sunny	79.3	0.0	0.0	20.6	32	
A1	31 July 2007	13:00	Sunny	79.3	0.0	0.0	20.6	32	

Field Technician: g
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 3 August 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	3 Aug 2007	8:58	Sunny	79.3	0.0	0.0	20.6	29	
A2	3 Aug 2007	9:11	Sunny	79.4	0.0	0.0	20.5	29	Confined space
A1	3 Aug 2007	12:49	Sunny	79.3	0.0	0.0	20.6	30	
A2	3 Aug 2007	12:55	Sunny	79.4	0.0	0.0	20.5	30	Confined space

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 4 August 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	4 Aug 2007	8:58	Sunny	79.3	0.0	0.0	20.6	29	
A1	4 Aug 2007	13:04	Sunny	79.3	0.0	0.0	20.6	30	

Field Technician: [Signature]
 (Site Agent)


Checked by: [Signature]
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 6 August 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)			
A1	6 Aug 2007	8:43	Rain	79.3	0.0	0.0	20.6	28		
A2	6 Aug 2007	8:57	Rain	79.4	0.0	0.0	20.5	28	Confined space	
A1	6 Aug 2007	12:48	Sunny	79.3	0.0	0.0	20.6	30		
A2	6 Aug 2007	12:58	Sunny	79.4	0.0	0.0	20.5	30	Confined space	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 7 August 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)			
A1	7 Aug 2007	9:06	Fine	79.3	0.0	0.0	20.6	27		
A2	7 Aug 2007	9:20	Fine	79.4	0.0	0.0	20.5	27	Confined space	
A4	7 Aug 2007	9:27	Fine	79.4	0.0	0.0	20.5	27	Confined space	
B1	7 Aug 2007	9:35	Fine	79.3	0.0	0.0	20.6	27		
A1	7 Aug 2007	12:50	Overcast	79.3	0.0	0.0	20.6	27		
A2	7 Aug 2007	12:58	Overcast	79.4	0.0	0.0	20.5	27	Confined space	
A4	7 Aug 2007	13:07	Overcast	79.4	0.0	0.0	20.5	27	Confined space	
B1	7 Aug 2007	13:12	Overcast	79.3	0.0	0.0	20.6	27		

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 8 August 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	8 Aug 2007	8:57	Overcast (T1)	79.3	0.0	0.0	20.6	27	
A2	8 Aug 2007	9:06	Overcast (T1)	79.4	0.0	0.0	20.5	27	Confined space
A4	8 Aug 2007	9:12	Overcast (T1)	79.4	0.0	0.0	20.5	27	Confined space
A1	8 Aug 2007	12:42	Rain (T1)	79.3	0.0	0.0	20.6	27	
A2	8 Aug 2007	12:50	Rain (T1)	79.4	0.0	0.0	20.5	27	Confined space
A4	8 Aug 2007	12:57	Rain (T1)	79.4	0.0	0.0	20.5	27	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 9 August 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	9 Aug 2007	9:14	Overcast	79.3	0.0	0.0	20.6	26	
A2	9 Aug 2007	9:20	Overcast	79.4	0.0	0.0	20.5	26	Confined space
A4	9 Aug 2007	9:29	Overcast	79.4	0.0	0.0	20.5	26	Confined space
A5	9 Aug 2007	9:36	Overcast	79.4	0.0	0.0	20.5	26	Confined space
A1	9 Aug 2007	13:23	Overcast	79.3	0.0	0.0	20.6	26	
A2	9 Aug 2007	13:30	Overcast	79.4	0.0	0.0	20.5	26	Confined space
A4	9 Aug 2007	13:36	Overcast	79.4	0.0	0.0	20.5	26	Confined space
A5	9 Aug 2007	13:43	Overcast	79.4	0.0	0.0	20.5	26	Confined space

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 14 August 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	14 Aug 2007	12:43	Rain	79.3	0.0	0.0	20.6	26	
A2	14 Aug 2007	12:48	Rain	79.3	0.0	0.0	20.6	26	Confined space
A3	14 Aug 2007	12:54	Rain	79.4	0.0	0.0	20.5	26	Confined space
A5	14 Aug 2007	13:00	Rain	79.4	0.0	0.0	20.5	26	Confined space
A6	14 Aug 2007	13:08	Rain	79.4	0.0	0.0	20.5	26	Confined space
A8	14 Aug 2007	13:13	Rain	79.4	0.0	0.0	20.5	26	Confined space
B1	14 Aug 2007	13:20	Rain	79.3	0.0	0.0	20.6	26	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 15 August 2007

Sampling equipment used:	Dates calibrated
Geotechnical Instrument	22 / 08 / 2006
GA 2000	
Serial No.: GA 08277	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	15 Aug 2007	8:51	Rain	79.3	0.0	0.0	20.6	26	
A2	15 Aug 2007	8:57	Rain	79.3	0.0	0.0	20.6	26	Confined space
A5	15 Aug 2007	9:02	Rain	79.4	0.0	0.0	20.5	26	Confined space
A8	15 Aug 2007	9:07	Rain	79.4	0.0	0.0	20.5	26	Confined space
B1	15 Aug 2007	9:15	Rain	79.3	0.0	0.0	20.6	26	
A1	15 Aug 2007	12:43	Rain	79.3	0.0	0.0	20.6	26	
A2	15 Aug 2007	12:46	Rain	79.3	0.0	0.0	20.6	26	Confined space
A5	15 Aug 2007	12:52	Rain	79.4	0.0	0.0	20.5	26	Confined space
A8	15 Aug 2007	12:57	Rain	79.4	0.0	0.0	20.5	26	Confined space
B1	15 Aug 2007	13:06	Rain	79.3	0.0	0.0	20.6	26	

Field Technician: [Signature]
 (Site Agent)


Checked by: [Signature]
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 16 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	16 Aug 2007	8:59	Rain	79.3	0.0	0.0	20.6	25	
A2	16 Aug 2007	9:05	Rain	79.3	0.0	0.0	20.6	25	Confined space
A5	16 Aug 2007	9:11	Rain	79.4	0.0	0.0	20.5	25	Confined space
A8	16 Aug 2007	9:17	Rain	79.4	0.0	0.0	20.5	25	Confined space
B1	16 Aug 2007	9:23	Rain	79.3	0.0	0.0	20.6	26	
A1	16 Aug 2007	12:50	Rain	79.3	0.0	0.0	20.6	25	
A2	16 Aug 2007	12:54	Rain	79.3	0.0	0.0	20.6	25	Confined space
A5	16 Aug 2007	13:00	Rain	79.4	0.0	0.0	20.5	25	Confined space
A8	16 Aug 2007	13:05	Rain	79.3	0.0	0.0	20.6	25	Confined space
B1	16 Aug 2007	13:12	Rain	79.3	0.0	0.0	20.6	26	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 17 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	17 Aug 2007	8:51	Sunny	79.3	0.0	0.0	20.6	26	
A2	17 Aug 2007	8:57	Sunny	79.3	0.0	0.0	20.6	26	Confined space
A5	17 Aug 2007	9:02	Sunny	79.4	0.0	0.0	20.5	26	Confined space
A8	17 Aug 2007	9:08	Sunny	79.4	0.0	0.0	20.5	26	Confined space
B1	17 Aug 2007	9:16	Sunny	79.3	0.0	0.0	20.6	26	
A1	17 Aug 2007	12:46	Sunny	79.3	0.0	0.0	20.6	26	
A2	17 Aug 2007	12:52	Sunny	79.3	0.0	0.0	20.6	26	Confined space
A5	17 Aug 2007	13:57	Sunny	79.4	0.0	0.0	20.5	26	Confined space
A8	17 Aug 2007	13:03	Sunny	79.3	0.0	0.0	20.6	26	Confined space
B1	17 Aug 2007	13:10	Sunny	79.3	0.0	0.0	20.6	26	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 18 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	18 Aug 2007	8:58	Rain	79.3	0.0	0.0	20.6	25	
A1	18 Aug 2007	13:04	Rain	79.3	0.0	0.0	20.6	25	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 20 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	20 Aug 2007	9:08	Overcast	79.3	0.0	0.0	20.6	26	
A2	20 Aug 2007	9:15	Overcast	79.4	0.0	0.0	20.5	26	Confined space
A1	20 Aug 2007	12:50	Overcast	79.3	0.0	0.0	20.6	26	
A2	20 Aug 2007	12:56	Overcast	79.3	0.0	0.0	20.6	26	Confined space

Field Technician: [Signature]
 (Site Agent)


Checked by: [Signature]
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 21 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	21 Aug 2007	9:07	Rain	79.3	0.0	0.0	20.6	27	
A2	21 Aug 2007	9:13	Rain	79.4	0.0	0.0	20.5	27	Confined space
A1	21 Aug 2007	13:00	Overcast	79.3	0.0	0.0	20.6	28	
A2	21 Aug 2007	13:08	Overcast	79.3	0.0	0.0	20.6	28	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 22 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	22 Aug 2007	9:18	Overcast	79.3	0.0	0.0	20.6	26	
A2	22 Aug 2007	9:24	Overcast	79.3	0.0	0.0	20.6	26	Confined space
A5	22 Aug 2007	9:29	Overcast	79.3	0.0	0.0	20.6	26	Confined space
A8	22 Aug 2007	9:35	Overcast	79.4	0.0	0.0	20.5	26	Confined space
A1	22 Aug 2007	10: 00	Overcast	79.1	0.0	0.0	20.9	26	Hot work
A5	22 Aug 2007	10:43	Overcast	79.2	0.0	0.0	20.7	26	Confined space
A1	22 Aug 2007	12:46	Overcast	79.2	0.0	0.0	20.7	26	
A2	22 Aug 2007	12:51	Overcast	79.3	0.0	0.0	20.6	26	Confined space
A8	22 Aug 2007	12:57	Overcast	79.3	0.0	0.0	20.6	26	Confined space
A8	22 Aug 2007	15::27	Overcast	79.3	0.0	0.0	20.6	26	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
Date of measurement: 25 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark
A1	25 Aug 2007	9:01	Sunny	79.3	0.0	0.0	20.6	28	
A1	25 Aug 2007	13:00	Sunny	79.2	0.0	0.0	20.7	29	

Field Technician: 
(Site Agent)


Checked by: 
(RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
Date of measurement: 27 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark
A1	27 Aug 2007	8:40	Sunny	79.3	0.0	0.0	20.6	26	
A2	27 Aug 2007	8:46	Sunny	79.3	0.0	0.0	20.6	26	Confined space
A5	27 Aug 2007	8:52	Sunny	79.4	0.0	0.0	20.5	26	Confined space
A1	27 Aug 2007	12:37	Sunny	79.3	0.0	0.0	20.6	26	
A2	27 Aug 2007	12:41	Sunny	79.3	0.0	0.0	20.6	26	Confined space
A5	27 Aug 2007	12:48	Sunny	79.3	0.0	0.0	20.6	26	Confined space
A8	27 Aug 2007	16:47	Sunny	79.4	0.0	0.0	20.5	26	Confined space

Field Technician: 
(Site Agent)

Checked by: 
(RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 28 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	28Aug 2007	8:47	Sunny	79.3	0.0	0.0	20.6	27	
A2	28Aug 2007	8:53	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A5	28Aug 2007	8:58	Sunny	79.4	0.0	0.0	20.5	27	Confined space
A1	28Aug 2007	12:47	Sunny	79.3	0.0	0.0	20.6	27	
A2	28Aug 2007	12:53	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A5	28Aug 2007	12:58	Sunny	79.4	0.0	0.0	20.5	27	Confined space

Field Technician:
 (Site Agent)

Checked by:
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 29 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	29 Aug 2007	8:45	Sunny	79.3	0.0	0.0	20.6	27	
A2	29 Aug 2007	8:51	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A5	29 Aug 2007	8:57	Sunny	79.4	0.0	0.0	20.5	27	Confined space
A1	29 Aug 2007	12:48	Sunny	79.3	0.0	0.0	20.6	28	
A2	29 Aug 2007	12:52	Sunny	79.3	0.0	0.0	20.6	28	Confined space
A5	29 Aug 2007	12:59	Sunny	79.3	0.0	0.0	20.6	28	Confined space

Field Technician:
 (Site Agent)

Checked by:
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 30 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	30 Aug 2007	8:44	Sunny	79.3	0.0	0.0	20.6	28	
A2	30 Aug 2007	8:50	Sunny	79.3	0.0	0.0	20.6	28	Confined space
A5	30 Aug 2007	8:57	Sunny	79.4	0.0	0.0	20.5	28	Confined space
A1	30 Aug 2007	12:53	Sunny	79.3	0.0	0.0	20.6	28	
A2	30 Aug 2007	12:57	Sunny	79.4	0.0	0.0	20.5	28	Confined space
A5	30 Aug 2007	13:02	Sunny	79.4	0.0	0.0	20.5	28	Confined space

Field Technician: 9
 (Site Agent)

Checked by:
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 31 August 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	31 Aug 2007	8:41	Sunny	79.3	0.0	0.0	20.6	27	
A2	31 Aug 2007	8:46	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A5	31 Aug 2007	8:52	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A6	31 Aug 2007	8:57	Sunny	79.4	0.0	0.0	20.5	27	Confined space
A1	31 Aug 2007	12:39	Sunny	79.3	0.0	0.0	20.6	28	
A2	31 Aug 2007	12:45	Sunny	79.3	0.0	0.0	20.6	28	Confined space
A5	31 Aug 2007	12:51	Sunny	79.4	0.0	0.0	20.5	28	Confined space
A6	31 Aug 2007	12:57	Sunny	79.3	0.0	0.0	20.6	28	Confined space

Field Technician: 9
 (Site Agent)


Checked by:
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DL2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 1 September 2007

Sampling equipment used:	Duques calibrated
Gas Data:	27/07/2007
Model:	GFM410 Landfill
Serial No.:	10239

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	1 Sep 2007	9:02	Sunny	79.2	0.0	0.0	20.7	30	
A1	1 Sep 2007	13:01	Sunny	79.2	0.0	0.0	20.5	31	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DL2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 3 September 2007

Sampling equipment used:	Duques calibrated
Gas Data:	27/07/2007
Model:	GFM410 Landfill
Serial No.:	10239

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	3 Sep 2007	8:57	Sunny	79.2	0.0	0.0	20.7	30	
A2	3 Sep 2007	9:00	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A1	3 Sep 2007	12:56	Sunny	79.2	0.0	0.0	20.7	31	
A2	3 Sep 2007	13:00	Sunny	79.3	0.0	0.0	20.6	31	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04 Ting Kok Road Pumping Station No. 5
 Date of measurement: 4 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GFM110 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	4 Sep 2007	8:48	Sunny	79.2	0.0	0.0	20.7	29	
A2	4 Sep 2007	8:50	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A3	4 Sep 2007	8:51	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A5	4 Sep 2007	8:57	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A8	4 Sep 2007	9:00	Sunny	79.2	0.0	0.0	20.7	29	Confined space
A1	4 Sep 2007	12:46	Rain	79.2	0.0	0.0	20.7	30	
A2	4 Sep 2007	2:50	Rain	79.2	0.0	0.0	20.7	30	Confined space
A3	4 Sep 2007	12:53	Rain	79.2	0.0	0.0	20.7	30	Confined space
A5	4 Sep 2007	12:56	Rain	79.2	0.0	0.0	20.7	30	Confined space
A8	4 Sep 2007	13:00	Rain	79.2	0.0	0.0	20.7	30	Confined space
A1	4 Sep 2007	14:57	Overcast	79.0	0.0	0.0	20.9	30	Hot Work

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04 Ting Kok Road Pumping Station No. 5
 Date of measurement: 5 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GFM110 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	5 Sep 2007	8:49	Sunny	79.2	0.0	0.0	20.7	29	
A2	5 Sep 2007	8:52	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A3	5 Sep 2007	8:56	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A5	5 Sep 2007	8:59	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A1	5 Sep 2007	12:49	Sunny	79.2	0.0	0.0	20.7	30	
A2	5 Sep 2007	12:53	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A3	5 Sep 2007	12:56	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A5	5 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	30	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DF/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 6 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GFM4101 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	6 Sep 2007	8:50	Sunny	79.3	0.0	0.0	20.6	29	
A2	6 Sep 2007	8:53	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A4	6 Sep 2007	8:57	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A5	6 Sep 2007	9:00	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A1	6 Sep 2007	12:47	Sunny	79.2	0.0	0.0	20.7	30	
A2	6 Sep 2007	12:52	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A4	6 Sep 2007	12:56	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A5	6 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	30	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DF/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 7 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GFM4101 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	7 Sep 2007	8:51	Sunny	79.2	0.0	0.0	20.7	30	
A2	7 Sep 2007	8:54	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A4	7 Sep 2007	8:57	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A5	7 Sep 2007	9:00	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A1	7 Sep 2007	12:50	Sunny	79.2	0.0	0.0	20.7	31	
A2	7 Sep 2007	12:54	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A4	7 Sep 2007	12:57	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A5	7 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	31	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04 - Ting Kok Road Pumping Station No. 5
 Date of measurement: 19 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27 / 07 / 2007
Model GFM-110 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	19 Sep 2007	8:50	Sunny	79.2	0.0	0.0	20.7	30	
A3	19 Sep 2007	8:53	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A5	19 Sep 2007	8:57	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A6	19 Sep 2007	9:00	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A1	19 Sep 2007	12:50	Sunny	79.2	0.0	0.0	20.7	30	
A3	19 Sep 2007	12:53	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A5	19 Sep 2007	12:56	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A6	19 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	30	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04 - Ting Kok Road Pumping Station No. 5
 Date of measurement: 11 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27 / 07 / 2007
Model GFM-110 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	11 Sep 2007	8:49	Sunny	79.3	0.0	0.0	20.6	30	
A3	11 Sep 2007	8:53	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A5	11 Sep 2007	8:56	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A6	11 Sep 2007	9:00	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A1	11 Sep 2007	12:49	Sunny	79.2	0.0	0.0	20.7	31	
A3	11 Sep 2007	12:53	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A5	11 Sep 2007	12:57	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A6	11 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	31	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 12 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27 / 07 / 2007
Model: GFM-10 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	12 Sep 2007	8:48	Sunny	79.2	0.0	0.0	20.7	30	
A1	12 Sep 2007	8:52	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A5	12 Sep 2007	8:55	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A6	12 Sep 2007	8:58	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A1	12 Sep 2007	12:49	Sunny	79.2	0.0	0.0	20.7	31	
A3	12 Sep 2007	12:52	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A5	12 Sep 2007	12:56	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A6	12 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	31	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 13 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27 / 07 / 2007
Model: GFM430 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	13 Sep 2007	8:49	Sunny	79.2	0.0	0.0	20.7	30	
A3	13 Sep 2007	8:53	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A5	13 Sep 2007	8:56	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A6	13 Sep 2007	9:00	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A1	13 Sep 2007	12:48	Sunny	79.2	0.0	0.0	20.7	31	
A3	13 Sep 2007	12:52	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A5	13 Sep 2007	12:56	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A6	13 Sep 2007	12:59	Sunny	79.3	0.0	0.0	20.6	30	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DL/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 14 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	14 Sep 2007	8:53	Sunny	79.2	0.0	0.0	20.7	30	
A3	14 Sep 2007	8:57	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A1	14 Sep 2007	12:54	Sunny	79.2	0.0	0.0	20.7	31	
A3	14 Sep 2007	12:58	Sunny	79.2	0.0	0.0	20.7	31	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DL/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 17 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	17 Sep 2007	8:58	Sunny	79.2	0.0	0.0	20.7	31	
A3	17 Sep 2007	11:00	Sunny	79.2	0.0	0.0	20.7	31	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 18 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data:	27/07/2007
Model: GP-M4 01 landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	18 Sep 2007	8:52	Sunny	79.3	0.0	0.0	20.6	31	
A4	18 Sep 2007	8:55	Sunny	79.3	0.0	0.0	20.6	31	Confined space
A6	18 Sep 2007	8:59	Sunny	79.3	0.0	0.0	20.6	31	Confined space
A1	18 Sep 2007	12:52	Sunny	79.2	0.0	0.0	20.7	32	
A4	18 Sep 2007	12:56	Sunny	79.3	0.0	0.0	20.6	32	Confined space
A6	18 Sep 2007	13:00	Sunny	79.3	0.0	0.0	20.6	32	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 19 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data:	27/07/2007
Model: GP-M410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	19 Sep 2007	8:58	Sunny	79.3	0.0	0.0	20.6	30	
A1	19 Sep 2007	12:57	Sunny	79.2	0.0	0.0	20.7	30	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 20 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GF-M410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	20 Sep 2007	8:59	Sunny	79.3	0.0	0.0	20.6	30	
A1	20 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	31	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 21 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GF-M410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	21 Sep 2007	9:00	Sunny	79.2	0.0	0.0	20.7	30	
A1	21 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	31	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 24 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes				Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)		
A1	24 Sep 2007	8:55	Rain	79.2	0.0	0.0	20.7	28	
A6	24 Sep 2007	8:59	Rain	79.2	0.0	0.0	20.7	28	covered space
A1	24 Sep 2007	12:57	Rain	79.2	0.0	0.0	20.7	28	
A6	24 Sep 2007	13:00	Rain	79.2	0.0	0.0	20.7	28	Covered space

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 25 September 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes				Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)		
A1	25 Sep 2007	8:57	Rain	79.2	0.0	0.0	20.7	29	
A8	25 Sep 2007	9:00	Rain	79.2	0.0	0.0	20.7	29	Covered space
A1	25 Sep 2007	12:54	Overcast	79.2	0.0	0.0	20.7	30	
A8	25 Sep 2007	12:58	Overcast	79.2	0.0	0.0	20.7	30	Covered space

Field Technician: [Signature]
 (Site Agent)


Checked by: [Signature]
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005-04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 27 September 2007

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model GFM-10 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	27 Sep 2007	8:57	Sunny	79.2	0.0	0.0	20.7	30	
A2	27 Sep 2007	9:00	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A1	27 Sep 2007	12:55	Sunny	79.2	0.0	0.0	20.7	31	
A2	27 Sep 2007	13:00	Sunny	79.2	0.0	0.0	20.7	31	Confined space

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005-04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 28 September 2007

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model GFM-10 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	28 Sep 2007	8:56	Sunny	79.3	0.0	0.0	20.6	30	
A8	28 Sep 2007	9:00	Sunny	79.4	0.0	0.0	20.5	30	Confined space
A1	28 Sep 2007	12:53	Sunny	79.3	0.0	0.0	20.6	30	
A8	28 Sep 2007	12:57	Sunny	79.3	0.0	0.0	20.6	30	Confined space

Field Technician: 
 (Site Agent)

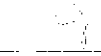
Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005 04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 2 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GF410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	2 Oct 2007	8:53	Rain	79.2	0.0	0.0	20.7	28	
A8	2 Oct 2007	8:57	Rain	79.2	0.0	0.0	20.7	28	Confined space
A1	2 Oct 2007	12:52	Rain	79.2	0.0	0.0	20.7	29	
A8	2 Oct 2007	12:58	Rain	79.2	0.0	0.0	20.7	29	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 3 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GF410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	3 Oct 2007	8:44	Rain	79.3	0.0	0.0	20.6	27	Confined space
A6	3 Oct 2007	8:48	Rain	79.3	0.0	0.0	20.6	27	Confined space
A7	3 Oct 2007	8:51	Rain	79.2	0.0	0.0	20.7	27	Confined space
A8	3 Oct 2007	8:57	Rain	79.3	0.0	0.0	20.6	27	Confined space
A1	3 Oct 2007	12:50	Overcast	79.2	0.0	0.0	20.7	28	
A6	3 Oct 2007	12:53	Overcast	79.2	0.0	0.0	20.7	28	Confined space
A7	3 Oct 2007	12:56	Overcast	79.2	0.0	0.0	20.7	28	Confined space
A8	3 Oct 2007	12:59	Overcast	79.2	0.0	0.0	20.7	28	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 4 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GF/M410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Particular on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	4 Oct 2007	8:55	Fine	79.2	0.0	0.0	20.7	29	
A8	4 Oct 2007	8:58	Fine	79.2	0.0	0.0	20.7	29	Confined space
A1	4 Oct 2007	12:53	Fine	79.2	0.0	0.0	20.7	30	
A8	4 Oct 2007	12:57	Fine	79.2	0.0	0.0	20.7	30	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 5 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GF/M410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Particular on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	5 Oct 2007	8:55	Sunny	79.2	0.0	0.0	20.7	29	
A8	5 Oct 2007	8:58	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A1	5 Oct 2007	12:54	Sunny	79.2	0.0	0.0	20.7	32	
A8	5 Oct 2007	12:59	Sunny	79.2	0.0	0.0	20.7	32	Confined space

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 8 October 07

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GFM4.0 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	8 Oct 2007	8:52	Sunny	79.3	0.0	0.0	20.7	30	
A5	8 Oct 2007	8:55	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A8	8 Oct 2007	8:58	Sunny	79.3	0.0	0.0	20.6	30	Confined space
A1	8 Oct 2007	11:47	Sunny	79.3	0.0	0.0	20.6	31	
A5	8 Oct 2007	12:50	Sunny	79.3	0.0	0.0	20.6	31	Confined space
A6	8 Oct 2007	12:52	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A7	8 Oct 2007	12:55	Sunny	79.2	0.0	0.0	20.7	31	Confined space
A8	8 Oct 2007	12:59	Sunny	79.2	0.0	0.0	20.7	31	Confined space

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 9 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GFM4.0 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	9 Oct 2007	8:51	Sunny	79.2	0.0	0.0	20.7	27	
A6	9 Oct 2007	8:54	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A7	9 Oct 2007	8:57	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A1	9 Oct 2007	12:50	Sunny	79.2	0.0	0.0	20.7	28	
A6	9 Oct 2007	12:53	Sunny	79.2	0.0	0.0	20.7	28	Confined space
A7	9 Oct 2007	12:57	Sunny	79.2	0.0	0.0	20.7	28	Confined space

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 10 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	10 Oct 2007	8:57	Sunny	79.2	0.0	0.0	20.7	26	
A1	10 Oct 2007	12:58	Sunny	79.2	0.0	0.0	20.7	28	

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 11 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	11 Oct 2007	8:50	Sunny	79.2	0.0	0.0	20.7	26	
A7	11 Oct 2007	8:55	Sunny	79.3	0.0	0.0	20.6	26	Confined space
A8	11 Oct 2007	8:58	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A1	11 Oct 2007	12:48	Sunny	79.2	0.0	0.0	20.7	27	
A7	11 Oct 2007	12:54	Sunny	79.2	0.0	0.0	20.7	27	Confined space
A8	11 Oct 2007	12:58	Sunny	79.2	0.0	0.0	20.7	27	Confined space

Field Technician: _____
 (Site Agent)


Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005 04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 12 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	12 Oct 2007	8:47	Sunny	79.2	0.0	0.0	20.7	24	
A7	12 Oct 2007	8:51	Sunny	79.3	0.0	0.0	20.6	24	Confined space
A8	12 Oct 2007	8:55	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A1	12 Oct 2007	12:45	Sunny	79.2	0.0	0.0	20.7	26	
A7	12 Oct 2007	12:50	Sunny	79.3	0.0	0.0	20.6	26	Confined space
A8	12 Oct 2007	12:57	Sunny	79.2	0.0	0.0	20.7	26	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005 04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 15 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	15 Oct 2007	8:54	Sunny	79.2	0.0	0.0	20.7	26	
A4	15 Oct 2007	8:57	Sunny	79.3	0.0	0.0	20.6	26	Confined space
A1	15 Oct 2007	12:50	Sunny	79.2	0.0	0.0	20.7	27	
A4	15 Oct 2007	12:53	Sunny	79.2	0.0	0.0	20.7	27	Confined space
A8	15 Oct 2007	12:57	Sunny	79.2	0.0	0.0	20.7	27	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 15 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	16 Oct 2007	8:50	Sunny	79.2	0.0	0.0	20.7	25	
A4	16 Oct 2007	8:54	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A8	16 Oct 2007	8:57	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A1	16 Oct 2007	12:51	Sunny	79.2	0.0	0.0	20.7	26	
A4	16 Oct 2007	12:55	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A8	16 Oct 2007	12:57	Sunny	79.3	0.0	0.0	20.6	26	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 17 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	17 Oct 2007	8:50	Sunny	79.2	0.0	0.0	20.7	25	
A4	17 Oct 2007	8:55	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A1	17 Oct 2007	12:55	Sunny	79.2	0.0	0.0	20.7	26	
A4	17 Oct 2007	12:58	Sunny	79.2	0.0	0.0	20.7	26	Confined space

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005-04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 18 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM-410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	18 Oct 2007	8:50	Sunny	79.2	0.0	0.0	20.7	25	
A4	18 Oct 2007	8:54	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A1	18 Oct 2007	12:55	Sunny	79.2	0.0	0.0	20.7	27	
A4	18 Oct 2007	12:57	Sunny	79.2	0.0	0.0	20.7	27	Confined space

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005-04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 22 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM-410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	22 Oct 2007	8:55	Sunny	79.2	0.0	0.0	20.7	27	
A3	22 Oct 2007	8:58	Sunny	79.2	0.0	0.0	20.7	27	Confined space
A1	22 Oct 2007	12:57	Sunny	79.2	0.0	0.0	20.7	27	
A3	22 Oct 2007	13:00	Sunny	79.2	0.0	0.0	20.7	27	Confined space

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 23 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)			
A1	23 Oct 2007	8:55	Rain	79.2	0.0	0.0	20.7	27		
A3	23 Oct 2007	9:00	Rain	79.2	0.0	0.0	20.7	27	Confined space	
A1	23 Oct 2007	12:54	Overcast	79.2	0.0	0.0	20.7	28		
A3	23 Oct 2007	12:57	Overcast	79.2	0.0	0.0	20.7	28	Confined space	

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 24 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)			
A1	24 Oct 2007	8:49	Sunny	79.2	0.0	0.0	20.7	28		
A7	24 Oct 2007	8:55	Sunny	79.3	0.0	0.0	20.7	28	Confined space	
A8	24 Oct 2007	8:57	Sunny	79.2	0.0	0.0	20.7	28	Confined space	
A1	24 Oct 2007	12:45	Sunny	79.2	0.0	0.0	20.7	29		
A7	24 Oct 2007	12:54	Sunny	79.2	0.0	0.0	20.7	29	Confined space	
A8	24 Oct 2007	12:57	Sunny	79.2	0.0	0.0	20.7	29	Confined space	

Field Technician: _____
 (Site Agent)


Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE-2005-04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 25 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	25 Oct 2007	8:47	Sunny	79.2	0.0	0.0	20.7	28	
A6	25 Oct 2007	8:52	Sunny	79.3	0.0	0.0	20.6	28	Confined space
A7	25 Oct 2007	8:56	Sunny	79.3	0.0	0.0	20.6	28	Confined space
A8	25 Oct 2007	9:00	Sunny	79.2	0.0	0.0	20.7	28	Confined space
A1	25 Oct 2007	12:46	Sunny	79.2	0.0	0.0	20.7	29	
A6	25 Oct 2007	12:51	Sunny	79.2	0.0	0.0	20.7	29	Confined space
A7	25 Oct 2007	12:55	Sunny	79.2	0.0	0.0	20.7	29	Confined space
A8	25 Oct 2007	12:59	Sunny	79.2	0.0	0.0	20.7	29	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE-2005-04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 26 October 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	26 Oct 2007	8:47	Sunny	79.2	0.0	0.0	20.7	29	
A6	26 Oct 2007	8:50	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A7	26 Oct 2007	8:54	Sunny	79.3	0.0	0.0	20.6	29	Confined space
A8	26 Oct 2007	8:58	Sunny	79.2	0.0	0.0	20.7	29	Confined space
A1	26 Oct 2007	12:48	Sunny	79.2	0.0	0.0	20.7	30	
A6	26 Oct 2007	12:51	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A7	26 Oct 2007	12:55	Sunny	79.2	0.0	0.0	20.7	30	Confined space
A8	26 Oct 2007	12:58	Sunny	79.2	0.0	0.0	20.7	30	Confined space

Field Technician: 
 (Site Agent)

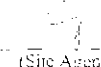
Checked by: 
 (RSO)

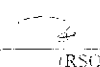
Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 29 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	29 Oct 2007	8:45	Sunny	79.1	0.0	0.0	20.7	27	
A6	29 Oct 2007	8:48	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A7	29 Oct 2007	8:52	Sunny	79.3	0.0	0.0	20.6	27	Confined space
A8	29 Oct 2007	8:57	Sunny	79.2	0.0	0.0	20.7	27	Confined space
A1	29 Oct 2007	12:47	Sunny	79.2	0.0	0.0	20.7	28	
A6	29 Oct 2007	12:50	Sunny	79.2	0.0	0.0	20.7	28	Confined space
A7	29 Oct 2007	12:55	Sunny	79.2	0.0	0.0	20.7	28	Confined space
A8	29 Oct 2007	12:57	Sunny	79.2	0.0	0.0	20.7	28	Confined space

Field Technician: 
 (Site Agent)

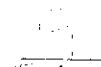
Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 30 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10259	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	30 Oct 2007	8:48	Sunny	79.2	0.0	0.0	20.7	25	
A6	30 Oct 2007	8:52	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A7	30 Oct 2007	8:56	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A8	30 Oct 2007	8:59	Sunny	79.2	0.0	0.0	20.7	25	Confined space
A1	30 Oct 2007	12:45	Sunny	79.2	0.0	0.0	20.7	26	
A6	30 Oct 2007	12:48	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A7	30 Oct 2007	12:52	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A8	30 Oct 2007	12:56	Sunny	79.2	0.0	0.0	20.7	26	Confined space

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005-04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 31 October 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	31 Oct 2007	8:48	Sunny	79.2	0.0	0.0	20.7	25	
A6	31 Oct 2007	8:51	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A7	31 Oct 2007	8:55	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A8	31 Oct 2007	8:58	Sunny	79.3	0.0	0.0	20.5	25	Confined space
A1	31 Oct 2007	12:48	Sunny	79.2	0.0	0.0	20.7	25	
A6	31 Oct 2007	12:51	Sunny	79.2	0.0	0.0	20.7	25	Confined space
A7	31 Oct 2007	12:55	Sunny	79.2	0.0	0.0	20.7	25	Confined space
A8	31 Oct 2007	12:57	Sunny	79.2	0.0	0.0	20.7	25	Confined space

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005-04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 1 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	1 Nov 2007	8:55	Rain	79.2	0.0	0.0	20.7	18	
A1	1 Nov 2007	12:57	Sunny	79.2	0.0	0.0	20.7	19	

Field Technician: _____
 (Site Agent)


Checked by: _____
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 2 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	2 Nov 2007	8:51	Sunny	79.3	0.0	0.0	20.6	20	
A2	2 Nov 2007	8:55	Sunny	79.3	0.0	0.0	20.6	20	Confined space
A6	2 Nov 2007	8:58	Sunny	79.2	0.0	0.0	20.7	20	Confined space
A1	2 Nov 2007	12:50	Sunny	79.2	0.0	0.0	20.7	21	
A3	2 Nov 2007	12:54	Sunny	79.2	0.0	0.0	20.7	21	Confined space
A6	2 Nov 2007	12:57	Sunny	79.2	0.0	0.0	20.7	21	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 3 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	3 Nov 2007	8:59	Sunny	79.2	0.0	0.0	20.7	21	
A1	3 Nov 2007	12:56	Sunny	79.2	0.0	0.0	20.7	23	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 5 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	5 Nov 2007	8:51	Sunny	79.2	0.0	0.0	20.7	23	
A2	5 Nov 2007	8:55	Sunny	79.3	0.0	0.0	20.6	23	Confined-space
A4	5 Nov 2007	8:58	Sunny	79.2	0.0	0.0	20.7	23	Confined-space
A1	5 Nov 2007	12:52	Sunny	79.2	0.0	0.0	20.7	25	
A3	5 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	25	Confined-space
A4	5 Nov 2007	12:58	Sunny	79.2	0.0	0.0	20.7	25	Confined-space

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 6 November 07

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	6 Nov 2007	8:52	Sunny	79.2	0.0	0.0	20.7	25	
A8	6 Nov 2007	8:56	Sunny	79.3	0.0	0.0	20.6	25	
A1	6 Nov 2007	11:51	Sunny	79.2	0.0	0.0	20.7	26	
A8	6 Nov 2007	12:57	Sunny	79.2	0.0	0.0	20.7	26	

Field Technician: [Signature]
 (Site Agent)


Checked by: [Signature]
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 7 November 07

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model: GFM-101 landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes				Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)		
A1	7 Nov 2007	8:55	Sunny	79.2	0.0	0.0	20.7	24	
A1	7 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	25	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 8 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM-10 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes				Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)		
A1	8 Nov 2007	8:50	Sunny	79.2	0.0	0.0	20.7	22	
A2	8 Nov 2007	8:53	Sunny	79.3	0.0	0.0	20.6	22	
A4	8 Nov 2007	8:57	Sunny	79.3	0.0	0.0	20.6	22	
A1	8 Nov 2007	12:51	Sunny	79.2	0.0	0.0	20.7	23	
A3	8 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	23	
A4	8 Nov 2007	12:58	Sunny	79.2	0.0	0.0	20.7	23	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 9 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data:	27/07/2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	9 Nov 2007	8:50	Sunny	79.2	0.0	0.0	20.7	26	
A7	9 Nov 2007	8:55	Sunny	79.2	0.0	0.0	20.6	26	Confined space
A8	9 Nov 2007	8:58	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A1	9 Nov 2007	12:48	Sunny	79.2	0.0	0.0	20.7	26	
A7	9 Nov 2007	12:54	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A8	9 Nov 2007	12:58	Sunny	79.2	0.0	0.0	20.7	26	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 10 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data:	27/07/2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	10 Nov 2007	8:57	Sunny	79.2	0.0	0.0	20.7	24	
A1	10 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	25	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 12 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	12 Nov 2007	8:42	Sunny	79.2	0.0	0.0	20.7	22	
A3	12 Nov 2007	8:45	Sunny	79.3	0.0	0.0	20.6	22	Confined space
A4	12 Nov 2007	8:50	Sunny	79.2	0.0	0.0	20.7	22	Confined space
A8	12 Nov 2007	8:53	Sunny	79.2	0.0	0.0	20.7	22	Confined space
A1	12 Nov 2007	12:45	Sunny	79.2	0.0	0.0	20.7	24	
A3	12 Nov 2007	12:47	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A4	12 Nov 2007	12:51	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A8	12 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	24	Confined space

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 13 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Perimeter on-site and/or off-site monitoring holes						Remark
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	13 Nov 2007	8:50	Sunny	79.2	0.0	0.0	20.7	24	
A7	13 Nov 2007	8:53	Sunny	79.3	0.0	0.0	20.6	24	Confined space
A3	13 Nov 2007	8:57	Sunny	79.3	0.0	0.0	20.6	24	Confined space
A1	13 Nov 2007	12:47	Sunny	79.2	0.0	0.0	20.7	25	
A7	13 Nov 2007	12:51	Sunny	79.2	0.0	0.0	20.7	25	Confined space
A8	13 Nov 2007	12:56	Sunny	79.2	0.0	0.0	20.7	25	Confined space

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 14 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	14 Nov 2007	8:50	Sunny	79.2	0.0	0.0	20.7	25	
A6	14 Nov 2007	8:53	Sunny	79.2	0.0	0.0	20.7	25	Confined space
A7	14 Nov 2007	8:56	Sunny	79.2	0.0	0.0	20.7	25	Confined space
A1	14 Nov 2007	12:51	Sunny	79.2	0.0	0.0	20.7	26	
A6	14 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A7	14 Nov 2007	12:58	Sunny	79.2	0.0	0.0	20.7	26	Confined space

Field Technician:  (Site Agent) Checked by:  (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 15 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	15 Nov 2007	8:50	Sunny	79.2	0.0	0.0	20.7	26	
A6	15 Nov 2007	8:55	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A7	15 Nov 2007	8:59	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A1	15 Nov 2007	12:50	Sunny	79.2	0.0	0.0	20.7	27	
A6	15 Nov 2007	12:53	Sunny	79.2	0.0	0.0	20.7	27	Confined space
A7	15 Nov 2007	12:57	Sunny	79.2	0.0	0.0	20.7	27	Confined space

Field Technician:  (Site Agent) Checked by:  (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 16 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27 / 07 / 2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A7	16 Nov 2007	8:50	Sunny	79.2	0.0	0.0	20.7	25	
A6	16 Nov 2007	8:53	Sunny	79.3	0.0	0.0	20.6	25	Confined space
A8	16 Nov 2007	8:56	Sunny	79.2	0.0	0.0	20.7	25	Confined space
A1	16 Nov 2007	12:45	Sunny	79.2	0.0	0.0	20.7	26	
A6	16 Nov 2007	12:50	Sunny	79.2	0.0	0.0	20.7	26	Confined space
A8	16 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	26	Confined space

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 17 November 2007

Sampling equipment used:	Dates calibrated:
Gas Data	27 / 07 / 2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	17 Nov 2007	8:58	Sunny	79.2	0.0	0.0	20.7	26	
A1	17 Nov 2007	12:56	Sunny	79.2	0.0	0.0	20.7	27	

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 19 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27.07.2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Parameter on-site and/or off-site monitoring holes					Remarks
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	19 Nov 2007	8:49	Sunny	79.2	0.0	0.0	20.7	23	
A7	19 Nov 2007	8:52	Sunny	79.2	0.0	0.0	20.7	23	Confined space
A8	19 Nov 2007	8:56	Sunny	79.2	0.0	0.0	20.7	23	Confined space
A1	19 Nov 2007	12:47	Sunny	79.2	0.0	0.0	20.7	24	
A7	19 Nov 2007	12:50	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A8	19 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	24	Confined space

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 20 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27.07.2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Parameter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	20 Nov 2007	8:50	Sunny	79.2	0.0	0.0	20.7	21	
A2	20 Nov 2007	8:53	Sunny	79.3	0.0	0.0	20.6	21	Confined space
A8	20 Nov 2007	8:57	Sunny	79.2	0.0	0.0	20.7	21	Confined space
A1	20 Nov 2007	12:51	Sunny	79.2	0.0	0.0	20.7	22	
A2	20 Nov 2007	12:56	Sunny	79.2	0.0	0.0	20.7	22	Confined space
A8	20 Nov 2007	13:00	Sunny	79.2	0.0	0.0	20.7	22	Confined space

Field Technician: [Signature]
 (Site Agent)


Checked by: [Signature]
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 21 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/11/2007
Model GFM410 Landfill	
Serial No. 10259	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balanced gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	21 Nov 2007	8:48	Sunny	79.2	0.0	0.0	20.7	23	
A6	21 Nov 2007	8:52	Sunny	79.3	0.0	0.0	20.6	23	Confined space
A7	21 Nov 2007	8:55	Sunny	79.3	0.0	0.0	20.6	23	Confined space
A8	21 Nov 2007	8:59	Sunny	79.2	0.0	0.0	20.7	23	Confined space
A1	21 Nov 2007	12:47	Sunny	79.2	0.0	0.0	20.7	24	
A6	21 Nov 2007	12:50	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A7	21 Nov 2007	12:54	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A8	21 Nov 2007	12:58	Sunny	79.3	0.0	0.0	20.7	24	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 22 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/11/2007
Model GFM410 Landfill	
Serial No. 10259	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balanced gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	22 Nov 2007	8:54	Sunny	79.2	0.0	0.0	20.7	23	
A7	22 Nov 2007	8:56	Sunny	79.2	0.0	0.0	20.7	23	Confined space
A8	22 Nov 2007	9:00	Sunny	79.2	0.0	0.0	20.7	23	Confined space
A1	22 Nov 2007	12:51	Sunny	79.2	0.0	0.0	20.7	24	
A7	22 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A8	22 Nov 2007	12:58	Sunny	79.2	0.0	0.0	20.7	24	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 23 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	23 Nov 2007	8:46	Sunny	79.2	0.0	0.0	20.7	23	
A3	23 Nov 2007	8:50	Sunny	79.3	0.0	0.0	20.6	23	Confined space
A4	23 Nov 2007	8:53	Sunny	79.2	0.0	0.0	20.7	23	Confined space
A7	23 Nov 2007	8:56	Sunny	79.3	0.0	0.0	20.6	23	Confined space
A8	23 Nov 2007	8:59	Sunny	79.2	0.0	0.0	20.7	23	Confined space
A1	23 Nov 2007	12:45	Sunny	79.2	0.0	0.0	20.7	24	
A3	23 Nov 2007	12:47	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A4	23 Nov 2007	12:52	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A7	23 Nov 2007	12:56	Sunny	79.2	0.0	0.0	20.7	24	Confined space
A8	23 Nov 2007	13:00	Sunny	79.2	0.0	0.0	20.7	24	Confined space

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 24 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	24 Nov 2007	9:01	Sunny	79.2	0.0	0.0	20.7	24	
A1	24 Nov 2007	12:58	Sunny	79.2	0.0	0.0	20.7	25	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 2
 Date of measurement: 26 November 2007


Sampling equipment used:	Dates calibrated
Gas Data	27.07.2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	26 Nov 2007	8:59	Sunny	79.2	0.0	0.0	20.7	23	
A2	26 Nov 2007	8:55	Sunny	79.3	0.0	0.0	20.6	23	Confined space
A8	26 Nov 2007	8:58	Sunny		0.0	0.0	20.7	23	Confined space
A1	26 Nov 2007	12:45	Sunny	79.2	0.0	0.0	20.7	24	
A2	26 Nov 2007	12:58	Sunny	79.3	0.0	0.0	20.6	24	Confined space
A8	26 Nov 2007	13:01	Sunny	79.2	0.0	0.0	20.7	24	Confined space

Field Technician:


 (Site Agent)

Checked by:


 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 27 November 2007


Sampling equipment used:	Dates calibrated
Gas Data	27.07.2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	27 Nov 2007	8:56	Sunny	79.2	0.0	0.0	20.7	20	
A1	27 Nov 2007	12:56	Sunny	79.2	0.0	0.0	20.7	23	

Field Technician:


 (Site Agent)

Checked by:



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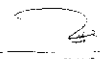
Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 28 November 2007

Sampling equipment used:	Date calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	28 Nov 2007	8:56	Sunny	79.2	0.0	0.0	20.7	18	
A1	28 Nov 2007	12:55	Sunny	79.2	0.0	0.0	20.7	20	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

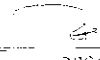
Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 29 November 2007

Sampling equipment used:	Date calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	29 Nov 2007	8:59	Sunny	79.2	0.0	0.0	20.7	18	
A1	29 Nov 2007	12:57	Sunny	79.2	0.0	0.0	20.7	20	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 30 November 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	30 Nov 2007	8:56	Sunny	79.2	0.0	0.0	20.7	18	
A1	30 Nov 2007	12:55	Sunny	79.3	0.0	0.0	20.6	24	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 1 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	1 Dec 2007	8:57	Sunny	79.2	0.0	0.0	20.7	17	
A1	1 Dec 2007	12:56	Sunny	79.2	0.0	0.0	20.7	20	

Field Technician: [Signature]
 (Site Agent)


Checked by: [Signature]
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04 Ting Kok Road Pumping Station No. 5
 Date of measurement: 3 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GPM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	3 Dec 2007	8:55	Sunny	79.2	0.0	0.0	20.7	17	
A1	3 Dec 2007	12:57	Sunny	79.2	0.0	0.0	20.7	19	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2002/04 Ting Kok Road Pumping Station No. 5
 Date of measurement: 4 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GPM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	4 Dec 2007	8:56	Sunny	79.2	0.0	0.0	20.7	16	
A1	4 Dec 2007	12:58	Sunny	79.2	0.0	0.0	20.7	19	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 5 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM-10 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	5 Dec 2007	8:54	Sunny	79.2	0.0	0.0	20.7	17	
A1	5 Dec 2007	12:57	Sunny	79.2	0.0	0.0	20.7	19	

Field Technician: 
 (Site Agent)


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 (RSO)

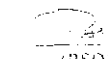
Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 6 December 07

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	6 Dec 2007	8:59	Sunny	79.2	0.0	0.0	20.7	17	
A1	6 Dec 2007	15:55	Sunny	79.2	0.0	0.0	20.7	19	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 7 December 07

Sampling equipment used: Gas Data	Dates calibrated: 27 / 07 / 2007
Model GFM-10 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	7 Dec 2007	8:58	Sunny	79.2	0.0	0.0	20.7	16	
A1	7 Dec 2007	12:56	Sunny	79.2	0.0	0.0	20.7	18	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 8 December 2007

Sampling equipment used: Gas Data	Dates calibrated: 27 / 07 / 2007
Model GFM-10 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	8 Dec 2007	8:58	Sunny	79.2	0.0	0.0	20.7	16	
A1	8 Dec 2007	12:56	Sunny	79.2	0.0	0.0	20.7	19	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 10 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model GFV410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	10 Dec 2007	8:56	Sunny	79.2	0.0	0.0	20.7	17	
A1	10 Dec 2007	12:54	Sunny	79.2	0.0	0.0	20.7	20	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 11 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model GFV410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	11 Dec 2007	8:56	Sunny	79.2	0.0	0.0	20.7	19	
A1	11 Dec 2007	12:59	Sunny	79.2	0.0	0.0	20.7	21	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 12 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	12 Dec 2007	8:42	Sunny	79.2	0.0	0.0	20.7	22	
A1	12 Dec 2007	12:56	Sunny	79.2	0.0	0.0	20.7	24	

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 13 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	13 Dec 2007	8:50	Sunny	79.2	0.0	0.0	20.7	20	
A1	13 Dec 2007	12:47	Sunny	79.2	0.0	0.0	20.7	23	

Field Technician: _____
 (Site Agent)

Checked by: _____
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 14 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	14 Dec 2007	8:56	Sunny	79.2	0.0	0.0	20.7	19	
A1	14 Dec 2007	12:58	Sunny	79.2	0.0	0.0	20.7	21	

Field Technician:  (Site Agent) Checked by:  (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 15 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	15 Dec 2007	8:58	Sunny	79.2	0.0	0.0	20.7	19	
A1	15 Dec 2007	12:54	Sunny	79.2	0.0	0.0	20.7	22	

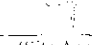
Field Technician:  (Site Agent) Checked by:  (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Fing Kok Road Pumping Station No. 5
 Date of measurement: 17 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	17 Dec 2007	8:52	Sunny	79.2	0.0	0.0	20.7	10	
A1	17 Dec 2007	12:56	Sunny	79.2	0.0	0.0	20.7	22	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Fing Kok Road Pumping Station No. 5
 Date of measurement: 18 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	18 Dec 2007	8:54	Sunny	79.2	0.0	0.0	20.7	19	
A1	18 Dec 2007	12:56	Sunny	79.2	0.0	0.0	20.7	22	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 19 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)			
A1	19 Dec 2007	8:59	Sunny	79.2	0.0	0.0	20.7	18		
A1	19 Dec 2007	12:57	Sunny	79.2	0.0	0.0	20.7	20		

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 20 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)			
A1	20 Dec 2007	8:58	Sunny	79.2	0.0	0.0	20.7	18		
A1	20 Dec 2007	12:56	Sunny	79.2	0.0	0.0	20.7	20		

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 21 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	21 Dec 2007	8:54	Sunny	79.2	0.0	0.0	20.7	20	
A1	21 Dec 2007	12:53	Sunny	79.2	0.0	0.0	20.7	23	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE 2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 22 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model: GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	22 Dec 2007	8:56	Sunny	79.2	0.0	0.0	20.7	20	
A1	22 Dec 2007	12:50	Sunny	79.2	0.0	0.0	20.7	22	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 24 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GF M410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	24 Dec 2007	8:46	Sunny	79.2	0.0	0.0	20.7	19	
A1	24 Dec 2007	12:45	Sunny	79.2	0.0	0.0	20.7	22	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 27 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GF M410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	27 Dec 2007	9:00	Sunny	79.2	0.0	0.0	20.7	19	
A1	27 Dec 2007	13:04	Sunny	79.2	0.0	0.0	20.7	21	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 28 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Mode: CFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	28 Dec 2007	9:01	Sunny	79.2	0.0	0.0	20.7	16	
A1	28 Dec 2007	12:57	Sunny	79.2	0.0	0.0	20.7	19	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 29 December 2007

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Mode: CFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	29 Dec 2007	8:58	Sunny	79.2	0.0	0.0	20.7	16	
A1	29 Dec 2007	12:56	Sunny	79.2	0.0	0.0	20.7	19	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 3 January 2008

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	3 Jan 2008	8:59	Sunny	79.1	0.0	0.0	20.8	14	
A1	3 Jan 2008	12:59	Sunny	79.1	0.0	0.0	20.8	16	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 4 January 2008

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	4 Jan 2008	9:00	Sunny	79.1	0.0	0.0	20.8	14	
A1	4 Jan 2008	12:57	Sunny	79.1	0.0	0.0	20.8	16	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 5 January 2008

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GEM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	5 Jan 2008	8:59	Sunny	79.1	0.0	0.0	20.8	14	
A1	5 Jan 2008	12:54	Sunny	79.1	0.0	0.0	20.8	15	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 7 January 08

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GEM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	7 Jan 2008	8:59	Sunny	79.1	0.0	0.0	20.8	15	
A1	7 Jan 2008	12:58	Sunny	79.1	0.0	0.0	20.8	17	

Field Technician: [Signature]
 (Site Agent)


Checked by: [Signature]
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 8 January 2008

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GPM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flametable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	8 Jan 2008	8:57	Sunny	79.1	0.0	0.0	20.8	16	
A1	8 Jan 2008	12:59	Sunny	79.1	0.0	0.0	20.8	18	

Field Technician: 
 (Site Agent)


Checked by: 
 (RSO)


Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 9 January 2008

Sampling equipment used:	Dates calibrated
Gas Data	27/07/2007
Model GPM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flametable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	9 Jan 2008	8:57	Sunny	79.1	0.0	0.0	20.8	17	
A1	9 Jan 2008	12:59	Sunny	79.1	0.0	0.0	20.8	19	

Field Technician: 
 (Site Agent)

Checked by: 
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 10 January 2008

Sampling equipment used:	Dates calibrated:
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	10 Jan 2008	8:58	Sunny	79.1	0.0	0.0	20.8	18	
A1	10 Jan 2008	13:00	Sunny	79.1	0.0	0.0	20.8	20	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 11 January 2008

Sampling equipment used:	Dates calibrated:
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	11 Jan 2008	8:58	Sunny	79.1	0.0	0.0	20.8	19	
A1	11 Jan 2008	12:59	Sunny	79.1	0.0	0.0	20.8	21	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 21 February 2008

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	21 Feb 2008	8:57	Sunny	79.1	0.0	0.0	20.8	15	
A1	21 Feb 2008	12:57	Sunny	79.1	0.0	0.0	20.8	16	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 26 February 2008

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	
A1	26 Feb 2008	8:55	Sunny	79.1	0.0	0.0	20.8	14	
A1	26 Feb 2008	12:57	Sunny	79.1	0.0	0.0	20.8	16	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 7 March 2008

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes				Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)		
A1	7 Mar 2008	13:57	Sunny	79.1	0.0	0.0	20.8	20	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 14 March 2008

Sampling equipment used:	Dates calibrated
Gas Data	27 / 07 / 2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes				Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)		
A1	14 Mar 2008	15:56	Overcast	79.1	0.0	0.0	20.8	19	

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 20 March 2008

Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)			
A1	20 Mar 2008	12:12	Overcast	79.1	0.0	0.0	20.8	20		

Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of Site: DE/2005/04- Ting Kok Road Pumping Station No. 5
 Date of measurement: 27 March 2008

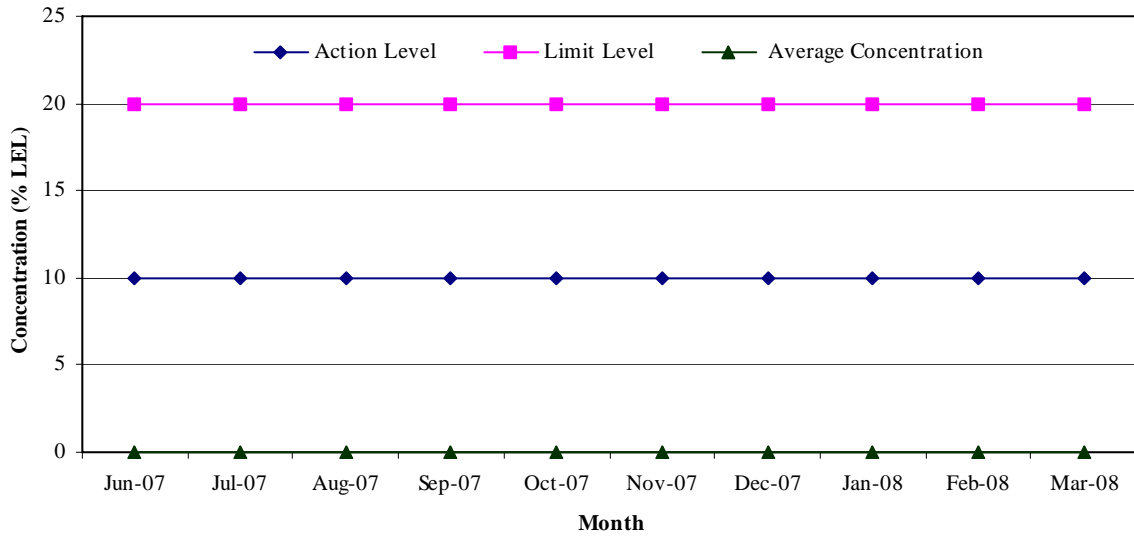
Sampling equipment used:	Dates calibrated
Gas Data	27-07-2007
Model GFM410 Landfill	
Serial No. 10239	

Sample location	Date of measurement	Sampling time	Weather condition	Perimeter on-site and/or off-site monitoring holes					Temp (°C)	Remark
				Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)			
A1	27 Mar 2008	9:30	Overcast	79.1	0.0	0.0	20.8	20		

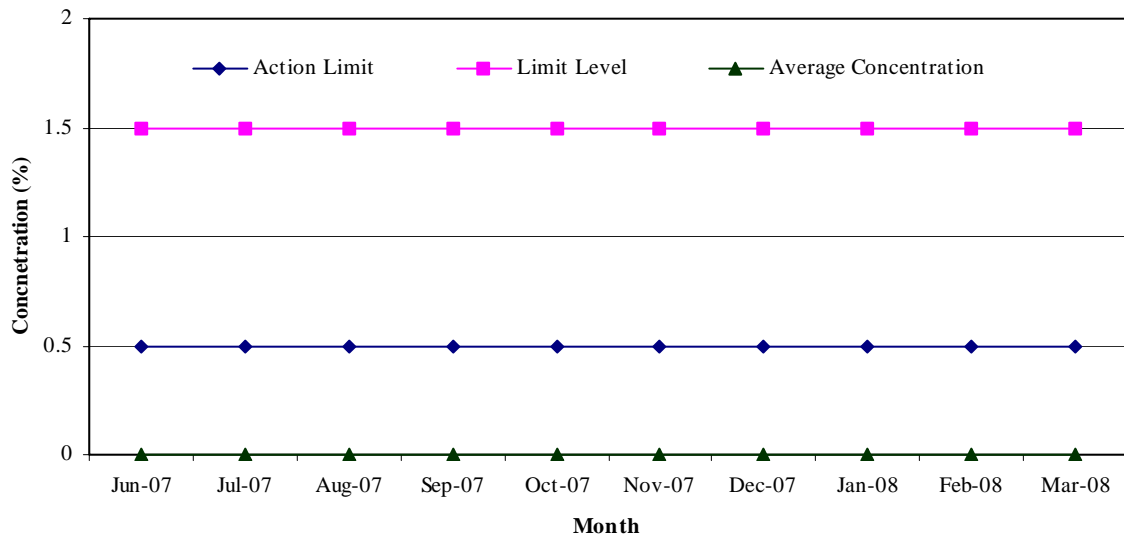
Field Technician: [Signature]
 (Site Agent)

Checked by: [Signature]
 (RSO)

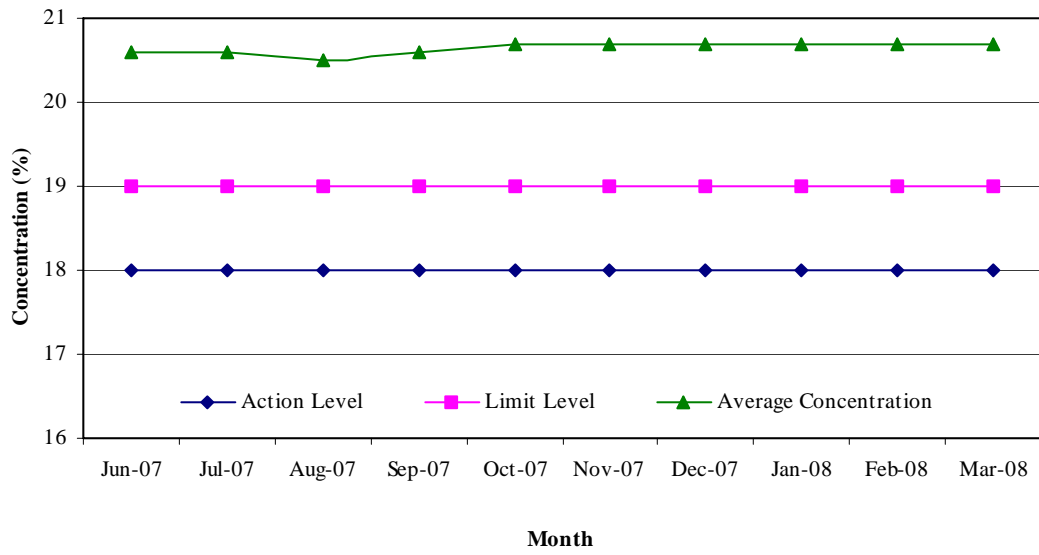
**Upgrading of Ting Kok Road Pumping Station No. 5
Methane Monitoring
(June 2007 - March 2008)**



**Upgrading of Ting Kok Road Pumping Station No. 5
Carbon Dioxide Monitoring
(June 2007 - March 2008)**

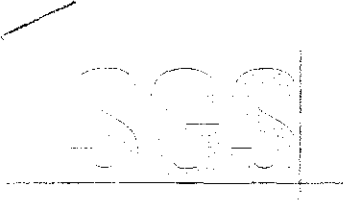


**Upgrading of Ting Kok Road Pumping Station No. 5
Oxygen Monitoring
(June 2007 - March 2008)**



Appendix 8

Test report for Deodourizer System



Test Report

No. 2002355/IEQ

Date : Feb 18 2008

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AROMATRIX TECHNOLOGIES (HONG KONG) LTD
UNIT 403, YEE KUK INDUSTRIAL CENTRE,
555 YEE KUK ST., CHEUNG SHA WAN, KLN.

SGS Job No. : 2612856

1. Sampling and Analytical Methodologies

Report on the performance test of Deodourising System installed at Tai Po Industrial Estate. The performance of the units is expressed as the hydrogen sulphide removal efficiency. The sampling of hydrogen sulphide was conducted on 11 January 2008.

2. Sample Identification

SGS Sample ID	Sample Labelling	Date of Sampling	Parameter
A0801033	Inlet	11 January 2008	H ₂ S
A0801034	Outlet	11 January 2008	H ₂ S

3. Sampling and Analytical Methodologies


The sampling and analytical methodologies were based on ISC 3rd ed. 701 "Determination of Hydrogen Sulphide Content of the Atmosphere" in Methods of Air Sampling and Analysis.

The hydrogen sulphide gas was injected. Hydrogen sulphide gas was collected simultaneously at the designated inlet and outlet of the Deodouring Unit. A sampling train consisted of a sampling probe, a midjet impinger containing cadmium hydroxide (STRactan 10 was added to the cadmium hydroxide slurry prior to sampling to minimize the photo-decomposition of cadmium sulphide precipitate) and a calibrated SKC air sampler was employed for air sampling. A measured volume of air was aspirated through the cadmium hydroxide solution in the midjet impinger at a flow rate of about 1.0 LPM.

3. Sampling and Analytical Methodologies (Continue) / 4. Result

Please refer to the following page(s).

Signed for and on behalf of
SGS Hong Kong Ltd.


BROOK WANG
TECHNOLOGIST

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Test Report

No. 2002355/IEQ

Date : Feb 18 2008

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3. Sampling and Analytical Methodologies (Continue)

Samples were stored in an ice box (i.e. about 4 °C) and sent to laboratory immediately. The analysis of Hydrogen sulphide (H₂S) was conducted by outside laboratory as competent

The removal efficiency of hydrogen sulphide (H₂S) of the Deodouring Unit was calculated according to the following equation.

$$\text{Removal efficiency \%} = \left\{ 1 - \frac{H_2S \text{ concentration at outlet, ppb}}{H_2S \text{ concentration at inlet, ppb}} \right\} \times 100\%$$

4. Test Result

SGS Sample ID	Description	Hydrogen Sulphide (ppb)	Average Efficiency (%)
A0801033	Inlet	110000	>99.93%
A0801034	Outlet	<75	

*** End of Report ***

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