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The Hongkong Electric Co., Ltd.

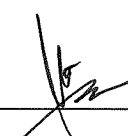


**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499**

**ENVIRONMENTAL PERMITS NO. EP-248/2006 & EP-287/2007**

**LAMMA POWER STATION  
UNITS L2, L4 & L5 FLUE GAS DESULPHURIZATION PLANTS RETROFIT**

**ENVIRONMENTAL MONITORING & AUDIT PROGRAMME  
AT OPERATIONAL PHASE**

Report Title	Quarterly EM&A Report (April to June 2010)
Date	30 August 2010
Certified by	 (Mr. IP Tat-Yan, Environmental Team Leader)

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## EXECUTIVE SUMMARY

Unit L5 Flue Gas Desulphurization (FGD) Plant commenced operation in July 2009, followed by Units L2 and L4 FGD Plants in April 2010 after completion of erection works and a series of commissioning tests. This is the quarterly Environmental Monitoring and Audit (EM&A) report for the Projects “Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit” and “Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit” prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air and water quality and environmental audit for the operation of the said projects in the period from April to June 2010.

Environmental monitoring for air quality and water quality were carried out for the purpose of this EM&A program as well as for fulfilling the requirements stipulated in the relevant licences. The results were checked against the established Action/Limit (AL) levels. The implementation status of the environmental mitigation measures, Event/Action Plan and environmental complaint handling procedures were also checked.

### Plant Availability

Units L2, L4 and L5 were out of service during the following period:

Unit	Period	Remark
L2	02/04/2010 00:30 to 07/04/2010 08:45	FGD outlet damper seal repair
L5	04/03/2010 22:48 to 03/05/2010 13:44	Unit overhaul

### Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L2 FGD	14/04/2010 12:58 to 16:44	FGD gas-in was delayed due to FGD outlet damper fault	Informed EPD by letter dated 15/04/2010.
L2 FGD	12/05/2010 00:00 to 05/06/2010 18:43	Defect rectification	Informed EPD by letters dated 11/05/2010 and 08/06/2010.
L2 FGD	10/06/2010 21:21 to 21:52	FGD was bypassed due to furnace pressure surge.	Informed EPD by letter dated 11/06/2010.
L2 FGD	14/06/2010 12:32 to 17:38	Booster Fan bearing lube oil replacement work.	Informed EPD by letter dated 15/06/2010.
L2 FGD	20/06/2010 16:18 to 16:24 21:49 to 21:55	FGD booster fan control sluggish.	Informed EPD by letter dated 21/06/2010.
L2 FGD	21/06/2010 16:07 to 16:52	Investigation of Booster Fan control sluggish defect.	Informed EPD by letter dated 21/06/2010.

Equipment	Period	Cause	Actions Taken
L4 FGD	15/05/2010 02:45 to 02:48	Routine checking of bypass dampers	Informed EPD by letter dated 17/05/2010.
L4 FGD	23/05/2010 01:41 to 01:46	Routine checking of bypass dampers	Informed EPD by letter dated 25/05/2010.
L4 FGD	29/05/2010 03:11 to 03:39	Routine checking of bypass dampers	Informed EPD by letter dated 31/05/2010.
L4 FGD	05/06/2010 02:36 to 02:40	Routine checking of bypass dampers	Informed EPD by letter dated 09/06/2010.
L4 FGD	26/06/2010 01:35 to 01:44	Routine checking of bypass dampers	Informed EPD by letter dated 29/06/2010.
L5 FGD	09/05/2010 09:52 to 11:39	Operation of booster fan protection interlock.	Informed EPD by letter dated 11/05/2010.
L5 FGD	15/05/2010 02:33 to 02:38	Routine checking of bypass dampers	Informed EPD by letter dated 17/05/2010.
L5 FGD	23/05/2010 01:56 to 02:01	Routine checking of bypass dampers	Informed EPD by letter dated 25/05/2010.
L5 FGD	29/05/2010 04:49 to 05:02	Routine checking of bypass dampers	Informed EPD by letter dated 31/05/2010.
L5 FGD	05/06/2010 02:45 to 02:49	Routine checking of bypass dampers	Informed EPD by letter dated 09/06/2010.
L5 FGD	19/06/2010 03:42 to 03:57	Routine checking of bypass dampers	Informed EPD by letter dated 21/06/2010.
L5 FGD	26/06/2010 02:04 to 02:10	Routine checking of bypass dampers	Informed EPD by letter dated 29/06/2010.

### **Environmental Monitoring Works**

Environmental monitoring works were performed during the operation of Units L2, L4 and L5 FGD Plants in the reporting period.

#### *Air Quality*

No exceedance of Action and Limit levels for air quality were recorded in the reporting period.

#### *Water Quality*

No exceedance of Action and Limit levels for water quality were recorded in the reporting period.

## Environmental Licensing and Permitting

Description	Permit / Licence No.	Valid Period		Issued To	Date of Issuance
		From	To		
Environmental Permit for L4/5 FGD plants retrofit project	EP-248/2006	25/04/2006	-	HK Electric	25/04/2006
Environmental Permit for Unit L2 FGD plant retrofit project	EP-287/2007	02/10/2007	-	HK Electric	02/10/2007
Specified Processes Licence issued under APCO	L-7-002(7)	01/01/2009	31/12/2010	HK Electric	31/12/2008
WPCO discharge licence for Ash Lagoon	EP890/W2/XD018	16/04/2007	31/12/2011	HK Electric	16/04/2007

### Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

### Environmental Complaints

During the reporting period, there was one (1) enquiry concerning “dark smoke and combustion smell from Lamma P/S”. Yet no abnormality that might have caused the alleged observation was identified. There was no further enquiry since then.

### Future key issues

Key issues to be considered in the coming months include:

#### *Air Impact*

- To continuously carry out the air quality monitoring for Units L2, L4 and L5.

#### *Water Impact*

- To continuously carry out the water quality monitoring for FGD WWT plant.

### Concluding Remarks

The environmental performance of the projects was generally satisfactory.

## 1. INTRODUCTION

Unit L5 Flue Gas Desulphurization (FGD) Plant commenced operation in July 2009, followed by Units L2 and L4 FGD Plants in April 2010 after completion of erection works and a series of commissioning tests. The Environmental Team (hereinafter called the “ET”) was formed within The Hongkong Electric Co. Ltd (HK Electric) to undertake Environmental Monitoring and Audit for the “Operation of Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit Project” under the requirements of Clause 2.18 of Environmental Permit (EP) No. EP-248/2006 and “Operation of Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit Project” under the requirements of Clause 2.10 of Environmental Permit (EP) No. EP-287/2007.

This report summarizes the environmental monitoring and audit work for the said Projects for the period from April to June 2010.

### 1.1 Background

The Projects involves retrofitting the three existing coal-fired generating Units L2, L4 and L5 of Lamma Power Station with Flue Gas Desulphurisation (FGD) plants for reducing sulphur dioxide emissions in support of Government policy to improve the air quality of the Pearl River Delta.

The Projects include the installation and operation of FGD plants with flue gas desulphurization efficiency of 90% for the three coal-fired Units L2, L4 & L5 to reduce the overall SO<sub>2</sub> emissions from Lamma Power Station. The process adopted for the FGD plants is “Wet Limestone-Gypsum”, a technology which has already been used in, and proved effective and reliable for the existing coal-fired units L6, L7 & L8. The flue gas from the boiler is directed to the FGD absorber inside which removal of SO<sub>2</sub> is take place by reaction with limestone slurry. After passing through the absorber, the treated flue gas is heated up by a gas-gas heater to over 80°C at boiler rated capacity and directed back to the existing chimney for discharge to the atmosphere. Figure 1.1a, Figure 1.1b, Figure 1.2a, Figure 1.2b and Figure 1.3 show the location and schematic of the FGD plants.

Wastewater filtrated from the reacted limestone slurry, i.e. gypsum slurry, is produced and it is directed to the existing FGD wastewater treatment plant (WWTP). The FGD WWTP is designed to treat the effluent from FGD plants by alkalization, precipitation and neutralization processes. The schematic diagram of the FGD WWTP is illustrated in Figure 1.4.

The additional equipment for the FGD Plants retrofit projects for Units L2, L4 and L5 includes:

- Three sets of FGD absorbers and associated ductworks
- Three sets of booster fans
- Three sets of gas-gas heaters
- Two FGD Switchgear and Equipment Buildings
- Gypsum dewatering system comprising two sets of hydrocyclones and belt filters

## 1.2 Project Organisation

The management structure to oversee the Projects includes the following:

- Environmental Protection Department (The Authority);
- General Manager (Corporate Development) (The official contact person between HK Electric and EPD);
- Environmental Team Leader (ET Leader);
- Environmental Team (ET).

The organization chart for the Operation EM&A programme is shown in Figure 1.5.

## 1.3 Plant Availability during the Reporting Period

Units L2, L4 and L5 were out of service during the following period:

Unit	Period	Remark
L2	02/04/2010 00:30 to 07/04/2010 08:45	FGD outlet damper seal repair
L5	04/03/2010 22:48 to 03/05/2010 13:44	Unit overhaul

## 1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L2 FGD	14/04/2010 12:58 to 16:44	FGD gas-in was delayed due to FGD outlet damper fault	Informed EPD by letter dated 15/04/2010.

Equipment	Period	Cause	Actions Taken
L2 FGD	12/05/2010 00:00 to 05/06/2010 18:43	Defect rectification	Informed EPD by letters dated 11/05/2010 and 08/06/2010.
L2 FGD	10/06/2010 21:21 to 21:52	FGD was bypassed due to furnace pressure surge.	Informed EPD by letter dated 11/06/2010.
L2 FGD	14/06/2010 12:32 to 17:38	Booster Fan bearing lube oil replacement work.	Informed EPD by letter dated 15/06/2010.
L2 FGD	20/06/2010 16:18 to 16:24 21:49 to 21:55	FGD booster fan control sluggish.	Informed EPD by letter dated 21/06/2010.
L2 FGD	21/06/2010 16:07 to 16:52	Investigation of Booster Fan control sluggish defect.	Informed EPD by letter dated 21/06/2010.
L4 FGD	15/05/2010 02:45 to 02:48	Routine checking of bypass dampers	Informed EPD by letter dated 17/05/2010.
L4 FGD	23/05/2010 01:41 to 01:46	Routine checking of bypass dampers	Informed EPD by letter dated 25/05/2010.
L4 FGD	29/05/2010 03:11 to 03:39	Routine checking of bypass dampers	Informed EPD by letter dated 31/05/2010.
L4 FGD	05/06/2010 02:36 to 02:40	Routine checking of bypass dampers	Informed EPD by letter dated 09/06/2010.
L4 FGD	26/06/2010 01:35 to 01:44	Routine checking of bypass dampers	Informed EPD by letter dated 29/06/2010.
L5 FGD	09/05/2010 09:52 to 11:39	Operation of booster fan protection interlock.	Informed EPD by letter dated 11/05/2010.
L5 FGD	15/05/2010 02:33 to 02:38	Routine checking of bypass dampers	Informed EPD by letter dated 17/05/2010.
L5 FGD	23/05/2010 01:56 to 02:01	Routine checking of bypass dampers	Informed EPD by letter dated 25/05/2010.
L5 FGD	29/05/2010 04:49 to 05:02	Routine checking of bypass dampers	Informed EPD by letter dated 31/05/2010.
L5 FGD	05/06/2010 02:45 to 02:49	Routine checking of bypass dampers	Informed EPD by letter dated 09/06/2010.
L5 FGD	19/06/2010 03:42 to 03:57	Routine checking of bypass dampers	Informed EPD by letter dated 21/06/2010.
L5 FGD	26/06/2010 02:04 to 02:10	Routine checking of bypass dampers	Informed EPD by letter dated 29/06/2010.

## 1.5 Summary of EM&A Requirements

Environmental Monitoring and Audit (EM&A) requirements have been discussed in the Environmental Impact Assessment (EIA) Report/ Project Profile for the Projects. The assessment results indicate that environmental monitoring works required for the EM&A programmes of these Projects are already in place or would be implemented under Lamma Power Station Extension Environmental Permit or environmental licenses for the operation of the existing Lamma Power Station. Such monitoring works are considered adequate for the Projects and no additional EM&A activities are required. Hence, environmental monitoring for air quality and water quality are carried out for the purpose of this EM&A program as well as for fulfilling the requirements stipulated in the relevant licences.

The EM&A monitoring work for air and water quality are described in Section 2 and Section 3 respectively.

The following environmental audits are summarized in Section 4 of the report:

- Environmental monitoring results;
- The status of environmental licensing and permits for the Projects;
- The implementation status of environmental protection and pollution control / mitigation measures.

The future key issues for the Projects will be reported in Section 5 of this report.

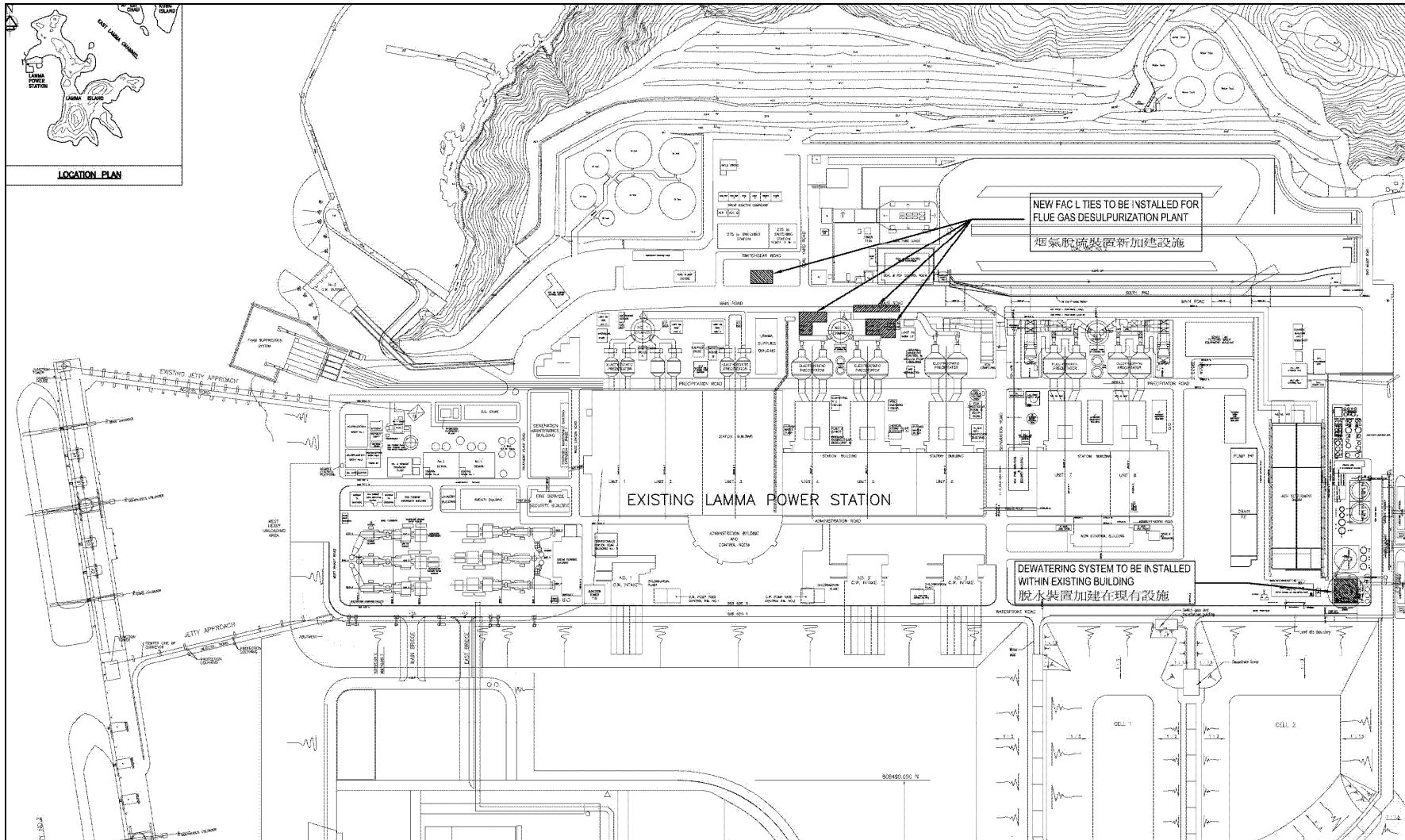


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

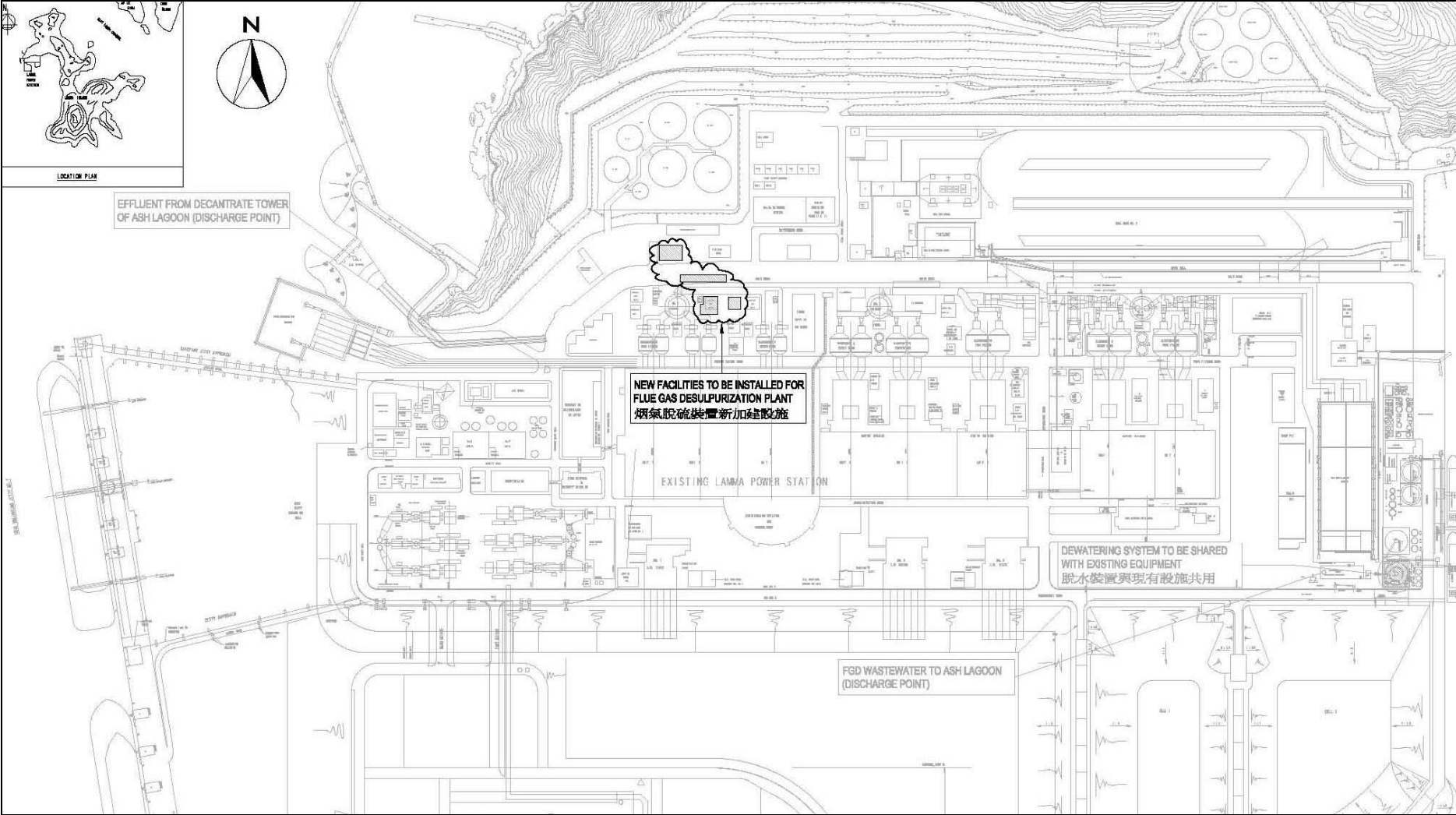


Figure 1.1b Location of New Facilities for L2 FGD Plant

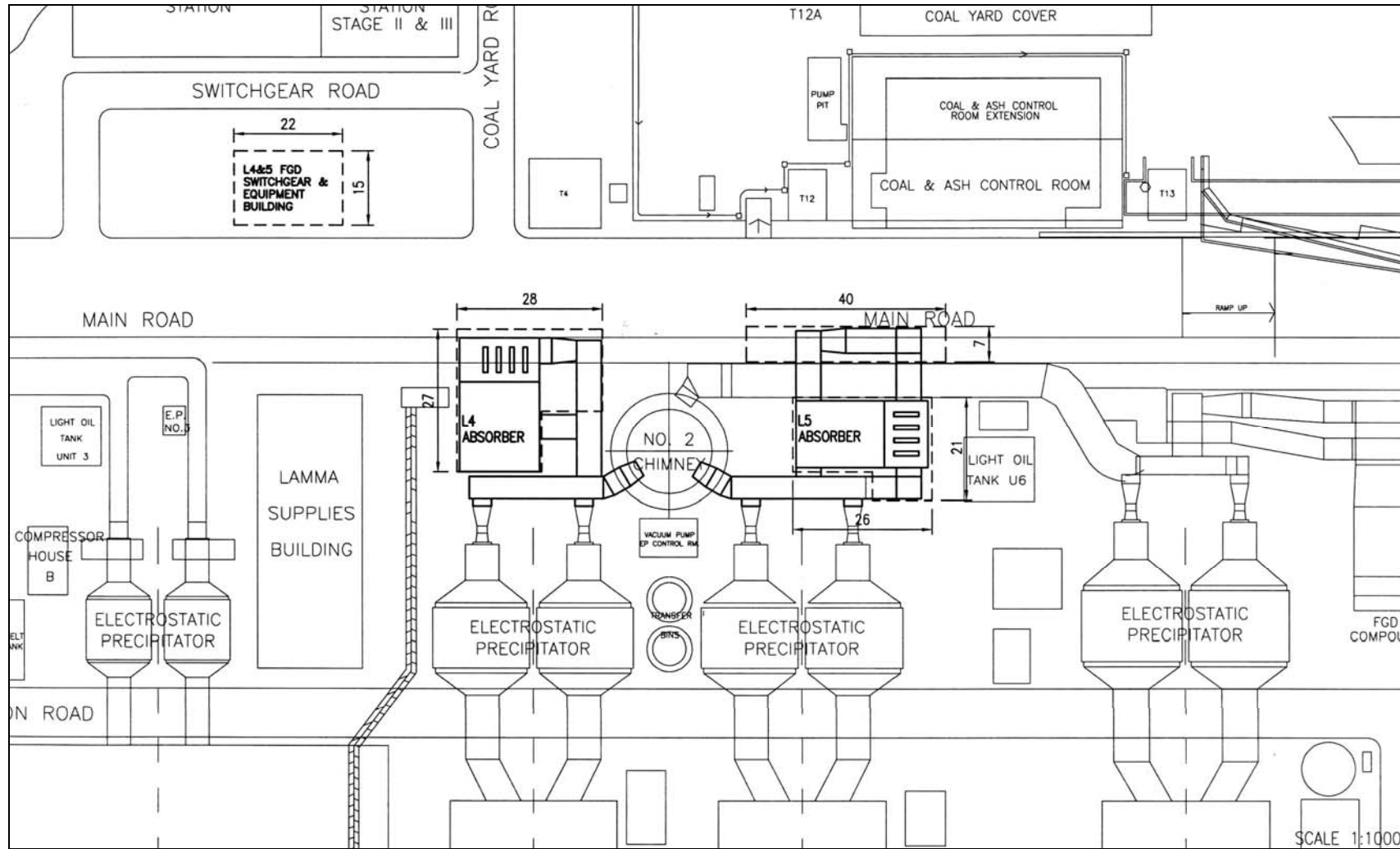


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

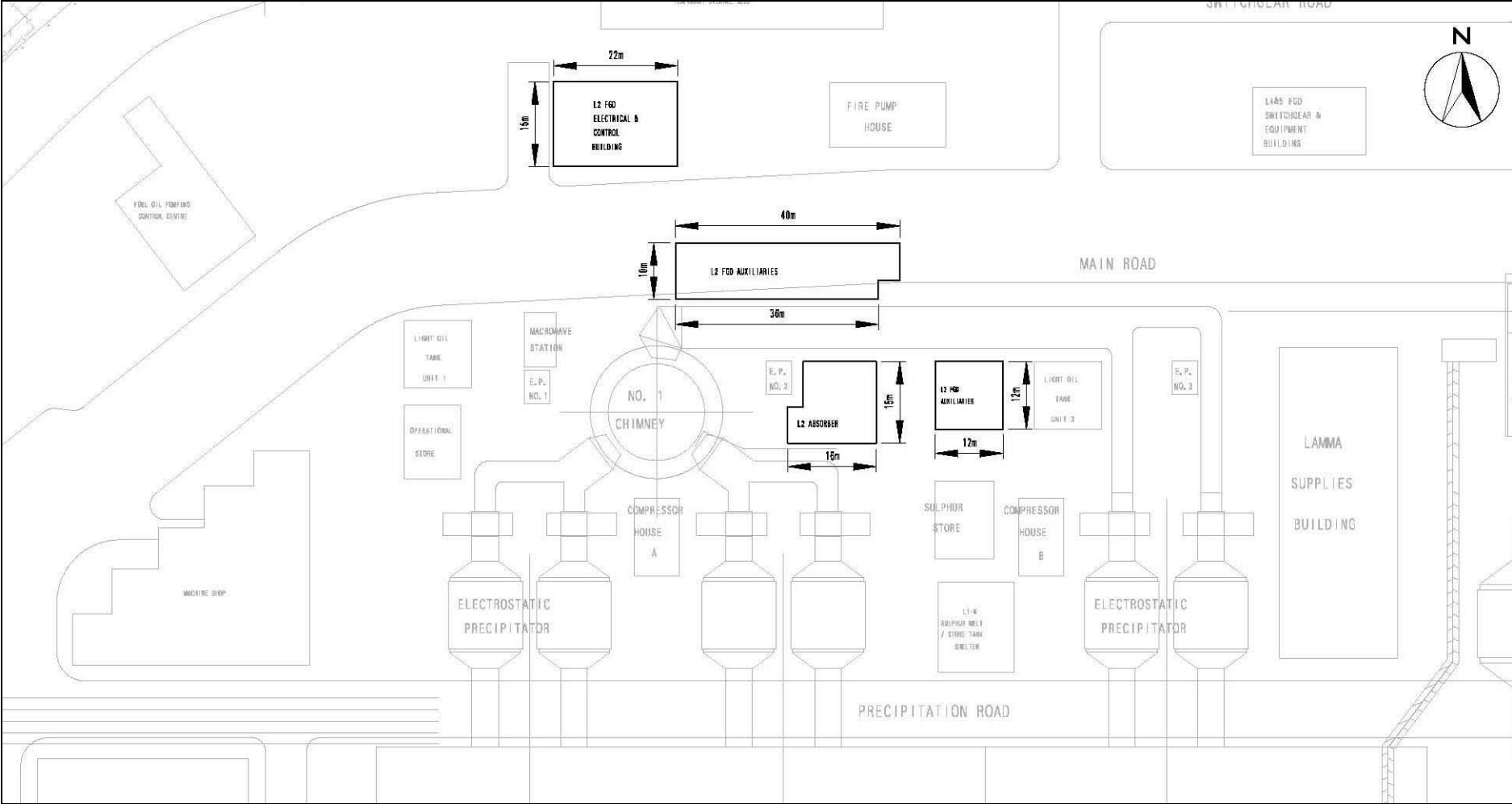


Figure 1.2b General Arrangement of L2 FGD Plant

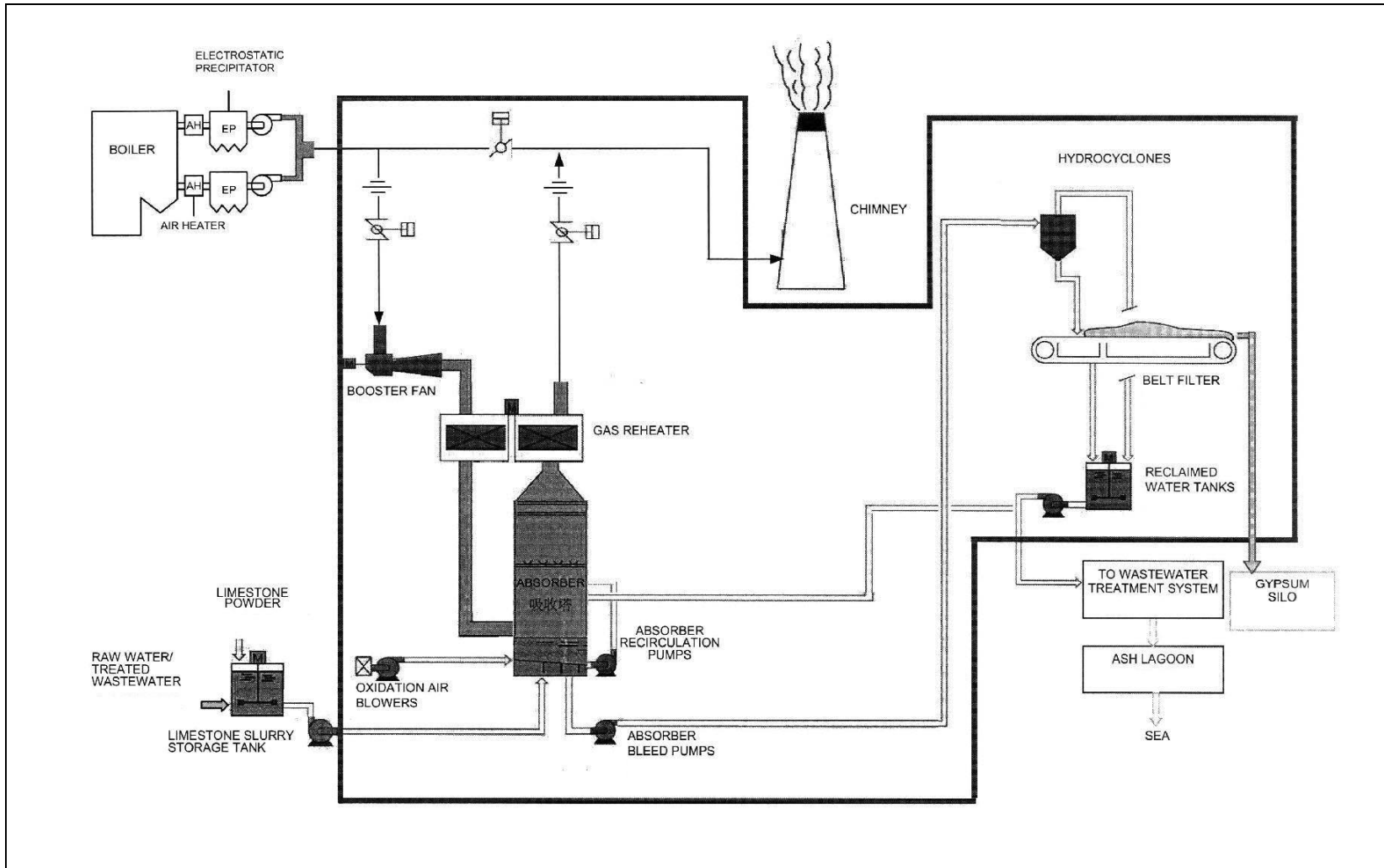


Figure 1.3 Schematic Diagram of the L4 & L5 FGD Plant

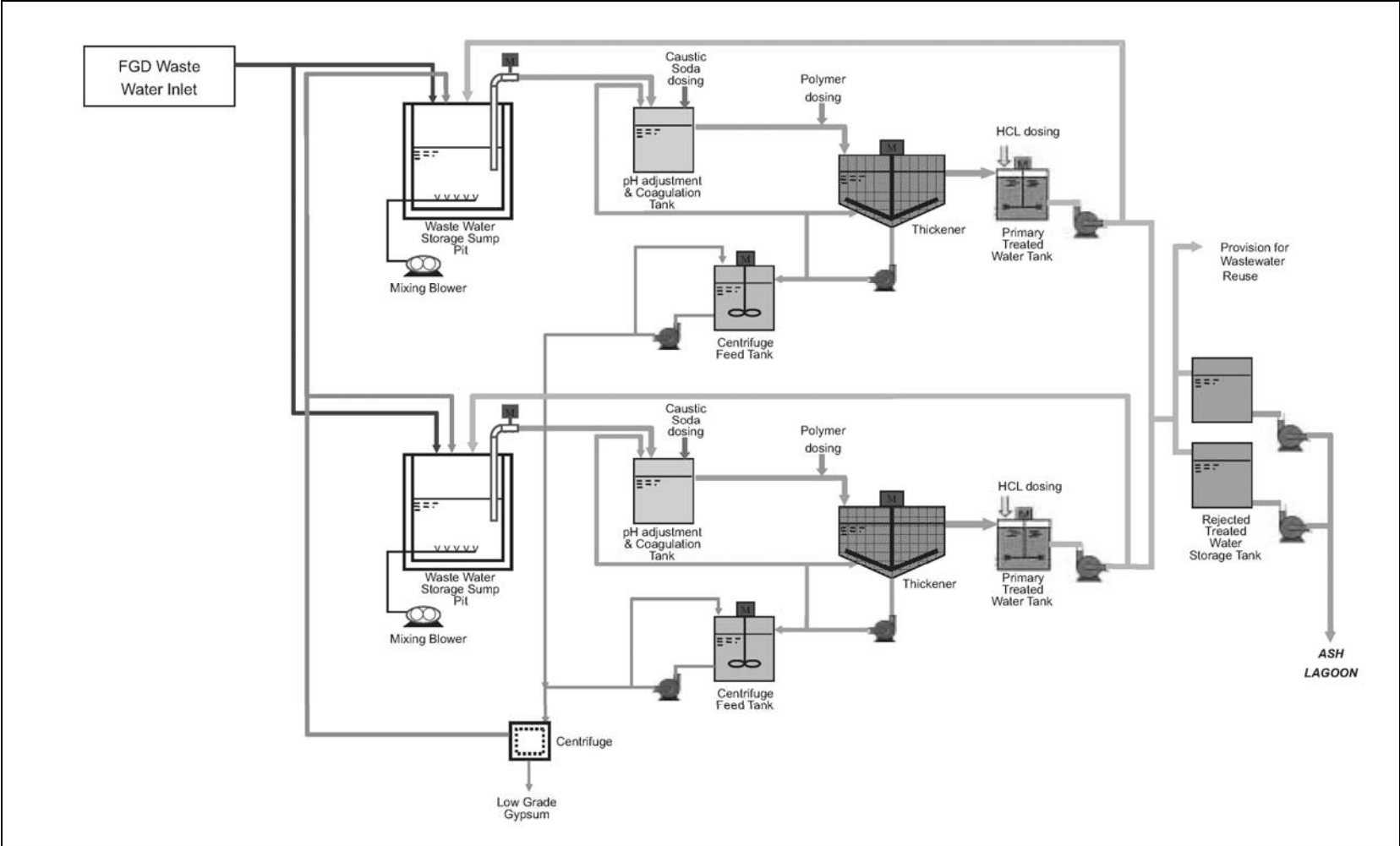


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

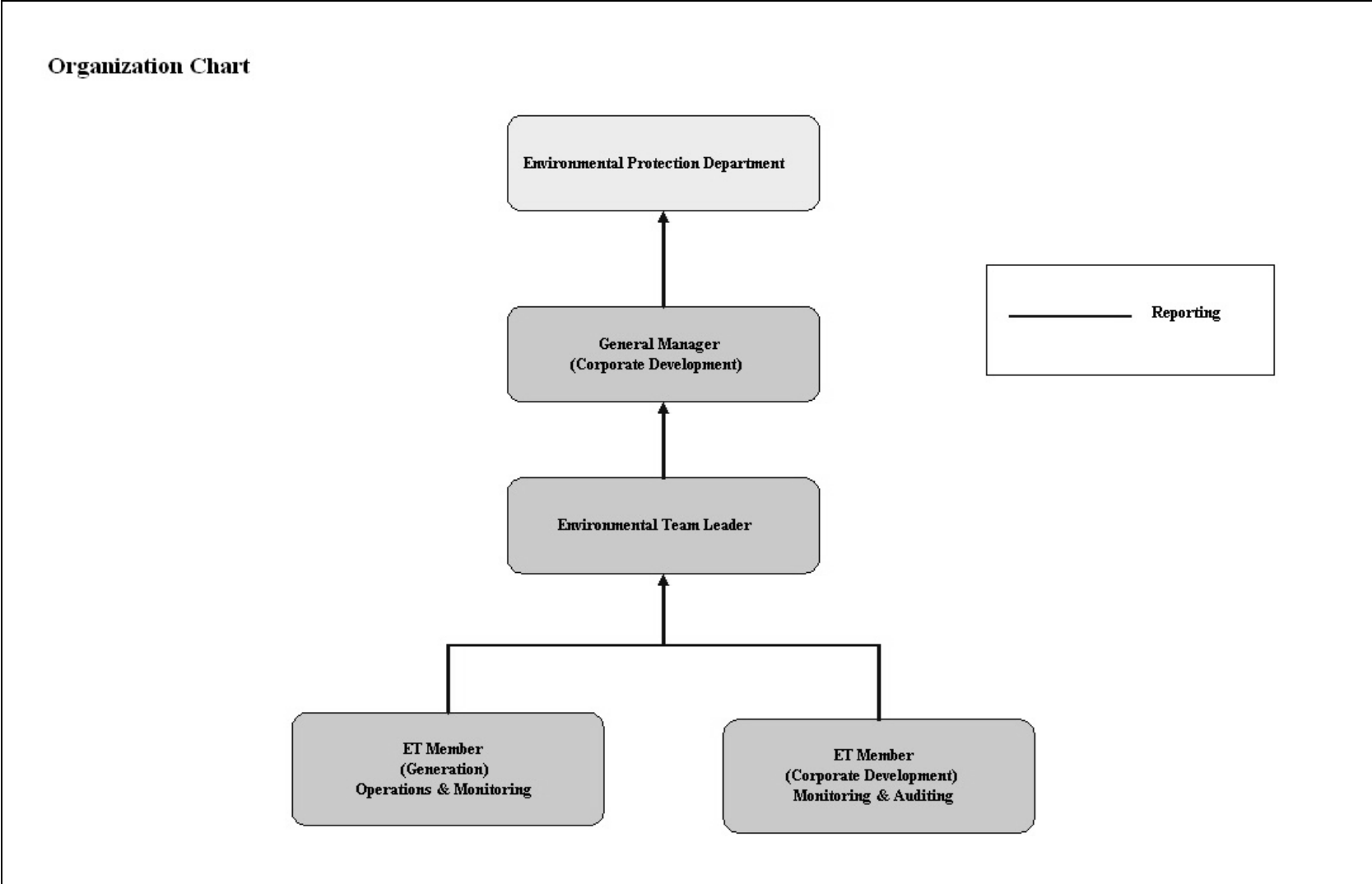


Figure 1.5 Organization Structure at Operational Phase of the Projects

## 2. AIR QUALITY

### 2.1 Monitoring Requirements

Since the Projects will bring a general air quality improvement, no additional EM&A activities are considered required, besides those already in place, such as those required by specified process licenses for the operation of the existing Lamma Power Station. In accordance with the requirements stipulated in the Specified Processes Licence issued under Air Pollution Control Ordinance, various operation parameters as stated in Table 2.1 were monitored and checked against the Action/Limit Levels shown in Appendix A.

Table 2.1 Air Quality Monitoring Parameters and Frequency

Sources of Emission	Parameter	Frequency
Steam boilers L2, L4 & L5	Particulate	Once / year
	Particulate (Opacity)	Continuous
	SO <sub>2</sub>	Continuous
	NO <sub>x</sub> expressed as NO <sub>2</sub> (For L4 and L5 only)	Continuous
Fugitive Dust (Coal, PFA, Limestone, gypsum)	Total Suspended Particulate	Once every six days
Chimney emissions	Ambient air	Continuous at existing ambient air monitoring stations
	SO <sub>2</sub>	
	NO <sub>2</sub>	

### 2.2 Summary of Results and Observations

Monitoring of various parameters as listed in Table 2.1 above was conducted during the operation of Units L2, L4 and L5 in the reporting period. A summary of monitoring data is shown in Appendix B.

No Action/Limit Level exceedance was recorded in the reporting period.

### 3. WATER QUALITY

#### 3.1 Monitoring Requirements

According to the EIA Report/ Project Profile for the Projects, the current monitoring programme for the Lamma Power Station can cover the Projects and no additional EM&A measures are required besides those already in place. Hence, the EM&A work on water quality should strictly follow the relevant monitoring requirements stipulated in the discharge licence for Ash Lagoon issued under the Water Pollution Control Ordinance (WPCO).

Water quality monitoring was carried out for FGD Waste Water Treatment Plant (WWTP) in the reporting period. The parameters stated in Table 3.1 were monitored and checked against the Action/Limit Levels as given in Appendix A.

Table 3.1 Water Quality Monitoring Parameters and Frequencies

Item	Parameters	Frequencies
1	pH	Daily
2	Suspended Solids	Daily
3	Iron	Monthly
4	Barium	Monthly
5	Mercury	Monthly
6	Cadmium	Monthly
7	Cyanide	Monthly
8	Total Phosphorus	Monthly
9	Total Nitrogen	Monthly

#### 3.2 Summary of Results and Observations

Monitoring of various parameters as listed in Table 3.1 above was carried out during the discharge of the WWTP in the reporting period. A summary of the data is shown in Appendix C.

The data recorded for the monitoring parameters were all below their corresponding Action/Limit Levels. No Action/Limit level exceedance was recorded in the reporting period. The effluent quality was generally satisfactory.

## 4. ENVIRONMENTAL AUDIT

### 4.1 Review of Environmental Monitoring Procedures

The environmental monitoring procedures were regularly reviewed by the Environmental Team. No modification to the existing monitoring procedures was recommended.

### 4.2 Assessment of Environmental Monitoring Results

#### *Monitoring results for Air Quality and Water Quality*

The environmental monitoring results for air quality, noise and water quality are presented in Sections 2, 3 and 4 respectively are summarized in Table 4.1.

Table 4.1 Summary of Action/Limit Level Exceedances on Monitoring Parameters

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/04/10 30/06/10	N.A.	0	
2	Continuous monitoring of opacity, NO <sub>x</sub> , SO <sub>2</sub> and CO <sub>2</sub> in the flue gas at the chimney stacks	01/04/10 30/06/10	0	0	
3	TSP monitoring at Lamma Power Station Boundary (ie East Gate and Reservoir).	01/04/10 30/06/10	0	0	
4	Ambient SO <sub>2</sub> & NO <sub>x</sub> monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and	01/04/10 30/06/10	0	0	

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
	Cheung Chau.				
Water					
1	pH in WWTP Effluent	01/04/10 30/06/10	0	0	
2	Suspended Solids in WWTP Effluent	01/04/10 30/06/10	0	0	
3	Iron in WWTP Effluent	01/04/10 30/06/10	0	0	
4	Barium in WWTP Effluent	01/04/10 30/06/10	0	0	
5	Mercury in WWTP Effluent	01/04/10 30/06/10	0	0	
6	Cadmium in WWTP Effluent	01/04/10 30/06/10	0	0	
7	Cyanide in WWTP Effluent	01/04/10 30/06/10	0	0	
8	Total Phosphorus in WWTP Effluent	01/04/10 30/06/10	0	0	
9	Total Nitrogen in WWTP Effluent	01/04/10 30/06/10	0	0	

### *Waste Management Records*

The quantity of FGD gypsum and sludge collected for reuse by contractor in the reporting period are shown in Table 4.2.

Table 4.2 Amount of Gypsum and Sludge Collected for Reuse by Contractor

Period	Amount of Gypsum Collected	Amount of Sludge Collected
April 2010	3,619.0 MT	6.7 MT
May 2010	6,533.5 MT	34.9 MT
June 2010	9,388.4 MT	25.0 MT

#### 4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of June 2010 are summarised in Table 4.3.

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit for Units L4/5 FGD Plants Retrofit	EP-248/2006	25/04/2006	-	Valid
Environmental Permit for Unit L2 FGD Plant Retrofit	EP-287/2007	02/10/2007	-	Valid
Specified Processes Licence issued under APCO	L-7-002(7)	01/01/2009	31/12/2010	Valid
WPCO discharge licence for Ash Lagoon	EP890/W2/XD018	16/04/2007	31/12/2011	Valid

#### 4.4 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the EIA Report and EP are required to be implemented. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix D.

#### 4.5 Implementation Status of Event/Action Plan

A list of specific actions in the event of exceedances of the various threshold levels for specific emission and discharge sources is given in Appendix A.

As no Action/Limit level exceedance was recorded, no action has been devised.

#### 4.6 Implementation Status of Environmental Complaint Handling Procedures

During the reporting period, there was one (1) enquiry concerning “dark smoke and combustion smell from Lamma P/S” as summarized in Table 4.4.

Table 4.4 Environmental Complaints / Enquiries Received

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
<p><i>Reference:</i> EC100700165</p> <p><i>Received:</i> 08/07/2010 p.m.</p> <p><i>Concerned:</i> 23/06/2010 – 07/07/2010 at night and mid-night</p>	<p>EPD informed HK Electric via email that the Department had received two complaints against “dark smoke and combustion smell from the chimneys of Lamma P/S at night and mid-night”. After investigation, HK Electric found no abnormality that might have caused the alleged observation. HK Electric has also provided relevant monitoring data to EPD for reference as requested. There was no further enquiry since then.</p>	<p>Nothing abnormal was identified. EPD was replied and there was no further enquiry.</p>

Table 4.4 Outstanding Environmental Complaints / Enquiries Carried Over

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

## **5. FUTURE KEY ISSUES**

### **5.1 Outage Plan for the coming 3 months**

No major outage planned for the next 3 months.

### **5.2 Key issues for the coming 3 months**

Key issues to be considered in the coming 3 months include:

#### *Air Impact*

- To continuously carry out the air quality monitoring for Units L2, L4 and L5.

#### *Water Impact*

- To continuously carry out the water quality monitoring for FGD Waste Water Treatment Plant.

## 6. CONCLUSION

Environmental monitoring was performed as required in the reporting period from April to June 2010. All monitoring results were checked and reviewed.

No Action/Limit level exceedance on air quality parameters were recorded in the reporting period.

No Action/Limit level exceedance on water quality parameters were recorded in the reporting period.

Environmental mitigation measures recommended in the EIA Report and EP were implemented in the reporting period. There was one (1) enquiry concerning “dark smoke and combustion smell from Lamma P/S”. Yet no abnormality that might have caused the alleged observation was identified. No prosecution was received for the Projects in the reporting period.

The environmental performance of the Projects was generally satisfactory.

## Appendix A Event/Action Plans in Response to Exceedance of AL Levels

### A.1 Air

Source of Emissions	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
Steam boilers L2, L4 and L5	Particulate	once/year	85 mg/Nm <sup>3</sup>	-	85	ET Leader informs Generation Division at action level. Maintenance initiated. Temporary load shift until pollution control equipment repaired and reinstated. Report to EPD.
	Particulate (Opacity)	continuous	40% (bihourly)	35	40	
	SO <sub>2</sub>	continuous	200 mg/Nm <sup>3</sup> (1h)	190	200	
	NO <sub>x</sub> expressed as NO <sub>2</sub> (For L4 and L5 only)	continuous	615 mg/Nm <sup>3</sup> (1h)	585	615	
Fugitive dust (Coal, PFA, limestone, gypsum)	TSP	Once every six days.	260 (µg/m <sup>3</sup> ) (24 hours)	-	260	Investigation of sources and additional dust suppression to be employed at Limit level. Frequency of monitoring to be increased as necessary.
Chimney emissions	Ambient air SO <sub>2</sub>	Continuous at existing ambient air monitoring stations	800 (µg/m <sup>3</sup> ) (1h)	-	800	ET to review data on post-hoc basis and check for possible power station contribution.
	NO <sub>2</sub>		300 (µg/m <sup>3</sup> ) (1h)	-	300	

## A.2 Water

Source of Discharges	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
FGD Wastewater Treatment Plant	pH	Daily	6-9	-	6-9	If pH exceeds limit level, consideration to be given to adjust chemical dosing. ET Leader inform Generation Division and investigation be initiated to identify and remedy cause.  For all other parameters except pH, Generation Division to be informed, frequency of monitoring to be increased, and investigations to be initiated to identify cause and remedy if concentration exceeds action level. If problem persists to exceed the limit level, ET Leader verbally informs EPD and ensures remedial actions implemented.
	Suspended Solids	Daily	30 mg/L	25	30	
	Iron	Monthly	4 mg/L	3.6	4	
	Barium	Monthly	1.5 mg/L	1.3	1.5	
	Mercury	Monthly	0.005 mg/L	0.0045	0.005	
	Cadmium	Monthly	0.005 mg/L	0.0045	0.005	
	Cyanide	Monthly	0.1 mg/L	0.09	0.1	
	Total Phosphorus	Monthly	8 mg/L	7.2	8	
	Total Nitrogen	Monthly	400 mg/L	360	400	



## B.2 Unit L2, L4 and L5 Stack Monitoring at Lamma Power Station

### B.2.1 Monthly Summary of Stack NO<sub>x</sub> and SO<sub>2</sub> for Unit L5

Date	Daily Maximum		
	SO <sub>2</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	NO <sub>x</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	Opacity (%)
1/4/2010	*	*	*
2/4/2010	*	*	*
3/4/2010	*	*	*
4/4/2010	*	*	*
5/4/2010	*	*	*
6/4/2010	*	*	*
7/4/2010	*	*	*
8/4/2010	*	*	*
9/4/2010	*	*	*
10/4/2010	*	*	*
11/4/2010	*	*	*
12/4/2010	*	*	*
13/4/2010	*	*	*
14/4/2010	*	*	*
15/4/2010	*	*	*
16/4/2010	*	*	*
17/4/2010	*	*	*
18/4/2010	*	*	*
19/4/2010	*	*	*
20/4/2010	*	*	*
21/4/2010	*	*	*
22/4/2010	*	*	*
23/4/2010	*	*	*
24/4/2010	*	*	*
25/4/2010	*	*	*
26/4/2010	*	*	*
27/4/2010	*	*	*
28/4/2010	*	*	*
29/4/2010	*	*	*
30/4/2010	*	*	*

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/5/2010	*	*	*
2/5/2010	*	*	*
3/5/2010	7	368	12
4/5/2010	2	367	12
5/5/2010	0	358	12
6/5/2010	1	310	11
7/5/2010	11	344	12
8/5/2010	5	352	12
9/5/2010	3	367	12
10/5/2010	9	353	12
11/5/2010	11	329	12
12/5/2010	8	336	12
13/5/2010	7	340	12
14/5/2010	13	308	12
15/5/2010	13	302	12
16/5/2010	8	323	12
17/5/2010	21	351	12
18/5/2010	44	482	14
19/5/2010	81	385	15
20/5/2010	43	348	16
21/5/2010	58	358	15
22/5/2010	28	352	17
23/5/2010	8	381	17
24/5/2010	20	437	20
25/5/2010	24	406	24
26/5/2010	40	487	22
27/5/2010	19	493	21
28/5/2010	18	500	22
29/5/2010	15	478	24
30/5/2010	16	464	26
31/5/2010	23	449	25

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/6/2010	54	381	21
2/6/2010	53	292	20
3/6/2010	65	338	21
4/6/2010	84	368	19
5/6/2010	102	384	19
6/6/2010	42	399	19
7/6/2010	58	375	20
8/6/2010	84	382	20
9/6/2010	94	392	17
10/6/2010	100	374	18
11/6/2010	56	403	18
12/6/2010	46	328	17
13/6/2010	14	275	16
14/6/2010	29	263	17
15/6/2010	67	266	19
16/6/2010	11	259	15
17/6/2010	49	407	17
18/6/2010	36	386	16
19/6/2010	16	298	15
20/6/2010	6	364	18
21/6/2010	15	372	20
22/6/2010	14	412	19
23/6/2010	39	399	21
24/6/2010	35	406	18
25/6/2010	40	384	17
26/6/2010	26	392	16
27/6/2010	13	356	15
28/6/2010	25	364	19
29/6/2010	36	329	15
30/6/2010	44	269	14

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO<sub>2</sub> condition.

\* - Unit L5 was not on load.

### B.2.2 Monthly Summary of Stack NO<sub>x</sub> and SO<sub>2</sub> for Unit L4

Date	Daily Maximum		
	SO <sub>2</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	NO <sub>x</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	Opacity (%)
1/5/2010	16	371	20
2/5/2010	7	313	20
3/5/2010	2	334	20
4/5/2010	2	341	21
5/5/2010	*	*	*
6/5/2010	4	264	18
7/5/2010	19	324	19
8/5/2010	10	290	19
9/5/2010	9	431	19
10/5/2010	9	326	19
11/5/2010	10	343	19
12/5/2010	12	357	19
13/5/2010	13	354	20
14/5/2010	36	374	21
15/5/2010	26	425	20
16/5/2010	14	437	19
17/5/2010	30	361	21
18/5/2010	79	326	22
19/5/2010	70	317	19
20/5/2010	30	350	23
21/5/2010	26	475	28
22/5/2010	7	371	26
23/5/2010	10	371	24
24/5/2010	16	409	25
25/5/2010	31	446	26
26/5/2010	71	447	21
27/5/2010	96	436	16
28/5/2010	99	440	15
29/5/2010	32	400	19
30/5/2010	12	426	20
31/5/2010	36	410	21

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/6/2010	104	400	12
2/6/2010	99	417	9
3/6/2010	108	382	10
4/6/2010	131	365	9
5/6/2010	123	445	10
6/6/2010	121	476	9
7/6/2010	106	461	10
8/6/2010	102	371	12
9/6/2010	79	377	13
10/6/2010	81	377	9
11/6/2010	83	379	9
12/6/2010	104	386	9
13/6/2010	43	395	7
14/6/2010	102	304	11
15/6/2010	94	362	9
16/6/2010	31	388	8
17/6/2010	71	381	13
18/6/2010	16	292	9
19/6/2010	61	380	10
20/6/2010	32	397	11
21/6/2010	69	426	16
22/6/2010	39	400	15
23/6/2010	23	447	12
24/6/2010	70	418	13
25/6/2010	79	350	12
26/6/2010	94	405	8
27/6/2010	29	430	8
28/6/2010	94	428	13
29/6/2010	60	339	10
30/6/2010	95	431	7

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO<sub>2</sub> condition.

\* - Unit L4 was not on load.

### B.2.3 Monthly Summary of Stack SO<sub>2</sub> for Unit L2

Date	Daily Maximum	
	SO <sub>2</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	Opacity (%)
1/4/2010	27	17
2/4/2010	*	*
3/4/2010	*	*
4/4/2010	*	*
5/4/2010	*	*
6/4/2010	*	*
7/4/2010	28	18
8/4/2010	14	18
9/4/2010	50	17
10/4/2010	27	16
11/4/2010	*	*
12/4/2010	50	18
13/4/2010	65	17
14/4/2010	45	16
15/4/2010	37	16
16/4/2010	*	*
17/4/2010	*	*
18/4/2010	*	*
19/4/2010	30	17
20/4/2010	41	17
21/4/2010	43	15
22/4/2010	97	14
23/4/2010	*	*
24/4/2010	*	*
25/4/2010	*	*
26/4/2010	*	*
27/4/2010	46	14
28/4/2010	62	14
29/4/2010	58	15
30/4/2010	55	15

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) #	Opacity (%)
1/5/2010	35	15
2/5/2010	*	*
3/5/2010	43	16
4/5/2010	*	*
5/5/2010	*	*
6/5/2010	*	*
7/5/2010	*	*
8/5/2010	21	13
9/5/2010	*	*
10/5/2010	17	15
11/5/2010	*	*
12/5/2010	FGD bypassed	*
13/5/2010	FGD bypassed	*
14/5/2010	FGD bypassed	13
15/5/2010	FGD bypassed	*
16/5/2010	FGD bypassed	*
17/5/2010	FGD bypassed	15
18/5/2010	FGD bypassed	19
19/5/2010	FGD bypassed	19
20/5/2010	FGD bypassed	19
21/5/2010	FGD bypassed	20
22/5/2010	FGD bypassed	21
23/5/2010	FGD bypassed	21
24/5/2010	FGD bypassed	21
25/5/2010	FGD bypassed	23
26/5/2010	FGD bypassed	25
27/5/2010	FGD bypassed	27
28/5/2010	FGD bypassed	26
29/5/2010	FGD bypassed	28
30/5/2010	FGD bypassed	26
31/5/2010	FGD bypassed	25

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/6/2010	FGD bypassed	29
2/6/2010	FGD bypassed	28
3/6/2010	FGD bypassed	23
4/6/2010	FGD bypassed	31
5/6/2010	9	31
6/6/2010	42	15
7/6/2010	71	15
8/6/2010	83	16
9/6/2010	83	14
10/6/2010	59	14
11/6/2010	63	14
12/6/2010	51	14
13/6/2010	*	*
14/6/2010	41	17
15/6/2010	126	14
16/6/2010	57	13
17/6/2010	47	14
18/6/2010	29	14
19/6/2010	23	15
20/6/2010	37	16
21/6/2010	35	16
22/6/2010	27	15
23/6/2010	22	16
24/6/2010	40	15
25/6/2010	41	15
26/6/2010	41	16
27/6/2010	42	15
28/6/2010	43	15
29/6/2010	41	15
30/6/2010	98	15

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO<sub>2</sub> condition.

\* - Unit L2 was not on load.

#### **B.2.4 Summary of Annual Stack Particulate Sampling**

Unit	Date	Results (mg/Nm <sup>3</sup> )
L4	28/04/2010	6
L5	10/06/2010	10

Monitoring Equipment: Napp model 32 (Manual stack sampling system)

### **B.3 Ambient SO<sub>2</sub> and NO<sub>2</sub> monitoring Data at Southern District and Cheung Chau**

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	2	2	2	2	1	2	1	2	2	1	1	2	2	2	3	2	3	3	3	2	2	****	2	2
2	3	2	2	7	3	3	1	1	3	34	52	50	41	47	51	43	24	4	2	2	3	3	****	3	17
3	2	2	1	2	2	2	2	2	3	2	2	2	2	3	2	3	3	3	3	3	3	3	****	4	2
4	3	4	3	3	2	2	3	2	3	1	2	3	2	1	1	1	0	0	1	0	0	0	****	1	2
5	1	2	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	****	0	1
6	1	1	3	2	3	2	2	1	2	2	2	1	1	2	2	2	3	1	2	2	3	4	****	4	2
7	3	3	4	3	4	6	5	4	3	3	2	2	2	2	1	1	1	1	1	1	1	1	****	3	3
8	2	3	3	3	2	3	2	2	2	2	1	1	2	3	3	3	7	9	36	11	6	6	****	6	5
9	5	4	2	2	3	3	3	7	11	20	9	7	6	6	4	4	4	4	3	2	2	2	****	2	5
10	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	****	0	1
11	0	0	0	0	0	0	0	1	2	3	2	3	1	2	3	2	3	2	2	2	2	3	****	4	2
12	3	3	3	3	2	2	3	2	3	3	3	3	2	2	3	3	3	2	3	3	2	1	****	2	3
13	1	1	1	2	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	****	0	1
14	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	1	1	1	2	1	1	****	1	1
15	1	2	2	2	2	3	2	2	2	2	3	4	1	2	2	1	2	5	2	2	2	1	****	1	2
16	1	1	2	1	3	6	10	12	5	3	2	3	3	4	5	4	3	5	5	5	5	5	****	4	4
17	4	4	3	2	2	1	1	2	3	3	3	5	5	5	5	4	4	3	4	3	4	3	****	5	3
18	6	5	4	3	3	3	3	4	3	3	3	3	2	2	2	2	3	2	2	2	2	3	****	5	3
19	5	3	4	4	4	4	4	4	4	4	2	4	3	3	1	1	2	1	2	1	1	2	****	2	3
20	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	0	2	0	****	2	1
21	1	1	1	1	0	1	2	2	1	1	5	4	5	2	3	1	2	2	2	2	1	1	****	2	2
22	4	2	3	3	2	4	3	3	2	4	3	3	2	2	3	3	4	8	15	15	31	26	****	8	7
23	5	4	3	3	2	2	2	2	5	6	7	5	6	8	9	3	3	5	5	5	5	2	****	9	5
24	4	0	1	1	2	2	3	4	4	6	11	14	14	16	16	15	13	13	15	14	14	12	****	11	9
25	8	8	8	7	7	9	8	8	9	8	8	8	9	8	5	5	4	6	8	5	6	5	****	5	7
26	5	6	4	3	3	4	3	4	3	2	3	4	13	21	44	39	37	25	21	12	18	21	****	5	13
27	3	13	8	5	4	7	3	7	16	22	36	34	32	61	36	23	8	5	4	4	4	8	****	5	15
28	6	8	5	6	4	4	4	4	4	7	26	30	19	33	55	50	21	22	26	22	23	25	****	21	18
29	21	26	23	37	41	21	19	18	15	16	7	5	5	7	3	4	2	1	1	0	0	0	****	0	12
30	1	0	0	1	0	1	1	1	1	1	2	1	1	2	2	4	2	3	2	2	11	8	****	8	2

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->						<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
2	2	5	2	11	22	37	46	0	- 61	3	96	0	0		

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK  
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	2	1	2	1	4	17	37	43	48	41	18	38	38	42	44	32	36	34	29	14	****	15	24
2	14	3	1	20	11	23	12	7	22	54	58	56	59	69	68	66	66	31	20	21	18	18	****	23	32
3	15	9	8	8	9	6	6	9	15	16	20	16	16	22	26	22	15	17	18	19	15	14	****	17	15
4	13	11	7	9	4	4	6	13	14	10	15	23	20	27	36	23	29	40	35	37	21	21	****	8	19
5	4	10	1	2	0	0	1	7	10	18	25	26	25	23	25	24	20	19	16	24	17	15	****	3	14
6	4	1	1	1	5	4	4	6	9	13	16	17	19	19	27	26	28	41	34	37	29	21	****	9	16
7	2	3	5	8	12	13	12	14	28	41	42	31	27	37	42	32	40	30	21	17	15	11	****	13	22
8	8	5	5	4	3	4	5	10	31	38	47	74	56	75	61	59	103	90	117	93	84	78	****	75	49
9	74	70	58	47	44	42	26	33	39	42	37	29	46	67	81	81	88	87	56	25	10	54	****	12	50
10	17	22	5	5	4	1	2	5	9	23	27	19	34	39	38	34	49	50	43	25	26	20	****	8	22
11	5	3	3	1	1	2	1	8	16	20	18	15	12	15	11	17	14	15	11	17	13	12	****	8	10
12	5	3	1	2	0	3	7	13	26	34	37	35	16	28	28	29	32	27	23	23	23	17	****	9	18
13	10	8	6	7	2	1	4	12	26	31	19	16	16	15	21	24	19	64	25	16	16	21	****	18	17
14	15	10	8	6	4	5	6	8	13	17	21	21	14	19	30	33	28	22	15	15	14	22	****	26	16
15	23	12	13	15	13	11	16	30	47	59	55	49	47	50	56	61	53	53	48	53	54	54	****	43	40
16	42	41	43	34	37	38	41	43	47	49	48	43	44	48	62	60	63	69	57	50	48	30	****	17	46
17	15	12	19	12	8	4	7	17	24	31	29	50	28	45	37	52	38	27	19	18	27	19	****	16	24
18	11	8	6	4	2	4	12	16	11	13	13	15	21	23	24	21	15	13	12	13	14	25	****	23	14
19	23	14	7	4	0	2	10	29	33	50	39	53	44	29	27	27	24	16	41	23	14	23	****	13	24
20	14	4	7	2	1	0	6	14	22	23	27	39	32	35	23	37	32	18	15	13	17	10	****	15	18
21	10	8	3	2	1	5	9	14	17	24	38	38	19	44	28	30	29	23	16	17	11	9	****	8	18
22	9	4	4	6	2	5	6	12	18	20	18	18	12	8	23	24	52	81	92	82	74	66	****	53	30
23	32	31	13	11	9	12	13	35	58	67	63	50	46	31	33	25	46	69	51	47	42	36	****	40	37
24	30	15	10	8	8	7	13	21	27	29	24	23	15	20	27	27	28	30	32	27	19	17	****	10	20
25	8	6	4	2	2	3	3	8	13	20	20	18	16	13	14	15	16	18	19	13	13	12	****	4	11
26	6	9	2	0	0	2	2	20	26	19	17	23	58	68	94	106	118	113	107	86	107	106	****	88	51
27	52	47	50	31	24	39	14	52	82	91	81	82	73	78	68	61	78	47	55	99	41	34	****	25	57
28	11	7	3	2	1	5	17	20	42	89	82	66	51	83	106	103	99	99	101	117	139	133	****	117	65
29	81	55	36	34	58	38	42	45	56	76	37	66	28	40	46	34	30	30	25	31	20	24	****	8	41
30	3	1	6	6	4	5	9	20	42	47	43	49	44	52	49	48	54	66	52	31	45	33	****	15	32

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
18	21	28	21	61	81	102	110	0	- 139	3	96	0	0		

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT  
MONTH: MAY

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	9	6	3	3	3	3	5	5	5	6	10	5	30	11	3	6	3	3	2	1	3	2	****	5	6
2	5	5	3	3	4	5	4	8	5	10	17	20	15	17	16	21	10	10	16	21	11	4	****	3	10
3	3	1	1	1	2	4	4	6	6	2	2	3	4	4	2	3	2	3	3	4	3	4	****	3	3
4	4	4	2	2	4	3	3	2	3	2	3	2	1	1	1	1	1	1	1	1	3	2	****	3	2
5	3	3	3	3	3	2	3	3	2	4	2	5	4	15	5	4	6	5	6	8	6	3	****	7	5
6	6	5	5	4	4	6	4	4	2	5	6	5	4	3	4	3	3	3	3	3	2	4	****	6	4
7	6	5	3	3	3	4	6	1	3	3	3	2	3	2	3	2	3	6	5	3	2	2	****	4	3
8	3	3	1	2	2	2	5	3	1	1	2	1	1	0	0	0	0	0	0	0	0	1	****	1	1
9	1	1	2	1	1	3	2	1	2	7	8	7	2	1	1	3	3	3	1	3	1	1	****	13	3
10	7	2	2	2	2	2	6	8	4	6	13	7	6	8	5	4	6	15	7	9	20	15	****	6	7
11	4	3	3	2	2	2	2	1	1	2	1	1	1	1	1	2	2	2	1	4	3	4	****	5	2
12	6	4	4	3	3	4	4	4	1	1	1	1	1	1	1	1	1	1	0	1	1	2	****	2	2
13	2	2	2	3	3	3	3	4	3	3	2	4	3	2	1	1	1	2	3	3	2	4	****	4	3
14	3	3	2	2	1	1	2	2	2	2	2	2	1	2	1	1	1	1	0	1	1	1	****	1	2
15	1	1	1	1	0	1	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	****	2	1
16	1	1	1	2	2	1	1	2	1	1	2	1	1	1	1	1	0	0	1	1	1	1	****	2	1
17	1	1	2	2	2	3	3	3	3	3	1	3	2	2	2	1	2	2	1	2	2	3	****	4	2
18	4	4	4	4	3	3	4	4	5	6	5	5	5	5	4	6	7	7	6	5	5	5	****	4	5
19	2	3	3	4	3	5	6	9	10	8	12	7	8	6	6	4	3	2	2	4	16	4	****	2	6
20	3	2	3	3	7	3	3	3	6	4	7	4	4	4	2	2	1	3	1	1	3	3	****	2	3
21	3	2	3	3	6	6	5	9	8	6	4	4	3	3	3	2	3	3	3	3	4	3	****	4	4
22	3	3	3	3	3	3	3	3	3	4	3	3	3	3	2	5	5	22	13	8	25	28	****	14	7
23	4	3	2	2	2	3	4	5	15	21	18	31	43	43	46	48	44	39	37	31	20	12	****	4	21
24	4	4	5	7	7	6	5	7	7	6	4	3	3	3	2	2	2	3	4	5	5	5	****	4	5
25	4	5	4	3	3	3	3	4	5	6	7	5	4	3	3	2	2	2	4	4	4	4	****	5	4
26	5	5	5	5	4	5	5	5	5	4	3	<-- M -->	1	1	3	3	2	3	3	3	3	4	****	5	4
27	4	3	3	2	2	2	2	3	3	3	2	2	2	3	2	2	14	29	16	7	4	3	****	3	5
28	2	3	3	4	3	4	4	4	4	5	4	5	4	2	3	2	3	3	4	5	4	****	4	4	
29	4	3	3	4	4	3	3	3	4	5	7	16	20	11	2	2	5	5	2	3	9	17	****	3	6
30	3	2	2	3	5	21	32	36	39	28	43	57	33	32	16	2	1	5	24	21	31	21	****	4	20
31	2	2	1	1	1	1	1	1	2	1	1	2	1	2	1	2	2	3	5	7	8	7	****	9	3

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
3	3	3	8	17	31	39	0	57	3	96	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK  
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	11	6	4	6	6	1	6	15	23	47	39	48	75	41	19	36	34	58	42	37	12	6	****	10	25
2	11	6	7	0	0	9	20	59	37	53	59	55	59	53	44	52	38	45	72	76	44	36	****	19	37
3	15	1	0	0	18	44	26	40	33	28	23	19	28	19	17	18	21	28	27	29	29	15	****	3	21
4	3	1	0	0	0	0	2	3	8	9	9	9	5	10	9	13	11	10	6	7	8	5	****	6	6
5	10	6	1	2	1	2	6	12	19	20	22	28	18	26	24	24	26	23	21	22	15	18	****	16	16
6	17	9	9	7	9	12	10	13	15	17	18	13	11	12	15	16	14	12	12	12	12	13	****	15	13
7	12	8	5	5	6	7	19	23	23	21	16	14	10	11	13	27	32	42	33	42	31	30	****	14	19
8	13	12	6	4	3	6	16	12	16	17	23	21	13	15	19	32	35	31	30	23	19	18	****	13	17
9	12	4	2	2	0	4	4	7	10	19	19	17	8	7	10	21	20	19	17	24	19	37	****	27	13
10	22	8	5	9	4	2	28	29	18	29	42	38	49	49	57	69	76	77	59	69	77	80	****	52	41
11	15	12	6	6	6	4	7	16	32	38	39	31	45	56	70	64	65	66	57	40	19	19	****	12	32
12	13	7	6	4	3	5	7	15	18	22	25	23	21	21	34	29	25	18	12	9	15	8	****	5	15
13	6	3	1	3	2	2	5	10	16	19	17	16	11	15	11	12	12	13	16	12	10	13	****	6	10
14	5	9	4	2	2	0	4	9	16	14	10	13	9	19	20	16	16	15	15	19	17	8	****	9	11
15	8	7	7	4	6	10	6	19	20	28	64	56	37	26	36	38	36	40	62	48	36	18	****	18	27
16	18	13	10	5	4	5	4	9	12	11	23	16	26	31	24	20	29	40	30	31	21	7	****	4	17
17	2	0	2	1	1	4	5	18	24	27	26	29	37	32	21	13	18	11	10	17	16	****	13	15	
18	7	6	3	1	0	2	7	12	18	16	16	16	16	16	17	31	27	17	13	14	12	11	****	7	12
19	2	3	0	0	1	1	9	15	20	28	37	32	30	34	29	27	8	8	19	29	69	50	****	14	20
20	10	5	1	12	29	6	6	14	25	24	26	24	14	15	19	22	18	34	22	15	20	19	****	12	17
21	10	6	5	3	12	9	10	18	14	13	14	14	15	19	18	15	25	25	29	31	20	12	****	9	15
22	4	2	2	1	1	2	2	3	7	10	11	12	8	11	12	15	18	29	21	20	32	25	****	16	12
23	4	2	1	3	5	17	31	36	32	35	32	46	64	71	68	68	60	68	86	111	94	73	****	47	46
24	24	23	13	10	12	11	24	52	65	57	52	41	18	18	25	23	28	19	16	12	15	10	****	18	25
25	13	8	6	4	6	9	19	37	62	65	42	35	35	36	36	38	21	11	14	11	10	19	****	16	24
26	11	7	8	8	3	7	13	21	26	46	55	<-- M -->	50	54	67	58	25	29	29	19	15	****	17	27	
27	11	9	6	2	1	7	11	23	46	46	39	39	42	45	53	46	55	78	79	80	51	23	****	13	35
28	7	4	2	1	1	3	8	8	13	48	55	34	32	23	26	35	21	24	28	30	15	10	****	7	19
29	10	7	1	3	1	4	7	17	33	41	38	51	50	37	27	48	72	50	13	17	22	25	****	6	25
30	4	9	2	8	11	25	39	48	61	61	64	69	70	68	63	35	32	33	71	76	124	124	****	26	49
31	22	13	8	5	3	3	8	18	32	39	36	37	30	32	33	24	32	26	22	28	22	13	****	22	22

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
14	17	17	50	64	74	79	0	- 124	3	96	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	9	7	8	8	6	7	6	4	4	4	3	3	3	3	1	1	1	0	1	1	0	****	1	4
2	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	3	3	3	****	4	1
3	3	3	4	4	3	3	4	5	5	11	11	12	10	15	15	12	14	10	10	6	5	5	****	4	8
4	4	4	3	3	3	3	4	5	8	9	26	33	22	36	31	28	29	47	31	27	33	35	****	30	20
5	28	22	20	21	6	7	10	7	7	6	5	5	4	3	3	3	5	5	5	6	6	6	****	6	9
6	6	5	4	3	3	4	3	3	3	3	3	3	3	2	2	3	4	7	7	10	10	9	****	7	5
7	10	7	6	3	3	4	4	5	6	4	4	5	4	4	3	2	4	2	3	5	5	7	****	5	5
8	5	2	3	3	5	3	3	2	2	3	2	1	1	1	1	0	0	0	0	0	0	0	****	1	2
9	1	1	0	1	1	1	1	1	1	1	2	5	2	2	2	15	28	15	10	50	7	14	****	6	7
10	18	3	2	2	4	3	4	3	4	1	2	2	11	1	1	1	5	11	15	10	7	4	****	3	5
11	2	1	1	4	5	2	1	9	27	12	40	27	51	17	36	21	4	1	4	14	60	28	****	18	17
12	19	24	30	40	45	33	34	42	88	22	76	100	19	20	8	10	3	3	5	8	6	6	****	3	28
13	1	1	1	1	2	2	2	3	3	3	3	3	2	2	2	4	3	3	3	3	4	5	****	6	3
14	8	6	8	8	8	10	15	17	17	15	19	13	7	32	21	39	23	4	4	9	2	2	****	2	12
15	1	1	4	8	4	2	3	2	1	3	3	10	9	3	2	2	2	2	2	2	2	2	****	4	3
16	2	3	2	2	2	3	3	3	4	3	5	5	4	4	3	5	6	8	11	14	18	23	****	28	7
17	30	34	32	33	32	30	30	29	29	29	29	28	33	32	60	9	4	2	1	1	1	1	****	2	22
18	2	2	2	2	2	2	2	2	2	2	2	5	10	6	3	3	8	17	8	3	3	2	****	3	4
19	2	2	2	2	3	2	1	2	3	3	5	7	6	5	4	4	3	3	3	3	2	3	****	4	3
20	3	2	3	3	3	3	2	2	3	2	2	2	2	2	2	2	1	2	1	1	2	1	****	2	2
21	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	2	2	3	1	1	****	2	1
22	2	1	1	1	1	0	1	1	1	0	0	0	0	1	0	0	1	1	1	0	0	1	****	2	1
23	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	****	2	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	****	3	1
25	2	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	4	7	3	****	2	2
26	1	1	1	1	2	1	3	2	1	3	3	3	2	3	2	3	4	4	2	2	4	4	****	5	3
27	4	4	6	4	4	4	3	3	3	3	3	3	2	3	3	2	2	2	2	2	2	2	****	2	3
28	2	2	2	2	2	1	2	2	2	4	5	3	2	3	3	2	2	2	2	2	2	2	****	3	2
29	2	1	2	2	2	3	3	3	3	3	3	2	1	2	2	1	1	1	2	1	2	2	****	4	2
30	2	1	1	2	2	3	2	2	2	2	2	<----- D ----->				1	3	2	1	3	3	2	****	3	2

MONTHLY STATISTICS:

GEOM			<-----PERCENTILE----->						<-----RANGE----->				STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR			DEVIATION	VALID DATA	1-HR	24-HR		
3	3	6	3	17	29	36	49	0	-	100	1	-	28	3	95	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK  
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	20	15	6	7	8	6	10	16	19	24	15	16	15	15	19	18	19	17	12	13	10	8	****	7	14
2	4	2	2	2	1	2	7	11	20	22	21	27	28	26	31	32	30	31	25	28	31	24	****	21	19
3	17	12	20	7	5	13	22	50	58	76	63	66	57	73	71	50	42	36	104	101	73	75	****	36	49
4	14	25	20	20	23	8	8	34	69	63	64	62	60	68	64	61	73	82	80	138	155	147	****	134	64
5	95	81	67	66	9	7	10	11	24	36	43	44	30	17	14	13	21	30	36	40	31	9	****	12	32
6	11	7	7	7	4	6	4	10	11	14	11	13	15	25	15	10	18	28	28	39	31	31	****	22	16
7	19	9	4	0	0	1	5	8	14	18	19	20	13	11	16	14	11	8	6	16	10	8	****	10	10
8	7	3	1	1	4	1	3	6	9	13	8	12	5	7	6	8	5	7	6	6	5	4	****	7	6
9	4	2	1	1	1	3	4	12	20	18	19	28	15	16	33	45	42	42	30	50	17	34	****	8	19
10	30	1	2	2	24	14	11	25	48	36	35	31	22	11	16	18	19	28	45	44	42	41	****	41	26
11	36	9	11	27	27	9	6	20	43	27	38	34	30	19	41	31	14	16	40	65	80	46	****	14	30
12	16	25	37	71	79	56	46	55	58	27	65	78	34	36	25	40	26	22	35	58	49	29	****	14	43
13	9	1	0	0	0	3	1	3	4	6	9	7	10	7	6	7	9	8	18	21	18	14	****	17	8
14	14	13	18	9	9	16	19	24	25	30	30	21	18	30	29	35	11	14	13	16	11	8	****	5	18
15	4	4	23	23	8	10	18	6	10	21	19	36	15	19	22	22	13	13	11	16	19	10	****	11	15
16	7	0	1	1	0	1	2	1	1	12	24	29	17	13	14	28	29	24	14	17	14	11	****	7	12
17	4	2	1	1	3	3	12	14	13	14	15	16	14	11	6	13	13	10	8	8	7	4	****	3	9
18	4	0	1	0	1	0	5	12	16	12	15	26	19	10	7	17	21	17	7	10	9	9	****	10	10
19	6	1	0	0	0	0	1	2	10	14	15	7	11	9	14	14	14	5	6	9	7	3	****	3	7
20	1	0	1	0	0	0	0	1	9	9	16	17	11	9	7	7	13	10	16	12	15	8	****	10	7
21	7	3	0	0	2	1	1	3	8	6	7	2	2	1	2	2	10	9	13	11	13	10	****	9	5
22	7	0	0	0	0	0	0	0	4	2	1	0	0	1	1	2	0	1	1	1	1	1	****	0	1
23	0	0	0	0	0	0	4	1	7	0	2	6	1	14	15	25	14	4	6	25	23	22	****	4	7
24	15	6	2	9	22	8	1	9	14	16	17	18	7	4	7	20	17	19	10	8	11	27	****	28	13
25	25	29	28	20	1	3	7	11	8	8	13	11	7	10	26	25	21	16	11	30	35	27	****	9	17
26	6	4	1	2	0	3	14	17	5	22	9	9	9	14	20	19	25	18	15	8	9	10	****	15	11
27	3	1	29	14	7	15	11	3	4	9	16	15	13	15	10	13	13	10	13	19	9	8	****	7	11
28	8	2	2	1	0	0	1	7	10	15	19	13	11	29	28	40	22	10	16	17	9	8	****	11	12
29	8	3	0	0	0	0	2	4	3	3	4	3	5	3	5	5	3	9	6	3	6	3	****	2	4
30	0	0	0	0	0	0	0	0	4	4	4	<----- D ----->	16	18	20	30	34	35	22	****	20	11			

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR			
9	11	17	11	36	58	76	89	0	155	4	95	0	0			

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	1	0	0	0	0	0	0	0	0	2	3	2	0	0	3	2	0	0	****	0	1
2	0	0	0	0	0	0	0	7	0	2	8	9	2	12	32	20	33	8	0	0	0	0	****	0	6
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	****	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	****	0	0
6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	****	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<-- M -->	1	5	1	0	0	0	1	****	1	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	****	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	1	8	6	9	10	7	7	5	7	0	****	1	3
12	7	1	0	4	0	0	1	3	2	0	3	2	0	8	6	8	8	13	8	7	2	0	****	0	4
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	****	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	****	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	1	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3	1	2	3	2	0	****	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
21	0	0	0	0	0	0	0	0	0	0	1	0	3	0	2	3	12	12	10	4	0	0	****	14	3
22	10	5	3	20	2	9	12	4	5	12	5	3	10	2	0	0	1	1	18	15	22	26	****	3	8
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	****	0	0
24	0	0	0	0	0	0	0	0	0	0	4	9	8	8	8	7	5	3	2	2	5	4	****	0	3
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	3	11	54	75	33	20	13	9	18	8	****	8	11
27	14	9	6	9	0	5	3	31	2	23	53	33	23	<---- D ---->	7	8	7	5	6	9	****	10	13		
28	8	8	8	10	9	7	6	5	8	7	5	6	15	10	13	31	60	27	49	67	36	41	****	43	21
29	41	35	31	25	26	48	107	60	38	32	16	14	10	10	6	6	5	6	5	7	3	2	****	3	23
30	4	3	1	1	2	3	0	1	2	1	4	2	6	7	8	10	8	8	8	16	17	13	****	12	6

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
4	0	3	0	9	18	36	51	0	- 107	5	95	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350







THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	10	17	13	14	11	11	12	11	9	8	8	9	7	6	8	5	7	4	3	4	5	5	****	5	8
2	5	4	6	2	3	1	2	3	1	0	0	1	2	0	0	0	1	2	0	1	0	2	****	2	2
3	0	3	1	2	0	0	0	2	4	1	2	15	15	27	4	3	5	8	3	2	3	3	****	3	5
4	0	0	0	2	2	3	5	8	9	4	5	7	9	23	39	45	34	26	27	29	26	29	****	40	16
5	41	30	36	16	8	5	10	9	12	8	4	6	6	7	8	10	11	10	11	11	12	9	****	13	13
6	11	8	8	8	12	10	7	6	8	8	6	6	9	14	11	8	14	12	15	12	16	11	****	11	10
7	10	8	5	5	7	7	6	10	8	7	9	7	7	6	6	8	6	4	6	6	8	8	****	6	7
8	6	2	3	6	5	7	5	4	6	9	7	6	6	6	7	8	5	5	6	6	7	4	****	9	6
9	6	5	4	7	5	8	7	5	6	7	5	7	9	15	11	11	5	4	9	19	8	13	****	3	8
10	2	5	3	7	10	7	13	6	4	3	8	7	4	22	25	15	17	10	11	10	10	9	****	7	9
11	5	6	6	6	5	4	3	11	13	20	22	6	6	15	11	10	8	9	36	32	27	10	****	41	14
12	71	42	47	42	15	21	19	15	32	26	33	17	14	18	45	34	31	16	21	21	25	26	****	20	28
13	16	10	7	5	10	5	9	9	11	15	17	21	20	14	13	20	12	10	9	6	12	6	****	11	12
14	14	16	11	8	8	8	19	21	19	11	22	14	11	17	13	9	11	8	13	7	14	15	****	8	13
15	8	10	10	7	10	8	11	5	10	11	18	14	11	17	16	8	9	10	7	12	11	6	****	15	11
16	8	6	7	9	4	3	8	10	6	9	12	10	11	5	15	22	27	8	13	16	13	23	****	6	11
17	8	5	10	10	16	15	17	6	17	16	12	12	10	15	8	10	17	12	16	17	12	6	****	12	12
18	12	8	9	9	6	4	12	6	7	11	13	11	10	9	7	10	6	4	8	3	8	10	****	17	9
19	6	10	4	5	5	13	10	6	9	14	9	11	8	8	10	6	12	4	6	7	5	6	****	4	8
20	5	4	3	2	6	5	5	6	7	8	13	9	7	4	8	8	11	6	5	6	6	7	****	14	7
21	10	7	7	3	6	5	4	7	4	7	5	8	8	10	7	7	4	9	9	6	5	6	****	13	7
22	12	8	6	8	6	8	4	5	10	5	17	10	11	5	4	5	4	8	3	1	3	7	****	14	7
23	12	7	7	10	8	6	5	3	5	10	8	4	6	8	9	14	10	6	4	5	7	14	****	18	8
24	9	12	7	14	10	7	7	10	7	0	3	2	5	2	3	7	7	7	11	8	8	12	****	12	8
25	11	8	6	7	7	8	9	9	5	3	4	5	7	4	10	26	16	14	12	18	33	24	****	11	11
26	7	11	11	6	3	5	2	3	7	3	10	6	8	7	6	4	8	14	6	3	7	10	****	9	7
27	14	10	7	7	9	7	7	5	6	8	5	5	5	8	11	9	9	11	13	12	12	17	****	10	9
28	8	6	10	6	5	8	5	8	7	9	10	7	6	6	6	4	3	3	4	4	4	5	****	7	6
29	9	6	4	5	4	7	4	8	8	7	7	6	7	8	8	8	8	12	11	15	10	9	****	10	8
30	11	8	13	11	10	10	8	9	8	9	11	12	11	15	13	13	10	16	19	15	19	23	****	30	13

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->						<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
8	8	10	8	17	24	34	41	0	- 71	2	- 28	2	96	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350



THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	2	7	4	4	7	4	5	4	10	11	1	9	4	7	5	****	11	4
2	14	4	7	3	16	28	45	45	95	111	101	94	46	45	53	36	28	11	6	5	3	3	****	4	35
3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	0	1	1	0	12	0	0	0	****	1	2
4	0	0	0	0	0	0	0	0	0	0	0	1	5	2	0	20	0	6	4	9	26	36	****	21	6
5	24	19	16	35	26	29	26	40	33	52	42	41	12	3	2	2	2	1	0	0	0	0	****	1	18
6	0	0	0	1	0	0	1	0	0	5	4	1	0	1	6	3	5	1	4	6	6	8	****	26	3
7	30	33	37	41	46	29	11	3	10	0	0	0	0	0	0	0	0	0	0	0	0	0	****	2	10
8	0	0	0	0	14	0	1	1	1	1	1	1	1	4	13	20	20	57	36	35	30	29	****	30	13
9	18	16	26	33	38	30	26	27	29	23	10	7	8	18	1	3	5	2	2	0	0	0	****	16	15
10	11	11	2	3	0	1	1	1	4	1	1	1	1	1	1	1	1	1	2	2	3	2	****	2	2
11	3	1	2	4	3	1	2	2	5	10	9	12	8	8	9	11	9	5	6	5	7	8	****	10	6
12	8	6	8	10	5	8	12	12	10	8	9	9	7	10	10	10	10	10	14	8	5	4	****	4	9
13	5	6	1	4	2	2	2	3	2	2	3	7	2	4	11	10	5	2	1	1	2	2	****	3	4
14	1	0	0	0	0	1	1	1	1	1	2	1	0	0	2	0	0	2	0	0	1	1	****	3	1
15	13	25	20	25	6	4	3	5	2	2	7	3	2	3	2	5	26	2	4	5	5	3	****	4	8
16	4	15	31	31	17	23	25	32	21	9	8	3	4	6	5	5	6	5	5	6	5	4	****	4	12
17	4	4	2	3	1	1	1	4	4	1	2	5	4	4	3	2	1	6	1	13	2	4	****	1	3
18	1	0	2	0	0	2	1	1	0	1	0	0	0	0	8	9	1	0	1	0	4	3	****	3	2
19	7	8	20	34	24	18	24	25	29	52	42	39	69	12	2	3	2	2	5	15	22	7	****	22	21
20	9	25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	****	0	2
21	0	0	0	0	0	0	4	4	0	0	15	4	4	2	9	5	8	10	10	6	5	4	****	13	4
22	17	11	13	14	10	13	15	13	13	17	9	6	4	8	3	12	10	23	30	46	48	36	****	16	17
23	5	5	7	3	3	1	0	2	4	5	6	11	9	10	6	3	9	3	3	3	4	2	****	6	5
24	2	0	0	1	1	1	3	3	4	6	10	12	11	11	11	9	9	7	9	7	8	7	****	8	6
25	5	5	3	4	3	4	2	4	4	4	4	3	3	3	3	3	2	2	1	0	0	0	****	1	3
26	0	0	0	0	0	0	0	1	19	8	1	9	26	57	85	60	30	24	20	20	14	17	****	15	18
27	20	18	19	17	11	14	14	21	17	40	38	26	66	51	33	28	7	6	5	5	5	5	****	12	21
28	17	30	10	0	14	28	35	23	49	38	47	41	16	40	61	37	45	33	40	40	34	28	****	38	32
29	57	47	23	54	28	30	59	79	98	53	24	12	11	14	12	13	6	18	16	26	8	0	****	8	30
30	7	17	25	14	7	8	10	4	14	13	8	37	25	18	13	15	23	3	20	18	23	24	****	18	16

MONTHLY STATISTICS:

GEOM	ARITH		<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
5	5	11	5	30	41	57	74	0	111	5	96	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	8	7	5	5	6	10	24	48	56	42	37	30	22	26	25	29	34	54	68	54	67	58	****	54	33
2	49	30	31	26	46	50	57	55	68	62	62	62	65	67	70	67	76	35	27	23	16	18	****	26	47
3	16	11	10	10	10	9	12	13	17	19	20	18	20	23	36	31	22	24	23	22	16	17	****	17	18
4	12	11	9	9	8	9	14	19	18	15	17	28	28	26	33	31	34	73	66	90	94	93	****	85	36
5	84	86	79	83	68	76	68	75	71	80	81	80	51	29	24	25	29	29	22	23	18	15	****	12	53
6	10	7	6	7	8	9	12	18	25	36	30	36	33	26	26	19	26	37	63	72	69	63	****	62	30
7	58	57	55	55	56	54	34	21	21	21	21	21	19	20	21	17	21	21	17	16	14	12	****	13	29
8	9	7	6	6	6	8	14	22	34	53	48	68	63	77	80	92	93	108	102	102	86	88	****	69	54
9	67	64	60	59	57	54	50	47	40	41	25	31	40	32	24	43	57	51	49	26	24	42	****	88	46
10	66	70	16	6	5	6	10	11	15	17	19	18	16	19	22	17	18	18	18	15	17	16	****	17	20
11	14	9	7	7	8	10	16	20	30	40	35	26	20	23	21	25	24	29	28	26	30	32	****	32	22
12	23	15	12	11	16	24	42	41	41	38	26	26	23	23	20	22	24	39	52	39	32	33	****	31	29
13	26	16	16	13	5	11	34	36	34	29	22	22	23	27	30	30	33	28	16	14	13	14	****	11	22
14	9	7	7	6	4	6	11	16	19	19	19	18	16	16	27	41	38	41	28	31	37	35	****	42	21
15	61	70	55	62	19	15	24	46	58	62	59	52	51	50	54	57	56	54	58	62	64	62	****	51	52
16	51	48	49	46	42	43	47	53	53	52	47	47	46	51	60	62	67	74	60	53	43	22	****	15	49
17	14	11	14	10	9	9	16	24	37	40	52	60	32	50	40	42	47	50	24	50	22	21	****	19	30
18	17	15	17	10	6	18	19	21	17	21	17	20	17	15	42	43	36	33	32	24	39	32	****	39	24
19	42	38	62	68	60	58	64	66	68	77	71	69	74	34	24	24	40	53	73	104	112	62	****	108	63
20	85	76	8	4	11	14	26	24	33	30	27	26	22	23	24	26	30	30	31	25	29	19	****	26	28
21	19	14	9	7	8	13	32	42	37	37	37	28	26	14	24	24	29	28	37	37	31	31	****	33	26
22	31	22	20	26	18	26	38	40	30	24	19	16	19	47	44	57	72	79	78	76	73	65	****	59	43
23	34	31	32	16	18	17	23	44	64	67	65	61	31	28	29	40	74	66	59	51	52	44	****	53	43
24	30	14	11	8	9	10	23	20	25	26	20	20	19	24	24	22	20	20	22	16	15	13	****	12	19
25	8	7	7	5	5	6	9	12	15	19	18	17	17	17	16	18	17	20	20	17	16	17	****	12	14
26	8	7	4	4	4	6	21	39	87	58	28	47	62	107	127	132	119	112	113	98	90	90	****	89	63
27	73	56	56	55	50	58	56	67	75	83	79	74	82	71	62	58	32	48	54	83	67	49	****	41	62
28	21	13	8	9	21	67	70	100	87	82	71	63	74	94	101	105	114	83	99	119	130	130	****	113	77
29	100	104	105	126	108	109	125	139	127	114	71	38	27	34	37	22	21	22	33	28	16	15	****	10	66
30	8	4	6	5	4	6	19	28	58	60	36	45	49	32	27	18	29	30	50	35	37	33	****	23	28

MONTHLY STATISTICS:

GEOM		ARITH					PERCENTILE		RANGE			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR			
29	30	38	30	76	93	113	126	4	-	139	14	-	77	2	96	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	18	20	24	23	9	26	32	18	43	86	55	121	58	30	18	2	12	0	0	0	0	0	****	3	26	
2	4	8	0	1	3	0	1	0	8	20	15	26	13	17	25	26	14	12	19	8	8	8	****	6	11	
3	11	10	9	6	5	2	4	13	16	2	2	1	1	1	1	2	1	3	1	3	2	3	****	1	4	
4	0	0	0	1	1	1	3	6	1	1	0	1	3	2	3	3	2	1	1	2	2	2	****	3	2	
5	2	2	2	2	2	2	2	3	4	6	9	6	9	13	9	10	11	11	13	14	6	10	****	11	7	
6	12	5	7	12	11	13	11	12	11	14	14	9	6	3	4	5	9	10	10	8	3	7	****	10	9	
7	8	6	6	2	1	3																				
8	Datalogger Fault												4	2	3	2	3	2	2	3	3	2	0	****	4	
9	4	3	2	2	2	5	5	4	9	18	18	10	6	3	7	5	7	7	3	5	2	2	****	24	7	
10	17	3	7	6	0	1	9	19	30	84	27	11	8	12	9	9	8	18	13	16	20	14	****	10	15	
11	2	1	2	4	0	1	4	2	19	10	0	1	11	6	3	3	4	10	14	3	4	2	****	5	5	
12	5	3	5	3	3	4	4	6	4	4	5	7	6	3	5	6	6	5	4	7	6	2	****	9	5	
13	6	2	3	4	5	3	10	3	0	1	4	2	1	4	1	1	1	0	1	1	0	0	****	0	2	
14	0	0	0	0	0	0	0	1	1	0	1	0	3	0	0	1	0	0	0	0	1	0	****	1	0	
15	0	0	0	0	0	0	0	1	2	3	10	3	7	1	6	19	25	35	23	24	5	1	****	2	7	
16	0	0	0	1	0	0	2	0	0	0	1	0	0	1	3	0	0	0	1	0	0	0	****	0	1	
17	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	****	2	0	
18	1	0	1	1	1	1	2	4	6	10	5	7	15	10	6	14	14	17	13	8	5	7	****	6	7	
19	9	9	2	4	3	11	14	22	16	14	12	<-----D----->			1	0	2	2	5	0	****	2	7			
20	0	5	16	23	13	6	2	1	5	1	9	4	7	6	13	13	13	10	2	0	4	3	****	5	7	
21	3	2	3	3	8	11	9	16	19	12	8	10	11	9	8	11	9	10	7	12	13	6	****	10	9	
22	6	6	8	6	6	6	7	9	9	10	10	8	7	6	13	11	15	20	18	16	33	21	****	11	11	
23	9	8	8	8	8	10	15	19	28	44	45	46	56	45	46	47	42	41	47	47	41	11	****	3	29	
24	3	3	3	5	5	4	4	3	6	4	3	3	3	1	2	2	3	3	3	1	1	2	****	2	3	
25	1	0	0	0	0	0	2	9	17	15	5	3	3	3	3	3	1	1	3	2	3	1	****	2	3	
26	0	0	0	0	1	2	1	1	1	1	1	2	2	3	2	1	2	2	1	0	1	0	****	1	1	
27	0	0	0	0	0	0	0	0	0	0	0	1	3	3	3	15	41	20	25	15	11	3	****	2	6	
28	0	0	0	0	0	0	0	1	3	3	3	4	5	4	4	3	4	2	0	0	1	1	****	2	2	
29	1	0	0	2	2	4	2	3	4	5	8	10	11	4	4	6	4	7	1	2	7	5	****	3	4	
30	5	6	3	3	9	28	31	26	15	69	148	56	37	52	17	5	3	3	7	21	24	14	****	8	26	
31	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	3	3	****	3	1	

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
3	3	3	17	26	46	56	0 - 148	0 - 29	4	91	0	0	

NOTES:

1. FLAGS FOR INVALID DATA :

- \*\*\*\* : DAILY ZERO/SPAN CHECK
- D : DYNAMIC CALIBRATION
- T : TELEMETRY/DATALOGGR/ANALYZER FAULT
- M : MAINTENANCE OR MACHINE SHUTDOWN
- P : POWER FAILURE

2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	18	17	53	19	43	80	78	65	79	93	74	105	58	44	37	27	38	36	70	85	86	41	****	83	58
2	50	77	61	55	67	42	64	62	66	67	40	38	38	30	35	35	23	20	44	30	33	29	****	56	46
3	55	31	17	15	24	35	57	60	43	24	27	19	20	25	26	26	27	28	29	25	24	16	****	12	29
4	14	9	5	4	5	6	15	20	21	24	21	17	17	18	18	18	19	20	14	13	11	10	****	13	14
5	15	8	3	4	6	9	30	39	43	43	38	36	30	34	39	41	44	46	44	39	33	29	****	31	30
6	32	17	18	24	25	26	33	30	28	29	20	14	11	8	13	15	19	22	23	25	28	28	****	28	23
7	23	17	16	8	18	25	46	55	45	51	40	43	33	18	18	43	55	75	79	66	53	50	****	48	40
8	44	34	15	15	15	32	38	34	35	29	21	9	9	8	11	13	13	21	47	50	37	32	****	37	26
9	31	18	7	7	6	17	26	27	29	32	26	15	6	4	11	12	11	15	12	15	22	32	****	42	18
10	39	20	26	28	19	23	44	48	57	66	45	48	51	57	60	65	72	70	66	71	75	72	****	50	51
11	14	10	6	6	7	7	17	28	33	34	28	35	48	27	15	19	69	88	81	66	37	27	****	20	31
12	14	10	8	7	6	11	18	25	28	22	20	24	22	23	35	32	32	23	16	15	17	12	****	10	19
13	8	5	4	6	4	5	14	21	22	22	16	21	20	18	20	26	21	20	16	16	13	12	****	11	15
14	8	6	6	5	5	6	16	30	33	30	22	20	17	22	25	28	35	26	20	16	18	14	****	13	18
15	8	6	6	7	5	7	19	33	54	35	47	38	31	22	40	66	79	95	93	96	57	25	****	16	38
16	16	10	3	12	3	7	10	11	13	16	16	18	16	18	26	18	24	21	26	17	17	12	****	8	15
17	5	4	4	4	4	6	16	23	24	23	20	23	25	30	24	22	26	24	19	18	16	15	****	15	17
18	15	7	9	6	4	9	25	39	27	24	18	15	18	18	18	21	19	23	23	27	26	34	****	23	19
19	22	18	16	14	11	27	39	43	35	32	24	<-----D----->				35	37	56	62	64	64	64	****	62	37
20	51	54	61	51	50	45	18	27	47	32	42	23	22	29	24	24	21	41	33	29	26	24	****	25	35
21	20	15	14	10	23	24	26	29	26	18	16	21	19	22	16	18	20	24	23	37	34	24	****	20	22
22	11	8	10	7	6	10	13	12	11	15	13	10	11	16	15	20	18	22	22	26	17	****	12	14	
23	8	10	8	11	11	26	45	51	52	54	55	59	74	74	84	93	93	101	117	131	123	59	****	41	60
24	18	15	12	10	13	15	28	46	70	53	37	34	25	20	25	24	36	39	26	25	22	20	****	19	28
25	17	10	5	5	7	16	35	62	57	57	28	23	33	37	30	31	31	26	24	19	17	15	****	18	26
26	9	6	6	5	4	10	15	27	31	28	22	23	22	29	32	30	26	23	22	23	16	13	****	14	19
27	8	6	4	4	2	7	18	24	40	40	30	30	39	37	44	73	82	73	76	71	71	22	****	19	36
28	11	7	5	6	6	10	26	33	37	18	14	13	17	19	18	17	26	35	34	24	22	22	****	23	19
29	19	10	8	14	11	28	32	39	30	27	20	21	33	12	10	13	17	20	16	35	43	35	****	33	23
30	23	23	15	19	25	46	43	42	45	50	56	47	52	63	47	37	31	27	49	76	86	80	****	56	45
31	25	10	4	0	0	1	13	22	26	23	23	24	18	20	27	36	50	42	32	25	21	14	****	26	21

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->							<-----RANGE----->				STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	50	90	95	98	99			1-HR		24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
23	23	23	57	72	85	93			0	-	131	2	95	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	3	3	3	3	3	2	3	2	2	2	2	3	1	2	0	0	0	0	0	0	0	****	1	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	2	0
3	1	3	0	0	1	2	3	7	19	25	12	9	29	17	13	5	6	7	7	5	3	2	****	2	8
4	0	0	1	1	0	0	0	3	4	31	29	18	41	46	31	40	41	27	23	29	22	24	****	16	19
5	13	14	18	13	2	3	3	3	5	3	3	2	2	3	4	5	6	2	3	3	3	3	****	6	5
6	6	3	6	2	3	6	7	6	8	9	9	10	14	14	17	12	16	13	24	17	24	11	****	17	11
7	18	15	17	17	10	11	8	11	11	10	8	8	10	8	8	7	8	4	1	4	2	3	****	2	9
8	2	1	0	3	2	3	2	4	4	5	4	3	3	3	4	4	4	4	4	5	5	2	****	7	3
9	5	4	4	4	4	4	4	3	3	4	4	5	5	4	15	19	10	9	12	11	4	9	****	2	6
10	4	1	1	1	6	4	8	6	6	3	1	4	6	9	21	11	15	18	21	6	5	7	****	14	8
11	8	12	31	50	28	17	16	26	22	24	34	19	36	39	15	6	1	6	14	41	62	11	****	22	23
12	54	62	68	69	68	65	99	117	88	86	57	35	24	17	22	22	17	15	17	23	8	10	****	13	46
13	10	3	0	3	6	3	4	3	7	8	9	12	8	6	5	6	6	6	5	7	11	7	****	11	6
14	8	9	15	9	9	7	18	13	15	16	23	7	20	44	22	41	9	4	8	5	8	8	****	3	14
15	5	3	10	6	4	5	8	2	3	6	7	16	4	5	4	3	1	3	5	4	2	3	****	6	5
16	4	2	4	4	3	2	4	5	3	4	6	7	3	2	3	5	5	4	5	8	7	6	****	6	4
17	8	4	3	3	2	6	9	8	3	4	6	2	5	4	2	2	7	4	4	7	5	2	****	3	4
18	4	3	4	2	3	1	3	11	7	5	7	18	11	5	5	10	20	14	3	5	6	6	****	11	7
19	9	6	5	4	5	5	4	3	8	14	12	8	14	14	8	5	3	4	3	5	4	4	****	4	7
20	4	4	9	5	5	2	5	3	4	6	10	8	4	4	4	7	4	5	2	2	7	6	****	5	5
21	8	8	3	4	8	8	6	5	6	7	6	8	8	11	12	4	15	6	20	14	14	7	****	9	9
22	7	9	7	4	6	6	12	12	11	9	8	22	1	7	16	9	9	7	3	2	3	5	****	8	8
23	7	7	6	3	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0	****	1	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	****	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	13	0	19	18	9	****	5	3
26	1	2	2	2	0	0	3	3	0	1	2	1	4	2	3	3	5	4	3	3	2	5	****	4	2
27	2	1	2	3	4	4	5	2	2	3	3	3	4	3	3	4	3	4	4	3	5	3	****	3	3
28	2	0	2	2	0	1	2	3	4	13	15	6	3	4	4	9	5	7	5	2	1	1	****	3	4
29	1	1	0	2	2	2	1	3	3	3	2	2	3	3	1	4	3	10	4	3	2	0	****	3	2
30	1	1	0	1	1	0	2	11	13	4	9	14	10	16	5	10	11	10	20	10	17	1	****	9	8

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->				STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
4	4	8	4	17	24	45	67	0	-	117	0	-	46	4	96	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	11	12	5	4	4	5	14	24	20	20	14	11	12	12	17	15	20	17	14	13	9	4	****	10	12
2	3	1	0	0	0	1	5	10	12	10	10	14	17	20	27	32	29	33	32	31	27	35	****	48	17
3	39	25	23	12	18	31	33	56	69	70	64	63	80	72	46	33	45	74	93	72	62	55	****	37	51
4	26	21	31	28	23	15	29	47	52	62	62	41	53	52	46	55	56	50	57	97	85	93	****	53	49
5	40	52	50	42	5	6	16	25	26	31	34	35	25	26	23	30	34	55	41	27	24	15	****	27	30
6	11	7	6	8	5	5	12	16	17	17	17	19	19	12	9	12	15	21	34	36	27	25	****	22	16
7	16	9	7	2	0	3	15	29	32	22	22	22	27	19	21	30	24	19	25	18	14	13	****	14	18
8	10	3	2	1	3	1	7	20	24	33	19	19	11	15	16	16	17	17	10	6	5	2	****	10	12
9	0	0	0	0	0	0	2	5	13	21	19	24	14	25	43	38	38	46	34	29	11	26	****	5	17
10	6	0	0	0	8	5	17	24	24	24	7	21	17	16	18	26	35	26	23	13	23	22	****	24	17
11	17	16	17	21	19	17	18	20	22	20	12	6	9	17	9	1	2	29	63	77	71	18	****	53	24
12	86	94	91	84	83	78	78	83	82	91	65	44	30	15	21	30	20	23	29	41	31	39	****	37	55
13	29	0	0	2	7	1	9	7	8	12	16	11	8	6	1	7	9	5	11	14	12	8	****	16	9
14	4	9	11	1	1	4	18	18	16	15	18	7	14	18	15	18	8	9	13	11	15	11	****	6	11
15	7	6	13	12	9	14	18	5	12	10	15	21	11	11	13	11	12	18	26	19	12	20	****	17	14
16	11	4	6	6	3	6	10	12	11	13	23	18	4	1	14	21	20	16	12	18	18	14	****	14	12
17	17	9	3	5	4	6	27	16	17	15	11	15	14	12	11	13	16	15	14	22	16	11	****	13	13
18	14	12	7	8	9	5	13	16	13	24	17	19	17	11	11	14	17	17	12	13	16	15	****	19	14
19	17	9	12	8	9	14	14	12	12	18	23	12	14	16	13	13	13	13	12	13	11	18	****	11	13
20	9	7	9	6	6	5	11	6	7	13	14	20	15	10	5	6	10	10	5	10	19	17	****	4	10
21	22	20	12	10	14	13	15	17	18	15	10	9	5	6	4	4	21	16	19	14	16	12	****	22	14
22	15	11	10	2	7	14	24	21	17	11	8	6	1	6	19	16	11	5	3	1	1	15	****	29	11
23	13	3	6	2	2	2	7	19	19	19	16	15	10	22	24	30	22	29	32	39	32	38	****	17	18
24	19	13	11	12	30	10	13	23	24	34	22	19	10	12	17	24	18	18	17	14	19	33	****	36	19
25	36	41	42	12	5	7	6	18	27	23	27	21	20	32	44	44	47	43	27	46	48	28	****	25	29
26	20	15	14	20	10	17	38	40	34	40	31	30	29	31	27	32	43	32	35	29	26	48	****	30	29
27	22	13	33	44	38	36	26	19	15	24	26	35	18	36	35	32	20	41	40	40	39	30	****	19	30
28	10	6	6	7	4	7	20	28	31	34	31	30	34	45	44	53	53	55	52	29	16	18	****	22	28
29	13	7	8	6	5	7	16	24	23	23	22	22	19	14	11	21	25	33	36	25	24	20	****	22	18
30	22	15	7	12	10	13	26	33	25	16	18	20	19	23	16	18	24	24	37	33	40	23	****	29	22

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
15	17	21	17	41	55	78	86	0	97	3	96	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL  
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	1	1	1	7	3	2	4	2	4	3	3	3	3	2	2	2	2	****	3	2
2	3	2	2	10	7	4	4	4	42	92	82	63	49	54	51	38	27	5	1	1	0	0	****	0	23
3	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	****	3	2
4	3	3	3	3	2	2	2	2	2	2	2	4	22	4	3	1	2	3	3	3	8	23	****	9	5
5	12	15	8	12	7	19	15	30	31	30	26	19	26	17	2	1	1	1	1	1	1	1	****	1	12
6	1	1	1	1	1	1	1	1	1	3	1	3	1	1	2	2	2	1	1	1	1	1	****	2	1
7	2	14	13	31	18	15	7	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	****	3	5
8	3	2	3	2	2	1	1	1	1	1	1	2	1	2	16	19	19	34	33	36	38	28	****	24	12
9	20	14	35	36	26	19	29	21	28	20	7	8	13	22	9	7	12	17	4	1	1	0	****	4	15
10	4	5	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	****	3	2
11	3	2	3	2	3	2	2	3	3	6	6	7	5	5	5	6	5	3	3	3	3	3	****	4	4
12	11	17	5	10	19	6	6	4	3	3	4	4	3	4	6	8	6	4	3	2	2	2	****	1	6
13	2	2	1	2	1	1	1	1	1	2	2	2	2	5	4	5	2	2	2	2	2	2	****	2	2
14	2	2	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0	****	0	1
15	0	3	4	2	3	4	3	2	1	1	1	1	1	1	0	2	7	9	3	4	6	2	****	1	3
16	2	15	28	30	13	21	25	24	11	3	3	2	3	3	4	4	6	4	4	4	4	4	****	3	10
17	4	3	2	2	1	1	1	1	2	3	7	7	5	3	3	2	9	3	2	3	3	5	****	3	3
18	4	3	10	12	3	3	4	1	0	0	0	0	0	0	2	7	0	0	0	4	2	1	****	1	3
19	2	6	6	8	14	9	9	13	13	48	37	36	41	44	14	2	2	2	5	12	14	9	****	8	15
20	3	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	****	3	2
21	4	3	2	2	2	3	5	9	3	3	8	5	5	4	5	4	6	8	4	4	3	2	****	4	4
22	7	5	5	5	3	5	7	6	8	9	6	4	4	4	2	12	12	27	30	45	50	35	****	13	13
23	5	5	7	4	4	4	2	4	6	5	5	8	14	17	13	13	6	4	4	5	4	2	****	8	7
24	4	1	1	1	1	1	2	2	3	4	9	10	11	12	11	9	8	7	9	8	7	6	****	5	6
25	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	3	4	2	3	3	****	3	3
26	3	3	3	3	3	3	4	6	22	24	5	15	29	57	69	53	29	21	15	17	18	19	****	10	19
27	24	19	21	22	11	16	13	18	12	25	27	18	30	49	20	22	18	8	6	8	3	4	****	6	17
28	4	4	3	3	3	4	3	3	15	24	47	29	13	27	35	24	37	24	21	24	25	25	****	25	18
29	26	14	18	23	27	33	62	63	60	55	21	13	7	7	4	3	2	1	1	1	1	1	****	2	19
30	1	1	1	1	1	1	1	2	20	24	4	13	29	19	7	5	4	4	5	4	9	7	****	7	7

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->							<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
4	3	8	3	24	31	49	59	0	- 92	3	96	0	0		

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL  
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	3	3	2	3	3	4	18	46	27	22	23	13	11	13	18	23	13	15	7	8	3	****	3	12
2	3	1	5	40	48	25	23	27	50	60	56	58	57	61	61	61	68	24	23	26	22	18	****	19	36
3	14	12	12	11	11	9	11	13	17	18	21	21	22	29	34	34	27	27	28	24	20	21	****	18	20
4	14	15	12	13	11	8	21	21	18	9	11	30	45	34	37	13	22	49	44	66	75	83	****	43	30
5	49	61	53	57	22	53	41	63	63	66	47	38	56	43	15	11	9	5	4	4	4	4	****	4	34
6	4	4	3	4	5	3	4	4	4	9	6	9	8	13	16	12	13	15	11	10	10	12	****	30	9
7	17	44	40	51	36	34	19	15	23	27	20	20	23	23	19	24	28	28	27	22	21	15	****	18	26
8	15	10	9	8	7	8	12	22	39	52	38	55	38	21	71	82	91	97	100	99	91	85	****	73	49
9	65	61	62	58	53	47	47	43	42	40	35	41	52	52	39	47	69	79	60	45	48	31	****	45	50
10	46	45	6	6	12	4	4	4	6	12	9	6	10	11	11	10	11	12	7	5	4	3	****	5	11
11	3	3	3	3	3	3	4	7	8	13	11	10	9	11	9	11	10	7	6	6	7	7	****	10	7
12	8	9	3	5	7	5	9	7	5	7	12	11	9	9	9	9	11	13	7	5	4	2	****	2	7
13	3	3	1	2	0	0	1	3	1	1	0	0	2	4	7	6	2	14	8	10	14	18	****	17	5
14	14	9	8	6	6	6	7	11	16	17	18	17	13	17	32	32	13	25	36	30	40	34	****	38	19
15	26	21	24	15	13	15	17	19	30	30	53	42	41	36	22	51	49	50	51	54	54	49	****	39	35
16	39	45	45	43	38	39	42	45	47	47	45	35	34	37	48	57	57	52	68	51	44	37	****	25	44
17	23	18	17	15	13	10	14	19	30	40	54	51	47	36	43	47	50	24	18	18	28	22	****	37	29
18	26	17	33	35	15	14	26	21	12	15	16	18	22	21	28	37	22	22	23	32	27	29	****	27	23
19	29	26	26	29	35	28	27	44	41	66	61	59	62	52	34	18	14	13	65	92	105	71	****	89	47
20	25	34	2	1	1	2	2	2	3	3	4	3	3	2	3	4	4	4	5	3	6	3	****	6	5
21	5	4	2	2	3	4	9	13	4	9	13	13	9	9	12	10	14	17	10	13	7	6	****	10	9
22	10	7	5	7	4	7	12	13	15	13	9	7	9	18	24	58	68	75	72	68	65	59	****	52	29
23	25	28	27	14	14	15	16	38	55	54	52	49	37	30	35	54	45	40	40	47	35	35	****	31	35
24	27	22	16	12	12	11	18	15	18	22	18	17	15	16	15	12	14	18	21	19	15	14	****	14	17
25	11	10	10	10	9	10	11	15	20	22	24	22	26	24	21	22	22	22	26	24	20	21	****	11	18
26	10	8	5	6	5	5	18	42	72	65	17	47	57	90	107	114	108	90	74	89	84	86	****	63	55
27	69	58	58	56	39	55	56	61	69	81	75	62	70	78	53	62	77	73	77	77	92	64	****	44	65
28	14	9	11	7	7	19	20	34	79	77	76	56	66	77	92	91	103	105	105	125	124	122	****	124	67
29	127	62	81	49	58	99	111	118	132	113	83	68	28	30	24	25	21	18	14	17	21	18	****	12	58
30	10	7	9	4	6	6	6	9	48	54	40	38	46	41	29	40	46	57	68	42	39	46	****	22	31

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
19	21	29	21	66	83	105	116	0	- 132	3	96	0	0		

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL  
POLLUTANT : SULPHUR DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	5	5	4	3	3	5	7	18	46	41	48	53	13	26	7	11	4	0	0	0	0	****	11	14
2	3	9	2	1	1	2	4	6	11	17	23	23	15	21	22	25	12	10	22	13	11	9	****	3	11
3	5	16	11	4	2	3	5	15	22	7	2	1	3	3	2	2	2	3	2	2	2	2	****	1	5
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	****	1	0
5	1	1	1	1	1	1	1	1	2	3	4	5	3	10	6	6	7	5	6	6	3	3	****	6	4
6	7	3	3	6	5	7	5	6	5	8	9	6	4	2	4	4	5	4	5	4	3	3	****	4	5
7	3	3	4	2	0	4	5	1	4	2	4	2	2	3	0	2	8	5	3	0	0	0	****	2	3
8	3	3	2	3	3	3	7	4	2	5	4	0	0	0	0	1	0	0	0	0	0	0	****	1	2
9	3	1	1	0	0	1	1	1	4	10	9	4	6	4	8	5	7	5	3	3	1	2	****	17	4
10	10	2	2	2	2	3	7	11	8	24	22	8	9	9	6	5	7	17	13	14	26	16	****	10	10
11	5	4	3	2	2	2	2	2	3	2	2	2	16	18	7	8	5	14	27	19	4	4	****	7	7
12	4	4	3	3	3	2	3	4	1	1	1	1	1	1	2	2	1	1	1	1	1	1	****	0	2
13	0	0	0	1	0	0	1	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	****	0	0
14	0	0	0	0	1	1	1	2	1	1	1	1	1	1	1	1	2	2	2	2	3	2	****	2	1
15	2	2	2	2	2	2	2	2	3	3	2	7	27	19	13	23	27	33	15	7	10	6	****	3	9
16	3	3	2	3	2	2	2	2	1	9	16	5	3	5	9	2	7	1	1	0	0	0	****	0	3
17	0	0	0	0	0	0	0	0	1	0	0	2	1	3	0	0	0	0	0	0	0	0	****	0	0
18	0	0	0	0	0	0	0	1	3	4	3	4	6	6	5	9	6	10	6	4	3	5	****	3	3
19	5	7	2	5	3	4	6	9	8	8	9	4	7	3	3	2	0	0	0	1	7	0	****	0	4
20	1	7	15	20	8	2	0	0	3	1	7	2	2	3	5	9	8	4	0	0	1	1	****	1	4
21	1	1	1	1	4	4	5	9	7	5	4	4	5	4	3	4	4	4	3	5	7	2	****	5	4
22	2	1	3	2	2	3	3	3	1	7	16	23	13	29	22	17	10	4	15	9	3	1	****	2	8
23	3	2	3	3	10	8	11	17	30	42	40	42	50	43	47	51	41	45	40	43	35	9	****	3	27
24	3	3	4	5	4	3	5	4	10	5	3	3	3	2	2	2	3	3	3	2	3	2	****	1	3
25	1	2	1	0	0	0	1	11	32	25	16	4	3	2	2	2	1	2	3	3	3	2	****	2	5
26	3	3	3	3	2	2	3	3	3	3	2	1	3	3	3	4	4	3	3	2	2	3	****	3	3
27	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	8	39	29	21	18	12	4	****	3	7
28	1	1	1	1	1	2	4	1	2	3	3	4	5	5	6	3	5	3	0	0	0	0	****	0	2
29	0	0	0	1	0	1	1	1	2	4	14	15	15	4	4	5	14	9	3	6	18	16	****	3	6
30	4	6	3	9	23	34	52	48	42	48	119	93	50	55	22	5	5	5	17	26	34	24	****	9	32
31	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	6	6	4	****	5	2

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->				STD GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	50	90	95	98	99	1-HR				DEVIATION	VALID DATA	1-HR	24-HR		
3	3	3	16	26	43	49	0	-	119	0	-	32	4	96	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL  
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	18	14	12	12	16	13	16	32	60	70	63	72	74	27	44	32	29	34	17	13	9	9	****	70	33
2	20	62	23	7	4	9	24	54	58	54	40	31	29	32	30	35	23	25	49	33	34	35	****	18	32
3	18	26	11	3	3	24	40	49	50	35	19	13	17	16	12	17	14	30	38	33	39	18	****	9	23
4	4	3	3	3	3	3	4	3	5	6	4	4	4	6	5	5	5	5	4	4	4	3	****	4	4
5	3	2	2	3	3	3	5	6	7	8	8	5	7	16	14	15	18	15	14	8	3	4	****	10	8
6	11	5	4	9	8	11	10	13	10	15	11	7	7	4	7	6	8	9	8	9	7	5	****	9	8
7	5	3	4	7	6	6	20	25	21	17	24	11	10	7	4	15	27	34	14	12	3	3	****	10	13
8	9	8	9	6	4	8	15	12	10	10	7	3	3	4	5	7	9	12	13	5	3	0	****	6	7
9	6	1	0	0	0	1	2	5	8	13	8	3	4	5	9	9	10	5	5	7	7	28	****	24	7
10	27	10	8	11	8	13	22	26	25	45	43	44	44	44	52	54	68	63	58	67	68	60	****	50	40
11	17	10	6	8	8	8	13	25	34	43	40	29	48	41	30	41	57	76	95	76	45	29	****	28	35
12	17	9	8	8	7	8	14	23	24	23	23	20	16	31	29	24	32	28	28	25	10	****	5	19	
13	7	3	3	3	3	2	5	8	9	9	4	4	3	3	2	4	3	4	6	3	4	7	****	4	4
14	2	6	3	2	3	2	10	17	5	4	5	5	2	8	10	6	7	6	5	13	10	6	****	10	6
15	8	7	8	7	7	6	6	18	26	14	21	32	49	42	57	67	74	87	84	47	67	53	****	24	35
16	20	19	7	13	7	4	4	13	10	18	34	22	37	23	33	18	35	22	16	18	28	10	****	8	18
17	4	2	4	3	3	5	5	11	25	23	25	26	26	32	25	7	19	13	4	4	3	1	****	3	12
18	4	2	1	1	1	1	2	5	19	9	7	7	10	10	9	11	9	12	11	15	10	15	****	9	8
19	8	11	2	5	4	6	9	12	16	17	13	5	7	5	8	9	8	6	40	50	61	13	****	35	15
20	51	72	66	47	31	19	1	2	17	4	15	11	12	9	13	18	22	19	5	2	3	5	****	4	19
21	3	3	2	1	7	3	4	6	5	6	6	3	4	5	3	3	5	6	5	11	11	2	****	8	5
22	2	0	0	0	0	0	0	0	0	3	7	12	3	13	11	10	8	2	11	6	2	0	****	3	4
23	0	0	0	0	3	14	24	34	32	33	34	35	44	51	54	59	49	68	79	105	94	11	****	11	36
24	5	0	0	0	0	0	8	24	47	49	9	8	12	4	8	9	13	9	7	5	5	13	****	11	11
25	9	10	5	4	7	8	17	42	61	61	44	28	22	19	26	26	13	8	13	11	11	19	****	16	21
26	15	10	10	10	6	7	16	31	31	34	31	30	22	30	31	26	33	23	33	32	22	19	****	17	22
27	14	9	8	6	3	5	7	13	25	33	34	24	28	21	28	76	99	98	97	108	96	57	****	18	39
28	10	8	5	1	2	6	16	26	32	43	37	23	27	26	30	37	39	29	9	4	4	4	****	3	18
29	3	2	3	4	2	5	5	8	32	20	24	25	23	12	7	10	36	17	13	27	30	29	****	11	15
30	15	21	10	21	32	51	54	48	47	49	60	59	55	65	48	21	23	20	52	86	104	98	****	65	48
31	31	16	8	3	2	1	3	10	23	28	22	24	15	17	18	15	37	38	30	38	28	18	****	31	20

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->							<-----RANGE----->				STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99			1-HR		24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
11	11	11	48	61	76	96			0	-	108	3	96	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	4	5	5	5	3	5	4	3	3	2	3	2	1	2	1	1	0	0	0	1	0	****	0	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	1	0
3	1	0	0	0	1	3	2	9	19	13	2	3	10	16	13	14	11	10	9	7	9	6	****	2	7
4	2	2	2	3	14	4	2	2	10	25	48	31	32	43	38	28	36	28	30	34	35	28	****	18	21
5	24	22	22	23	5	4	6	6	5	3	3	2	2	1	3	2	4	4	4	4	4	4	****	4	7
6	3	3	1	1	1	1	1	1	2	2	1	1	2	5	4	4	5	7	6	6	7	8	****	7	3
7	9	5	4	3	2	3	2	4	5	4	3	5	4	3	3	3	5	3	3	4	4	6	****	2	4
8	4	2	2	2	2	2	2	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	****	0	1
9	0	0	0	0	0	0	0	0	0	0	2	5	2	0	5	8	5	7	12	32	2	2	****	0	4
10	7	2	0	0	7	5	6	3	4	2	2	2	14	2	8	5	7	16	19	10	6	7	****	11	6
11	10	7	8	26	14	7	10	19	18	21	43	29	20	17	43	13	4	4	20	45	79	18	****	28	22
12	42	53	47	43	63	55	64	100	61	56	37	42	16	7	10	16	13	10	16	24	11	7	****	7	35
13	5	2	2	7	13	8	6	4	7	5	9	7	5	3	2	4	5	4	3	4	8	3	****	11	6
14	11	9	5	2	3	5	5	12	24	15	6	4	5	3	44	11	8	6	7	12	5	6	****	14	10
15	15	5	5	2	7	9	6	2	3	2	7	3	6	6	4	5	3	6	4	2	3	2	****	3	5
16	2	0	1	1	2	3	5	6	5	1	2	3	4	4	9	4	4	4	5	9	8	5	****	3	4
17	6	3	2	2	2	9	5	4	9	15	14	12	7	5	5	15	15	8	10	9	6	2	****	2	7
18	5	3	2	2	6	4	17	6	8	12	7	5	6	18	13	8	4	12	7	7	7	5	****	8	7
19	7	5	4	4	8	6	9	9	7	8	4	3	11	9	5	4	3	4	3	2	2	2	****	1	5
20	1	2	4	3	6	2	6	5	4	5	4	5	2	3	5	7	5	5	1	1	3	2	****	3	4
21	7	4	2	3	3	4	2	3	4	6	4	5	3	5	4	4	10	8	4	6	1	2	****	14	5
22	9	5	5	2	3	6	8	5	10	3	5	7	4	4	9	4	3	6	2	3	4	4	****	5	5
23	3	4	7	4	6	3	2	2	1	3	4	1	1	11	10	6	1	2	4	3	3	****	2	4	
24	1	7	6	4	4	5	4	7	3	2	3	7	4	5	5	5	4	7	4	4	5	5	****	7	5
25	5	3	1	1	2	4	1	8	6	8	8	6	4	6	11	8	11	4	2	9	14	7	****	6	6
26	4	5	5	3	1	1	10	5	1	1	1	3	5	1	3	5	2	3	3	1	2	2	****	2	3
27	0	0	0	3	2	4	11	0	0	1	1	0	3	3	3	4	4	4	6	2	5	8	****	1	3
28	0	0	1	1	0	0	0	2	3	12	9	3	0	3	4	4	1	0	0	0	0	0	****	5	2
29	1	0	0	1	0	0	0	0	2	1	0	0	0	0	0	6	1	3	2	2	1	0	****	0	1
30	2	1	0	1	3	3	5	2	22	28	<----- D ----->	9	4	3	7	5	12	14	6	4	4	****	6	7	

MONTHLY STATISTICS:

GEOM			ARITH					PERCENTILE					RANGE					STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	24-HR	24-HR	24-HR	24-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR			
3	4	7	4	14	25	43	54	0	-	100	0	-	35	4	95	0	0				

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL  
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	21	17	9	8	8	8	13	20	21	23	14	12	10	11	13	18	31	24	27	21	13	8	****	12	16
2	8	4	4	4	3	4	6	13	15	16	16	18	17	17	14	12	15	19	18	21	18	19	****	36	14
3	28	10	24	5	10	28	32	54	66	64	48	43	50	59	50	40	36	25	60	88	87	78	****	36	44
4	10	17	24	25	52	24	11	39	58	60	68	54	53	55	55	53	61	54	71	86	92	93	****	20	49
5	25	21	33	38	5	4	8	16	28	23	22	34	26	18	21	14	19	17	11	11	11	9	****	10	18
6	6	11	10	8	5	8	8	13	9	10	7	11	11	17	15	17	18	24	21	34	16	9	****	6	13
7	7	4	3	2	2	3	3	8	9	11	12	15	11	11	11	10	7	6	9	26	16	10	****	11	9
8	9	4	4	4	4	4	10	10	7	10	6	5	5	5	5	2	3	3	2	1	1	1	****	4	5
9	2	1	0	1	1	1	0	1	1	4	15	30	13	7	39	20	37	34	32	48	7	13	****	2	13
10	18	6	0	1	32	15	26	30	41	43	35	11	15	20	34	33	8	36	47	44	38	41	****	42	27
11	39	36	28	30	30	25	30	30	25	18	27	20	9	8	26	13	12	23	59	72	73	17	****	19	29
12	58	70	74	73	80	74	72	78	44	66	34	35	13	5	2	12	9	8	21	41	17	16	****	12	40
13	4	0	0	0	3	1	3	0	1	1	5	2	0	0	0	0	1	0	2	3	2	2	****	8	2
14	2	2	1	0	0	0	0	3	6	4	1	2	0	0	10	3	2	2	6	7	3	2	****	12	3
15	12	2	1	0	4	8	4	1	3	2	4	1	2	3	3	5	3	5	2	3	16	3	****	5	4
16	0	0	0	0	2	17	13	14	15	6	1	1	1	1	5	2	5	7	7	16	13	7	****	3	6
17	2	0	0	0	10	9	2	3	8	14	11	10	3	2	3	8	7	6	8	7	3	0	****	2	5
18	0	0	0	0	2	3	13	3	4	6	2	1	0	7	3	2	0	4	5	2	3	1	****	7	3
19	2	1	0	0	2	1	4	3	1	1	0	0	0	1	0	0	0	1	2	0	1	0	****	3	1
20	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	1	1	3	2	1	7	2	****	8	1
21	5	1	0	0	0	0	0	1	1	9	4	0	0	0	0	1	7	7	6	7	4	1	****	15	3
22	7	0	0	0	0	1	4	5	5	1	2	4	3	1	4	4	0	2	1	5	4	4	****	8	3
23	1	1	3	0	4	1	0	0	0	1	0	2	0	6	18	16	12	1	0	4	1	5	****	5	4
24	1	4	3	0	1	2	3	6	1	5	3	3	0	0	4	2	1	1	6	2	4	1	****	5	3
25	1	0	0	0	0	0	0	6	4	5	2	1	1	8	17	11	17	3	0	7	12	9	****	10	5
26	2	3	0	2	0	4	18	16	3	5	1	7	3	1	2	10	3	14	5	0	1	0	****	7	5
27	0	0	5	19	17	22	24	0	0	0	0	2	9	7	4	9	7	11	14	3	11	14	****	3	8
28	0	0	0	0	0	0	0	0	0	8	6	2	9	23	17	29	28	14	1	0	0	10	****	15	7
29	0	0	0	0	0	0	0	0	0	0	0	1	0	2	6	14	4	4	6	2	2	0	****	3	2
30	3	1	0	0	1	1	3	6	25	23	<----- D----->	8	7	8	13	14	27	33	19	13	****	12	11		

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
5	5	12	5	33	51	72	78	0	- 93	6	95	0	0		

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	3	3	3	3	2	2	2	2	3	3	2	2	2	4	5	5	4	2	2	2	****	5	3
2	5	4	3	3	31	45	55	37	115	83	94	86	51	53	49	47	27	7	4	3	3	3	****	5	35
3	2	2	3	3	3	3	2	2	4	3	3	3	2	2	2	2	2	2	2	1	0	1	****	3	2
4	2	1	1	2	2	3	4	2	3	2	2	2	2	3	4	3	3	3	3	2	5	17	****	5	3
5	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	3	3	2	****	4	2
6	3	2	2	2	4	4	3	3	4	5	4	3	5	4	5	6	6	5	5	5	5	5	****	10	4
7	9	7	6	6	5	7	5	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	****	6	4
8	3	3	5	4	3	4	4	4	4	4	4	4	5	4	19	27	20	28	34	31	26	23	****	11	12
9	18	23	15	6	5	4	6	16	18	9	5	6	4	3	3	3	2	3	2	2	2	2	****	2	7
10	0	1	0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	****	5	2
11	3	3	3	3	3	3	3	5	8	12	12	13	8	12	12	20	15	11	11	8	11	16	****	16	9
12	20	14	18	14	25	15	12	14	18	9	11	9	10	19	13	14	14	20	20	8	5	3	****	6	13
13	6	3	10	6	3	2	3	3	2	2	3	2	1	10	9	14	7	2	1	1	1	2	****	3	4
14	1	0	1	1	1	1	1	2	2	2	3	4	3	2	2	3	3	3	2	3	2	2	****	5	2
15	3	3	3	4	3	5	5	4	4	3	3	5	6	5	3	4	8	11	5	6	6	3	****	3	5
16	3	5	10	17	13	9	10	13	5	4	3	3	3	3	3	3	3	3	3	4	3	3	****	4	6
17	3	3	2	2	2	2	1	1	2	3	3	5	4	4	4	3	3	3	4	5	6	7	****	7	3
18	7	6	5	5	5	3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	4	****	6	4
19	5	3	3	3	3	3	2	3	3	7	7	17	27	5	4	4	6	4	4	4	6	6	****	6	6
20	4	4	3	2	2	1	1	1	1	1	2	3	3	3	3	3	3	4	7	5	9	5	****	11	4
21	7	6	5	4	4	4	6	6	5	6	21	13	18	12	25	11	10	21	16	10	7	8	****	14	10
22	19	19	15	19	21	23	19	13	12	14	13	10	<----- D ----->		8	18	27	40	48	38	****	14	20		
23	6	5	5	4	4	3	3	3	8	7	15	16	6	6	9	5	5	5	6	5	5	5	****	10	6
24	5	3	3	3	3	3	3	4	6	8	12	14	14	14	13	11	9	9	10	9	9	8	****	8	8
25	5	6	5	5	5	5	4	5	6	6	6	6	7	7	5	5	5	7	7	5	4	5	****	6	6
26	5	5	5	5	5	5	4	4	5	4	6	6	9	55	62	69	36	27	24	22	15	18	****	21	18
27	18	23	17	19	14	13	21	27	20	80	68	27	56	38	32	22	8	8	6	5	5	7	****	10	24
28	8	8	8	8	7	6	16	16	16	18	18	50	27	42	56	61	55	35	32	38	49	40	****	75	30
29	85	61	38	23	28	51	102	118	123	40	13	10	8	8	3	4	3	1	0	0	0	0	****	2	31
30	0	0	0	0	0	0	0	0	1	1	1	1	3	1	3	2	3	3	3	7	11	7	****	9	2

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->					STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR			
5	4	10	4	21	38	61	84	0	-	123	2	-	35	3	95	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	****	26	1	
2	35	24	18	15	27	31	32	37	44	31	34	32	40	43	46	44	40	3	0	0	0	0	0	****	0	25
3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	1	0	0	0	0	0	****	2	0	
4	0	0	0	0	0	0	0	1	3	2	3	4	1	0	0	0	0	4	2	11	56	65	****	7	7	
5	9	24	1	0	0	0	0	3	3	7	0	3	0	0	0	0	0	0	0	0	0	0	****	0	2	
6	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	2	10	****	37	2	
7	35	27	12	12	0	0	0	2	1	2	2	3	0	0	0	0	2	0	0	0	0	0	****	0	4	
8	0	0	0	0	0	0	0	0	6	10	25	43	49	54	61	66	64	74	79	73	65	64	****	51	34	
9	46	51	49	27	26	27	30	27	21	15	3	3	1	1	0	2	0	11	8	0	4	12	****	9	16	
10	13	9	1	0	0	0	0	0	1	2	1	1	4	6	10	3	16	19	17	23	11	6	****	0	6	
11	0	0	0	0	0	0	0	0	5	2	1	1	0	0	0	3	1	0	0	0	0	1	****	1	1	
12	4	0	0	0	9	1	0	3	5	0	1	0	0	0	0	1	0	6	15	1	0	0	****	0	2	
13	0	0	5	0	0	0	0	0	0	0	0	0	0	2	0	2	1	5	1	0	0	0	****	0	1	
14	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	7	6	1	0	4	4	3	****	4	2	
15	14	14	11	3	2	1	11	28	33	31	38	42	41	40	42	46	45	44	47	50	53	46	****	38	31	
16	41	40	40	38	33	30	27	39	35	34	27	28	24	27	21	22	37	40	33	31	21	8	****	2	29	
17	3	1	2	1	0	0	1	8	13	16	20	23	10	13	9	9	14	16	5	2	2	2	****	1	7	
18	7	0	0	0	0	0	4	7	2	3	1	3	4	5	5	8	6	5	7	3	4	1	****	3	3	
19	4	0	1	0	0	0	1	16	16	18	18	39	37	0	0	0	0	0	0	11	16	2	****	1	8	
20	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	2	1	
21	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	6	1	1	0	0	****	2	1	
22	6	2	3	5	2	6	5	2	0	0	1	0	<-----D----->				36	46	59	60	56	50	****	39	20	
23	27	22	6	2	2	3	10	24	34	38	36	38	6	2	3	1	10	10	24	34	23	19	****	14	17	
24	4	2	1	0	0	0	6	13	9	6	8	7	6	5	4	2	4	3	7	4	2	3	****	3	4	
25	2	1	1	0	0	1	0	1	4	7	7	6	3	5	3	1	2	2	4	0	1	0	****	0	2	
26	0	0	0	0	0	0	0	9	13	6	0	0	8	66	88	108	102	88	91	87	72	72	****	67	38	
27	57	53	38	43	31	33	39	53	54	67	64	55	58	41	32	15	0	1	6	13	7	1	****	0	33	
28	0	0	0	0	0	5	32	64	49	40	28	43	49	48	62	78	69	60	49	43	44	43	****	83	39	
29	75	91	98	96	101	105	108	105	100	74	8	5	3	5	10	4	6	2	12	7	0	0	****	0	44	
30	0	0	0	0	0	0	1	15	21	13	1	1	14	0	0	0	0	0	0	4	5	6	****	2	4	

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->							<-----RANGE----->				STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
4	2	13	2	44	62	85	99	0	-	108	9	95	0	0		

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	8	6	4	3	3	8	6	3	46	71	50	44	17	2	1	2	2	3	2	1	2	2	****	7	13
2	5	20	18	5	5	5	6	5	9	21	29	38	88	39	38	39	20	26	28	34	37	15	****	20	24
3	41	41	47	46	22	8	10	10	7	3	3	2	3	3	3	3	4	4	4	5	5	****	4	12	
4	3	3	2	3	3	3	3	3	3	2	2	2	3	3	1	3	2	2	3	3	3	3	****	4	3
5	2	3	2	4	3	3	4	3	3	5	11	7	9	20	15	10	12	13	23	18	7	8	****	19	9
6	18	15	28	15	21	26	25	24	18	27	17	16	9	6	8	6	12	14	13	14	8	21	****	13	16
7	13	13	9	7	10	5	12	5	10	10	14	8	5	9	9	19	18	6	4	3	3	3	****	25	9
8	12	23	10	9	8	19	22	17	9	10	4	1	0	0	0	0	0	0	1	0	1	1	****	4	7
9	4	4	5	5	4	19	12	7	25	37	29	15	7	5	12	6	13	8	6	10	6	5	****	14	11
10	21	6	16	8	9	15	30	38	21	72	38	10	11	15	9	9	8	19	14	14	21	15	****	10	19
11	6	5	5	5	4	3	3	3	3	4	4	3	4	3	3	3	4	4	3	4	2	4	****	7	4
12	5	4	4	4	3	4	4	4	3	2	1	2	1	1	1	1	1	1	1	3	2	3	****	3	3
13	2	2	1	3	3	2	3	4	4	3	2	3	3	3	3	1	1	2	3	3	4	4	****	5	3
14	4	4	3	3	3	2	3	2	3	2	1	0	0	3	1	0	0	0	0	1	3	3	****	4	2
15	3	2	2	3	1	1	1	2	1	1	1	0	0	0	0	0	0	0	1	2	2	1	****	3	1
16	1	2	1	1	1	3	3	2	2	1	1	1	0	0	0	0	0	0	0	1	1	2	****	4	1
17	1	1	2	2	1	3	2	2	2	2	1	2	1	0	1	1	1	1	2	1	2	3	****	5	2
18	4	3	7	4	5	5	5	5	6	19	9	16	29	25	12	20	18	23	20	18	14	20	****	16	13
19	15	11	10	13	9	19	24	27	16	22	19	10	12	5	9	7	3	1	1	2	6	2	****	3	11
20	1	1	2	8	8	2	0	1	18	5	16	5	14	7	11	8	12	9	2	5	6	4	****	5	7
21	4	4	5	5	11	9	7	15	26	16	8	8	12	6	6	5	4	4	5	5	6	2	****	5	8
22	2	3	10	8	6	5	3	2	4	4	2	2	3	4	5	7	6	4	7	6	8	6	****	18	5
23	12	6	7	8	17	10	13	17	26	41	44	43	47	40	41	44	44	45	47	43	37	12	****	17	29
24	9	4	4	4	5	3	4	4	5	4	2	2	3	2	2	2	3	3	3	4	4	4	****	8	4
25	4	4	3	3	3	4	4	5	5	6	6	5	4	4	4	5	3	5	9	7	8	6	****	10	5
26	7	7	8	6	5	6	6	5	5	5	4	4	5	4	4	5	5	4	4	4	4	5	****	8	5
27	5	4	3	3	2	3	3	3	3	2	2	2	3	3	3	11	35	19	30	16	5	5	****	5	7
28	2	2	2	3	3	3	2	4	3	3	3	5	7	5	5	4	5	2	2	2	3	3	****	7	3
29	3	2	3	3	3	2	1	2	3	6	13	13	9	4	6	12	8	3	2	2	7	8	****	5	5
30	8	7	8	13	32	65	42	30	17	34	72	29	52	48	30	12	14	10	7	35	36	21	****	10	27
31	4	3	3	2	2	3	3	3	2	2	2	2	2	2	3	2	2	2	10	8	7	6	****	9	4

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99	1-HR		24-HR	DEVIATION	VALID DATA	1-HR	24-HR
5	4	4	21	36	44	48	0	-	88	3	96	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	1	2	2	7	22	24	15	53	67	63	54	23	0	0	0	0	2	1	0	1	0	****	2	15
2	1	38	48	0	2	0	0	13	42	31	24	35	54	19	15	15	5	6	20	44	33	40	****	33	23
3	31	38	41	48	34	24	28	32	7	1	0	0	0	0	0	0	0	1	0	0	0	0	****	0	12
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	1	0
5	0	0	0	0	0	0	0	0	0	0	1	0	2	4	1	1	0	0	4	8	0	0	****	5	1
6	5	1	5	1	8	11	5	4	1	5	1	0	0	0	0	0	1	2	2	3	1	8	****	9	3
7	5	2	1	0	11	3	12	5	15	14	12	7	0	3	11	12	10	0	4	0	0	0	****	14	6
8	0	8	0	0	0	7	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	1	1
9	0	0	0	0	0	4	1	0	7	12	5	2	0	0	0	0	1	1	0	5	14	9	****	23	4
10	23	5	20	7	19	28	29	28	24	39	26	23	29	30	27	23	23	44	39	48	52	40	****	16	28
11	0	0	0	0	0	0	0	0	3	2	3	0	0	0	0	0	6	18	8	4	0	0	****	1	2
12	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	****	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	2	0
14	0	0	0	0	0	0	0	16	9	0	0	0	0	0	0	0	0	0	0	3	1	0	****	2	1
15	0	0	0	0	0	0	2	2	9	10	10	5	2	0	1	7	12	18	16	12	7	1	****	3	5
16	1	0	0	0	0	0	0	2	4	2	1	1	1	0	0	0	0	11	11	8	0	0	****	2	2
17	0	0	0	0	0	0	0	4	2	1	0	2	1	0	0	0	0	0	0	0	0	0	****	1	1
18	0	0	1	0	0	0	0	1	0	3	1	3	11	8	3	5	4	8	10	11	2	14	****	10	4
19	7	5	2	4	1	15	10	11	2	10	8	2	5	2	6	5	15	6	24	42	51	58	****	26	14
20	29	16	15	24	26	7	0	0	21	4	8	1	6	0	3	6	13	3	2	0	0	0	****	1	8
21	0	1	2	0	9	5	3	7	7	4	2	1	4	0	3	3	3	2	7	6	6	0	****	4	3
22	1	0	3	0	1	2	0	0	0	0	0	0	0	0	1	3	3	2	3	1	2	3	****	3	1
23	0	1	2	2	9	2	12	55	52	36	42	41	47	48	49	57	61	61	81	90	78	10	****	15	37
24	2	0	0	0	0	0	0	4	14	3	0	0	0	0	0	0	0	0	0	0	0	0	****	1	1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	1	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	2	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	52	39	47	15	1	0	****	0	8
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
29	0	0	0	0	0	0	1	0	0	0	1	0	2	3	3	5	0	0	0	0	3	3	****	0	1
30	6	3	11	19	22	30	24	19	17	19	24	10	24	37	38	10	17	14	21	48	60	48	****	12	23
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	****	0	0

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99	1-HR		24-HR	DEVIATION	VALID DATA	1-HR	24-HR
3	0	0	24	40	52	59	0	-	90	8	96	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	6	7	8	7	6	6	6	5	5	4	5	4	3	4	3	3	2	3	3	3	2	****	6	5
2	2	2	2	1	0	1	1	1	1	2	1	2	2	1	1	1	2	2	0	0	2	1	****	5	1
3	2	2	1	0	1	2	5	3	7	8	13	28	37	24	18	6	5	13	11	4	3	2	****	6	9
4	2	2	2	2	1	1	3	5	5	10	14	11	31	21	29	34	42	28	35	27	25	24	****	31	17
5	44	41	37	31	8	6	7	11	11	7	7	3	1	1	0	1	2	2	4	7	5	6	<-----	11	
6																									
7																									
8																									
9																									
10																									
11	8	9	36	55	49	22	13	22	22	36	39	24	12	21	12	7	8	7	20	47	61	12	****	38	25
12	52	56	60	65	72	46	47	95	68	88	63	36	26	27	35	23	27	15	36	22	31	19	****	37	45
13	24	6	7	10	19	13	14	23	16	11	8	9	13	7	5	6	7	7	4	6	15	9	****	19	11
14	6	8	9	5	5	4	7	9	11	7	13	7	6	4	2	5	7	4	11	6	9	15	****	12	7
15	6	8	8	5	5	5	10	7	5	9	8	9	7	8	11	10	4	7	8	5	3	3	****	12	7
16	6	3	2	3	2	1	3	2	3	1	4	5	4	0	4	3	6	3	4	12	8	3	****	12	4
17	11	4	4	4	3	9	6	2	3	4	6	2	5	4	5	4	7	7	7	10	5	3	****	10	5
18	7	4	4	3	3	2	12	5	2	2	4	3	2	3	7	9	4	2	3	2	4	4	****	15	5
19	6	4	3	3	7	5	5	2	4	2	4	2	4	11	8	2	3	4	5	4	4	8	****	8	5
20	5	3	6	4	4	2	9	9	7	5	8	8	7	5	7	6	10	9	3	5	10	9	****	11	7
21	7	9	7	6	10	10	5	7	8	11	9	5	3	4	3	6	10	7	12	4	5	5	****	15	7
22	11	8	6	5	9	7	14	9	13	5	11	11	9	8	8	10	6	10	5	4	4	9	****	16	8
23	9	10	10	5	8	4	6	2	6	7	10	8	8	12	13	15	9	6	10	6	9	11	****	8	8
24	5	11	8	9	3	5	4	10	4	1	3	6	5	5	5	7	6	8	8	9	8	4	****	9	6
25	6	4	3	1	2	7	3	10	9	5	7	3	8	9	10	13	11	10	11	16	25	12	****	13	9
26	3	6	4	6	2	1	5	7	1	5	8	9	11	6	6	5	11	6	4	9	4	31	****	13	7
27	10	14	11	6	6	4	3	2	2	4	3	2	4	7	6	8	5	7	9	4	12	10	****	11	6
28	3	3	4	3	1	2	3	3	4	13	18	14	7	7	6	6	5	5	3	3	3	4	****	11	6
29	5	4	3	4	4	3	2	2	4	4	5	5	5	5	4	2	1	4	3	5	4	3	****	8	4
30	3	2	1	3	4	3	3	5	3	6	15	24	22	27	7	11	14	11	29	25	24	15	****	33	13

FAILURE OF SO2 ANALYZER

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->							<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	95	24-HR	45	DEVIATION	VALID DATA	1-HR	24-HR		
6	6	10	6	22	34	48	62	0	-	95	1	-	45	3	81	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	8	2	3	14	10	18	****	17	4
3	15	7	0	0	0	1	19	30	43	46	46	52	52	52	13	0	6	11	9	0	0	0	****	4	18
4	0	7	7	0	0	0	0	1	14	22	23	4	25	12	24	34	34	34	48	31	22	10	****	21	16
5	41	28	16	24	0	0	3	7	0	0	0	1	0	0	0	0	0	0	0	0	0	6	****	0	5
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	****	0	0
7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
9	0	0	0	0	0	0	0	0	0	0	6	7	10	12	32	28	22	13	19	15	20	20	****	34	10
10	14	5	6	9	10	26	28	31	24	19	17	11	30	29	13	27	36	32	36	27	22	39	****	30	23
11	33	33	35	37	39	37	33	28	25	19	17	10	7	15	11	8	9	11	45	76	67	7	****	53	29
12	75	90	92	86	76	65	52	77	72	77	48	31	22	27	31	28	39	18	38	28	29	19	****	27	50
13	23	1	4	9	13	10	13	11	9	7	5	3	6	3	3	3	5	4	2	3	11	7	****	5	7
14	1	4	7	4	3	5	10	12	9	9	14	15	9	11	11	12	18	17	22	16	12	16	****	7	11
15	6	8	12	6	8	11	19	15	9	10	17	19	13	12	14	16	12	18	15	17	12	9	****	10	13
16	8	1	2	3	1	0	2	2	2	2	8	8	7	3	11	7	8	6	5	10	9	4	****	6	5
17	9	2	4	4	2	9	8	6	5	5	7	3	5	5	2	6	9	7	8	8	3	2	****	3	5
18	7	3	2	2	2	10	6	5	4	11	8	4	5	5	10	8	5	4	4	5	6	****	10	6	
19	7	6	4	4	6	7	6	4	5	5	6	6	6	11	8	5	5	6	5	8	6	9	****	8	6
20	4	2	5	2	3	1	10	7	5	3	4	4	3	2	3	2	4	4	0	0	5	3	****	2	3
21	0	3	1	2	5	7	0	2	4	5	3	5	3	4	5	9	9	7	13	8	6	7	****	17	5
22	10	6	5	2	6	7	11	8	15	3	10	10	3	3	5	9	3	5	3	1	2	7	****	8	6
23	6	9	8	1	4	2	9	6	11	23	18	13	7	17	18	11	9	13	21	11	13	12	****	7	11
24	8	14	11	11	6	7	9	13	11	5	8	12	7	7	12	10	10	14	13	11	14	11	****	14	10
25	9	8	7	2	4	11	6	14	13	12	16	12	18	20	27	25	30	22	28	30	39	18	****	15	17
26	9	16	11	24	8	6	22	39	18	28	30	25	21	13	12	14	20	15	14	27	18	41	****	24	20
27	38	47	39	34	38	31	12	6	6	12	12	9	10	14	14	16	11	11	16	8	25	19	****	20	20
28	8	5	7	6	3	4	4	7	10	13	14	12	18	34	37	40	38	31	20	9	10	19	****	7	16
29	15	19	10	8	6	4	6	5	6	5	4	3	1	0	0	1	3	6	8	7	3	2	****	8	6
30	8	8	4	9	8	9	10	6	1	3	7	11	16	15	6	9	12	10	28	32	32	22	****	20	13

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
8	7	11	7	28	38	52	76	0	- 92	3	96	0	0		

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	4	6	5	8	7	6	5	8	10	8	8	6	5	13	28	28	24	26	17	14	11	****	5	11
2	7	9	8	13	31	23	26	30	29	37	49	46	39	36	32	30	41	22	5	2	2	2	****	3	23
3	2	2	2	1	2	3	3	4	3	3	3	4	3	6	4	5	6	6	5	5	7	6	****	7	4
4	12	20	8	5	5	4	5	6	8	7	4	5	4	4	3	4	3	11	12	7	15	15	****	8	8
5	4	4	6	9	9	9	7	9	13	10	9	10	9	7	5	5	4	4	3	5	5	5	****	5	7
6	6	5	6	5	6	5	5	7	9	8	10	7	7	7	10	10	12	11	11	12	10	6	****	14	8
7	30	30	20	12	8	9	13	9	4	2	3	9	18	20	18	22	16	34	19	20	14	8	****	10	15
8	10	7	6	6	5	5	6	5	6	6	5	3	3	6	14	12	17	12	10	11	24	21	****	13	9
9	9	7	10	9	16	15	10	16	35	24	12	8	7	5	7	4	4	3	4	3	3	2	****	2	9
10	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	1	2	2	2	2	3	4	****	3	2
11	2	2	4	4	3	3	2	6	9	12	4	3	3	6	3	2	3	4	3	3	3	5	****	4	4
12	4	3	4	6	12	16	16	33	28	21	24	10	8	8	7	5	5	10	14	16	12	11	****	31	13
13	32	31	20	16	18	10	14	20	17	28	29	50	33	29	11	12	11	6	2	3	5	9	****	14	18
14	8	6	6	5	3	3	3	3	5	3	6	7	8	13	18	17	6	4	4	5	5	4	****	4	6
15	6	6	7	8	11	10	7	5	5	4	3	3	3	2	2	2	2	2	2	3	3	3	****	2	4
16	2	2	3	3	4	6	5	5	7	9	9	10	14	17	12	13	15	14	12	7	7	9	****	10	8
17	8	9	8	6	6	3	5	4	3	6	8	9	9	9	7	8	6	8	10	10	11	****	7	7	
18	7	8	7	5	4	4	4	5	5	7	10	11	7	7	7	6	6	3	4	4	5	6	****	6	6
19	5	6	6	7	7	6	4	7	7	9	15	16	13	10	8	6	9	7	7	7	7	7	****	16	8
20	13	6	8	5	4	5	3	4	5	5	4	7	5	18	18	19	15	15	20	16	9	9	****	6	10
21	8	10	11	12	14	15	12	9	7	5	4	4	4	6	3	3	5	5	6	3	2	2	****	2	7
22	2	2	2	2	2	2	2	2	3	2	3	2	1	1	2	4	12	20	30	33	54	****	10	9	
23	7	6	6	5	5	6	6	7	7	5	8	8	8	4	6	4	3	3	3	5	4	3	****	6	5
24	5	3	4	3	3	3	4	4	8	14	18	28	21	16	15	15	12	11	14	14	13	12	****	12	11
25	8	10	13	26	24	36	25	26	35	35	39	39	34	22	20	11	14	21	23	14	13	12	****	5	22
26	8	10	10	8	8	9	5	6	7	4	8	11	18	32	59	59	23	19	24	17	13	8	****	5	16
27	7	18	20	16	11	8	8	9	8	10	15	15	14	17	22	22	22	11	9	6	7	7	****	11	13
28	10	10	9	8	11	11	15	18	24	26	26	13	15	22	15	31	23	25	69	35	37	47	****	27	23
29	22	21	19	27	29	26	26	33	100	57	25	22	14	10	6	4	2	3	2	3	2	2	****	3	20
30	1	1	1	1	4	2	1	2	3	8	6	2	3	13	27	9	21	12	8	14	15	16	****	14	8

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
7	7	10	7	24	31	38	50	1	- 100	2	96	0	0		

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU  
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	5	6	5	9	****	0	1
2	0	8	4	4	17	10	10	9	13	0	0	6	4	18	16	14	24	21	0	0	0	0	****	0	8
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	****	0	0
4	3	3	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	36	44	13	55	57	****	22	10
5	0	2	14	20	17	7	0	11	37	15	9	10	5	0	0	0	0	0	0	0	0	****	0	7	
6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7	20	8	0	****	18	2
7	22	20	22	5	3	0	9	2	0	0	0	2	4	0	6	2	16	2	4	3	0	****	0	5	
8	0	0	0	0	0	0	0	0	7	9	15	2	8	11	42	49	55	48	54	53	50	49	****	36	21
9	24	23	26	24	25	23	16	11	15	6	0	0	0	0	0	0	0	0	0	0	0	****	0	8	
10	0	3	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	10	11	****	0	1
11	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	
12	0	0	0	0	1	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	****	8	1	
13	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	
15	0	5	0	0	2	0	5	0	0	1	4	3	1	0	0	9	18	15	15	17	11	5	****	4	5
16	0	5	2	0	3	8	8	7	9	10	13	16	22	25	26	32	41	43	27	2	1	3	****	1	13
17	0	0	0	0	0	0	0	0	0	1	0	0	8	0	1	1	1	0	0	1	1	0	****	0	1
18	0	0	0	0	0	0	1	0	1	5	5	3	3	2	2	7	20	0	0	0	2	14	****	0	3
19	0	6	7	7	4	0	0	0	0	0	11	21	21	8	0	0	0	0	0	0	0	****	33	5	
20	30	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	11	6	0	****	0	2	
21	0	3	0	0	1	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	28	32	31	23	****	13	7
23	4	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	1	4	****	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	
25	0	0	0	3	0	3	0	1	5	5	7	7	5	2	3	1	2	3	6	1	1	0	****	0	2
26	0	0	0	0	0	0	0	0	0	0	0	13	27	37	55	49	38	43	40	48	44	****	16	18	
27	24	34	25	19	5	5	12	18	12	13	28	29	26	25	25	19	2	0	0	0	0	****	0	14	
28	0	0	0	0	0	4	13	22	46	37	19	0	2	3	0	17	8	7	60	35	31	43	****	54	17
29	51	51	40	68	71	59	58	61	75	62	18	4	0	1	12	0	0	0	5	14	0	****	0	28	
30	0	0	0	0	0	0	0	0	4	8	3	0	0	0	0	0	0	1	0	0	0	****	0	1	

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR	DEVIATION	VALID DATA	1-HR	24-HR
3	0	6	0	22	37	54	59	0	-	75	9	96	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	12	10	7	11	14	23	33	45	29	33	21	22	17	20	19	31	10	13	22	21	9	9	****	14	19
2	15	13	12	16	20	12	12	15	16	8	3	4	3	3	3	8	14	9	8	11	7	7	****	6	10
3	9	7	6	6	6	5	7	17	22	13	6	5	5	6	6	8	9	7	8	10	8	12	****	9	9
4	9	12	13	11	10	8	9	6	6	8	5	4	6	8	4	5	6	4	5	4	8	5	****	5	7
5	5	7	11	11	7	6	8	12	14	23	20	21	24	26	11	7	7	11	8	13	24	24	****	34	14
6	32	23	10	7	5	1	1	1	3	3	1	1	3	2	1	2	2	1	1	5	5	8	****	4	5
7	4	3	2	0	0	1	2	0	1	1	2	2	1	2	3	3	11	14	8	8	16	13	****	19	5
8	27	31	25	13	12	9	7	5	7	24	12	6	5	4	5	5	8	7	6	7	7	6	****	7	11
9	9	12	12	15	11	11	17	18	21	26	16	8	5	9	7	8	8	6	4	7	16	11	****	9	12
10	5	1	1	1	1	2	4	4	9	10	7	13	4	4	11	14	19	12	4	6	14	20	****	11	8
11	8	7	3	3	2	1	1	1	2	3	4	2	3	4	1	3	3	2	4	6	3	5	****	8	3
12	10	7	7	5	5	6	6	10	5	4	3	7	6	3	3	4	4	3	3	5	6	6	****	5	5
13	4	5	4	7	6	4	7	6	8	10	6	9	10	9	8	4	4	4	7	9	8	11	****	10	7
14	8	10	7	7	11	5	6	6	9	7	4	4	4	7	6	7	5	4	3	5	8	6	****	6	6
15	5	5	2	3	3	3	2	1	4	10	5	3	2	7	5	18	10	2	4	1	2	1	****	3	4
16	3	5	4	3	3	2	4	4	6	12	5	2	3	1	4	1	3	3	4	3	3	3	****	4	4
17	7	6	5	5	5	7	9	5	5	5	3	6	5	4	3	3	4	4	5	5	8	6	****	11	6
18	17	11	10	21	28	20	14	17	15	25	34	33	46	34	27	12	5	3	3	10	4	3	****	5	17
19	3	3	3	2	4	3	10	14	21	6	3	3	3	1	4	2	2	2	10	34	18	3	****	11	7
20	6	9	8	9	5	5	3	6	4	2	2	1	3	2	2	2	3	4	3	6	16	17	****	9	6
21	12	9	14	14	8	5	4	6	6	8	8	8	5	2	5	4	4	2	2	2	2	2	****	1	6
22	2	3	3	2	2	2	2	1	1	1	0	1	0	0	1	1	1	1	1	1	0	2	****	2	1
23	1	1	1	2	1	4	5	9	19	16	28	29	28	36	49	48	51	45	49	54	57	35	****	22	26
24	13	10	8	7	5	6	6	9	16	23	14	11	6	5	4	4	8	11	9	10	9	8	****	6	9
25	8	5	7	11	8	12	11	10	13	19	12	4	6	13	3	4	7	16	10	7	10	10	****	8	9
26	8	7	10	9	8	9	9	9	8	12	9	9	6	7	6	6	7	7	9	13	7	12	****	11	9
27	13	6	8	3	3	5	4	5	5	6	3	5	4	4	7	10	7	8	7	7	12	19	****	8	7
28	5	6	5	5	6	4	8	5	10	8	9	20	15	16	12	15	13	11	9	13	9	15	****	11	10
29	9	7	10	6	9	10	10	12	24	18	13	10	5	2	1	1	2	1	1	0	0	0	****	11	7
30	7	3	2	5	4	11	14	11	22	44	31	42	37	22	8	2	2	3	3	4	4	4	****	26	14
31	9	4	6	3	3	3	4	3	5	3	3	4	3	1	4	3	1	3	5	6	8	6	****	8	4

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->		STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR
6	6	6	18	25	34	45	0 -	57	3	96	0	0

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU  
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	3	13	36	22	44	44	44	35	47	23	4	0	2	1	2	15	16	2	0	****	15	16
2	2	1	1	13	39	23	11	16	29	20	0	0	0	0	0	0	0	0	0	0	0	0	****	1	7
3	14	7	0	0	21	20	19	15	12	3	0	0	0	0	0	0	0	0	0	0	0	0	****	0	5
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
5	0	0	0	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	4	6	6	****	15	2
6	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	13	8	16	29	21	****	3	4
8	3	11	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	1
9	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	****	15	1
10	5	0	0	0	0	2	7	1	19	11	10	11	4	2	6	10	20	23	10	21	29	32	****	14	10
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
15	0	0	0	0	0	0	0	2	35	28	1	1	0	7	4	36	16	0	12	0	0	0	****	0	6
16	0	4	0	0	0	0	0	0	6	14	3	0	0	0	2	0	0	0	0	0	0	0	****	0	1
17	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
18	3	0	10	9	15	16	4	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0	****	0	3
19	0	0	0	1	7	0	3	2	9	0	0	0	0	0	0	0	10	24	34	55	37	26	****	16	10
20	2	7	34	22	7	8	5	2	5	0	0	0	0	0	0	0	0	0	0	0	2	5	****	1	4
21	2	0	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
23	0	0	0	0	0	3	6	6	10	7	20	15	14	27	50	54	57	52	72	64	59	39	****	40	26
24	16	0	0	0	0	0	0	5	23	31	25	9	0	0	0	0	0	0	0	0	0	0	****	0	5
25	1	0	0	0	3	22	24	21	22	24	7	0	0	0	0	0	0	3	0	0	0	0	****	0	6
26	0	0	0	0	0	20	6	0	0	6	3	9	0	0	0	0	0	0	0	3	0	5	****	1	2
27	3	0	1	0	0	3	1	0	1	28	3	4	10	8	24	24	15	4	1	1	4	10	****	0	6
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	****	0	0
29	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	****	22	1
30	18	11	3	15	9	12	7	2	7	6	5	8	12	15	14	0	0	17	19	2	0	0	****	27	9
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->							<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99		1-HR		24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
3	0	0	15	24	38	49		0	-	72	9	96	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	8	8	9	8	8	6	7	7	6	5	5	7	5	4	3	3	5	10	6	7	4	****	6	6
2	7	4	3	4	5	8	6	15	26	24	24	11	3	2	2	3	1	1	3	7	8	5	****	5	8
3	5	8	8	4	7	3	1	2	3	2	2	4	4	3	12	14	9	14	13	9	6	4	****	2	6
4	3	2	3	3	3	7	6	4	7	10	7	8	10	12	13	15	15	14	16	11	10	7	****	7	8
5	6	5	5	5	5	5	7	9	11	11	4	8	4	4	6	8	6	4	4	5	4	6	****	11	6
6	11	9	4	4	4	7	7	6	4	4	3	4	6	8	12	13	17	16	16	24	10	6	****	3	9
7	2	1	1	2	7	7	6	8	11	6	4	5	5	4	4	8	7	5	5	8	6	6	****	10	6
8	10	8	6	5	4	4	4	4	4	5	5	4	4	4	4	3	3	4	3	2	2	****	5	4	
9	5	4	11	11	12	10	9	4	7	10	2	2	2	2	2	2	4	8	4	3	2	2	****	5	5
10	5	7	6	12	8	4	2	2	2	3	4	1	1	1	1	2	3	16	13	9	14	7	****	7	6
11	5	5	3	5	6	6	6	15	13	10	14	10	6	7	3	1	3	3	5	4	10	42	****	50	10
12	38	27	39	25	30	27	36	55	66	58	52	26	19	20	22	18	18	15	10	6	6	5	****	6	27
13	3	3	4	3	3	3	2	5	3	3	4	4	3	4	4	4	3	2	4	3	3	3	****	3	3
14	2	4	1	1	1	1	1	1	1	2	1	3	3	1	1	1	1	4	1	0	0	1	****	1	1
15	1	0	0	1	1	1	1	3	4	2	1	1	3	4	2	2	2	2	2	4	3	4	****	7	2
16	5	3	2	1	2	2	2	2	3	3	2	1	4	3	2	1	1	1	2	3	3	1	****	3	2
17	1	0	0	0	0	0	0	0	1	3	1	2	1	1	0	1	1	2	2	5	4	2	****	4	1
18	2	1	1	0	1	2	2	2	4	5	1	1	1	2	1	1	1	1	3	3	1	3	****	1	2
19	1	1	0	1	0	1	2	0	1	2	2	0	0	1	1	1	1	1	0	0	0	1	****	2	1
20	1	1	0	5	1	2	3	4	1	3	0	0	0	0	0	1	1	0	0	0	1	2	****	3	1
21	0	0	1	1	0	1	0	2	2	2	1	5	2	2	2	2	2	1	1	0	1	0	****	1	1
22	1	0	0	1	1	1	2	1	0	0	0	2	3	2	0	1	1	1	0	2	1	1	****	1	1
23	0	2	2	1	2	0	0	0	0	1	1	0	0	0	1	2	1	0	0	1	3	3	****	3	1
24	2	3	3	2	1	3	2	2	0	0	0	1	1	0	1	0	2	2	2	3	4	3	****	2	2
25	1	3	3	2	3	3	5	2	1	1	1	1	1	2	6	8	8	6	7	6	6	7	****	6	4
26	3	3	4	1	1	1	2	4	1	1	1	1	1	1	1	0	0	1	0	0	0	0	****	1	1
27	0	0	0	1	4	4	2	1	2	2	1	0	0	0	0	0	0	0	1	0	0	0	****	2	1
28	3	3	1	1	2	2	2	3	5	4	2	<-----D----->			3	2	5	2	0	1	2	****	3	3	
29	3	5	5	4	2	2	2	3	6	3	3	2	3	3	1	3	8	9	7	6	6	7	****	7	4
30	7	6	5	10	9	6	11	18	5	7	9	11	12	20	16	10	7	4	5	4	3	2	****	5	8

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->			STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	
2	3	5	3	10	15	26	39	0	- 66	3	95	0	0	

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.  
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU  
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2010  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
2	0	0	0	0	0	0	0	1	6	3	4	0	0	0	5	15	0	1	10	24	12	6	****	11	4
3	3	4	4	0	0	0	0	0	1	0	0	3	1	0	2	0	0	0	0	0	0	0	****	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	****	3	0
5	3	0	0	0	0	0	0	3	2	0	0	2	0	0	0	0	0	0	0	0	0	0	****	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7	0	0	****	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
9	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	****	9	1
10	20	18	6	11	1	0	0	1	3	0	6	0	0	0	0	2	0	8	14	8	10	1	****	18	6
11	12	11	8	9	9	7	7	1	0	0	0	0	0	0	0	0	1	26	8	0	9	****	48	7	
12	51	33	45	38	39	39	43	48	55	57	43	8	0	0	0	0	0	0	0	0	0	0	****	0	22
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
26	0	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0	0	1	1	7	3	****	3	1	
27	0	1	5	1	9	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	1
28	0	0	0	0	0	0	0	0	0	0	0	<-----D----->	24	19	26	15	1	0	2	****	0	5			
29	4	10	15	10	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	****	1	2
30	2	5	1	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	1

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->						<-----RANGE----->				STD GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR			
2	0	2	0	3	9	25	43	0	- 57	8	95	0	0			

- NOTES:
1. FLAGS FOR INVALID DATA :
    - \*\*\*\* : DAILY ZERO/SPAN CHECK
    - D : DYNAMIC CALIBRATION
    - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
    - M : MAINTENANCE OR MACHINE SHUTDOWN
    - P : POWER FAILURE
  2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

## Appendix C Summary Results on Water Quality Monitoring

### LAMMA POWER STATION FGD WASTEWATER TREATMENT PLANT EFFLUENT DISCHARGE TO ASH LAGOON SUSPENDED SOLIDS AND PH

Period : April - June 2010

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
03/04/10	3*	16	15	16	8.1	8.0	8.0
10/04/10	5*	18	15	17	8.2	8.0	8.1
17/04/10	5*	20	14	17	8.1	8.0	8.0
24/04/10	5*	17	12	15	8.2	8.0	8.1
01/05/10	2*	15	14	15	8.2	8.2	8.2
08/05/10	5*	18	12	15	8.2	8.0	8.1
15/05/10	5*	16	12	14	8.2	8.0	8.1
22/05/10	3*	14	12	13	8.0	8.0	8.0
29/05/10	3*	18	15	16	8.2	8.1	8.2
05/06/10	6*	19	13	16	8.2	8.0	8.2
12/06/10	7	18	14	16	8.2	8.0	8.1
19/06/10	6*	14	12	13	8.2	8.0	8.2
26/06/10	5*	17	13	15	7.9	7.8	7.9

Remark :

\* - No sampling for the remaining day(s) of the week / no sampling due to no discharge

**LAMMA POWER STATION  
FGD WASTEWATER TREATMENT PLANT  
EFFLUENT DISCHARGE TO ASH LAGOON  
TRACE METAL, TOTAL PHOSPHORUS  
AND TOTAL NITROGEN ANALYSIS**

Period : April - June 2010

Sampling date		7/4/2010	4/5/2010	2/6/2010
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	3.5	<1	3.5
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	140	140	116
Cyanide,	mg/L	<0.01	<0.01	0.01

Remark:

According to the WPCO Ash Lagoon Discharge Licence, contents at exact levels of trace metals below 1/10 th of the WPCO Licence permitted limits will not be reported. When the concentration of a metal exceeds 1/10 th of the limit, the exact value of the metal concentration will be reported.

## Appendix D Summary of EMIS

<b>EM&amp;A Log Ref.</b>	<b>Mitigation Measures</b>	<b>Implementation Status</b>
	<b>GENERAL</b>	
A1	No other process, except the Wet Limestone-Gypsum process used in the FGD plants of the coal-fired Units L6, L7 and L8 within the Lamma Power Station, shall be used in the FGD plants for the projects unless otherwise agreed by EPD.	Complied
	<b>WATER QUALITY</b>	
B1	All wastewater arising from the operation of the projects shall be collected and directed to the existing wastewater treatment plant within the Lamma Power Station for treatment.	Complied
B2	The operational plant effluent from the FGD plants should be reused as much as possible in order to minimise discharge to the WWTP.	Complied
B3	Maintenance of the WWTP should be performed regularly to ensure the effluent from the WWTP would not exceed the current requirements stipulated in the WPCO licence for Ash Lagoon.	Complied
	<b>WASTE</b>	
C1	No gypsum or sludge arising from the operation of the projects shall be disposed of anywhere. All gypsum and sludge shall be collected and reused.	Complied
	<b>NOISE</b>	
D1	Equipments including the Absorber Recirculation Pump, Oxidation Air Blower, Booster Fan and Booster Fan Motor of the FGD plants shall be acoustically insulated and the Gas-Gas Heater (untreated side) of the FGD plants shall be provided with reinforced lagging to reduce the noise impact.	Complied