

**Contract No. : EP/SP/52/06**  
**Development of an EcoPark in Tuen Mun Area 38**

**ENVIRONMENTAL MONITORING AND AUDIT**

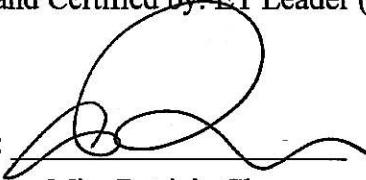
**MONTHLY EM&A REPORT for**

**JANUARY 2007**

**APPROVAL SHEET**


DOCUMENT DATE: 31 January 2007

Prepared and Certified by: ET Leader (Environmental Pioneers & Solutions Limited)

Signature: 

Miss Patricia Chung

Date: 15 FEB 2007

Verified by: 

IEC

Date: 15 FEB 2007

\* IEC – Independent Environmental Checker

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## **EXECUTIVE SUMMARY**

This is the seventh monthly Environmental Monitoring and Audit (EM&A) Report for the Environmental Protection Department Contract No. EP/SP/52/06 entitled "Development of an EcoPark in Tuen Mun Area 38". (Environmental Permit No. EP-226/2005)

This report contains the results and findings of site inspection activities and EM&A works carried out by the Environmental Team (ET) of the Works Contractor as required in the contract during January 2007.

The site activities in the reporting period mainly consisted of site formation, excavation works, and construction of administration building, electrical sub-stations, drainage and sewerage, marine front management office and refuse collection points.

Disposal of inert C&D material was recorded. No substantial noise impact was noted by ET during weekly environmental site walks. Landfill gas monitoring was carried out at site; oxygen measurement results on 3, 10, 17 and 24 January 2007 are below Action Level in accordance with the EM&A Manual. The Contractor was reminded to carry out the actions suggested in the EM&A Manual correspondingly for mitigation measure.

Insufficient water spraying on unpaved access road was observed. The Contractor was reminded to install sprinkler system to enhance water spraying on unpaved access road for better dust mitigation.

The site entrance has been relocated to Road F. The Contractor was recommended to re-install automatic wheel washing machine at the new site entrance at Road F.

Underground water accumulated in the jacking pit FMH41 and the trench was discharged directly at the manhole without any treatment. Weekly water samples were taken by the ET at the discharge manhole, and some COD test results were not in compliance with WPCO-TM Standard.

The IEC raised an observation of inadequate operation of sedimentation tanks at



jacking pit FMH40 (overloading) and jacking pit adjacent to the administration building (drilled plates) on 10 January 2007. The Contractor was reminded that any extracted water cannot comply with the WCPO-TM Standard should not be discharged until appropriate facility is installed.

Damage of silt curtain was observed and repair work was underway. The Contractor has repaired the silt curtain on 09 January 2007.

A site inspection was carried out by the inspectors of Environmental Protection Department on 24 January 2007 and an investigation record was received concerning the storage of chemical waste (inadequate labeling and warning signs) at the EcoPark site. The ET will investigate the event and ensure the Contractor to be fully aware of the proper ways of handling the chemical waste.

There were no notification of summons or successful prosecution during January 2007.

The planned activities for February 2007 and March 2007 with regard to development of EcoPark consist of:

- 1) Excavation and Site Formation Works
- 2) Construction of Electrical Sub-stations
- 3) Construction of Drainage and Sewerage
- 4) Construction of Administration Building
- 5) Construction of Marine Front Management Office
- 6) Construction of Refuse Collection Points

## **1. BASIC PROJECT INFORMATION**

### **1.1 Introduction**

This is the seventh monthly Environmental Monitoring and Audit (EM&A) Report for the Environmental Protection Department Contract No. EP/SP/52/06 entitled "Development of an EcoPark in Tuen Mun Area 38". The site layout plan is shown in Appendix 1. The report was prepared by the Environmental Team, Environmental Pioneers & Solutions Limited, of the Works Contractor, Kaden Construction Limited. The report is to be submitted to the Works Contractor, the Engineer and the Environmental Protection Department for the project.

This report presents the results of the environmental monitoring of the project activities conducted during the month of January 2007. This included regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the EM&A Manual and the Contractor's Environmental Management Plan (EMP).

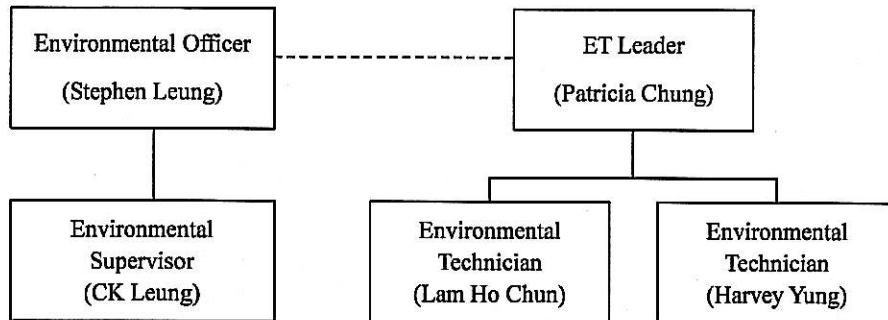
Phase 1 of the construction works has already commenced in July 2006 and is anticipated to complete in June 2007.

The contact person and telephone number of key personnel for the captioned project are shown in Appendix 2.

### **1.2 Project Organization and Management**

The Works Contractor has commissioned Environmental Pioneers & Solutions Limited as the Environmental Team, which comprises the environmental team leader and the environmental technicians to undertake the environmental monitoring and audit work for this project. The project Organization Chart of Environmental Team is shown in Figure 1.1.

Figure 1.1 Organization Chart of Environmental Team



## 2. SUMMARY OF WORK ACTIVITIES AND CONSTRUCTION STATUS

### 2.1 Works Undertaken during the Month

A summary of the site installation works in this month, with the information of locations, activities, equipment/materials and dates of occurrence, is provided by the Contractor, as shown in Table 2.1.

Item	Work Activities & Location	Date of Occurrence
1	Site Formation Works, Excavation Works & Roadworks	1 January 2007 – 31 January 2007
2	Construction of Electrical Sub-stations, Administration Building, Refuse Collection Points and Marine Front Management Office	1 January 2007 – 31 January 2007
3	Construction of Drainage & Sewerage	1 January 2007 – 31 January 2007

Machineries		
	Equipment/ Plant	Quantity
1	Mobile Crane	2
2	Excavator	20
3	Generator	8
4	Air Compressor	2
5	Roller	6
6	Loader	2
7	Grab Lorry	2
8	Crane Lorry	3
9	Water Truck	1
10	Dump Truck	5

**Remarks:**

- As informed by the Contractor, most equipment are mobile at site subject to work progress.
- Refer to Appendix 1 – Site layout plan for location of construction activities.

### 2.2 Future Key Issues

The Contractor has provided an updated construction program in Table 2.2 to show the planned activities for the coming three months (February 2007 – April 2007). The anticipated environmental issues are summarized as follow:

Table 2.2 Construction Program and Anticipated Environmental Issues		
Item	Works	Anticipated Environmental Issues
1	Site Formation Works, Excavation Works & Roadworks	<ul style="list-style-type: none"> <li>- Generation of C&amp;D Waste; excavated material should be reused as much as practicable</li> <li>- Dust may be generated; the wheel washing machine should be in operation</li> <li>- Haul road should be sprayed regularly, by truck or sprinkler</li> <li>- Stagnant water should be removed</li> <li>- Mosquito mitigation measures should be implemented</li> </ul>
2	Construction of Electrical Sub-stations, Administration Building, Refuse Collection Points & Marine Front Management Office	<ul style="list-style-type: none"> <li>- Generation of waste from packaging materials and C&amp;D wastes</li> </ul>
3	Construction of Drainage & Sewerage	<ul style="list-style-type: none"> <li>- Generation of C&amp;D Waste; excavated material should be reused as much as practicable</li> <li>- Dust may be generated; the wheel washing machine should be in operation</li> </ul>

The site inspection schedule for the next month (February 2007) is designated on 1, 7, 14, 21 and 28 February 2007.

**3. STATUS OF ENVIRONMENTAL PROTECTION AND SITE INSPECTIONS****3.1 Environmental Site Inspections**

Environmental site inspections are required to inspect the construction activities of the Development of EcoPark in order to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented.

Site inspections were conducted on 3, 10, 17 and 24 January 2007.

A detailed checklist of each site inspection together with comments, relevant photos and maps have been filed and kept.

The findings and results of site inspections are provided in Table 3.1:

Date	Observations	Advice from ET	Outcome	Closing Date
10 Jan 07 24 Jan 07	Underground water at Jacking Pit FMH41 and the trench was discharged directly at the manhole without any treatment. Inadequate operation of sedimentation tanks at Jacking Pit FMH40 (overloading) and Jacking Pit adjacent to the Administration Building (drilled plates) was observed.	To treat underground water by using sedimentation tanks and to cease the dewatering process until appropriate facility is installed	Treatment of underground water by sedimentation tanks should be inspected in the next reporting period	--
3 Jan 07	Damage of silt curtain was observed.	To repair and maintain silt curtain properly in order to prevent muddy discharge at sea	Silt curtain has been fully repaired and reinstalled at discharge point	09 Jan 07
10 Jan 07	Insufficient water spraying on unpaved access road was observed.	To install sprinkler system to enhance water spraying on unpaved access road	Installation of sprinkler system was underway and should be inspected in the next reporting period	--

Date	Observations	Advice from ET	Outcome	Closing Date
3 Jan 07	Wheel washing machine located at site entrance was removed due to site construction.	To install the wheel washing machine at the new location and to use manual labour for wheel washing as temporary measure	Installation of the wheel washing machine should be inspected in the next reporting period	--
24 Jan 07	There were no appropriate labels on Chemical Waste Storage Area and chemical waste containers.	To provide appropriate labels on Chemical Waste Storage Area and chemical waste containers	Investigation of chemical waste management should be reported in the next reporting period	--

### 3.2 Air Dust

Water spraying by water truck was observed for dust mitigation. However, insufficient water spraying on unpaved access road was observed. The Contractor was reminded to install sprinkler system to enhance water spraying on unpaved access road for better dust mitigation.

Due to site construction, the wheel washing machine located at site entrance was removed. The new site entrance was relocated to Road F and manual labour was used for wheel washing as temporary measure. The ET recommended the Contractor to install the wheel washing machine at the new site entrance at Road F.

### 3.3 Noise

The major noise source was vehicle movement, machinery, rock excavation and breaking in the EcoPark. Since the nearby NSRs were remote, the noise impact was minimal. There was no specific observation noted regarding noise issue. The Construction Noise Permit was issued to the Contractor on 29 August 2006.

### 3.4 Surface Water Quality

Underground water accumulated in the jacking pit FMH41 and the trench was discharged directly at the manhole without any treatment. The Contractor was reminded

to properly treat underground water by using sedimentation tanks before discharging at the manhole.

The IEC raised an observation of inadequate operation of sedimentation tanks at Jacking Pit FMH40 (overloading) and Jacking Pit adjacent to the Administration Building (drilled plates) on 10 January 2007. The Contractor was reminded that any extracted water not complying with the WPCO-TM Standard should not be discharged until appropriate facility is installed.

Silt curtain was installed at the discharge point at Marine Front. Damage of silt curtain was observed. Silt curtain has been fully repaired and reinstalled at discharge point on 09 January 2007.

Chemical toilets (5 nos.) have been provided by a licensed contractor, of which sewage generated is collected every three to five days without causing contamination on surface water. The Effluent Discharge Licence was issued to the Contractor on 20 November 2006.

In January 2007, water sampling and analysis of Chemical Oxygen Demand (COD) was carried out to confirm that dewatering discharge to stormwater drains meets the WPCO-TM Standard. Results are summarized in Table 3.3.

Sampling Location	Sampling Date	Chemical Oxygen Demand (COD) (mg O <sub>2</sub> /L)	WPCO-TM Standard COD (mg O <sub>2</sub> /L)
The Manhole near the Jacking Pit FMH40	03 Jan 07	420	80
The Manhole near the Launching Shaft	03 Jan 07	260	
The Manhole near the Jacking Pit FMH40	10 Jan 07	140	
The Manhole near the Launching Shaft	10 Jan 07	100	
The Manhole near the Jacking Pit FMH41	10 Jan 07	55	
The Manhole near the Launching Shaft	17 Jan 07	200	
The Manhole near the Launching Shaft	24 Jan 07	290	

The results of COD analysis on 03, 10, 17 and 24 January 2007 exceed the WPCO-TM Standard. The ET has proposed the Contractor to analyze the chemical composition of dewatering discharge to find out which component is contributed to high COD level and then decide suitable treatment system to be used to reduce COD level. The Contractor has been reminded for immediate consideration and action for the outstanding COD issue. The ET will report the progress in the next EM&A monthly



report.

### 3.5 Visual and Landscape Impact

Hoarding was erected at the site egress and aligned along the site boundary along Lung Mun Road. Hoardings were specially designed to be movable for future re-use in other locations.

During site clearance, trees are relocated to be replanted for landscaping in the future in EcoPark.

### 3.6 Waste / Chemical Waste

The inspectors of Environmental Protection Department inspected the EcoPark site on 24 January 2007 and an investigation record was received concerning the storage of chemical waste (inadequate labeling and warning signs) at the EcoPark site. The Contractor has subsequently ratified the issue by erecting appropriate signs and labels. The ET will investigate the event and ensure the Contractor to be fully aware of the proper ways of handling the chemical waste.

The Contractor implemented visual inspection and distributed flyers/ notices to ensure all dump trucks close mechanical covers when leaving EcoPark site.

Separate waste collection bins were made available for collecting aluminum cans, waste paper and plastic bottles etc. The Contractor has provided the site layout plan for refuse collection points as shown in Appendix 3.

Two waste dumpers were used for the collection and storage of general waste. Temporary storage areas for waste metals and waste tyres were established.

The Contractor has provided sufficient drip trays for all (8 nos.) temporary electricity generators at site. These drip trays should be covered by tarpaulin sheet to minimize rainfall accumulation.

Excavated materials are reused as back-fill material to balance cut and fill and hence reduce the generation of materials. Surplus materials are returned to stock in centralized area with suitable protective measures. The Contractor was reminded to comply with the requirements and conditions for disposal at public fill facility and all oversized aggregates should be crushed to less than 250mm before delivering to the public fill.

Materials are recycled and re-used at site as much as practicable to minimize waste generation. Timbers are recycled to make temporary tools and access ladders etc. Excavated rocks, concrete and asphalts are stored for future re-use in land formation and structural construction etc.

Registered waste collectors will be arranged to collect and transport the wastes whenever necessary.

Table 3.4 provides a summary table of waste disposal in January 2007. The Contractor has been reminded to keep good record at site in order to have a clear presentation of waste disposal.

Type of Waste	Disposal Site	Quantity	Remarks
General Waste	WENT Landfill	75.66 tonnes	-
Inert C&D Material	Public Fill Facility	3423.4 tonnes	-

### 3.7 Landfill Gas

Landfill gas (LFG) monitoring was carried out at six (6) locations on site as instructed by the Engineer's Representative. LFG measurements on 3, 10, 17 and 24 January 2007 are summarized in Table 3.5, and original field measurement sheets are appended in Appendix 4. Measurement locations are shown in Appendix 5. Oxygen measurement results on 3, 10 and 24 January 2007 are below Action Level in accordance with the EM&A Manual, as shown in Table 3.6. The Contractor was reminded to conduct the actions suggested in the EM&A Manual correspondingly for mitigation measure and to check and calibrate the instrument as soon as possible.

Sampling Location	Date of Measurement	Sampling Time	Weather Condition	Methane (CH <sub>4</sub> ) %LEL	Carbon Dioxide (CO <sub>2</sub> ) %LEL	Oxygen (O <sub>2</sub> )
Point A	03 Jan 07	0836	Cloudy	0.0%	0.0%	19.0%
Point B1	03 Jan 07	0815	Cloudy	0.0%	0.0%	18.8%
Point B2	03 Jan 07	0821	Cloudy	0.0%	0.0%	18.8%
Point C1	03 Jan 07	0826	Cloudy	0.0%	0.0%	18.8%
Point C2	03 Jan 07	0827	Cloudy	0.0%	0.0%	18.9%
Point D	03 Jan 07	0830	Cloudy	0.0%	0.0%	19.0%
Point A	10 Jan 07	1538	Cloudy	0.0%	0.0%	18.5%
Point B1	10 Jan 07	1549	Cloudy	0.0%	0.0%	18.6%
Point B2	10 Jan 07	1545	Cloudy	0.0%	0.0%	18.5%
Point C1	10 Jan 07	1555	Cloudy	0.0%	0.0%	18.4%
Point C2	10 Jan 07	1604	Cloudy	0.0%	0.0%	18.4%
Point D	10 Jan 07	1610	Cloudy	0.0%	0.0%	18.5%
Point A	17 Jan 07	1617	Rainy	0.0%	0.0%	19.1%
Point B1	17 Jan 07	1605	Rainy	0.0%	0.0%	18.9%
Point B2	17 Jan 07	1610	Rainy	0.0%	0.0%	19.0%
Point C1	17 Jan 07	1555	Rainy	0.0%	0.0%	18.9%
Point C2	17 Jan 07	1600	Rainy	0.0%	0.0%	19.0%
Point D	17 Jan 07	1550	Rainy	0.0%	0.0%	18.6%
Point A	24 Jan 07	1550	Fine	0.0%	0.0%	18.4%
Point B1	24 Jan 07	1600	Fine	0.0%	0.0%	18.4%
Point B2	24 Jan 07	1555	Fine	0.0%	0.0%	18.4%
Point C1	24 Jan 07	1608	Fine	0.0%	0.0%	18.3%
Point C2	24 Jan 07	1605	Fine	0.0%	0.0%	18.2%
Point D	24 Jan 07	1612	Fine	0.0%	0.0%	18.4%

Table 3.6 Action Levels, Limit Levels and Event and Action Plan for LFG (From EM&amp;A Manual)

Parameter	Level	Action
Oxygen	Action Level < 19% O <sub>2</sub>	Ventilate trench/ void to restore O <sub>2</sub> to > 19%
	Limit Level < 18% O <sub>2</sub>	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore O <sub>2</sub> to > 19%
Methane (CH <sub>4</sub> )	Action Level >10% LEL	Post "No Smoking" signs Prohibit hot works Increase ventilation to restore CH <sub>4</sub> to <10% LEL

	Limit Level >20% LEL	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CH <sub>4</sub> to <10% LEL
Carbon Dioxide (CO <sub>2</sub> )	Action Level >0.5% CO <sub>2</sub>	Ventilate to restore CO <sub>2</sub> to < 0.5%
	Limit Level >1.5% CO <sub>2</sub>	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CO <sub>2</sub> to < 0.5%

#### 4. SUMMARY OF ENVIRONMENTAL PERMIT AND LICENCES

ET has checked with the Contractor for the status of all environmental permits and licenses for this project as at January 2007, which is summarized in Table 4.1. ET will follow the application process of the outstanding permits / licenses and will provide suitable assistance whenever appropriate.

Description	License / Permit No.#	Date of Issue	Date of Expiry	Status/Remarks
Environmental Permit	EP-226/2005	9-Sept-2005	--	Issued
Registration of Waste Producer	5111-421-K2869-02	27-Jul-2006	--	Issued
Construction Noise Permit	GW-RW0471-06	29-Aug-2006	28-Feb-2007	Issued
Effluent Discharge Licence	EP760/421/011762/I	20-Nov-2006	1-Dec-2011	Issued

#### 5. CUMULATIVE LOG OF COMPLAINTS AND REMEDIAL ACTION

The cumulative log of complaints is referred in Appendix 6.

#### 6. CUMULATIVE LOG OF NOTIFICATION OF SUMMONS AND PROSECUTIONS

No notification of summons and no prosecutions occurred during January 2007.

#### 7. CONCLUSION

There is no summon nor prosecutions reported during January 2007.

Water spraying by water truck was observed. However, insufficient water spraying on unpaved access road was observed. The Contractor was reminded to install sprinkler system to enhance water spraying on unpaved access road for better dust mitigation.

Automatic wheel washing machine located at site entrance was removed due to site construction. The Contractor was recommended to install wheel washing machine at new site entrance at Road F and to use manual labour for wheel washing as temporary measure.

Underground water accumulated in the jacking pit FMH41 and the trench was discharged directly at the manhole without any treatment. The Contractor was reminded to treat underground water by using sedimentation tanks before discharging at the manhole. Weekly water samples were taken by the ET at the discharge manhole, and some COD test results were not in compliance with WPCO-TM Standard. The ET has proposed the chemical analysis of dewatering discharge and suitable treatment system will be decided to reduce high COD level.

The IEC raised an observation of inadequate operation of sedimentation tanks at jacking pit FMH40 (overloading) and jacking pit adjacent to the administration building (drilled plates) on 10 January 2007. The Contractor was reminded that any extracted water cannot comply with the WCPO-TM Standard should not be discharged until appropriate facility is installed.

Damage of silt curtain was observed. Silt curtain has been repaired on 09 January 2007.

Daily landfill gas monitoring was carried out by the Contractor on site and some results of oxygen measurement are below action level in accordance with EM&A Manual. The Contractor was reminded to conduct the actions suggested in the EM&A Manual correspondingly for mitigation measure.

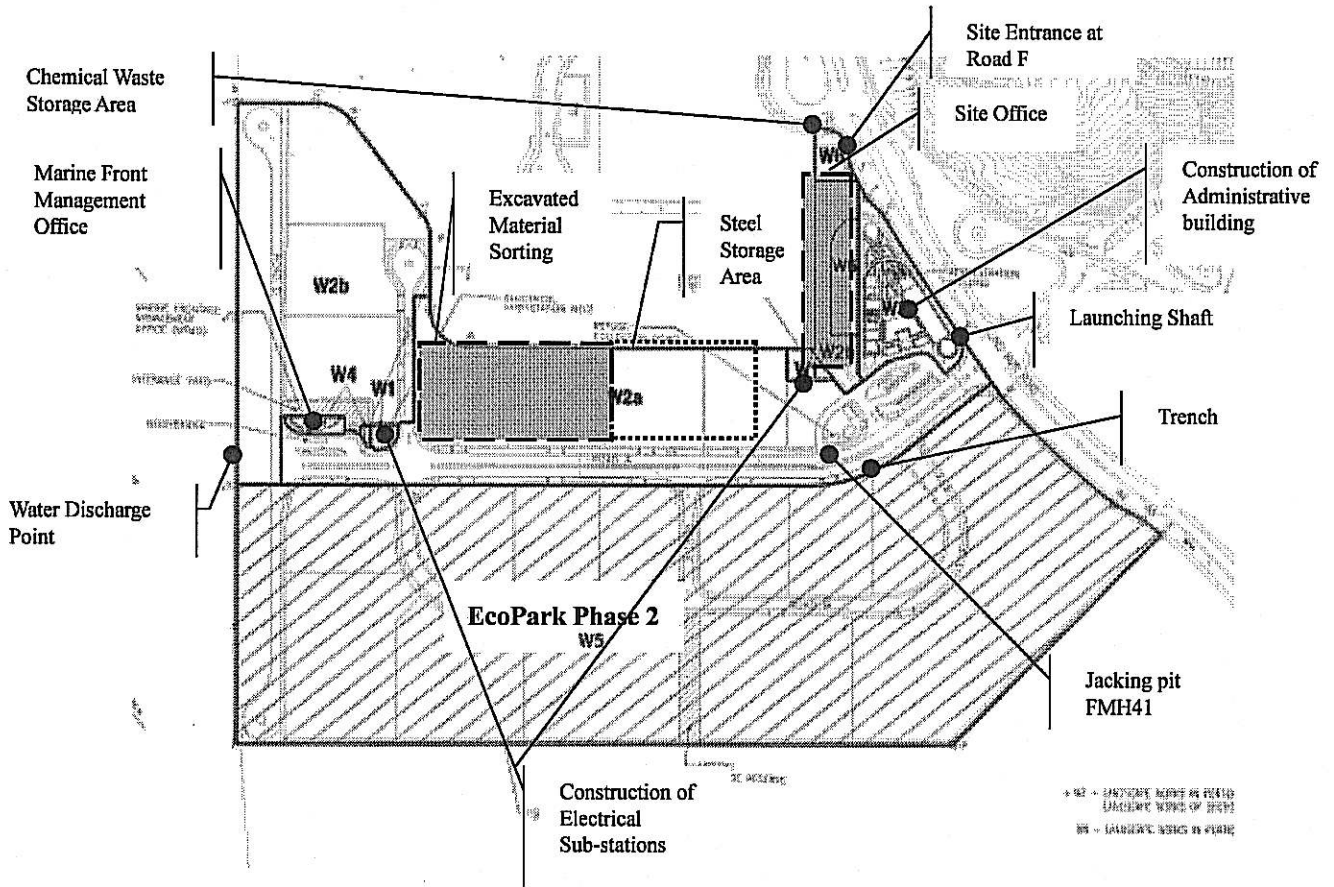
The Contractor has been using the waste management and record system including allocation of waste storage areas and the trip ticket system as proposed in the Environmental Management Plan.

The inspectors of Environmental Protection Department inspected the EcoPark site on 24 January 2007 and an investigation record was received concerning the storage of

chemical waste (inadequate labeling and warning signs) at the EcoPark site. The Contractor has taken immediately some remedial actions such as erecting appropriate signs and labels. The ET will investigate the event and prepare an investigation report as soon as possible. The ET ensures the Contractor to be fully aware of the proper ways of handling the chemical waste.

The Contractor was advised to pay more efforts on environmental concerns and awareness such as the maintenance of the silt curtain and handling and storage of chemical wastes.

**APPENDIX 1 - SITE LAYOUT PLAN**

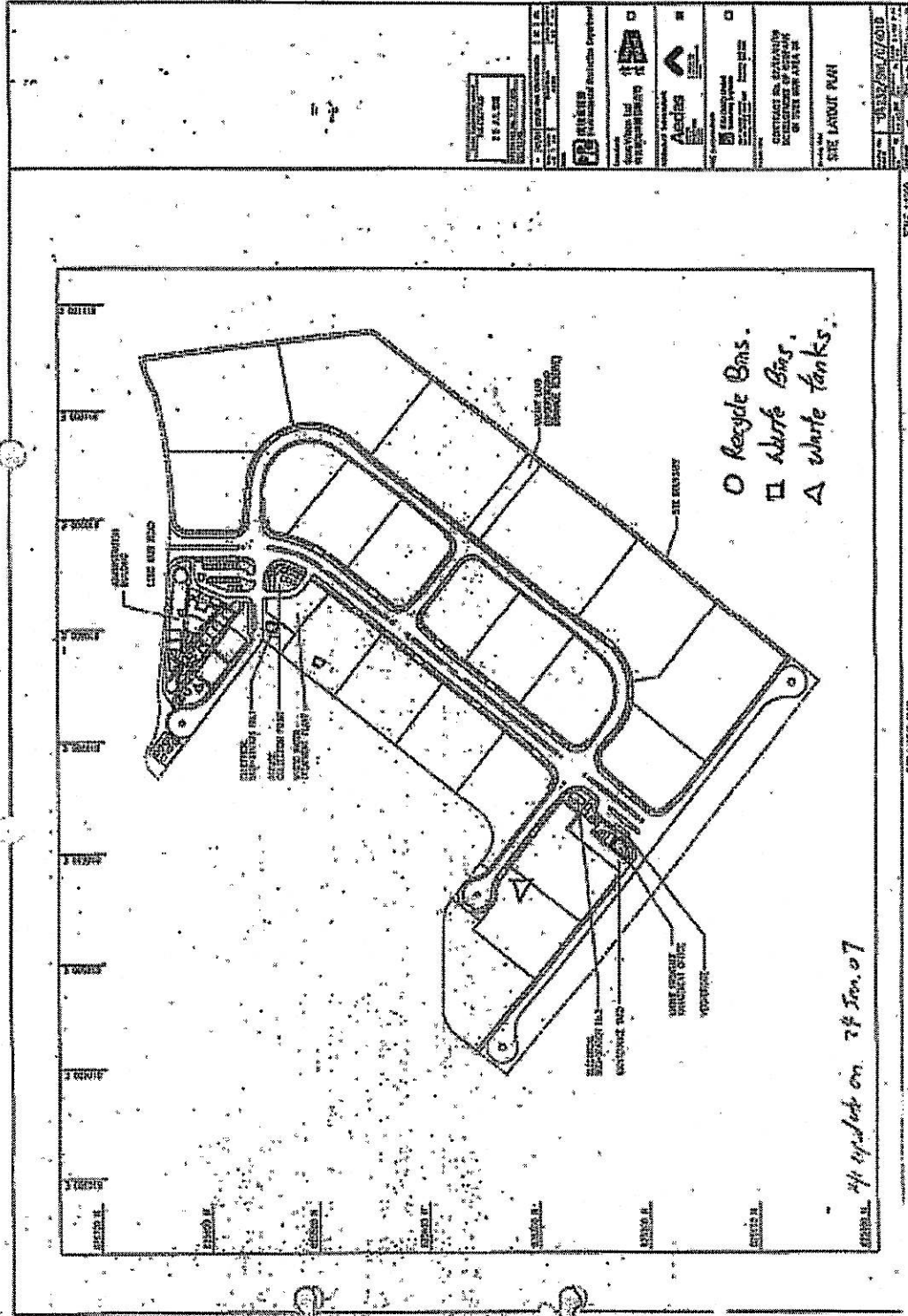


**APPENDIX 2 - THE CONTACT PERSONS, TELEPHONE NUMBERS OF KEY PERSONNEL FOR DEVELOPMENT OF AN ECOPARK IN TUEN MUN AREA 38**

<b>Company/Department</b>	<b>Name</b>	<b>Position</b>	<b>Telephone</b>
Scott Wilson Ltd.	Mike Bains	Independent Environmental Checker	--
Scott Wilson Ltd.	Mr. Michael Lo	Senior Resident Engineer	6290 8860
Scott Wilson Ltd.	Mr. Andy Cheung	Resident Engineer	6111 9703
Scott Wilson Ltd.	Mr. C S Lam	Senior Inspector of Works	9861 8011
Kaden Construction Limited	Mr. K M Book	Project Manager	9193 8680
Kaden Construction Limited	Mr. Stephen Leung	Section Agent	9071 7657
Environmental Pioneers & Solutions Limited	Miss. Patricia Chung	Environmental Team Leader	2185 0123
Environmental Pioneers & Solutions Limited	Mr. Harvey Yung	Environmental Technician	2185 0172
Environmental Pioneers & Solutions Limited	Mr. Lam Ho Chun	Environmental Technician	2185 0154



**APPENDIX 3 - SITE LAYOUT PLAN FOR REFUSE COLLECTION POINTS**



**APPENDIX 4 - ORIGINAL LANDFILL GAS FIELD MEASUREMENT RECORDING SHEETS**

<b>Kaden</b> 堅利		Kaden Construction Limited : 堅利建築有限公司	
EPD Contract No. EP/SP/52/06		Job No. K0603	
環保署合約編號 EP/SP/52/06		工程編號 K0603	
Development of EcoPark in Tuen Mun Area 38 屯門 38 區環保園			
<b>Daily Air Monitoring</b> 每日空氣監測記錄			
Detector: 測試器	Model 型號 : GEM 2000	Last calibration 上次檢測:	01 October 2005
	S/N 編號 : GM-08793	Next calibration 下次檢測:	01 April 2007
Date of Monitor 監測日期 : 03-01-2007		Performed by: M. J.	

Location 位置	Time 時間 (hrs)	Result 結果				
		CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Bal. Gas (%)	Baro. Pressure (H <sub>g</sub> )
Point A	8:36	0	0	19.0	81.0	30.01
Point B1	8:15	0	0	18.8	81.1	30.01
Point B2 (Rainwater retention tank)	8:21	0	0	18.8	81.1	30.01
Point C1 (FMH041)	8:26	0	0	18.8	81.1	30.01
Point C2 (FMH040)	8:27	0	0	18.9	81.0	30.01
Point D	8:30	0	0	19.0	81.0	30.01

Site layout



Kaden Construction Limited 基利建築有限公司

EPD Contract No. EP/SP/52/06 Job No. K0603

環保署合約編號 EP/SP/52/06 工程編號 K0603

Development of EcoPark in Tuen Mun Area 38 屯門 38 區環保園

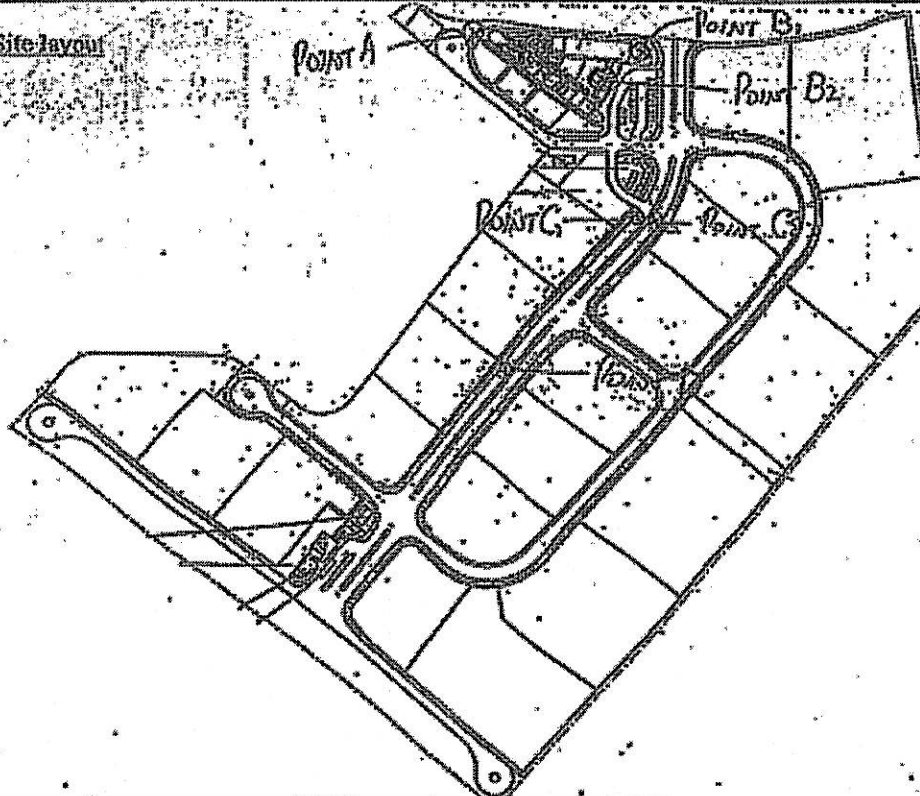
Daily Air Monitoring  
每日空氣監測記錄

Detector: 測試器	Model 型號: GM2000	Last calibration 上次檢測: 01 October 2006
	S/N 編號: GM-08793	Next calibration 下次檢測: 01 April 2007

Date of Monitor 監測日期: 10 - 1 - 2007 Performed by: Harry Lam (EPS)

Location 位置	Time 時間 (hrs)	Result 結果				
		CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Bal. Gas (%)	Baro. Pressure (Tg)
Point A	1538	0	0	18.5	81.4	30.10
Point B1	1549	0	0	18.6	81.3	30.10
Point B2 (Rainwater retention tank)	1545	0	0	18.5	81.4	30.10
Point C1 (FME041)	1555	0	0	18.4	81.5	30.10
Point C2 (FME040)	1604	0	0	18.4	81.5	30.10
Point D	1610	0	0	18.5	81.5	30.10

Site layout





Kaden Construction Limited - 建和建築有限公司

EPD Contract No. EP/SP/52/06 Job No. K0603  
環保署合約編號 EP/SP/52/06 工程編號 K0603

Development of EcoPark in Tuen Mun Area 38 屯門 38 區環保園

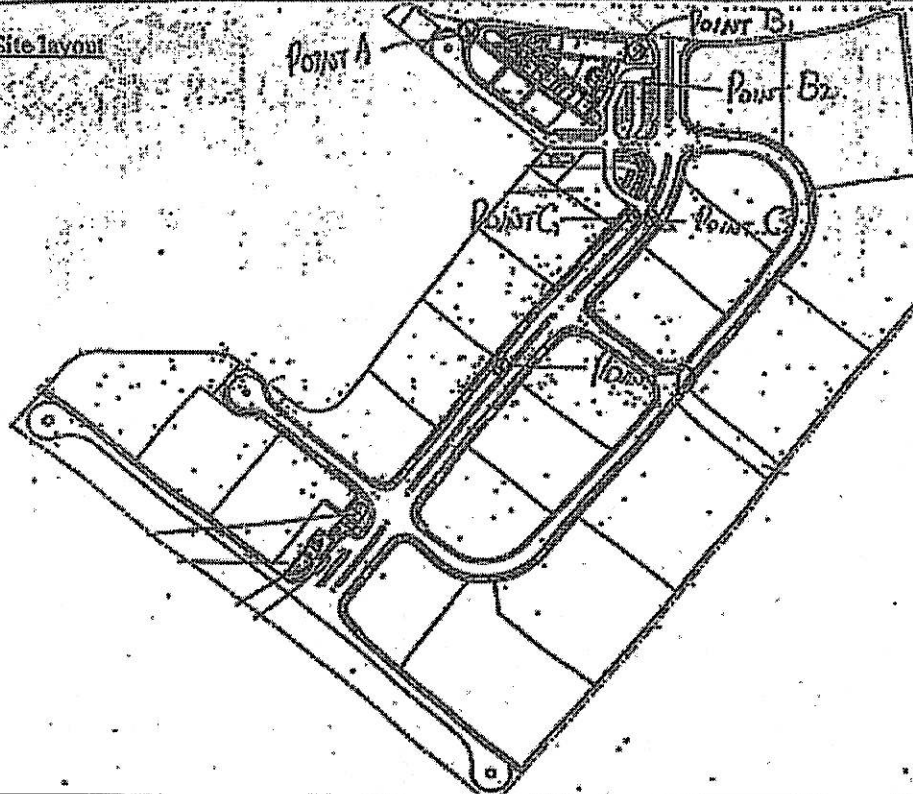
Daily Air Monitoring  
每日空氣監測記錄


Detector: 測試器	Model 型號: GEM 2000	Last calibration 上次檢測: 01 October 2006
	S/N 編號: GM-08793	Next calibration 下次檢測: 01 April 2007

Date of Monitor 監測日期: 17 - 1 - 2007 Performed by: Harry Lam (EPS)

Location 位置	Time 時間 (hrs)	Result 結果				
		CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Bal. Gas (%)	Baro. Pressure ("Hg)
Point A	1617	0	0	19.1	80.9	30.08
Point B1	1605	0	0	18.8	81.0	30.08
Point B2 (Rainwater retention tank)	1610	0	0	19.0	80.9	30.08
Point C1 (RMEH041)	1555	0	0	18.9	81.1	30.08
Point C2 (RMEH040)	1600	0	0	19.0	81.0	30.08
Point D	1550	0	0	18.6	81.3	30.08

Site layout





Kaden Construction Limited : 達利建築有限公司

EPD Contract No. EP/SP/52/06 Job No. K0503

環保署合約編號 EP/SP/52/06 工程編號 K0503

Development of EcoPark in Tuen Mun Area 38 屯門 38 區環保園

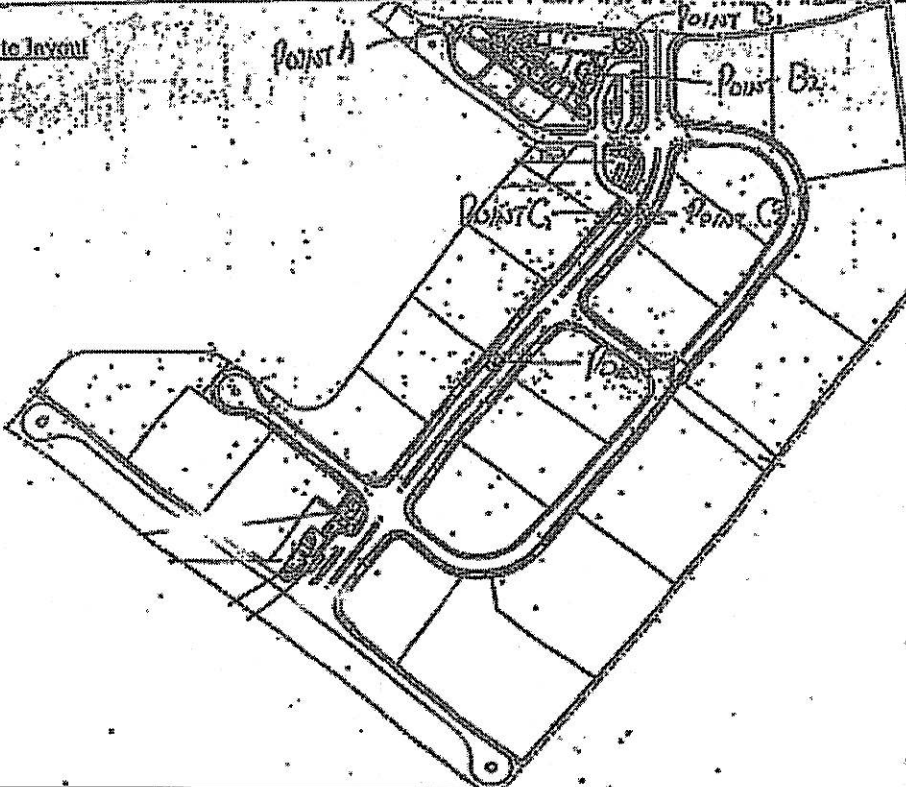
### Daily Air Monitoring 每日空氣監測記錄

Detector: Model 型號 : GEM 2000	Last calibration 上次檢測 : 01 October 2006
測試器 S/N 編號 : GM-08793	Next calibration 下次檢測 : 01 April 2007

Date of Monitor 監測日期 : 24 - 1 - 2007 Performed by: *Murray Lam (EP)*

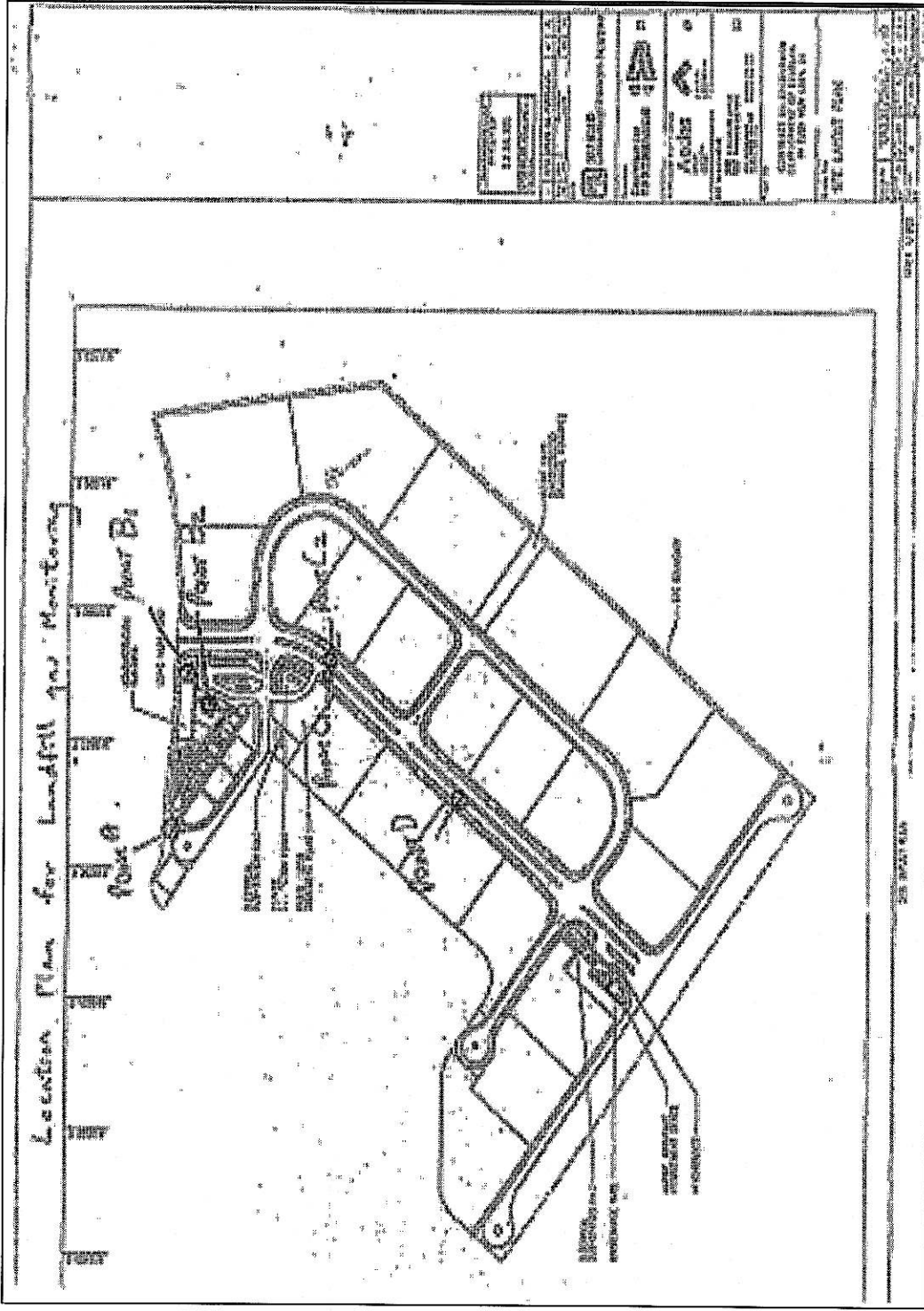
Location 位置	Time 時間 (hrs)	Result 結果				
		CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Bal. Gas (%)	Baro. Pressure (Hg)
Point A	1550	0	0	18.4	81.5	30.14
Point B1	1600	0	0	18.4	81.6	30.14
Point B2 (Rainwater retention tank)	1555	0	0	18.4	81.5	30.14
Point C1 (RME041)	1608	0	0	18.3	81.6	30.14
Point C2 (RME040)	1605	0	0	18.2	81.7	30.14
Point D	1612	0	0	18.4	81.6	30.14

Site layout





### APPENDIX 5 - LANDFILL GAS MEASUREMENT LOCATIONS



**APPENDIX 6 – CUMULATIVE LOG OF COMPLAINTS**

**CUMULATIVE LOG OF COMPLAINTS**

Environmental Parameters	No. of Outstanding Complaints	No. of complaints received in January 2007	Cumulative no. of complaints received since the commencement of project
Air	0	0	1
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	1

**DETAILS OF COMPLAINTS AND REMEDIAL ACTIONS**

Log Ref.	Date of Complaint received	Location	Complainant /Date	Details of Complaint	Investigation /Mitigation Action	Investigated by/ Date
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