

香港電燈有限公司
The Hongkong Electric Co., Ltd.



**Lamma Power Station
Units L2, L4 & L5 Flue Gas Desulphurization
Plants Retrofit
Operational Phase
Quarterly Environmental Monitoring & Audit Report
April – June 2013**

香港電燈有限公司
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**

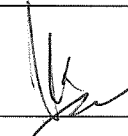
Report Title	Quarterly EM&A Report (April to June 2013)
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Certified by	 (Mr. IP Tat-Yan, Environmental Team Leader)

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EXECUTIVE SUMMARY

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 2013.

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	01/04/2013 00:00 to 15/04/2013 06:56	Defect Rectification
L2	20/04/2013 00:18 to 23/05/2013 20:30	Unit Overhaul
L4	01/04/2013 00:00 to 21/04/2013 21:18	Unit Overhaul
L4	22/04/2013 01:05 to 22/04/2013 07:03	Unit Overhaul
L5	22/04/2013 18:06 to 24/04/2013 08:39	Defect Rectification

Malfunction/Outage Records of Pollution Control Equipment

Major outages of the Pollution Control Equipment during the reporting period are listed below:

Equipment	Period	Cause	Actions Taken
L4 FGD	27/04/2013 12:02 to 15/05/2013 19:00	FGD plant was bypassed due to its Gas Gas heater sootblower failure.	EPD was informed by letter dated 16/05/2013.
L5 FGD	21/05/2013 21:36 to 22/05/2013 19:54	FGD plant was bypassed due to the operation of booster fan stalling protection	EPD was informed by letter dated 23/05/2013

For other minor outages, please refer to section 1.4 of the report.

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(9)	01/01/2013	31/12/2014	HK Electric	28/12/2012
WPCO discharge licence for Ash Lagoon	WT00011131-2011	15/12/2011	31/12/2016	HK Electric	15/12/2011

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

Environmental Complaints

No environmental concern against the operation of Lamma Power Station was received during the reporting period.

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

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 Desulfurization 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 Desulfurization 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 2013.

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 SO₂ 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 SO₂ 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	01/04/2013 00:00 to 15/04/2013 06:56	Defect Rectification
L2	20/04/2013 00:18 to 23/05/2013 20:30	Unit Overhaul
L4	01/04/2013 00:00 to 21/04/2013 21:18	Unit Overhaul
L4	22/04/2013 01:05 to 22/04/2013 07:03	Unit Overhaul
L5	22/04/2013 18:06 to 24/04/2013 08:39	Defect Rectification

1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L4 FGD	27/04/2013 12:02 to 15/05/2013 19:00	FGD plant was bypassed due to its Gas Gas heater sootblower failure.	EPD was informed by letter dated 16/05/2013
L4 FGD	25/05/2013 01:35 to 01:37	Routine damper exercise	EPD was informed on 29/05/2013
L4 FGD	29/05/2013 20:32 to 20:38	Single fan group operation for "A" fan group maintenance	EPD was informed on 03/06/2013
L4 FGD	01/06/2013 01:34 to 01:40	Routine damper exercise	EPD was informed on 04/06/2013

Equipment	Period	Cause	Actions Taken
L4 FGD	30/05/2013 00:50 to 01:21	Single fan group operation for "A" fan group maintenance	EPD was informed on 03/06/2013
L4 FGD	01/06/2013 18:39 to 19:00	Single fan group operation for "B" fan group maintenance	EPD was informed on 04/06/2013
L4 FGD	02/06/2013 00:18 to 00:40	Single fan group operation for "B" fan group maintenance	EPD was informed on 04/06/2013
L4 FGD	08/06/2013 02:50 to 02:52	Routine damper exercise	EPD was informed on 13/06/2013
L4 FGD	15/06/2013 02:09 to 02:11	Routine damper exercise	EPD was informed on 19/06/2013
L4 FGD	22/06/2013 02:13 to 02:22	Routine damper exercise	EPD was informed on 26/06/2013
L4 FGD	25/06/2013 20:03 to 20:13 26/06/2013 00:43 to 01:06	Single fan group operation for defect rectification	EPD was informed on 28/06/2013
L5 FGD	06/04/2013 01:38 to 01:40	Routine damper exercise	EPD was informed on 10/04/2013
L5 FGD	13/04/2013 03:16 to 03:18	Routine damper exercise	EPD was informed on 17/04/2013
L5 FGD	04/05/2013 02:06 to 02:16	Routine damper exercise	EPD was informed on 08/05/2013
L5 FGD	11/05/2013 02:28 to 02:40	Routine damper exercise	EPD was informed on 14/05/2013
L5 FGD	01/06/2013 01:29 to 01:31	Routine damper exercise	EPD was informed on 04/06/2013
L5 FGD	08/06/2013 02:56 to 03:07	Routine damper exercise	EPD was informed on 13/06/2013
L5 FGD	15/06/2013 01:26 to 01:29	Routine damper exercise	EPD was informed on 19/06/2013
L5 FGD	22/06/2013 02:29 to 02:33	Routine damper exercise	EPD was informed on 04/07/2013
L5 FGD	29/06/2013 02:31 to 02:33	Routine damper exercise	EPD was informed on 19/06/2013
L5 FGD	15/05/2013 11:33 to 16:35	FGD plant was bypassed due to the operation of booster fan stalling protection	EPD was informed by letter dated 16/05/2013

Equipment	Period	Cause	Actions Taken
L5 FGD	20/05/2013 11:31 to 19:50	FGD plant was bypassed due to the operation of booster fan stalling protection	EPD was informed by letter dated 23/05/2013
L5 FGD	21/05/2013 11:33 to 16:35	FGD plant was bypassed due to the operation of booster fan stalling protection	EPD was informed by letter dated 23/05/2013
L5 FGD	21/05/2013 21:36 to 22/05/2013 19:54	FGD plant was bypassed due to the operation of booster fan stalling protection	EPD was informed by letter dated 23/05/2013

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.

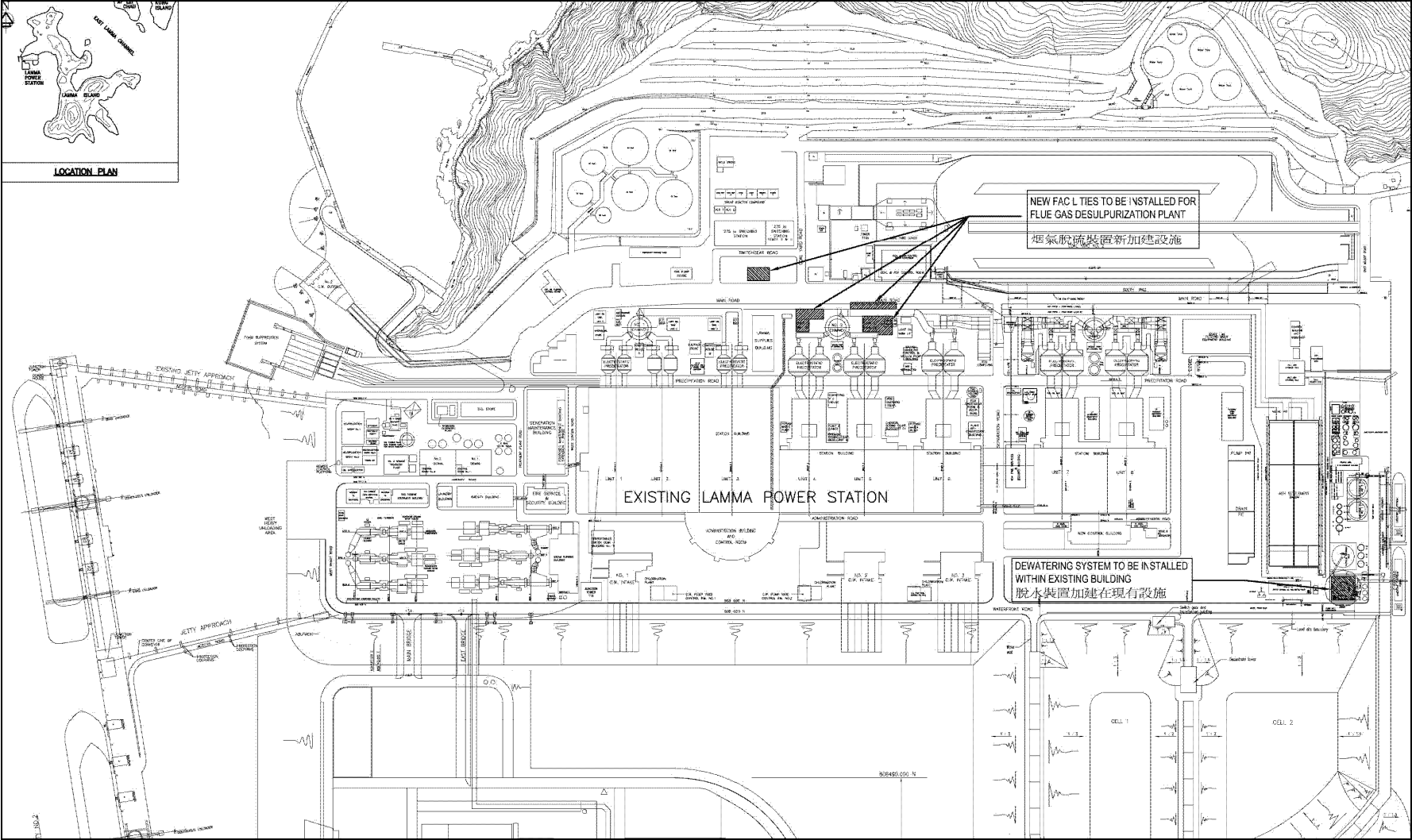


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

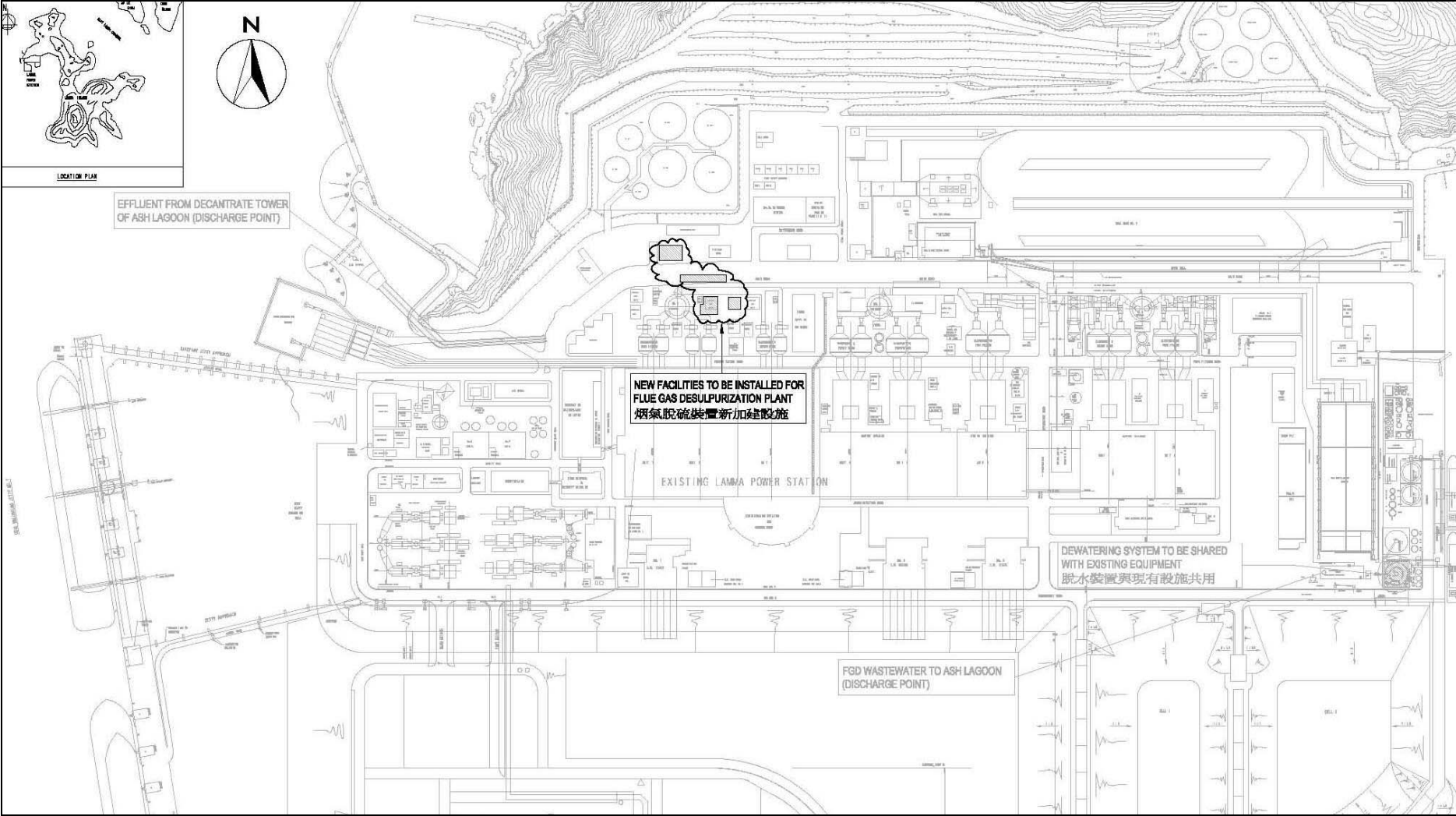


Figure 1.1b Location of New Facilities for L2 FGD Plant

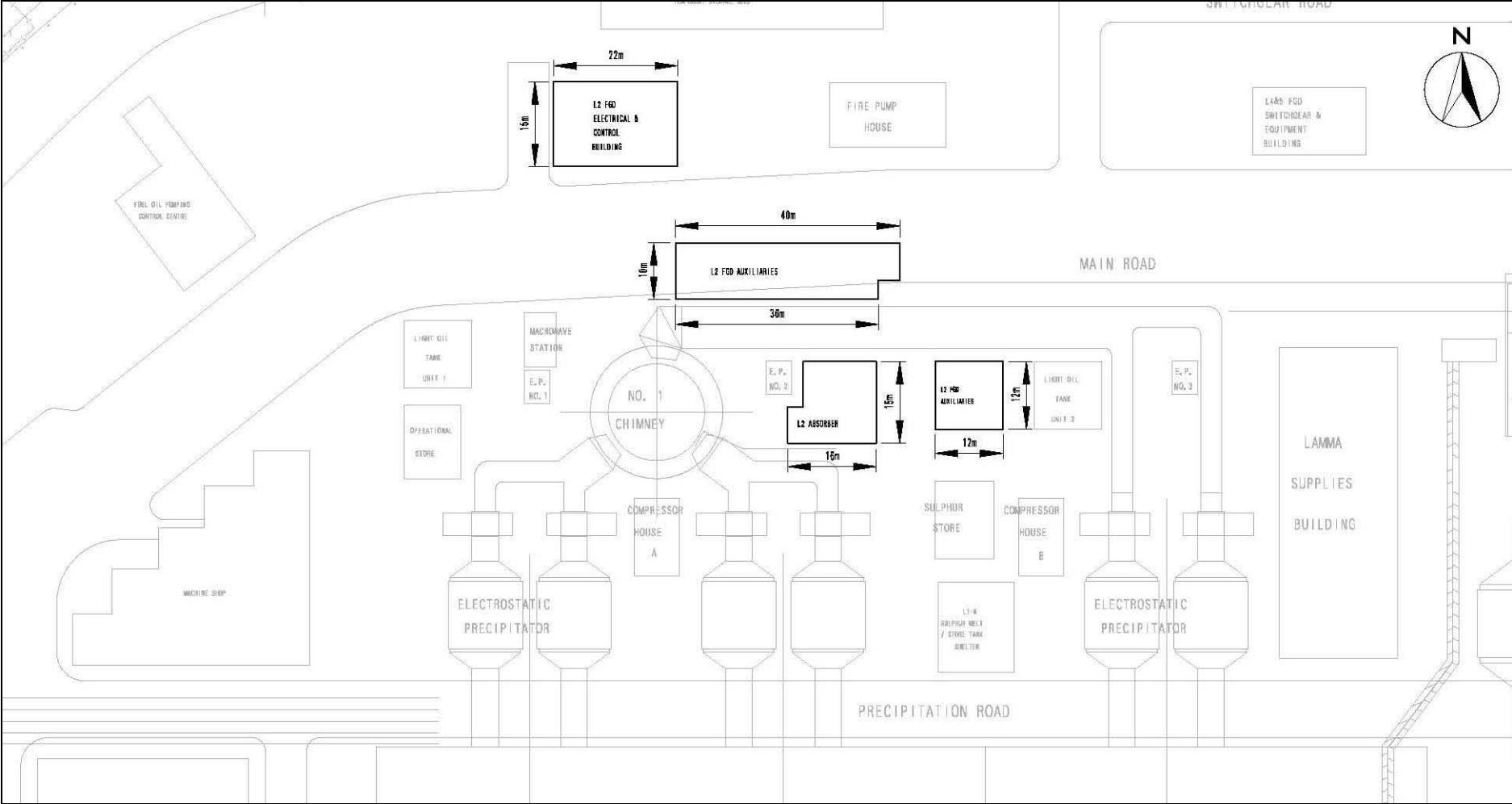


Figure 1.2b General Arrangement of L2 FGD Plant

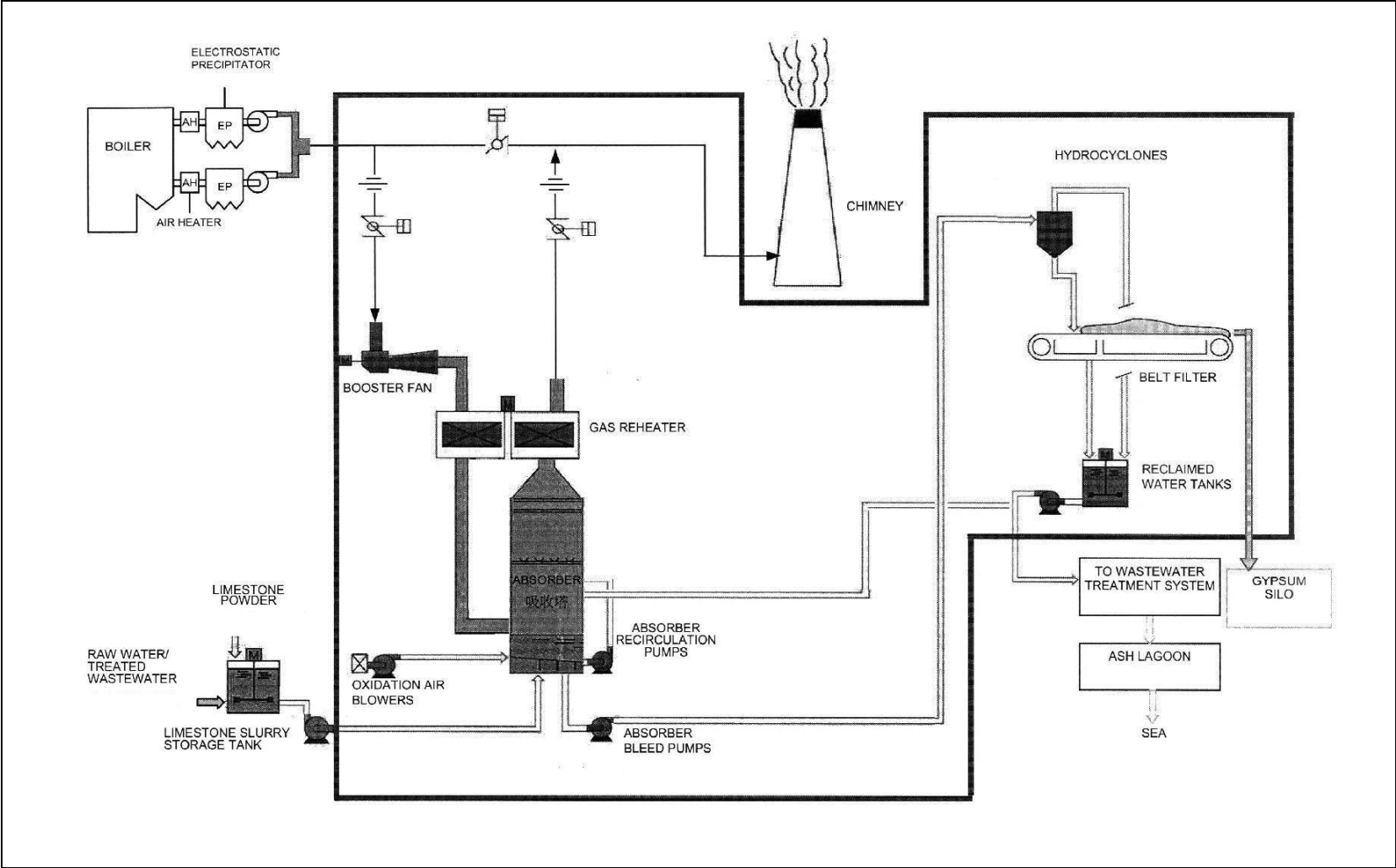


Figure 1.3 Schematic Diagram of the L4 & L5 FGD Plant

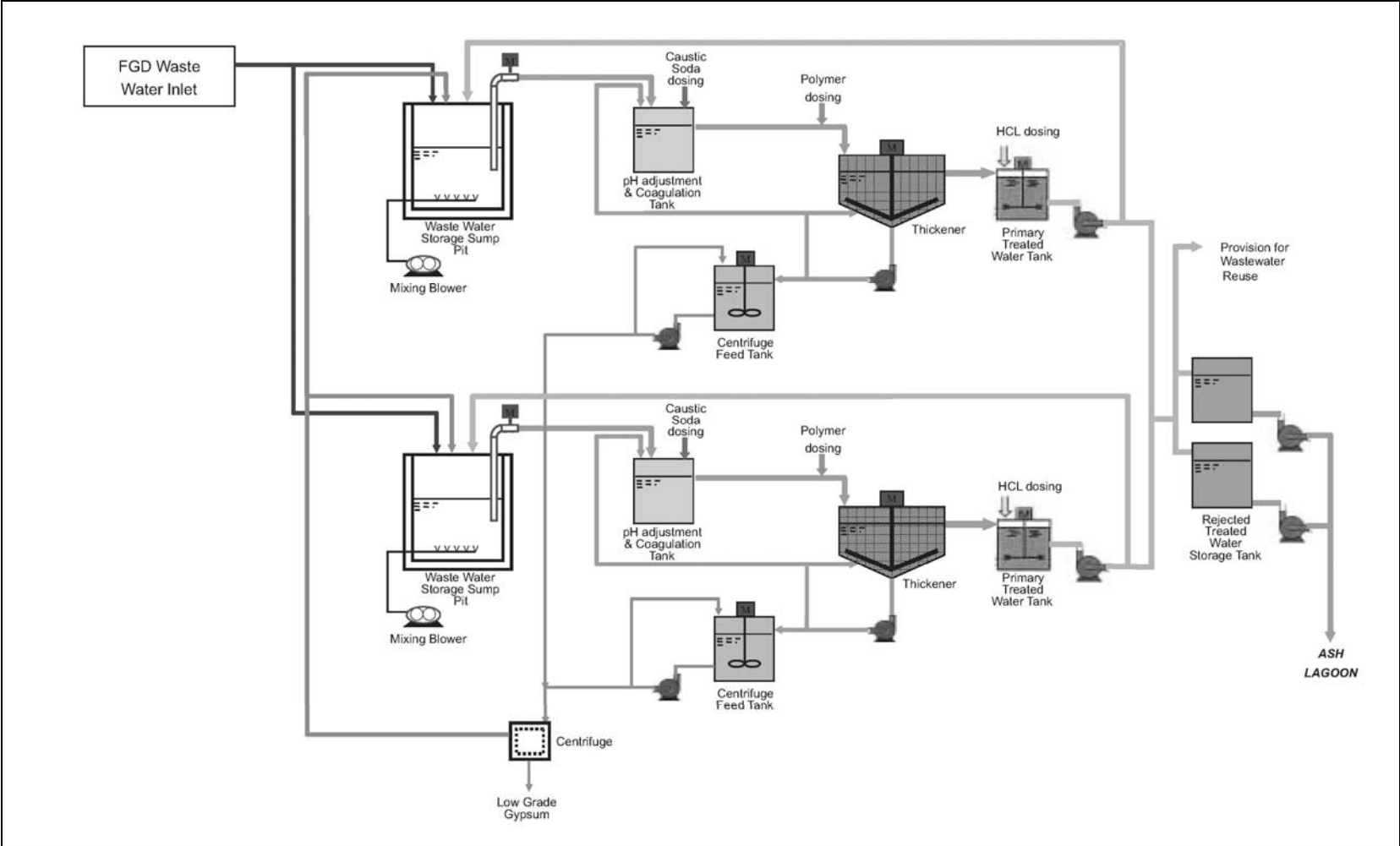


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

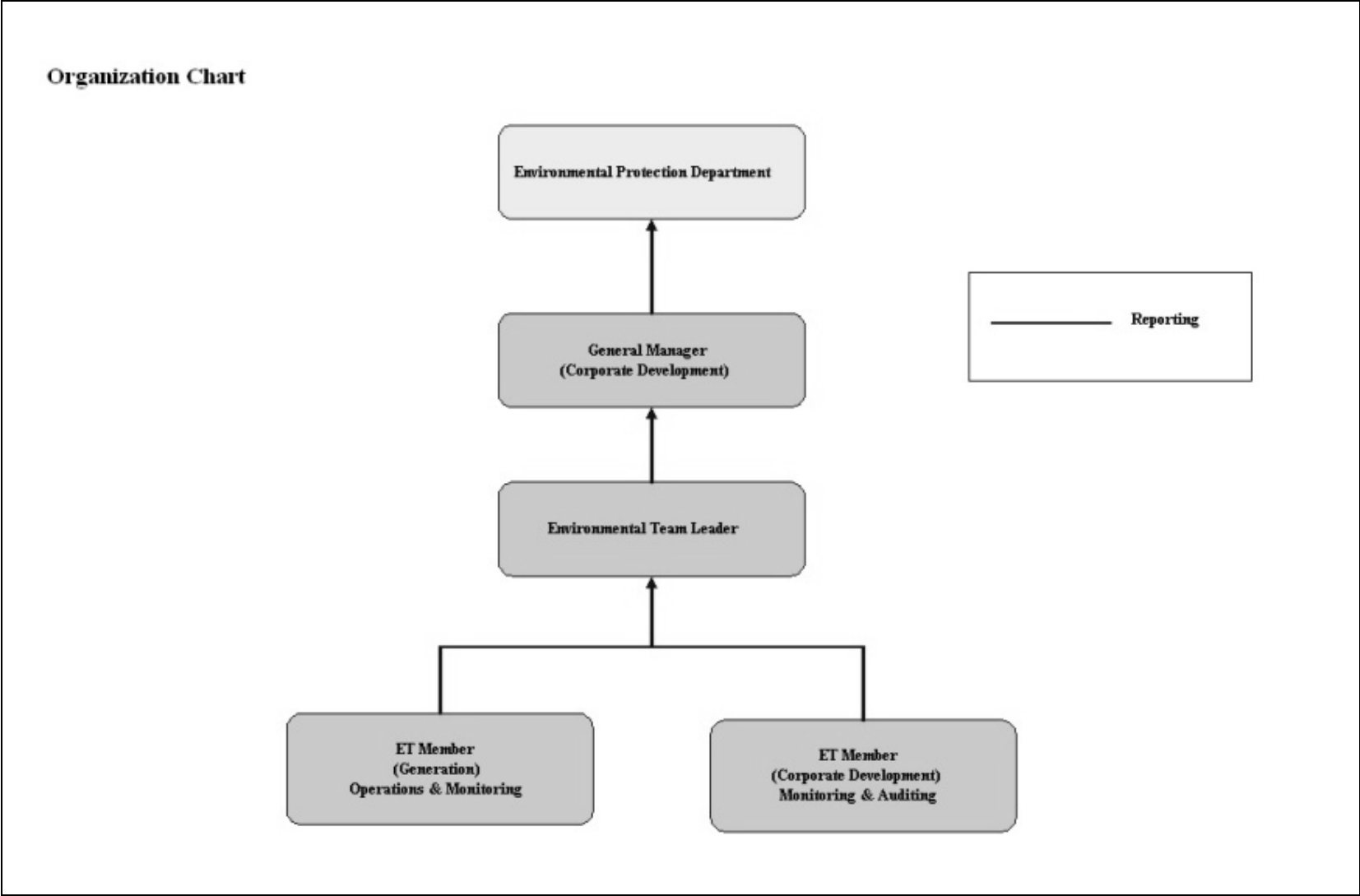


Figure 1.5 Organization Structure at Operational Phase of the Projects

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 ₂	Continuous
	NO _x expressed as NO ₂ (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 ₂	
	NO ₂	

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.	01/01/13-31/03/13	N.A.	0	
2	Continuous monitoring of opacity, NOx, SO2 and CO2 in the flue gas at the chimney stacks	01/01/13-31/03/13	0	0	
3	TSP monitoring at Lamma Power Station Boundary (ie East Gate and Reservoir).	01/01/13-31/03/13	0	0	
4	Ambient SO2 & NOx monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and	01/01/13-31/03/13	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	01/04/13-30/06/13	0	0	
2	Suspended Solids in WWTP Effluent	01/04/13-30/06/13	0	0	
3	Iron in WWTP Effluent	01/04/13-30/06/13	0	0	
4	Barium in WWTP Effluent	01/04/13-30/06/13	0	0	
5	Mercury in WWTP Effluent	01/04/13-30/06/13	0	0	
6	Cadmium in WWTP Effluent	01/04/13-30/06/13	0	0	
7	Cyanide in WWTP Effluent	01/04/13-30/06/13	0	0	
8	Total Phosphorus in WWTP Effluent	01/04/13-30/06/13	0	0	
9	Total Nitrogen in WWTP Effluent	01/04/13-30/06/13	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 2013	2,999.7 MT	109.7 MT
May 2013	3,313.9 MT	0 MT
June 2013	5,684.3 MT	0 MT

4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of June 2013 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(9)	01/01/2013	31/12/2014	Valid
WPCO discharge licence for Ash Lagoon	WT00011131-2011	15/12/2011	31/12/2016	Valid

4.4 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the EIA Report and EP are required to be implemented. A 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 no environmental concern against the operation of Lamma Power Station.

Table 4.4 Environmental Complaints / Enquiries Received

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

Table 4.5 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 plan for the coming three 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 2013. 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. No environmental concern against the operation of Lamma Power Station was received during the reporting period. 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	50 mg/Nm ³	-	50	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 ₂	continuous	200 mg/Nm ³ (1h)	190	200	
	NO _x expressed as NO ₂ (For L4 and L5 only)	continuous	615 mg/Nm ³ (1h)	585	615	
Fugitive dust (Coal, PFA, limestone, gypsum)	TSP	Once every six days.	260 (µg/m ³) (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 ₂	Continuous at existing ambient air monitoring stations	800 (µg/m ³) (1h)	-	800	ET to review data on post-hoc basis and check for possible power station contribution.
	NO ₂		300 (µg/m ³) (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	

Appendix B

Air Quality Monitoring Results

B.1 Ambient Total Suspended Particulate Monitoring at Lamma Power Station

Date: Second Quarter of 2013 (April - June)

DATE	TSP CONCENTRATION ($\mu\text{g}/\text{m}^3$)		WEATHER INFORMATION (from Hong Kong Observatory)		
	Reservoir	East Gate	Mean Wind Speed (km/hr)	Prevailing Wind Dir. ($^{\circ}$)	Mean R.H. (%)
01/04/2013	39	39	26.0	060	84
07/04/2013	92	69	29.8	020	66
13/04/2013	69	64	19.3	090	64
19/04/2013	21	21	14.7	230	93
25/04/2013	33	27	10.2	220	85
01/05/2013	62	61	30.6	100	86
07/05/2013	29	31	22.1	070	89
13/05/2013	30	31	13.2	050	88
19/05/2013	37	37	28.4	240	84
25/05/2013	16	18	17.4	140	96
31/05/2013	16	19	13.4	240	75
06/06/2013	20	19	10.0	070	90
12/06/2013	(1)	49	23.9	030	82
14/06/2013	15	-	52.4	070	94
18/06/2013	17	14	11.4	140	85
24/06/2013	42	41	28.6	200	88
30/06/2013	30	28	17.2	110	77

Remark: (1) Breakdown of High Volume Air Sampler

	TSP ($\mu\text{g}/\text{m}^3$)
Action Level	-
Limit Level	260

Equipment used: Reservoir & East Gate : High Volume Air Sampler

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

B.2.1 Monthly Summary of Stack NO_x and SO₂ for Unit L5

Date	Daily Maximum		
	SO ₂ concentration (mg/Nm ³) [#]	NO _x concentration (mg/Nm ³) [#]	Opacity (%)
1/4/2013	23	447	14
2/4/2013	44	437	15
3/4/2013	17	390	14
4/4/2013	9	403	14
5/4/2013	13	368	15
6/4/2013	7	424	13
7/4/2013	6	429	13
8/4/2013	11	378	14
9/4/2013	19	410	15
10/4/2013	26	412	14
11/4/2013	26	387	13
12/4/2013	49	451	13
13/4/2013	44	455	13
14/4/2013	48	459	13
15/4/2013	59	421	12
16/4/2013	53	414	13
17/4/2013	40	422	13
18/4/2013	61	372	13
19/4/2013	33	362	13
20/4/2013	37	372	12
21/4/2013	11	369	12
22/4/2013	11	359	13
23/4/2013	*	*	*
24/4/2013	2	412	15
25/4/2013	3	426	15
26/4/2013	2	422	14
27/4/2013	13	415	14
28/4/2013	15	422	15
29/4/2013	12	459	14
30/4/2013	19	329	15

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/5/2013	9	398	13
2/5/2013	8	349	14
3/5/2013	14	372	17
4/5/2013	16	374	13
5/5/2013	12	381	13
6/5/2013	16	415	13
7/5/2013	35	386	15
8/5/2013	38	365	14
9/5/2013	29	388	15
10/5/2013	32	407	16
11/5/2013	14	328	15
12/5/2013	9	394	15
13/5/2013	10	325	15
14/5/2013	11	378	15
15/5/2013	13	422	19
16/5/2013	7	360	15
17/5/2013	4	395	14
18/5/2013	29	382	14
19/5/2013	55	360	14
20/5/2013	67	409	17
21/5/2013	69	376	14
22/5/2013	63	382	15
23/5/2013	40	447	12
24/5/2013	18	446	14
25/5/2013	13	386	13
26/5/2013	37	384	12
27/5/2013	32	388	12
28/5/2013	40	376	15
29/5/2013	19	373	15
30/5/2013	20	377	14
31/5/2013	13	374	14

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/6/2013	12	403	15
2/6/2013	12	364	14
3/6/2013	15	360	16
4/6/2013	23	358	16
5/6/2013	34	408	15
6/6/2013	14	373	16
7/6/2013	92	340	15
8/6/2013	129	403	15
9/6/2013	103	406	14
10/6/2013	85	357	16
11/6/2013	78	334	15
12/6/2013	10	389	14
13/6/2013	58	376	15
14/6/2013	18	348	16
15/6/2013	38	424	16
16/6/2013	69	329	14
17/6/2013	68	414	18
18/6/2013	16	453	18
19/6/2013	8	376	14
20/6/2013	15	372	14
21/6/2013	37	342	15
22/6/2013	16	352	14
23/6/2013	7	334	14
24/6/2013	18	361	15
25/6/2013	24	408	15
26/6/2013	18	376	15
27/6/2013	35	375	18
28/6/2013	38	342	15
29/6/2013	58	381	15
30/6/2013	71	408	13

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L5 was not on load.

B.2.2 Monthly Summary of Stack NO_x and SO₂ for Unit L4

Date	Daily Maximum		
	SO ₂ concentration (mg/Nm ³) [#]	NO _x concentration (mg/Nm ³) [#]	Opacity (%)
1/4/2013	*	*	*
2/4/2013	*	*	*
3/4/2013	*	*	*
4/4/2013	*	*	*
5/4/2013	*	*	*
6/4/2013	*	*	*
7/4/2013	*	*	*
8/4/2013	*	*	*
9/4/2013	*	*	*
10/4/2013	*	*	*
11/4/2013	*	*	*
12/4/2013	*	*	*
13/4/2013	*	*	*
14/4/2013	*	*	*
15/4/2013	*	*	*
16/4/2013	*	*	*
17/4/2013	*	*	*
18/4/2013	*	*	*
19/4/2013	*	*	*
20/4/2013	*	*	*
21/4/2013	*	*	*
22/4/2013	24	420	8
23/4/2013	11	426	15
24/4/2013	15	418	10
25/4/2013	15	303	12
26/4/2013	4	352	9
27/4/2013	39	441	10
28/4/2013	*	*	*
29/4/2013	FGD Plant Outage	360	11
30/4/2013	FGD Plant Outage	393	13

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/5/2013	*	*	*
2/5/2013	*	*	*
3/5/2013	*	*	*
4/5/2013	*	*	*
5/5/2013	*	*	*
6/5/2013	FGD Plant Outage	384	10
7/5/2013	FGD Plant Outage	488	10
8/5/2013	FGD Plant Outage	399	10
9/5/2013	FGD Plant Outage	437	11
10/5/2013	FGD Plant Outage	429	12
11/5/2013	*	*	*
12/5/2013	*	*	*
13/5/2013	FGD Plant Outage	345	12
14/5/2013	FGD Plant Outage	412	13
15/5/2013	1	360	16
16/5/2013	9	369	13
17/5/2013	3	419	12
18/5/2013	11	411	15
19/5/2013	10	326	14
20/5/2013	18	359	13
21/5/2013	47	382	12
22/5/2013	46	446	15
23/5/2013	12	485	11
24/5/2013	47	483	12
25/5/2013	56	475	11
26/5/2013	49	461	10
27/5/2013	48	435	13
28/5/2013	54	378	12
29/5/2013	54	299	11
30/5/2013	46	319	11
31/5/2013	57	406	12

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/6/2013	17	437	16
2/6/2013	27	465	14
3/6/2013	39	429	19
4/6/2013	36	394	14
5/6/2013	24	423	11
6/6/2013	14	408	12
7/6/2013	109	409	14
8/6/2013	130	432	11
9/6/2013	74	439	11
10/6/2013	78	404	15
11/6/2013	71	443	12
12/6/2013	17	450	9
13/6/2013	34	432	11
14/6/2013	96	391	15
15/6/2013	124	373	17
16/6/2013	115	351	14
17/6/2013	69	408	16
18/6/2013	49	376	12
19/6/2013	23	399	11
20/6/2013	43	315	13
21/6/2013	27	336	11
22/6/2013	40	418	10
23/6/2013	13	422	9
24/6/2013	32	444	13
25/6/2013	55	367	13
26/6/2013	87	389	12
27/6/2013	113	419	16
28/6/2013	89	368	12
29/6/2013	56	433	16
30/6/2013	103	465	10

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L4 was not on load.

B.2.3 Monthly Summary of Stack SO₂ for Unit L2

Date	Daily Maximum	
	SO ₂ concentration (mg/Nm ³) [#]	Opacity (%)
1/4/2013	*	*
2/4/2013	*	*
3/4/2013	*	*
4/4/2013	*	*
5/4/2013	*	*
6/4/2013	*	*
7/4/2013	*	*
8/4/2013	*	*
9/4/2013	*	*
10/4/2013	*	*
11/4/2013	*	*
12/4/2013	*	*
13/4/2013	*	*
14/4/2013	*	*
15/4/2013	27	15
16/4/2013	28	16
17/4/2013	46	11
18/4/2013	45	10
19/4/2013	31	10
20/4/2013	*	*
21/4/2013	*	*
22/4/2013	*	*
23/4/2013	*	*
24/4/2013	*	*
25/4/2013	*	*
26/4/2013	*	*
27/4/2013	*	*
28/4/2013	*	*
29/4/2013	*	*
30/4/2013	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/5/2013	*	*
2/5/2013	*	*
3/5/2013	*	*
4/5/2013	*	*
5/5/2013	*	*
6/5/2013	*	*
7/5/2013	*	*
8/5/2013	*	*
9/5/2013	*	*
10/5/2013	*	*
11/5/2013	*	*
12/5/2013	*	*
13/5/2013	*	*
14/5/2013	*	*
15/5/2013	*	*
16/5/2013	*	*
17/5/2013	*	*
18/5/2013	*	*
19/5/2013	*	*
20/5/2013	*	*
21/5/2013	*	*
22/5/2013	*	*
23/5/2013	39	11
24/5/2013	35	21
25/5/2013	*	*
26/5/2013	*	*
27/5/2013	20	20
28/5/2013	31	18
29/5/2013	29	18
30/5/2013	24	18
31/5/2013	35	18

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/6/2013	24	19
2/6/2013	20	19
3/6/2013	54	21
4/6/2013	33	18
5/6/2013	35	17
6/6/2013	25	18
7/6/2013	98	19
8/6/2013	84	17
9/6/2013	25	18
10/6/2013	37	17
11/6/2013	23	17
12/6/2013	*	*
13/6/2013	11	16
14/6/2013	*	*
15/6/2013	*	*
16/6/2013	10	16
17/6/2013	*	*
18/6/2013	16	15
19/6/2013	16	16
20/6/2013	15	16
21/6/2013	57	15
22/6/2013	137	16
23/6/2013	47	15
24/6/2013	48	17
25/6/2013	116	17
26/6/2013	48	16
27/6/2013	43	17
28/6/2013	65	15
29/6/2013	72	14
30/6/2013	96	14

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L2 was not on load.

B.2.4 Summary of Annual Stack Particulate Sampling

Unit	Date	Results (mg/Nm ³)
L2	30/05/2013	7
L4	24/06/2013	6

Monitoring Equipment: APEX model XC-522-V (Manual stack sampling system)

B.3 Ambient SO₂ and NO₂ 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 : 2013
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	1	2	2	2	3	2	3	2	1	1	0	0	0	1	0	1
2	0	1	0	0	0	0	0	0	0	1	2	13	4	2	1	4	6	1	1	0	0	1	2	0	2
3	0	0	0	1	1	2	1	2	2	1	2	2	1	1	1	0	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	0	0	0	0	0	0	0
5	0	0	0	0	1	1	1	1	1	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2
6	2	2	1	11	8	10	5	5	5	5	6	10	8	6	6	5	4	3	3	3	3	4	7	2	5
7	2	2	2	3	3	3	4	4	5	5	4	4	4	4	4	4	5	5	6	6	5	5	5	4	4
8	4	4	4	4	4	4	5	8	10	10	13	12	13	11	9	8	12	9	9	6	9	10	6	16	8
9	8	5	2	2	1	0	0	0	1	1	8	1	0	0	0	1	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	1	1	1	2	2	1	2	2	2	1	1	1	1	2	2	2	3	1
11	5	6	9	10	9	10	10	12	10	10	8	4	1	3	1	1	2	1	2	1	1	0	0	0	5
12	0	0	8	9	0	0	1	2	1	9	8	7	8	3	3	3	2	1	2	2	3	4	4	7	4
13	8	8	8	8	8	7	7	10	9	9	9	8	8	14	14	10	10	9	9	9	8	8	8	8	9
14	10	10	10	6	11	17	43	38	34	49	58	94	75	85	53	55	66	81	59	52	45	47	45	51	46
15	39	21	21	23	25	26	19	24	27	26	36	64	23	14	17	24	22	20	18	14	12	10	9	6	23
16	7	7	12	9	11	8	8	5	2	3	3	1	2	2	3	3	4	3	2	2	1	1	8	1	5
17	1	2	1	1	1	3	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0	1
18	0	0	1	1	0	0	0	1	0	1	3	0	0	0	1	1	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	1	2	8	7	6	5	1	1	2	5	3	2	2	1	1	0	0	1	2
20	0	0	0	0	0	1	0	0	1	5	17	15	8	11	8	5	2	2	2	1	1	1	1	1	3
21	1	0	0	3	3	1	1	2	2	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
22	0	0	0	0	0	0	0	0	0	0	0	1	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	1	2	2	1	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	3	3	4	2	1	5	4	6	4	2	1	2	1	13	3	2
25	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	5	2	3	2	0	2	0	0	8	1
26	18	10	6	2	1	0	0	0	0	1	M	M	1	0	0	1	3	4	5	6	6	5	4	4	4
27	5	7	10	10	10	7	9	10	12	11	11	11	9	7	6	4	3	2	1	1	1	2	2	1	6
28	2	1	1	0	1	1	0	0	0	1	0	1	1	2	2	2	2	1	1	0	0	0	0	0	1
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	4	2	2	2	1	0	2	2	4	4	1	3	0	7	5	4	9	10	12	3

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
3	1	5		1	10	17	45	57	0	-	94	0	-	46	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
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 : 2013
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	7	6	4	3	0	0	0	2	6	9	14	14	29	24	38	43	49	59	21	27	2	56	4	18
2	2	28	11	0	0	0	5	9	14	53	72	85	78	77	63	70	89	57	44	3	8	15	5	0	33
3	0	0	0	0	0	0	0	2	12	36	36	39	24	31	44	39	34	32	30	26	27	13	16	21	19
4	15	11	10	12	9	9	10	16	15	26	27	23	37	29	23	18	26	21	22	20	12	11	11	8	18
5	8	5	5	4	3	3	4	6	7	13	14	9	23	28	22	9	5	8	6	11	11	14	16	9	10
6	10	9	14	6	22	32	21	28	35	34	25	49	48	38	41	40	35	31	38	42	37	45	46	51	32
7	27	18	21	26	19	20	25	37	57	70	48	26	19	19	16	14	20	19	16	14	12	9	11	7	24
8	8	6	5	4	4	5	9	21	41	48	51	44	37	54	61	43	49	55	43	37	32	47	28	46	32
9	31	15	10	6	4	7	14	17	36	82	100	44	15	33	41	50	45	41	30	29	19	21	15	18	30
10	18	M	19	11	7	6	14	28	40	42	54	56	46	56	50	52	59	63	61	53	38	11	22	16	36
11	14	11	6	6	4	6	10	31	46	50	52	75	53	79	78	78	96	72	80	73	47	37	32	15	44
12	25	17	38	34	7	8	16	38	66	83	75	66	65	59	60	49	40	42	51	30	19	26	25	24	40
13	17	11	14	10	20	14	8	30	46	51	51	51	51	61	79	80	85	88	122	115	50	47	65	17	49
14	21	16	13	5	4	23	79	70	59	67	77	129	107	98	62	67	77	89	71	77	49	40	44	48	58
15	34	18	18	21	21	23	16	22	88	123	164	136	48	48	32	28	27	39	36	34	31	27	20	26	45
16	20	13	19	14	16	11	60	40	38	47	54	38	49	39	36	27	24	23	32	21	16	16	24	2	28
17	0	0	0	1	0	20	7	9	14	12	18	14	12	17	21	26	16	19	16	13	17	24	21	10	13
18	27	42	43	36	9	7	7	15	11	18	24	12	10	11	18	24	18	15	13	15	12	9	6	12	17
19	12	13	13	12	13	12	31	27	31	42	M	M	13	9	11	22	19	13	16	39	53	27	19	8	21
20	1	0	1	0	2	0	0	0	1	25	40	41	45	41	26	30	15	24	24	21	10	2	5	15	15
21	19	1	3	28	25	20	11	14	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6
22	4	4	2	2	2	2	3	11	20	25	31	26	17	19	22	28	22	20	10	9	13	14	10	12	14
23	10	9	6	7	6	5	8	14	39	46	45	21	15	19	9	M	M	22	19	17	21	26	16	6	18
24	1	M	0	0	0	1	8	22	25	38	29	26	17	15	38	23	31	22	21	29	33	24	63	30	22
25	10	14	4	0	0	0	0	5	15	16	20	11	9	9	10	28	17	23	26	13	21	22	25	89	16
26	89	69	54	47	19	11	7	29	31	33	M	M	19	25	26	38	49	39	40	26	27	24	23	18	34
27	17	13	12	13	11	9	12	19	33	45	47	37	33	43	54	61	58	45	26	19	15	14	13	10	27
28	11	8	7	6	6	6	8	9	10	15	11	11	10	12	13	15	18	9	13	10	8	10	9	6	10
29	6	2	1	0	0	0	0	2	6	12	16	13	10	18	16	19	16	22	16	10	11	9	13	9	9
30	6	6	4	4	3	15	13	15	18	13	10	14	10	19	20	13	25	12	51	51	38	59	50	36	21

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
19	19	25		19	54	72	88	100	0	-	164	6	-	58	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
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 : 2013
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	19	19	21	15	14	17	15	15	8	4	2	1	1	0	0	0	0	0	0	1	2	4	5	8
2	6	5	5	3	3	3	3	4	3	3	3	2	2	2	2	3	2	2	1	1	0	0	0	3	3
3	3	5	3	3	4	4	4	7	9	9	9	9	8	5	2	2	1	1	2	2	1	1	0	1	4
4	3	3	4	5	5	6	6	5	4	5	5	5	5	4	4	3	4	6	3	3	1	1	1	1	4
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	0	0	0	1
6	1	0	1	0	0	0	0	0	0	0	1	0	2	2	1	0	1	2	3	4	4	4	4	0	1
7	0	0	0	0	0	0	1	1	0	1	1	0	1	3	3	1	1	1	0	0	0	1	1	1	1
8	1	0	1	1	0	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	1	0	0	0	1
9	0	0	0	0	0	0	0	0	0	0	1	1	2	14	27	5	5	2	0	0	0	0	0	0	2
10	0	0	0	2	0	0	0	0	0	0	1	1	1	4	4	0	7	7	8	45	12	3	9	0	4
11	1	0	1	2	1	1	32	13	18	30	37	43	52	40	46	40	28	23	12	14	10	4	4	0	19
12	6	5	12	20	2	2	1	2	3	2	1	0	0	0	1	0	2	0	1	0	0	0	0	1	3
13	0	0	0	0	0	1	0	0	4	17	15	5	3	3	2	2	3	3	3	2	1	1	1	1	3
14	1	0	2	0	0	1	5	1	3	1	1	1	1	1	1	2	1	1	1	1	0	1	1	0	1
15	0	0	0	0	1	1	3	2	3	4	4	2	2	1	1	2	2	3	3	3	3	4	2	4	2
16	4	3	2	2	2	1	1	2	2	2	2	3	1	1	3	3	3	3	6	5	3	1	0	1	2
17	1	2	0	0	1	4	5	4	5	3	1	2	3	2	4	2	1	1	2	1	1	1	0	2	2
18	0	0	0	0	0	3	0	1	1	1	0	0	1	0	0	0	0	1	2	3	2	2	1	1	1
19	1	0	0	0	0	1	1	1	1	1	2	1	0	1	2	1	2	1	1	2	3	4	0	0	1
20	0	0	0	0	0	2	1	1	3	1	0	1	4	18	38	7	37	30	17	1	1	2	2	1	7
21	0	0	0	0	3	1	1	0	1	2	10	3	0	2	0	1	11	74	28	1	1	1	1	1	6
22	2	2	2	1	1	0	1	3	0	0	0	3	0	0	0	2	2	0	16	9	4	3	0	1	2
23	0	1	2	2	1	1	1	0	0	0	0	5	1	1	2	12	2	3	2	0	3	0	0	4	2
24	7	1	4	1	2	1	0	0	0	0	8	38	22	19	13	9	8	15	14	14	23	11	9	3	9
25	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
26	0	0	0	0	0	1	1	4	3	4	3	2	2	2	1	3	2	2	2	3	1	2	2	1	2
27	1	0	1	1	1	2	2	3	2	1	2	2	1	1	1	1	1	2	2	2	2	2	3	2	2
28	2	2	1	0	0	0	1	1	2	3	1	2	3	2	2	1	1	1	1	1	1	0	1	1	1
29	2	3	5	2	2	1	0	2	5	5	2	2	2	3	4	6	4	3	3	3	2	1	1	1	3
30	2	1	1	2	1	3	2	1	3	6	9	9	4	5	4	3	6	5	4	5	4	3	3	2	4
31	2	3	3	3	3	4	3	5	2	3	5	4	2	5	10	9	8	5	9	4	2	4	2	4	4

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
2	1	3		1	7	14	28	38	0	-	74	0	-	19	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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
MONTH: MAY

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2013
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	49	44	45	51	43	42	48	60	62	49	36	17	10	12	14	13	12	14	15	10	9	9	9	9	28
2	9	6	5	5	4	6	11	26	34	45	35	26	24	26	40	57	40	42	24	25	23	23	18	12	24
3	15	11	8	5	5	6	9	18	34	49	48	40	30	32	46	48	46	42	30	44	38	22	21	17	28
4	14	11	11	10	9	8	10	14	32	47	54	44	35	42	56	79	111	117	90	56	31	24	22	20	39
5	17	18	14	11	9	10	14	19	23	30	31	30	28	28	25	24	25	37	39	39	34	26	13	16	23
6	14	10	10	9	9	10	10	16	26	32	44	30	49	66	66	66	62	65	42	36	32	45	38	16	33
7	14	10	6	6	5	7	8	8	18	26	36	28	14	21	35	29	21	22	13	11	16	16	11	18	17
8	9	M	4	3	3	3	7	11	17	23	22	17	10	18	21	23	22	17	12	11	7	3	5	7	12
9	11	5	2	1	2	2	4	11	24	19	19	23	19	26	28	26	32	35	24	20	28	17	9	7	16
10	8	7	5	16	4	2	8	11	23	18	28	25	22	22	29	19	26	32	30	84	45	22	47	4	22
11	3	2	3	6	5	5	50	14	42	64	69	67	70	70	65	71	79	80	69	59	39	36	33	6	42
12	43	48	91	119	27	8	10	19	21	24	25	17	8	13	36	37	43	56	71	89	77	32	13	11	39
13	11	10	12	7	10	6	12	24	40	66	57	34	32	31	24	27	28	30	38	31	20	19	14	14	25
14	10	5	6	2	1	2	19	14	19	20	21	22	22	24	23	28	29	19	14	20	14	14	9	10	15
15	7	3	3	4	6	4	13	13	17	21	23	17	16	10	16	16	15	18	19	17	19	17	11	13	13
16	12	10	5	4	5	3	7	10	20	23	18	31	14	16	31	23	28	58	55	55	43	10	6	11	21
17	35	53	2	1	4	19	32	30	49	52	39	31	49	41	55	35	40	25	42	31	17	28	57	20	33
18	6	2	10	16	4	33	26	26	21	20	12	12	12	9	9	8	13	14	26	27	24	32	30	18	17
19	10	10	4	2	3	7	5	12	9	10	11	15	11	11	13	10	24	16	23	26	16	20	10	6	12
20	6	2	6	6	6	15	17	22	24	16	13	18	18	25	42	17	30	24	19	10	17	29	17	19	17
21	9	3	2	6	25	38	25	24	21	30	34	16	18	34	16	35	53	54	49	23	18	18	17	18	24
22	14	M	10	14	23	8	23	59	46	9	12	22	17	17	20	20	16	33	54	39	31	23	20	48	25
23	22	32	23	8	9	36	27	29	30	30	30	38	31	29	24	34	28	25	25	16	55	42	9	48	28
24	26	8	32	8	18	4	7	12	15	17	26	58	47	47	34	36	34	55	45	50	77	64	44	17	33
25	15	9	8	6	4	7	6	13	29	50	35	13	38	52	34	38	32	17	19	24	12	5	8	15	20
26	10	4	5	4	5	7	8	15	12	20	19	12	15	15	11	13	11	13	15	17	10	11	8	5	11
27	5	2	6	10	11	22	8	11	10	11	12	15	9	11	9	11	10	27	30	19	19	16	11	9	13
28	20	25	12	2	1	7	29	26	22	24	20	15	16	16	20	16	13	16	15	17	15	14	12	9	16
29	8	7	11	4	2	2	1	11	21	21	10	17	22	14	19	23	17	13	17	17	12	10	11	13	13
30	11	7	6	3	3	17	18	9	18	20	19	16	11	11	17	15	15	12	17	29	22	23	24	16	15
31	15	19	7	12	6	5	6	11	6	10	15	13	8	9	35	29	25	15	20	30	21	19	19	19	16

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
17	18	22	18	46	56	70	80	1	-	119	11	-	42	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	6	2	1	1	2	2	2	1	2	2	3	3	3	5	3	4	4	4	5	2	1	3
2	0	1	1	1	1	1	7	4	5	2	2	1	1	1	1	2	2	1	3	5	3	1	2	1	2
3	1	1	1	0	0	4	4	2	5	8	8	6	18	6	5	6	3	5	3	2	3	2	3	3	4
4	4	2	2	2	0	0	1	3	7	2	2	M	M	2	M	M	2	8	7	5	0	0	4	0	3
5	0	0	0	1	2	3	1	1	2	7	1	0	0	0	1	1	1	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	1	3	1	1	0	0	0	0	0	0	0	0	1	0	0	2	1	0
7	2	2	5	4	2	6	2	2	2	1	1	2	12	10	6	4	8	1	1	2	1	2	3	4	4
8	2	1	4	1	0	0	1	3	4	6	2	2	6	11	3	1	2	1	1	3	4	4	2	0	3
9	1	1	3	1	2	1	1	0	0	1	1	1	2	4	1	5	1	2	2	0	0	1	0	1	1
10	1	1	3	2	2	2	1	0	0	3	2	2	4	0	0	0	0	0	1	2	2	2	9	9	2
11	3	16	1	1	0	0	0	0	1	1	1	8	3	3	0	0	1	3	2	2	1	0	0	0	2
12	0	1	1	0	0	1	1	1	5	2	1	1	2	2	3	3	2	2	3	5	2	1	0	1	2
13	1	1	1	1	1	0	1	2	2	2	1	2	2	2	1	2	4	2	1	1	0	1	0	0	1
14	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
15	1	1	0	0	1	0	0	0	0	1	1	0	0	0	1	0	1	0	1	1	0	1	0	0	0
16	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	1	0	1	1	0
17	1	0	0	1	0	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1
18	1	1	0	0	0	0	0	0	1	1	2	2	3	6	3	4	3	3	3	2	1	2	1	2	2
19	2	1	4	2	2	7	2	0	0	0	3	3	6	4	7	6	7	10	6	10	10	8	8	6	5
20	3	2	3	2	1	2	1	2	7	6	8	6	8	8	7	7	9	11	11	11	6	4	2	3	5
21	2	1	2	1	1	1	0	0	1	2	2	1	1	1	2	1	0	1	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	1	3	2	1	1	1	1	2	5	1	2	2	2	2	3	3	2	1
24	2	2	2	1	1	2	2	1	2	2	2	2	3	2	3	3	2	2	2	1	1	1	1	1	2
25	1	1	1	0	0	0	3	2	3	2	5	2	1	0	0	0	0	0	2	3	3	3	2	0	1
26	0	1	1	0	1	2	2	2	2	3	2	1	4	1	T	T	T	T	T	T	T	T	T	T	T
27	T	T	T	T	T	T	T	T	T	T	5	6	5	2	2	3	1	3	1	1	0	1	0	1	
28	0	0	0	0	1	0	1	0	2	2	1	1	2	0	5	4	5	1	1	1	1	2	1	1	1
29	1	2	2	1	2	2	4	3	4	3	4	3	3	4	3	4	2	1	4	6	8	6	5	2	3
30	5	1	3	6	3	6	4	9	9	9	5	4	3	1	1	0	0	0	1	1	2	3	2	3	3

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
2	1	2	1	5	7	9	10	0	-	18	0	-	5	2	97	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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
MONTH: JUNE

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2013
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	15	15	20	20	9	6	6	9	6	6	9	12	14	15	14	23	18	21	28	27	30	30	27	10	16
2	5	6	4	4	4	4	16	12	10	9	10	9	8	7	7	8	12	12	39	38	15	18	17	6	12
3	4	4	4	2	2	8	13	11	10	14	22	12	28	21	21	25	19	21	22	22	27	15	15	23	15
4	32	21	15	19	5	12	24	34	35	30	22	M	M	17	M	M	33	33	36	31	14	4	35	6	23
5	4	5	4	7	8	11	15	16	21	29	24	18	21	17	25	39	33	42	20	14	10	12	7	8	17
6	5	4	2	3	3	5	9	28	56	M	43	27	22	23	18	25	18	22	24	15	28	26	19	15	19
7	17	14	20	17	10	15	12	17	17	18	15	13	23	25	19	13	18	14	18	20	19	19	18	17	17
8	10	5	13	5	3	3	7	13	18	19	9	13	12	21	14	13	14	12	17	21	27	33	21	13	14
9	12	16	21	9	8	6	6	7	7	10	9	9	14	33	15	33	25	21	35	22	17	21	17	16	16
10	21	24	44	19	22	17	18	10	13	20	19	13	17	11	11	13	15	24	32	32	36	24	58	71	24
11	60	57	30	22	17	19	24	42	44	47	46	63	56	79	43	72	91	87	82	77	68	63	47	56	54
12	45	39	38	19	18	18	18	29	39	52	46	50	63	59	50	63	58	63	68	73	62	56	59	56	48
13	38	20	14	12	10	13	17	36	54	63	51	52	44	43	47	50	57	59	55	49	50	34	33	26	39
14	20	14	8	6	5	8	11	22	41	38	34	48	50	53	53	35	22	14	11	11	12	8	8	6	22
15	6	5	3	2	3	3	2	6	27	27	41	44	24	32	29	20	22	15	12	5	4	4	3	5	14
16	5	3	2	2	2	3	2	2	2	3	4	6	4	4	3	4	5	5	5	7	6	5	6	6	4
17	6	2	3	4	3	4	4	6	18	26	24	21	15	24	33	23	27	22	12	7	10	7	7	8	13
18	8	7	5	3	4	4	6	6	18	21	15	17	18	18	20	24	24	25	28	27	27	15	13	20	16
19	16	M	14	10	9	26	16	7	8	7	12	16	18	13	26	26	28	51	48	75	72	58	34	27	27
20	29	17	12	10	6	5	7	10	20	22	26	21	18	20	25	48	47	42	53	54	29	27	9	10	24
21	5	8	13	8	7	7	7	9	21	35	31	28	26	17	20	13	13	22	16	15	9	8	5	5	15
22	4	3	2	2	3	3	4	5	13	22	22	16	15	20	24	22	23	19	6	4	3	3	3	8	10
23	4	3	5	5	3	6	8	12	16	18	17	15	16	13	9	15	10	20	18	18	16	18	17	13	12
24	10	6	9	6	5	11	16	14	18	18	23	24	26	18	23	23	23	14	13	20	12	15	12	8	15
25	6	5	3	3	4	11	38	34	29	31	39	18	10	10	11	14	11	14	22	37	41	38	20	7	19
26	9	5	4	4	18	37	35	32	21	36	30	14	27	14	T	T	T	T	T	T	T	T	T	T	T
27	T	T	T	T	T	T	T	T	T	T	28	32	32	19	18	19	8	22	17	17	17	16	11	9	
28	7	2	2	2	5	5	7	7	15	12	12	13	20	11	28	25	29	22	15	15	13	17	13	13	13
29	8	8	8	5	7	7	17	17	17	18	20	21	19	21	23	30	23	22	30	34	41	37	35	12	20
30	13	5	11	16	9	15	12	19	20	19	18	26	8	8	7	2	5	8	8	8	5	10	6	9	11

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	STN GEOM	PERCENT	ABOVE OBJECTIVE					
14	16	20	16	41	54	63	72	2	-	91	4	-	54	2	96	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	1	1	0	0
2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	7	12	13	4	0	0	0	0	0	0	2
3	0	0	0	1	2	3	1	1	2	3	0	0	1	0	1	0	0	1	0	2	3	2	2	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	2	7		11	2	2	2	0	0	0	5	2	17	5	0	2
6	0	0	20	25	14	7	0	0	1	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	3
7	0	0	0	0	1	0	0	0	0	0	1	1	1	1	2	2	3	4	4	2	3	2	3	0	1
8	0	1	1	0	1	1	1	2	4	6	6	7	6	6	5	5	5	4	4	2	2	2	3	4	3
9	7	6	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
11	6	6	8	7	6	8	8	10	8	8	5	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5	0
13	7	6	5	6	6	5	5	6	6	5	7	5	4	4	5	7	6	8	7	8	8	5	6	9	6
14	8	7	9	13	8	8	18	33	31	30	61	71	107	91	78	42	49	64	71	69	73	61	61	80	48
15	84	63	60	61	49	43	35	29	39	31	23	25	26	28	30	22	18	21	17	12	12	19	21	11	32
16	8	5	11	7	6	9	12	5	4	5	4	5	5	4	4	4	6	8	9	10	10	4	6	3	6
17	6	12	17	17	29	18	6	4	21	24	16	18	11	11	7	12	8	13	10	7	13	7	3	5	12
18	2	10	9	3	11	17	18	10	12	14	14	8	13	1	7	7	12	11	15	10	18	8	6	11	10
19	13	20	15	25	26	17	9	12	14	3	0	1	11	27	19	30	20	6	7	1	0	0	0	0	12
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	0
21	16	5	1	1	0	6	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	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	0
24	0	0	0	0	0	0	0	35	181	43	36	3	2	7	2	0	18	12	20	15	53	56	20	24	22
25	10	5	8	12	0	3	5	21	1	4	15	15	30	30	17	11	4	6	18	1	0	0	1	0	9
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	2	4	2	2	0	1
27	1	5	7	6	3	3	3	5	8	7	7	9	6	4	1	0	0	0	0	0	0	0	0	0	3
28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	1	1	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
30	0	1	0	1	2	2	5	16	5	9	6	16	7	12	15	0	0	6	10	5	6	8	7	10	6

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
7	0	6		0	17	29	61	71	0	-	181	0	-	48	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : NITROGEN DIOXIDE

MONTH:APRIL

YEAR : 2013
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	6	6	7	6	6	7	8	9	9	12	10	13	10	11	12	16	13	14	10	6	19	13	8	10
2	4	5	9	5	6	5	7	7	16	21	29	37	29	40	54	80	97	88	26	12	15	16	14	7	26
3	4	5	7	7	7	7	8	12	11	12	10	12	11	12	10	11	11	15	14	14	14	11	11	10	10
4	8	7	9	6	6	7	8	11	9	10	12	11	11	11	10	10	14	14	15	12	8	9	9	8	10
5	6	7	8	6	5	6	10	13	14	18	21	26	21	11	11	11	11	14	14	30	24	39	25	21	16
6	20	9	57	48	46	39	23	18	40	32	33	31	32	25	20	19	22	21	18	21	18	18	17	20	27
7	21	16	13	12	15	11	8	11	23	17	10	16	16	13	12	14	14	16	15	10	8	10	9	8	13
8	8	7	8	7	7	8	10	15	14	14	19	18	16	14	17	18	18	22	17	14	12	11	16	13	13
9	17	14	12	11	22	11	9	15	17	15	26	51	11	15	14	18	10	9	10	8	7	11	13	9	15
10	12	M	13	8	6	7	10	15	13	13	16	18	26	26	27	32	27	28	27	19	17	17	15	10	17
11	12	9	10	9	9	9	12	18	16	14	12	22	19	18	23	26	34	31	24	16	15	13	8	6	16
12	7	8	7	7	7	6	6	27	24	21	21	31	19	22	25	20	16	10	11	8	11	8	9	11	14
13	12	10	8	9	11	10	16	22	27	28	27	19	21	21	20	24	27	18	16	14	18	13	14	18	18
14	21	14	19	19	24	31	84	109	96	96	145	159	193	148	122	70	92	88	91	75	75	78	76	71	83
15	81	45	44	47	40	33	77	87	70	55	39	40	32	31	35	39	34	42	41	40	27	20	19	10	43
16	5	4	6	5	4	4	10	32	33	39	33	30	21	17	14	15	18	24	27	25	32	15	14	10	18
17	11	14	18	17	31	25	12	14	25	26	24	23	19	21	13	22	24	24	25	21	21	20	11	15	20
18	10	15	16	8	12	22	24	17	14	12	14	8	9	3	10	17	26	24	20	16	23	18	18	21	16
19	23	23	24	25	23	19	11	9	12	6	0	2	8	9	10	25	29	23	24	8	M	2	0	1	14
20	1	0	0	1	0	1	1	3	6	9	8	10	8	9	8	13	15	14	17	16	13	6	8	29	8
21	61	59	37	41	33	45	47	28	10	9	11	11	10	12	13	14	14	16	15	14	14	13	13	26	24
22	22	18	14	13	11	11	13	14	13	12	14	14	14	13	13	14	14	15	14	10	10	9	8	4	13
23	4	3	3	2	3	2	5	8	7	10	12	12	7	4	8	9	14	11	7	2	7	4	6	7	7
24	10	M	16	5	7	4	11	46	74	58	56	22	13	17	12	9	15	22	28	30	44	44	19	40	26
25	21	17	28	28	1	8	12	32	7	7	8	7	20	23	17	24	8	8	19	7	12	18	22	27	16
26	34	30	22	9	5	2	3	3	3	7	3	3	5	2	3	5	7	11	10	9	11	10	9	5	9
27	3	3	3	3	1	1	1	2	5	6	5	5	2	2	5	8	4	3	3	3	3	1	0	6	3
28	5	4	3	2	2	2	1	2	1	2	2	2	2	3	3	5	4	6	7	4	1	2	2	3	3
29	3	1	0	0	0	0	2	10	9	9	9	6	9	10	14	11	13	14	10	9	9	6	6	12	7
30	9	8	3	4	6	7	19	21	10	6	0	7	4	10	16	4	18	47	52	29	36	30	54	78	20

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
12	13	18		13	33	51	83	96	0	-	193	3	-	83	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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: MAY

YEAR : 2013
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	25	23	15	18	17	14	6	18	32	9	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8
2	3	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	2	0	0	1	1	2	6	8	8	9	7	5	1	0	0	0	0	0	0	0	0	0	0	0	2
4	0	0	2	5	2	3	3	2	2	3	3	2	3	2	1	1	1	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	2	4	6	2	2	1	1	
7	0	0	0	0	0	0	0	0	0	0	0	0	4	2	1	0	0	0	0	0	0	2	2	1	1	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	
9	0	0	0	0	0	0	0	1	0	0	0	0	1	2	2	1	0	0	0	0	0	0	3	2	1	
10	0	0	0	2	2	2	1	0	3	6	7	4	4	2	3	0	3	0	2	9	2	26	14	1	4	
11	0	5	1	49	40	18	14	20	11	15	85	44	33	51	58	58	29	64	29	32	20	29	47	3	31	
12	2	0	0	2	4	11	6	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
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	0	
14	0	0	0	0	0	0	0	2	1	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	3	2	1	1	2	0	1	0	1	2	3	3	7	3	0	3	1	
16	1	1	0	1	1	2	1	5	10	14		20	3	8	0	1	0	2	3	10	6	4	0	0	4	
17	0	0	0	0	0	0	5	20	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
18	0	0	0	9	7	11	8	5	4	3	5	9	4	3	7	9	2	7	3	2	2	1	2	2	4	
19	3	4	0	0	2	5	6	15	9	3	5	6	0	1	4	14	2	9	2	4	0	3	1	2	4	
20	13	16	0	7	10	22	5	3	9	14	6	15	6	2	1	3	5	10	11	14	0	1	4	0	7	
21	0	0	1	1	1	2	1	0	0	3	7	22	0	0	0	0	0	0	2	8	0	0	1	0	2	
22	1	0	0	2	0	0	1	2	0	0	0	6	2	4	3	8	7	0	2	2	0	4	0	10	2	
23	12	7	14	27	1	0	0	0	0	0	0	0	0	0	4	7	1	6	5	3	4	0	25	5		
24	14	10	12	13	3	1	0	18	16	14	9	6	7	15	13	11	4	10	16	11	7	9	7	2	10	
25	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	
26	0	0	0	0	0	0	0	0	0	5	9	12	3	1	5	9	3	0	4	2	1	1	3	1	2	
27	4	7	18	6	6	8	5	4	9	6	17	11	8	5	3	1	3	21	17	12	10	18	10	25	10	
28	6	0	1	1	0	1	12	8	26	9	14	13	14	5	25	27	9	9	5	2	7	6	5	7	9	
29	6	9	7	8	16	8	10	9	11	0	1	16	5	4	16	5	10	3	20	24	13	9	15	5	10	
30	8	2	2	8	10	9	3	0	0	3	3	12	20	28	4	1	1	3	2	4	0	5	18	10	7	
31	5	23	25	27	23	25	13	10	16	7	24	8	14	7	12	15	7	7	11	17	9	15	15	1	14	

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
5	1	5		1	14	20	28	42	0	-	85	0	-	31	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2013
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	60	77	71	58	63	65	59	42	54	69	43	18	10	14	14	11	14	12	12	10	10	12	12	15	34
2	12	9	9	8	12	15	14	14	10	9	7	6	7	7	7	7	7	6	8	8	6	7	8	8	9
3	6	5	3	2	2	3	4	8	8	11	8	8	7	6	12	12	11	10	10	7	7	5	5	7	7
4	7	6	7	8	7	7	8	9	12	12	13	10	9	10	14	23	35	18	14	10	6	5	5	4	11
5	3	3	2	2	4	4	5	6	8	8	4	10	4	6	3	4	3	4	4	3	4	5	4	3	4
6	2	2	3	2	2	1	2	3	4	4	3	0	2	10	9	6	5	2	6	5	8	4	7	3	4
7	0	0	0	0	0	0	0	3	1	1	1	1	0	0	0	0	0	0	0	3	5	3	4	4	1
8	2	M	1	0	0	0	2	4	4	2	0	1	0	0	2	5	9	1	1	5	3	1	5	7	2
9	5	0	0	0	1	0	0	7	3	1	0	0	0	0	3	1	3	6	4	0	0	0	1	0	1
10	2	2	1	0	0	0	3	10	7	7	14	7	7	12	23	10	25	27	30	22	17	38	30	29	13
11	20	19	16	42	46	38	38	42	36	35	43	35	22	36	40	40	23	38	28	33	19	6	37	4	31
12	2	5	10	29	26	8	8	10	11	18	14	11	7	6	8	9	20	17	10	3	0	1	0	3	10
13	1	0	0	0	0	1	2	14	9	7	6	M	1	0	0	0	1	1	1	0	0	0	0	0	2
14	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	M	19	2	4	0	2	0	0	0	1
15	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	3	1	10	5	13	2	0	0	2
16	0	0	1	0	0	0	0	0	1	1	M	M	3	13	1	5	7	24	13	21	13	19	13	15	7
17	29	43	34	23	18	43	48	48	37	43	39	37	35	33	31	25	16	18	26	39	29	27	26	25	32
18	9	4	3	17	17	30	30	24	18	9	9	11	17	16	14	13	17	11	16	19	9	12	12	19	15
19	17	16	8	9	15	18	16	22	22	15	12	15	11	13	13	24	22	23	24	22	11	20	11	13	16
20	26	27	11	22	22	32	16	23	21	19	13	22	14	13	15	18	18	23	22	30	17	16	21	18	20
21	31	25	18	22	10	8	11	24	10	11	20	26	18	29	35	40	32	35	39	39	21	12	14	6	22
22	4	M	1	3	5	4	17	30	40	30	27	38	20	16	16	25	27	28	21	18	9	17	10	19	18
23	23	9	14	31	0	0	4	17	8	12	7	2	1	0	3	10	23	12	19	19	11	32	48	52	15
24	26	30	28	17	3	1	0	18	15	15	8	4	4	11	8	7	7	20	32	19	12	13	13	22	14
25	17	12	6	1	7	6	4	11	21	10	3	22	29	11	3	6	12	9	18	10	10	8	14	21	11
26	12	8	9	3	4	7	11	9	10	16	16	13	6	4	7	10	8	4	11	11	7	6	10	6	9
27	7	9	18	11	11	11	13	12	17	17	24	15	12	9	8	11	11	28	31	22	16	26	18	34	16
28	14	4	5	4	2	6	13	10	14	7	14	12	13	9	16	19	11	12	13	9	21	17	21	18	12
29	14	14	14	13	16	13	13	12	7	2	6	14	6	4	15	8	19	10	23	27	18	17	15	20	13
30	21	11	9	13	15	10	7	7	6	7	9	12	11	15	10	10	14	16	13	14	8	15	19	11	12
31	13	22	24	25	26	28	12	9	11	13	17	12	12	10	13	17	22	19	23	32	14	22	20	10	18

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
10	10	12		10	28	37	43	57	0	-	77	1	-	34	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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: JUNE

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2013
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	5	16	12	3	4	1	5	5	6	1	2	3	2	5	4	5	3	5	3	2	3	1	1	4
2	0	0	1	1	2	3	5	14	13	4	1	0	0	1	0	3	4	1	4	6	6	1	5	10	4
3	1	2	3	0	1	12	6	6	10	11	2	5	6	3	0	4	3	8	6	5	10	5	4	11	5
4	4	2	1	1	1	0	0	0	0	0	0	0	0	3	4	3	0	10	4	0	0	0	0	0	1
5	0	0	0	0	1	0	3	2	0	4	0	0	0	0	1	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	0	0	0	1	2	2	1	0
7	0	0	1	1	14	6	15	14	5	7	7	5	11	2	0	2	2	0	5	3	1	4	9	7	5
8	16	15	6	3	4	3	11	8	7	7	12	5	7	6	2	1	4	8	3	10	18	12	19	1	8
9	1	3	0	2	0	6	1	6	4	6	2	10	14	7	2	6	7	15	6	14	17	13	15	23	8
10	25	29	27	11	7	9	8	12	16	9	5	5	1	1	0	0	11	14	18	2	3	3	0	1	9
11	3	1	4	2	0	44	9	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3
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	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	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	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	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	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	0
18	0	2	0	0	0	0	0	0	0	1	0	2	5	3	3	3	3	0	0	0	0	0	0	1	1
19	0	2	2	0	10	16	10	0	4	2	2	6	4	8	7	1	1	2	3	4	19	24	17	15	7
20	7	8	28	22	10	13	7	7	6	8	22	20	10	5	5	7	8	6	4	3	3	0	0	2	9
21	0	1	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	2	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	3	0	1	1	0	0	1	0	3	0	0	3	2	1	0	1
24	0	0	0	3	0	1	3	0	1	0	0	1	2	1	5	0	1	1	1	0	2	4	1	1	1
25	3	3	0	2	1	4	0	1	3	3	8	M	1	0	1	2	0	0	5	9	2	2	3	1	2
26	0	3	2	1	2	1	5	3	6	6	2	2	1	0	0	5	2	2	0	4	1	0	0	4	2
27	3	2	4	1	0	0	1	3	3	3	9	9	7	0	1	1	1	0	0	4	1	0	3	3	2
28	0	0	0	0	1	2	0	1	2	4	0	1	0	1	1	5	2	1	1	0	0	2	0	1	1
29	2	1	4	2	3	1	5	1	0	0	1	1	1	2	1	3	2	0	0	0	1	0	0	0	1
30	0	0	0	1	0	0	1	2	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	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	3		0	7	12	17	22	0	-	44	0	-	9	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : NITROGEN DIOXIDE

MONTH:JUNE

YEAR : 2013
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	16	27	20	13	15	9	10	10	12	11	13	9	11	13	15	18	18	24	14	12	14	10	12	14
2	9	8	8	3	14	12	12	19	16	8	4	2	6	10	8	14	21	24	30	28	15	8	14	22	13
3	11	13	11	3	7	20	14	13	15	21	12	15	14	13	15	20	25	25	25	22	30	15	15	19	16
4	20	18	15	9	6	4	8	15	15	15	17	13	11	16	15	19	17	34	29	23	4	6	9	9	14
5	12	M	10	10	9	10	17	18	14	16	12	8	6	10	13	12	23	25	21	26	9	7	9	13	13
6	6	7	7	5	6	7	8	13	15	26	18	28	23	15	10	10	17	15	22	12	16	18	17	19	14
7	20	11	13	7	24	20	24	23	15	14	15	11	12	10	10	12	16	12	21	24	19	16	28	24	17
8	33	23	14	12	13	10	19	15	14	13	17	12	13	12	9	11	15	17	12	19	21	17	24	15	16
9	17	15	8	11	9	17	13	14	11	13	8	14	21	16	14	24	19	26	22	28	31	20	24	32	18
10	25	23	20	17	16	17	16	20	20	15	12	10	10	12	16	25	43	39	49	54	53	51	40	37	27
11	44	47	32	24	18	51	40	20	14	16	54	62	65	66	69	67	68	56	61	43	41	38	15	15	43
12	28	20	24	10	8	8	12	33	36	41	51	52	56	49	41	33	36	26	53	19	21	16	13	9	29
13	8	7	7	5	5	4	7	8	9	10	10	11	11	9	9	13	13	16	17	13	11	11	8	6	10
14	5	5	5	4	3	3	5	6	7	9	11	8	8	6	6	5	8	7	6	5	7	7	6	5	6
15	4	5	5	4	3	3	6	14	18	22	8	9	6	6	13	10	9	12	12	9	9	9	9	7	9
16	10	4	5	5	6	9	6	6	8	9	7	6	7	6	7	8	9	6	8	7	7	10	12	11	7
17	7	5	10	12	7	12	11	18	12	10	10	7	9	12	12	9	9	10	12	15	14	14	17	18	11
18	14	16	6	8	10	6	8	15	12	12	12	8	11	15	13	15	16	22	21	21	15	13	14	14	13
19	13	M	15	10	22	31	30	18	19	16	21	23	18	15	16	17	18	18	20	25	28	29	25	34	21
20	19	20	35	32	17	24	15	15	12	16	24	26	20	23	26	27	27	25	28	33	25	19	12	19	22
21	8	5	6	4	3	4	4	6	9	9	7	7	5	7	8	6	6	4	4	4	4	3	4	5	6
22	4	4	3	5	2	4	7	12	7	11	7	9	8	7	9	7	8	10	8	7	8	7	8	4	7
23	9	8	6	6	3	12	16	15	12	22	15	18	12	6	7	8	9	13	9	12	18	17	15	8	12
24	13	8	8	16	5	11	15	10	10	8	5	15	14	15	16	24	12	15	15	14	6	7	17	8	12
25	9	8	3	5	6	15	8	13	11	13	21	M	18	18	18	18	19	19	33	35	31	26	32	8	17
26	11	14	12	8	8	15	22	22	21	19	11	11	9	9	12	16	14	17	15	24	23	15	10	27	15
27	17	12	23	9	11	10	16	19	16	17	15	11	10	7	11	14	18	14	14	20	20	9	13	15	14
28	6	5	4	6	12	15	13	16	12	13	9	10	9	12	10	19	18	18	16	12	12	18	8	12	12
29	12	9	14	12	12	12	16	18	12	15	15	9	11	10	14	19	15	12	12	15	18	16	11	9	13
30	11	5	11	10	9	9	13	16	18	13	12	12	12	12	11	11	13	11	11	20	9	8	11	14	12

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM		PERCENT		NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE OBJECTIVE			
															1-HR	24-HR		
13	13	15		13	25	34	51	56	2	-	69	6	-	43	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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:APRIL

YEAR : 2013
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	1	1	1	1	1	1	2	2	2	25	36	37	30	45	28	28	12	10	13	38	57	15
2	71	81	69	38	31	27	41	52	51	78	103	44	31	25	57	40	17	3	3	3	17	1	2	0	37
3	0	0	0	1	1	2	2	2	3	4	2	1	1	1	3	2	1	1	1	2	2	2	1	1	2
4	1	0	0	0	0	0	0	0	0	1	9	13	34	29	20	12	23	23	9	2	1	4	23	0	9
5	0	0	1	2	0	0	1	1	2	3	9	6	9	12	5	3	1	1	2	4	5	14	11	1	4
6	0	3	15	19	10	21	13	12	14	9	10	10	9	8	4	6	7	3	3	2	1	2	3	2	8
7	2	2	2	3	3	3	5	5	10	6	6	4	4	4	4	4	5	6	7	6	5	5	6	5	5
8	5	5	5	4	4	4	4	6	8	9	10	9	8	9	9	7	10	9	9	8	11	17	13	38	9
9	13	5	9	5	5	11	12	11	18	19	16	4	11	16	11	8	3	2	0	0	0	0	0	0	7
10	0	0	1	0	0	0	0	0	1	1	3	6	2	4	2	3	3	2	5	4	2	2	2	4	2
11	6	8	10	11	10	11	11	12	10	10	7	3	2	2	2	2	4	18	4	2	1	0	0	0	6
12	0	0	1	3	1	0	3	8	3	7	6	17	16	12	12	3	1	1	1	2	3	4	4	7	5
13	8	7	7	7	8	7	7	9	9	16	13	41	32	30	18	9	10	20	28	21	9	17	15	7	15
14	8	11	14	9	8	17	34	49	54	102	87	97	130	107	75	59	77	63	69	55	47	58	42	71	56
15	68	63	52	53	35	26	31	43	48	97	117	72	37	15	26	29	23	19	20	15	13	13	14	10	39
16	10	10	13	11	11	10	9	9	13	12	14	20	14	7	7	9	11	7	6	6	4	9	12	6	10
17	6	8	9	10	8	7	5	3	9	9	14	8	9	6	12	17	7	4	7	5	7	2	3	5	8
18	2	6	15	4	3	8	7	13	6	7	7	5	4	4	19	12	8	7	9	13	12	4	3	3	8
19	6	4	5	4	8	3	3	7	11	7	7	6	12	24	22	32	27	20	10	1	0	0	0	0	9
20	0	0	0	0	0	19	10	50	40	58	64	45	38	42	24	12	2	5	10	7	19	44	36	26	23
21	10	29	29	43	56	80	59	73	65	7	2	2	1	1	1	1	1	1	1	1	1	1	1	1	19
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	0
23	0	0	0	0	0	0	0	2	8	6	13	21	53	33	6	2	3	3	2	6	5	5	4	3	7
24	4	4	2	3	1	0	29	79	147	119	110	52	15	10	8	14	9	26	9	26	34	25	15	5	31
25	4	8	20	3	1	1	9	14	5	15	10	12	15	9	12	13	12	16	10	5	3	20	31	13	11
26	33	29	68	45	39	17	1	1	1	10	13	2	0	0	0	M	4	5	6	7	7	5	5	5	13
27	5	8	10	9	8	6	7	9	10	10	9	9	8	5	3	2	1	1	0	0	1	1	1	1	5
28	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0
29	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0
30	1	1	1	2	2	9	13	13	14	9	4	14	7	8	11	2	8	7	16	14	9	18	11	23	9

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
7	6	12		6	34	55	78	101	0	-	147	0	-	56	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
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 : 2013
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	1	0	0	1	2	6	13	18	16	19	13	47	57	67	69	85	90	107	109	79	100	101	104	46
2	102	95	90	82	79	76	79	78	78	81	83	78	81	87	89	96	96	86	78	80	73	19	11	8	75
3	3	1	0	0	0	2	7	12	14	18	14	16	17	18	32	41	39	22	26	37	20	12	8	12	15
4	6	3	2	2	1	3	5	10	11	17	49	54	75	75	62	56	61	47	46	23	11	26	63	6	30
5	2	0	1	7	0	4	12	23	31	42	29	13	28	35	23	12	13	16	13	22	25	27	28	14	18
6	5	9	51	55	32	46	37	30	40	44	39	41	49	38	34	32	36	25	27	23	26	28	26	36	34
7	41	27	20	20	22	30	35	45	68	62	49	30	25	22	20	23	20	22	19	18	18	13	14	13	28
8	10	8	6	6	5	8	17	31	38	60	54	34	32	55	67	41	60	74	73	65	66	85	72	100	44
9	54	24	45	35	43	64	66	70	70	87	87	85	73	70	64	58	40	57	27	24	23	19	20	22	51
10	17	M	16	12	10	10	25	35	36	37	47	54	47	57	55	60	72	70	77	59	48	22	22	20	39
11	22	12	9	7	7	9	16	43	50	50	52	90	70	97	82	87	117	103	97	94	58	58	36	15	53
12	20	22	29	22	16	11	33	71	76	83	67	71	68	64	64	42	35	39	51	33	27	30	25	19	42
13	17	11	10	14	18	13	22	48	52	72	53	72	66	67	39	24	27	69	99	119	98	118	93	70	54
14	84	78	80	45	23	41	109	121	113	163	162	167	186	148	98	100	113	78	104	93	113	145	112	122	108
15	105	70	51	71	59	63	136	151	151	184	179	102	51	28	40	45	49	59	55	43	30	31	39	26	76
16	20	14	16	5	5	11	79	119	116	114	116	110	76	48	38	41	56	68	66	42	24	35	41	25	54
17	18	17	11	14	8	24	29	49	51	42	45	34	29	31	40	53	45	20	33	25	23	36	40	24	31
18	31	26	32	17	3	12	20	34	10	13	13	5	2	6	27	28	34	33	31	27	21	13	20	9	19
19	11	12	9	6	7	7	15	20	19	23	16	10	9	12	15	22	32	39	36	16	8	5	3	8	15
20	4	2	2	1	0	39	51	63	61	53	61	53	41	63	36	23	22	46	66	82	84	89	82	77	46
21	69	67	64	66	66	73	66	63	56	20	15	14	15	11	12	12	14	14	14	17	14	12	11	12	33
22	10	6	5	6	6	8	15	20	20	20	18	17	15	17	19	22	25	22	18	15	12	11	8	8	14
23	6	2	1	2	3	3	11	24	57	51	65	53	77	68	25	22	26	23	52	82	55	60	38	36	35
24	46	M	25	19	9	8	53	75	78	90	80	56	23	16	13	18	13	28	30	71	76	64	44	24	42
25	20	21	35	6	3	6	33	38	31	23	20	11	10	10	14	17	16	20	23	13	38	76	78	73	26
26	70	70	80	75	69	45	13	33	47	55	45	23	20	14	13	M	35	21	23	19	18	14	12	15	36
27	10	9	9	8	9	9	16	24	25	26	32	25	25	23	27	22	22	22	18	13	11	11	10	7	17
28	4	2	1	0	0	1	3	5	6	8	8	6	5	7	7	9	8	7	10	8	5	4	6	7	5
29	3	0	0	0	0	0	2	11	13	13	15	10	11	11	10	13	14	15	15	9	10	8	9	11	8
30	9	4	3	3	2	16	37	36	32	16	5	8	5	7	17	28	48	54	84	83	70	74	60	69	32

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR				
25	26	38	26	82	100	119	151	0	-	186	5	-	108	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
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 : 2013
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	26	33	28	33	28	26	18	18	15	17	41	32	1	0	0	0	0	0	0	0	0	1	3	6	14
2	6	6	5	3	2	3	3	4	3	3	3	2	2	1	2	3	2	1	1	0	0	0	0	1	2
3	3	3	2	2	2	3	3	4	6	6	5	6	7	4	3	1	3	1	2	1	0	0	0	1	3
4	3	2	4	5	5	7	6	5	6	7	4	4	4	4	4	3	14	30	8	3	1	1	1	1	6
5	1	1	1	1	1	1	2	1	1	1	10	18	9	29	18	0	0	2	1	0	0	0	0	0	4
6	0	0	0	0	1	2	0	0	0	0	4	0	0	7	7	0	5	2	2	3	13	20	17	10	4
7	17	9	0	0	0	0	1	0	0	0	1	0	4	2	1	0	0	0	0	2	0	3	2	0	2
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
9	4	0	0	0	0	0	1	6	49	12	8	32	14	21	8	14	32	6	2	0	0	16	28	29	12
10	25	17	4	5	3	9	14	26	13	7	19	9	6	6	9	0	2	6	5	7	3	6	6	1	9
11	2	2	9	11	3	5	8	28	52	70	62	81	93	91	77	30	24	30	23	27	15	18	17	6	33
12	5	5	5	5	9	8	24	59	58	83	91	22	2	1	2	9	10	26	24	37	44	18	29	3	24
13	3	2	27	38	30	49	52	135	76	44	9	36	16	14	4	3	7	7	6	4	2	0	2	1	24
14	1	1	2	0	0	1	1	1	4	2	3	1	0	0	1	0	1	0	0	1	0	1	0	0	1
15	0	0	1	1	3	3	12	10	16	17	15	6	5	1	6	9	9	11	11	16	11	11	9	13	8
16	12	9	4	8	5	3	8	4	10	9	5	4	3	3	4	3	5	18	13	7	7	3	3	3	6
17	2	2	4	2	8	46	68	41	31	51	31	8	14	7	10	11	3	12	11	7	15	20	8	3	17
18	3	1	4	7	4	8	8	8	4	3	5	7	8	2	2	3	5	7	6	5	8	5	1	5	5
19	6	3	3	3	4	12	10	13	7	6	8	7	1	9	5	5	7	3	2	3	8	16	2	8	6
20	9	5	11	6	6	15	7	8	5	5	5	6	6	18	54	9	39	16	11	5	3	7	5	3	11
21	2	4	2	11	12	2	3	2	4	5	21	10	0	3	19	53	18	9	4	2	3	3	3	4	8
22	4	4	4	3	1	0	15	11	3	1	2	12	3	2	9	7	4	4	6	16	15	12	3	3	6
23	6	4	11	11	5	4	1	5	3	3	2	4	2	5	11	30	14	11	13	7	4	3	2	54	9
24	20	13	15	9	7	3	2	7	5	20	53	51	21	32	16	13	24	24	40	17	15	55	15	7	20
25	4	3	7	2	2	5	3	19	6	2	1	0	1	1	0	1	4	8	2	2	1	1	0	2	3
26	1	0	2	2	2	3	4	11	8	12	13	10	7	7	4	7	6	6	6	7	3	9	7	5	6
27	8	3	7	5	4	6	9	8	8	7	10	7	4	6	4	4	6	7	8	15	21	10	14	7	8
28	6	6	5	3	3	12	8	5	10	9	9	9	13	8	11	3	4	6	7	14	12	5	10	8	8
29	11	15	16	11	12	6	6	11	13	8	5	13	11	11	17	19	17	8	10	22	8	9	7	10	12
30	14	7	9	9	6	10	6	4	28	20	33	43	12	22	7	4	10	11	4	8	3	7	6	3	12
31	3	6	11	6	6	10	13	7	6	10	7	11	13	21	15	4	2	5	9	9	9	11	12	6	9

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
6	5	9		5	21	33	54	73	0	-	135	0	-	33	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	67	60	51	57	55	57	52	54	56	58	77	54	10	7	6	6	7	8	9	4	2	5	4	7	32
2	4	2	2	2	2	5	10	24	25	24	19	18	19	23	31	41	42	46	24	26	19	23	20	11	19
3	10	8	4	1	1	2	8	19	27	29	26	29	27	33	44	53	64	44	35	30	33	18	15	10	24
4	8	6	5	5	4	10	9	20	37	62	37	38	39	36	48	69	106	115	97	48	26	19	13	12	36
5	9	9	4	5	4	7	13	19	23	23	39	43	29	58	49	23	18	33	38	30	20	18	11	9	22
6	7	2	1	0	3	6	21	26	19	15	29	8	10	39	60	44	51	46	50	59	73	81	84	57	33
7	52	20	0	0	0	1	14	18	14	11	11	10	16	12	10	10	9	13	15	22	16	17	11	14	13
8	4	M	0	0	0	1	6	11	10	9	9	9	8	7	6	7	10	10	10	8	6	3	7	24	7
9	32	4	2	1	3	7	16	29	54	33	19	31	18	20	12	20	40	28	36	29	31	42	57	50	26
10	46	40	23	12	5	22	34	39	32	13	31	26	14	19	21	28	46	44	30	45	47	50	45	8	30
11	7	13	22	34	18	22	42	59	58	56	50	56	58	55	52	34	47	74	61	54	73	60	72	78	48
12	66	61	55	53	69	53	55	58	57	62	64	44	20	13	18	46	36	54	73	94	95	83	89	53	57
13	34	15	42	64	57	56	55	66	50	40	17	28	17	16	10	6	17	17	43	29	18	14	16	18	31
14	9	6	5	0	5	13	43	32	35	32	29	17	16	18	16	13	21	18	20	18	16	12	8	10	17
15	7	2	1	1	4	6	28	36	33	26	17	7	6	3	8	13	14	31	25	34	33	31	27	19	17
16	17	5	0	2	0	1	6	5	8	10	1	6	1	2	12	22	38	50	30	19	19	14	36	58	15
17	53	57	40	39	39	57	61	59	59	66	59	44	44	30	21	31	24	56	75	76	68	79	71	53	53
18	43	6	17	14	3	33	38	20	16	15	7	10	6	2	2	4	3	6	15	13	20	16	3	12	14
19	5	3	1	0	1	9	8	8	2	3	3	1	0	2	0	2	5	1	7	5	12	23	1	9	5
20	8	3	10	2	2	16	9	13	10	10	6	10	3	7	26	4	15	8	13	8	25	31	30	34	13
21	3	10	5	23	30	28	37	34	35	41	42	22	29	52	63	57	48	65	67	50	26	12	16	20	34
22	17	M	9	9	18	10	52	65	61	30	50	60	26	30	19	33	25	56	54	52	51	41	22	29	36
23	30	20	35	26	14	18	68	68	55	41	21	8	9	10	18	30	25	26	37	23	36	36	58	63	32
24	43	33	30	17	13	8	20	27	8	26	40	38	21	32	20	15	35	34	45	49	63	72	58	24	32
25	15	9	12	10	10	15	20	52	42	26	25	29	42	48	15	24	27	36	37	22	9	8	13	16	23
26	9	2	5	2	3	9	17	24	22	28	29	20	12	8	6	6	4	8	9	12	7	10	6	3	11
27	3	0	3	5	5	11	10	13	17	12	10	5	1	4	2	5	9	22	15	29	33	27	24	7	11
28	11	11	7	0	0	8	24	8	8	11	9	6	8	3	9	1	4	9	13	22	19	21	28	55	12
29	39	33	29	22	15	16	19	16	21	21	10	20	24	11	16	14	20	10	12	20	8	17	19	29	19
30	31	23	25	20	16	21	31	28	21	18	22	28	15	18	15	12	18	23	17	23	25	30	28	M	22
31	13	18	18	11	7	10	19	15	7	6	5	11	13	17	20	12	9	17	24	22	11	13	11	7	13

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
17	19	24		19	56	63	73	82	0	-	115	5	-	57	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	20	22	6	4	3	16	6	6	3	6	15	7	6	13	8	6	7	5	6	8	1	4	8
2	3	5	3	3	3	10	17	13	25	10	9	5	6	5	5	5	6	10	6	6	11	3	8	4	8
3	6	2	7	2	2	9	15	5	8	12	6	6	14	6	10	14	9	10	5	6	6	8	8	19	8
4	3	3	3	5	1	1	2	10	15	5	7	10	9	13	10	11	6	12	10	7	0	0	0	0	6
5	0	0	0	3	4	5	4	4	27	32	4	6	1	1	2	5	8	3	1	5	1	0	0	0	5
6	0	1	0	1	0	1	3	11	11	11	12	23	5	2	3	3	2	1	1	2	2	2	4	4	4
7	6	6	14	13	10	14	7	10	16	9	4	8	7	2	10	10	6	8	5	7	4	10	14	20	9
8	10	4	7	3	3	4	18	15	11	10	9	5	8	6	3	5	8	5	8	10	8	8	13	0	8
9	3	3	7	6	6	3	7	5	4	9	5	7	6	7	4	3	5	9	5	7	9	8	8	11	6
10	7	8	7	14	8	6	8	5	6	17	9	6	5	0	0	2	2	4	3	2	3	5	4	10	6
11	41	63	8	0	0	16	14	53	56	14	5	7	14	6	1	1	2	3	15	2	1	0	3	5	14
12	2	4	6	1	1	1	1	4	13	4	2	4	6	66	66	46	12	3	1	2	2	1	1	4	11
13	1	1	1	0	1	0	2	1	2	2	1	1	1	1	1	2	4	2	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
17	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
18	2	1	1	0	0	0	0	0	2	9	12	8	17	16	9	8	6	6	4	3	1	3	1	2	5
19	4	3	6	8	21	26	5	3	3	5	22	20	20	12	18	7	11	5	13	7	14	8	25	14	12
20	7	9	15	18	8	10	6	13	11	16	32	40	14	12	14	8	15	22	37	15	10	4	3	6	14
21	2	1	1	1	0	0	0	0	1	2	1	0	1	0	2	1	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	1	0
23	0	0	0	0	0	0	1	2	14	10	3	2	1	7	10	6	5	4	6	8	12	8	6	6	5
24	5	2	9	3	2	3	3	2	5	6	5	6	10	6	4	11	5	5	7	3	2	6	6	5	5
25	4	6	1	1	1	2	4	3	5	7	12	12	2	1	4	3	1	0	12	6	4	7	4	1	4
26	2	2	4	1	4	T	T	T	T	T	T	T	0	1	2	3	4	3	2	9	4	4	2	14	4
27	9	5	9	7	4	4	3	2	5	6	9	10	5	3	2	6	5	3	3	3	2	3	2	4	5
28	4	3	2	2	4	4	3	4	5	5	4	2	8	1	8	8	12	4	4	3	4	10	8	7	5
29	3	7	4	3	3	5	10	6	9	5	5	3	5	8	10	10	5	1	4	12	11	10	13	7	7
30	8	5	10	8	8	9	11	19	13	14	25	11	6	5	10	2	1	1	2	2	2	2	3	5	8

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
5	4	6		4	13	16	25	40	0	-	66	0	-	14	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	16	13	18	18	3	0	3	11	1	0	0	3	8	2	5	8	3	3	9	11	9	11	0	5	7
2	4	5	3	3	2	11	19	11	11	9	5	6	7	7	11	3	4	8	16	14	18	5	11	8	8
3	9	3	9	2	1	8	20	13	8	6	10	11	13	4	13	20	18	17	12	15	16	15	13	20	12
4	14	15	15	17	5	24	32	42	40	27	21	19	17	17	12	19	29	40	36	26	14	9	38	24	23
5	21	M	3	13	9	15	22	23	37	30	20	22	20	18	16	34	40	44	41	42	44	24	10	8	24
6	5	5	1	1	1	10	34	44	51	57	59	52	31	18	12	14	19	10	31	22	18	20	19	24	23
7	22	15	25	22	15	25	26	31	17	14	4	4	4	2	9	12	10	15	13	20	28	31	27	31	18
8	14	7	10	3	1	5	16	15	14	12	5	3	7	6	7	8	12	6	10	13	12	13	18	11	10
9	15	14	14	8	10	7	21	10	7	9	3	7	8	20	9	19	29	27	35	37	30	24	28	17	17
10	12	14	17	23	12	15	23	37	20	25	13	16	23	17	25	22	23	36	52	47	38	57	44	56	28
11	55	51	40	13	18	50	59	61	53	48	51	49	58	61	56	57	85	75	82	68	55	52	51	62	55
12	47	47	44	23	12	10	15	36	60	54	38	43	50	75	86	88	66	41	32	38	31	34	43	49	44
13	42	14	8	5	6	8	16	30	38	40	31	31	29	25	28	29	34	40	40	37	48	27	20	11	27
14	6	3	1	0	0	0	2	10	25	24	18	30	31	32	31	18	13	10	8	6	7	5	9	6	12
15	3	1	0	0	0	0	4	16	28	34	21	14	22	19	16	11	7	7	11	5	6	6	5	2	10
16	3	0	0	0	0	0	1	3	2	0	1	0	0	1	1	3	6	4	2	4	3	4	7	8	2
17	3	0	0	0	0	2	10	13	14	13	11	7	9	10	11	7	10	11	11	12	15	9	6	10	8
18	9	7	3	1	1	3	11	20	28	14	11	7	18	17	9	11	9	13	27	27	20	18	14	16	13
19	18	M	18	21	22	31	21	17	15	6	11	24	23	14	20	12	14	12	21	26	48	51	45	30	23
20	34	25	26	24	11	17	16	20	26	31	32	36	24	24	27	22	23	42	60	59	38	25	18	18	28
21	9	5	11	10	8	9	14	13	19	29	24	20	20	14	14	13	11	16	13	11	6	7	6	5	13
22	4	3	1	2	1	3	6	13	10	9	10	12	10	8	11	11	12	11	10	10	8	8	11	10	8
23	4	3	2	2	0	3	10	16	33	26	17	12	15	14	15	9	9	9	12	21	22	19	25	15	13
24	11	6	15	4	2	12	27	25	23	15	33	25	32	16	28	37	16	27	38	18	7	13	12	7	19
25	4	5	0	0	1	16	19	17	15	28	32	13	4	2	5	10	7	7	23	26	23	29	12	4	13
26	5	4	3	2	23	T	T	T	T	T	T	T	7	1	4	9	15	23	13	17	12	8	6	10	10
27	3	0	3	2	0	1	0	1	3	4	12	14	11	6	2	3	1	5	1	2	1	3	1	4	3
28	3	0	1	0	1	2	3	6	7	5	4	2	7	1	21	13	11	5	6	3	7	15	10	13	6
29	2	7	3	1	1	4	15	11	12	8	5	2	4	5	5	8	8	5	16	29	37	30	28	18	11
30	19	10	15	9	12	14	19	19	10	6	12	4	2	1	7	4	7	5	4	8	10	16	8	6	9

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	ABOVE OBJECTIVE	ABOVE OBJECTIVE	
12	12	17	12	38	50	59	66	0	-	88	2	-	55	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	1	1	1	1	1	1	1	2	6	29	27	31	9	2	3	11	12	17	17	20	15	9
2	46	51	32	5	17	15	27	49	46	74	88	49	30	14	29	23	10	2	1	3	6	7	3	0	26
3	0	0	1	2	3	4	3	3	4	5	3	2	2	2	4	2	2	4	6	2	3	2	2	1	3
4	1	1	1	1	0	3	1	0	5	12	9	9	12	19	21	10	7	3	2	0	0	0	5	0	5
5	0	0	0	0	0	0	0	0	0	1	5	5	3	3	2	0	0	0	1	1	2	9	3	1	2
6	1	4	8	16	12	22	11	10	12	8	12	11	10	8	5	7	7	3	2	3	2	2	3	3	8
7	2	2	2	3	3	5	5	5	9	6	6	5	4	5	5	5	6	6	6	6	6	5	6	5	5
8	5	5	5	4	4	4	4	7	8	9	11	11	12	11	9	8	12	9	9	6	10	8	8	29	9
9	11	5	3	3	5	15	9	10	22	16	9	2	10	13	7	4	2	1	1	2	1	0	1	1	6
10	1	2	1	1	0	0	1	1	3	2	3	1	3	5	5	5	5	3	5	6	2	2	3	4	3
11	6	8	10	11	10	12	12	14	11	11	9	5	4	3	4	4	8	13	3	3	2	2	1	1	7
12	1	3	1	2	3	2	4	9	7	5	5	8	11	11	6	4	3	2	2	3	4	5	5	7	5
13	8	11	9	9	8	8	8	10	10	10	17	41	31	66	31	27	23	18	17	37	14	17	13	13	19
14	13	14	14	12	15	29	40	54	61	113	102	97	123	104	79	61	96	69	75	67	62	57	52	51	61
15	47	53	49	44	43	28	29	28	49	73	81	65	50	14	15	26	23	22	19	16	15	14	13	11	34
16	12	12	13	18	17	12	15	7	5	6	6	5	6	4	5	5	7	5	4	3	2	3	5	3	8
17	3	4	4	6	5	5	3	2	3	5	5	5	6	4	5	6	5	4	6	5	5	3	3	3	4
18	1	2	5	3	4	4	3	5	3	5	8	11	10	3	7	6	4	4	5	6	4	5	2	6	5
19	5	4	4	4	3	3	3	3	4	4	3	8	8	11	10	22	11	9	7	2	2	1	1	2	6
20	2	1	1	2	2	3	3	14	39	48	54	29	42	34	27	13	4	3	2	2	4	11	10	14	15
21	3	2	5	11	15	16	42	43	45	19	4	4	3	3	3	3	3	3	3	5	3	3	3	3	10
22	3	3	2	3	3	3	3	3	3	3	4	4	4	3	3	4	4	4	4	4	4	4	4	4	3
23	3	4	4	3	4	13	6	5	10	13	18	33	42	25	19	5	1	3	1	2	2	10	10	0	10
24	0	0	0	0	0	0	0	3	18	24	29	36	10	6	9	9	9	12	8	4	8	4	4	3	8
25	2	2	2	1	1	1	0	3	2	4	6	7	4	5	6	12	9	7	7	3	6	5	20	21	6
26	37	10	19	25	26	14	2	2	2	22	20	3	1	1	1	2	5	5	7	7	7	6	5	5	10
27	6	8	11	10	11	7	8	10	11	10	11	10	10	7	5	4	3	2	1	1	2	2	2	2	6
28	2	2	1	1	1	1	1	1	1	1	2	2	1	2	2	2	2	1	2	1	0	1	0	0	1
29	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
30	0	0	0	1	1	3	4	4	5	5	3	7	8	4	8	2	5	7	22	14	10	16	15	25	7

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
6	5	10		5	25	44	66	81	0	-	123	0	-	61	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
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 : 2013
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	0	0	0	0	0	1	3	11	16	14	19	49	47	53	43	36	59	78	89	85	88	100	50	35
2	98	88	72	14	49	23	51	70	73	80	88	85	82	75	68	87	90	48	56	36	60	40	5	1	60
3	0	0	0	0	0	0	0	5	7	20	13	12	13	19	39	32	26	64	61	37	42	22	9	15	18
4	4	0	2	2	0	7	6	11	26	42	33	44	40	52	45	33	29	11	8	0	0	3	13	0	17
5	0	0	0	0	0	0	0	0	0	9	1	4	2	5	2	0	0	0	0	0	0	8	0	1	1
6	2	8	23	39	28	43	34	28	37	37	36	37	42	31	26	29	28	15	19	16	14	20	29	27	27
7	29	22	7	12	13	22	25	42	57	61	35	16	16	15	11	12	18	22	25	21	21	17	20	14	23
8	13	10	8	5	5	6	14	38	61	81	75	67	67	58	70	74	78	102	100	66	65	59	58	101	53
9	43	16	10	15	32	59	65	57	68	82	85	30	62	57	51	41	29	24	31	28	10	9	13	7	39
10	11	M	6	4	6	4	4	19	28	30	55	46	41	54	60	57	69	55	64	53	44	26	24	25	34
11	15	12	8	3	3	3	8	22	30	33	33	77	57	89	59	55	94	100	79	69	46	48	40	14	42
12	6	33	18	11	15	10	30	53	74	63	58	59	64	69	36	32	30	33	25	24	24	9	16	19	34
13	21	14	13	11	14	12	20	25	46	49	50	73	65	93	61	57	60	53	85	100	94	100	82	69	53
14	34	46	12	3	27	48	104	113	113	164	141	159	153	111	96	91	111	87	84	52	52	43	42	60	81
15	49	50	40	32	31	23	29	107	178	198	188	126	65	31	31	41	42	41	30	19	12	11	10	11	58
16	7	4	4	4	4	2	35	25	30	27	15	29	34	19	17	16	22	15	6	1	0	8	3	5	14
17	1	2	4	26	17	14	22	13	15	19	17	M	17	15	15	19	19	20	24	16	17	24	30	10	16
18	10	30	15	27	36	19	13	18	10	14	20	27	28	11	27	21	24	16	19	22	20	30	13	32	21
19	34	23	28	29	21	28	20	22	14	18	11	18	24	20	16	27	24	18	14	9	25	9	9	4	19
20	1	0	1	1	0	8	8	37	61	54	60	49	59	56	47	49	37	24	16	18	21	63	33	75	32
21	42	27	44	55	59	57	70	71	63	34	18	18	16	10	15	14	18	20	20	26	22	16	15	16	32
22	13	10	9	8	8	9	15	27	31	28	30	29	26	29	36	41	44	38	28	22	11	13	7	8	22
23	7	5	4	5	8	30	18	28	51	58	63	63	70	56	40	24	12	36	13	27	41	101	52	3	34
24	2	M	1	0	0	0	1	28	64	58	48	51	23	23	25	28	23	25	42	26	31	14	30	19	24
25	7	13	5	1	2	2	5	10	10	11	15	12	9	8	13	28	23	20	28	14	29	33	86	86	20
26	88	39	79	69	68	18	8	12	23	59	71	32	25	20	23	26	28	27	26	24	21	20	20	22	35
27	20	14	13	13	13	11	15	23	35	43	37	42	46	40	42	45	65	42	30	19	16	17	17	16	28
28	12	7	6	4	6	6	6	9	9	12	14	11	8	14	22	13	17	10	12	10	5	21	10	6	10
29	5	2	1	0	1	0	0	1	2	2	5	3	1	2	3	2	3	3	4	2	1	1	1	4	2
30	2	2	1	2	1	7	11	17	16	16	6	8	13	9	15	13	33	46	80	80	52	63	56	62	25

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR				
20	22	30	22	69	87	102	124	0	-	198	1	-	81	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
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 : 2013
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	30	33	28	33	31	27	20	16	14	12	6	6	1	0	0	0	0	0	0	0	0	2	4	6	11
2	8	7	5	4	3	3	4	6	6	5	4	3	3	2	3	3	3	3	2	1	1	1	1	2	3
3	2	4	3	3	4	4	4	8	9	9	8	8	8	5	3	1	2	3	2	2	2	1	1	1	4
4	3	4	4	6	5	7	6	5	7	12	7	5	5	4	4	3	5	14	6	4	2	3	1	1	5
5	1	5	5	5	3	3	15	11	20	13	7	2	13	18	2	2	4	17	20	4	1	2	2	0	7
6	1	1	1	1	0	1	0	0	1	1	1	1	1	2	15	3	3	2	2	9	24	43	37	20	7
7	10	2	1	1	0	0	2	1	1	1	2	1	6	3	2	1	1	1	0	0	0	1	2	1	2
8	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	0
9	0	0	0	0	0	0	7	12	20	5	9	25	12	13	8	7	7	2	1	0	0	0	6	5	6
10	3	2	0	1	0	0	1	1	3	6	8	3	4	6	3	0	0	2	6	6	3	29	12	1	4
11	1	1	2	5	3	6	20	20	70	39	62	79	70	78	59	31	20	27	15	20	13	9	7	1	27
12	4	6	4	10	11	2	7	18	12	52	85	68	32	2	4	11	17	15	32	13	10	15	16	19	19
13	20	1	28	40	13	14	17	39	70	40	37	28	14	10	4	5	6	4	4	2	1	0	1	1	17
14	0	1	2	0	0	1	1	1	2	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	1	1	3	4	6	9	9	4	3	2	3	5	4	5	5	7	6	5	4	6	4
16	6	4	2	4	3	2	4	4	4	4	5	5	4	4	3	3	5	9	14	6	4	2	2	2	4
17	1	1	0	0	8	17	17	12	7	9	7	2	5	17	6	6	1	2	3	0	0	0	0	0	5
18	0	0	1	2	1	6	2	2	2	0	2	4	5	2	0	1	2	4	2	1	2	1	1	2	2
19	2	1	1	1	1	3	3	5	4	5	6	2	1	7	6	5	6	4	1	2	9	18	1	4	4
20	3	2	4	2	2	6	3	3	5	6	5	9	18	14	5	59	9	5	15	5	1	9	8	3	8
21	2	1	1	3	8	1	3	1	2	6	14	6	2	8	10	36	26	15	11	1	2	3	3	3	7
22	5	4	4	2	2	1	6	4	1	0	0	5	5	1	4	5	3	1	13	21	14	8	2	1	5
23	5	4	8	8	4	1	0	1	1	1	1	3	2	3	10	10	6	9	7	4	2	3	0	47	6
24	13	8	9	4	5	1	0	0	3	10	M	31	22	18	14	M	8	15	28	16	9	17	11	5	11
25	3	2	2	1	0	1	1	3	1	2	0	0	0	0	0	3	17	16	12	2	1	1	0	1	3
26	1	0	1	1	1	2	3	7	5	9	9	7	6	5	2	4	4	4	3	5	3	5	4	3	4
27	4	2	5	4	3	5	10	6	5	5	7	M	5	8	5	5	6	4	5	7	10	5	6	4	5
28	3	3	2	2	1	2	2	1	5	8	8	6	9	6	5	2	1	3	2	7	4	2	4	3	4
29	5	7	9	5	5	3	3	5	7	4	2	2	5	6	8	10	12	4	5	7	5	4	3	2	5
30	6	3	2	6	5	6	4	5	6	20	13	19	17	12	5	3	9	8	6	7	3	5	3	3	7
31	2	3	6	6	9	6	7	6	8	10	8	7	6	11	11	3	3	4	9	6	4	9	9	4	7

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	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	4	7		4	15	24	39	61	0	-	85	0	-	27	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	68	67	63	68	66	69	63	59	62	57	43	29	10	13	12	13	10	13	17	10	9	10	7	14	36
2	11	10	8	8	9	13	12	18	35	31	19	21	22	20	23	41	53	36	29	25	29	22	23	19	22
3	17	13	9	7	7	7	10	17	35	45	39	21	25	21	32	43	43	71	39	26	26	18	16	13	25
4	13	12	11	11	11	19	17	24	36	74	41	30	28	37	56	63	105	121	76	38	26	24	16	14	38
5	16	26	18	17	13	9	33	33	46	35	40	25	46	50	28	36	33	67	80	40	22	36	27	23	33
6	17	13	9	7	8	12	15	26	35	37	37	30	31	29	61	53	65	53	76	80	100	108	96	65	44
7	50	16	8	6	7	8	17	22	28	23	29	21	23	13	20	14	17	24	26	26	24	25	18	21	20
8	13	M	5	2	3	2	4	8	5	8	9	9	8	10	7	8	11	8	9	9	6	1	3	16	7
9	13	3	2	1	2	2	11	23	34	17	22	31	23	20	17	16	18	19	9	3	14	2	34	36	16
10	26	9	0	0	0	0	1	9	15	14	19	9	9	13	12	6	0	9	16	20	5	43	37	0	11
11	0	0	3	12	12	13	31	45	63	63	58	63	62	60	62	48	40	55	23	20	3	2	2	2	31
12	31	37	22	62	87	4	33	44	33	51	63	68	61	7	29	49	66	58	94	89	89	86	91	59	55
13	44	8	44	69	30	43	47	57	61	53	44	37	25	17	19	17	20	29	20	8	3	1	1	4	29
14	0	0	2	0	0	0	0	2	12	8	9	3	1	3	6	2	2	4	2	1	0	0	0	1	2
15	0	0	0	0	0	0	4	6	10	16	13	7	5	1	5	10	10	14	15	17	15	11	7	10	7
16	5	3	0	1	1	0	14	22	15	16	16	17	12	13	13	9	25	45	35	14	14	16	25	55	16
17	12	19	0	0	15	28	31	39	45	43	46	8	39	53	40	34	17	27	33	3	7	2	1	1	23
18	0	4	18	10	4	18	21	7	6	1	5	5	6	1	0	1	4	5	3	1	4	4	8	14	6
19	5	4	2	1	1	7	7	8	7	6	6	3	2	7	7	8	13	9	7	7	16	23	5	9	7
20	2	1	5	1	4	8	2	11	13	14	8	12	12	6	5	21	4	5	15	5	11	24	11	9	9
21	2	0	0	5	30	17	17	15	2	24	21	10	17	47	59	64	58	31	24	2	1	1	0	2	19
22	0	M	2	9	20	11	35	34	37	3	5	21	14	7	10	14	5	4	32	28	20	16	5	8	15
23	7	3	13	10	3	8	3	13	33	36	35	20	16	12	22	20	16	29	28	23	14	16	37	57	20
24	16	16	18	3	4	0	0	4	6	22	M	31	29	19	16	M	26	35	35	35	51	50	31	9	21
25	1	0	1	5	0	0	1	7	2	1	10	2	8	19	3	10	42	38	30	4	0	0	0	1	8
26	0	0	0	0	0	1	1	3	4	10	9	4	4	1	0	0	0	1	1	5	1	1	0	2	2
27	0	0	6	13	10	4	4	0	0	2	3	M	1	4	2	3	3	7	13	16	14	6	7	8	5
28	10	1	0	0	0	0	0	7	6	11	10	10	8	6	7	1	1	3	4	18	14	5	7	7	6
29	2	5	6	1	0	1	2	6	12	1	0	M	2	0	3	2	6	2	6	4	0	2	1	8	3
30	5	2	0	1	0	0	1	1	5	14	7	7	5	5	2	3	4	8	17	9	5	6	3	11	5
31	0	0	0	0	1	0	0	0	1	2	2	1	1	3	10	2	5	4	7	9	3	6	8	2	3

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	ABOVE OBJECTIVE	ABOVE OBJECTIVE	
11	10	18	10	45	62	75	89	0	-	121	2	-	55	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	12	10	3	5	3	5	5	4	2	3	5	6	6	6	5	3	6	3	5	8	1	3	5
2	3	3	3	5	5	6	14	22	21	8	10	5	6	5	5	5	6	5	5	5	12	1	6	5	7
3	6	5	4	2	8	15	17	5	6	11	8	7	8	4	8	12	5	11	5	3	4	6	4	4	7
4	2	2	3	3	1	2	1	3	7	4	5	6	7	5	3	11	4	10	9	7	1	0	0	0	4
5	2	0	0	2	5	6	3	3	20	23	M	4	3	0	7	M	M	0	0	0	0	0	0	1	4
6	0	1	0	0	0	1	1	6	5	4	3	1	2	1	1	2	2	3	3	3	3	3	4	2	2
7	4	6	11	14	6	12	4	4	8	7	6	4	4	7	17	M	1	1	4	1	0	2	4	11	6
8	5	3	6	3	3	4	5	8	9	6	10	6	9	4	2	3	8	4	11	9	6	5	5	1	6
9	4	3	6	8	5	4	4	2	1	5	4	7	5	1	5	2	6	5	5	3	4	2	3	5	4
10	4	4	3	5	4	4	2	4	2	7	6	8	5	1	1	1	1	3	3	4	4	3	8	11	4
11	12	72	4	2	0	2	4	22	33	15	6	7	12	6	1	1	1	3	4	2	1	1	1	5	9
12	2	2	3	1	1	1	1	1	5	2	1	2	2	20	33	11	5	2	2	2	2	2	0	0	4
13	0	1	0	0	0	0	1	2	1	1	1	1	1	1	M	M	0	0	0	0	1	0	0	0	1
14	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	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	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
17	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
18	0	0	0	0	0	0	0	0	1	3	3	4	8	9	4	M	M	0	0	0	0	1	0	3	2
19	2	3	6	7	13	18	2	1	2	2	10	9	17	6	13	7	5	5	6	11	6	11	14	15	8
20	18	18	20	20	19	20	19	18	25	22	38	34	25	24	24	20	25	29	26	30	23	19	17	3	22
21	1	0	1	2	1	3	1	0	1	1	1	1	1	0	2	1	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	0
23	0	0	0	0	0	0	0	1	10	4	1	1	0	3	5	4	4	2	3	5	7	7	6	4	3
24	4	2	7	2	2	2	3	1	4	5	4	3	4	3	3	6	4	3	3	2	1	3	3	2	3
25	2	3	0	0	1	2	2	1	3	2	6	7	3	2	3	3	2	1	3	2	2	2	2	1	2
26	1	0	2	0	1	3	4	3	2	3	M	0	0	0	0	0	0	0	0	0	0	0	0	4	1
27	1	0	2	1	0	0	0	0	2	1	1	5	0	0	0	3	2	1	3	2	1	2	0	2	1
28	0	0	0	0	0	0	1	0	3	0	2	0	2	1	0	1	3	4	3	0	0	3	0	2	1
29	0	2	1	0	0	1	6	2	4	1	1	0	0	1	3	1	1	0	2	5	7	6	5	4	2
30	6	1	8	5	7	8	9	22	9	9	16	5	3	0	4	0	0	0	0	0	0	0	1	2	5

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
4	2	4		2	9	17	23	26	0	-	72	0	-	22	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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
MONTH: JUNE

STATION : QUEEN MARY HOSPITAL
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2013
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	3	12	6	0	1	0	1	0	0	0	0	1	1	1	4	1	4	9	5	8	10	1	3	3
2	2	3	1	0	0	2	9	11	7	4	6	1	2	2	2	2	3	4	5	10	11	0	3	1	4
3	0	0	0	0	0	1	3	0	1	3	5	1	1	0	2	6	1	13	6	3	0	2	0	6	2
4	1	1	7	5	0	17	12	25	28	6	9	14	11	6	5	17	10	11	6	5	2	0	0	1	8
5	5	M	0	0	0	1	0	0	21	22	M	11	10	0	7	M	M	8	14	20	8	6	1	4	7
6	2	0	0	0	0	2	5	26	40	42	29	7	12	2	1	3	4	13	4	5	1	1	3	3	9
7	5	6	18	16	4	12	4	9	15	15	9	3	3	4	7	9	6	5	13	10	11	14	15	14	9
8	2	1	5	0	0	0	1	1	1	0	2	0	2	0	0	0	6	1	3	3	2	3	14	6	2
9	5	6	5	7	3	0	1	1	0	1	0	2	1	0	5	4	21	11	8	13	12	15	9	19	6
10	8	16	2	4	1	3	3	8	7	8	5	4	4	0	0	0	2	27	25	23	17	12	28	59	11
11	51	48	22	5	6	5	25	52	52	42	43	48	52	52	23	27	57	63	70	42	24	5	3	51	36
12	24	33	24	16	2	1	1	0	33	28	12	24	46	57	57	52	30	25	27	20	19	23	13	26	25
13	27	5	2	4	1	3	2	12	16	13	14	15	17	21	22	14	16	16	26	29	60	24	9	11	16
14	6	2	1	0	0	0	2	8	10	7	6	11	15	9	15	15	18	13	9	12	11	5	3	2	8
15	2	0	0	0	0	0	0	0	0	1	0	0	8	4	10	6	3	0	0	0	0	0	0	0	1
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	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	1	0
18	0	0	0	0	0	0	0	0	7	9	2	3	7	7	3	M	M	10	17	4	3	4	0	3	4
19	4	M	7	8	10	20	4	1	5	1	6	10	17	8	12	8	8	18	22	19	15	47	43	12	13
20	6	9	2	3	0	1	1	2	19	11	17	15	8	12	14	12	27	33	27	21	13	3	0	8	11
21	1	4	9	7	5	6	3	7	13	9	8	5	5	5	8	5	8	14	15	16	8	7	2	1	7
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	0
23	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	4	3	4	1	1	1
24	1	0	3	0	0	6	7	1	4	12	19	6	3	1	2	4	1	1	0	0	1	0	0	0	3
25	0	0	0	0	9	13	0	0	2	2	8	13	4	4	8	14	16	7	13	13	8	5	12	11	7
26	20	0	4	6	5	5	8	8	6	9	M	5	2	8	5	9	11	9	16	23	17	6	6	16	9
27	10	3	11	14	6	11	10	21	28	22	15	11	5	4	4	9	10	10	17	12	13	11	6	9	11
28	6	1	1	2	5	5	7	8	12	7	9	16	13	15	5	8	12	17	15	10	8	17	9	11	9
29	4	6	4	2	3	5	16	11	12	7	6	5	4	4	7	8	10	11	14	19	24	19	12	9	9
30	12	4	16	10	12	15	13	20	9	11	16	10	8	6	8	3	5	6	5	13	13	17	10	13	11

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
7	5	8		5	20	27	48	52	0	-	70	0	-	36	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	1	2	2	2	2	2	2	2	3	3	4	3	3	3	23	3	2	2	1	1	2	2	7	3
2	6	6	38	11	5	10	2	25	7	17	117	28	58	27	44	60	27	8	4	2	2	4	4	1	21
3	0	0	1	3	3	4	3	2	4	5	3	1	2	3	3	2	1	2	2	2	3	3	3	1	2
4	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	2	0	0	0	2	0
5	1	1	1	1	0	1	1	2	3	6	16	7	8	3	3	4	6	8	6	19	15	50	23	5	8
6	1	7	9	40	14	14	8	9	9	7	6	13	8	8	6	5	5	3	P	56	43	46	46	49	18
7	46	44	42	44	40	39	41	41	41	40	23	4	4	5	5	4	6	7	7	6	5	5	6	3	21
8	4	4	4	4	3	3	4	5	7	9	8	8	6	9	9	8	5	8	8	8	5	8	7	7	6
9	11	4	2	8	8	8	4	14	0	1	6	1	8	18	14	1	0	0	0	0	0	0	0	3	5
10	2	1	1	1	1	1	2	2	2	2	2	2	4	4	4	4	4	3	2	2	3	3	4	6	3
11	6	7	9	9	6	8	9	10	8	8	6	1	0	0	0	0	0	0	0	0	0	0	0	2	4
12	1	0	1	1	0	0	1	3	1	3	7	3	1	3	2	3	2	2	2	3	4	4	4	6	2
13	11	8	9	10	8	10	8	10	10	10	9	18	26	15	11	9	9	10	10	10	11	10	8	10	11
14	10	15	13	12	16	15	34	45	46	93	95	95	125	112	80	53	66	68	67	76	113	84	65	148	64
15	85	76	66	75	64	42	75	47	47	90	93	48	18	14	37	29	23	24	23	18	17	19	19	15	44
16	14	18	25	18	14	17	16	16	12	8	7	8	8	15	7	11	13	10	9	9	8	9	32	22	14
17	14	25	21	21	15	15	13	7	25	24	25	10	10	15	15	M	9	6	17	15	13	7	9	3	15
18	1	18	46	6	9	11	18	19	9	13	10	8	5	14	17	17	14	27	21	26	22	4	2	1	14
19	6	4	9	6	14	10	4	3	4	2	5	7	18	17	26	64	32	22	11	1	1	0	0	0	11
20	0	0	0	1	0	0	0	0	14	92	62	20	13	9	5	0	0	0	0	0	1	10	27	51	13
21	24	80	70	39	45	76	49	45	26	4	2	3	6	4	2	2	3	2	2	2	2	2	1	1	21
22	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
24	0	0	0	0	0	0	4	163	149	82	49	21	10	6	6	14	25	44	17	98	73	80	24	33	37
25	17	18	29	8	5	4	22	23	7	38	22	20	24	23	12	20	9	13	11	7	4	29	12	40	17
26	55	61	76	12	4	0	0	0	0	0	0	0	0	0	0	1	3	4	4	5	5	2	3	3	10
27	4	6	9	9	7	5	6	7	10	9	8	9	6	4	2	1	1	0	0	0	1	1	1	2	5
28	2	2	2	1	1	1	1	0	1	1	1	2	2	2	2	3	2	2	3	2	0	0	0	2	1
29	1	0	0	0	1	0	0	1	1	2	1	1	1	0	1	1	1	1	2	1	0	0	1	3	1
30	2	2	3	3	6	20	33	32	17	10	10	18	10	5	17	2	8	16	24	13	18	22	21	31	14

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
7	5	13		5	39	61	85	97	0	-	163	0	-	64	4	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	15	12	10	9	9	11	12	14	15	17	15	15	13	16	25	68	44	51	61	52	61	44	80	42	30
2	66	61	78	46	35	43	28	70	44	42	86	68	90	87	84	95	101	93	49	42	34	21	16	12	58
3	12	11	12	13	12	13	13	15	20	25	23	19	14	21	29	31	24	25	28	27	20	17	18	15	19
4	17	15	14	12	12	11	11	22	24	28	28	26	27	33	34	31	33	36	36	35	32	31	18	22	25
5	22	16	14	9	8	8	9	11	13	30	25	12	19	13	14	15	24	29	28	34	29	33	30	23	20
6	19	30	42	81	47	48	41	44	48	50	40	59	55	56	53	55	50	44	P	##	##	##	##	##	48
7	##	##	##	##	##	##	##	##	##	##	##	25	21	18	19	22	20	19	20	15	13	13	14	15	
8	16	14	14	12	14	14	18	24	31	33	41	31	26	36	57	43	38	62	50	55	39	50	52	53	34
9	47	25	20	39	47	57	50	57	47	73	94	77	62	69	62	39	42	29	24	23	23	25	19	34	45
10	37	M	31	21	17	16	24	31	42	42	48	36	39	47	56	54	73	61	68	61	45	17	21	17	39
11	20	17	15	15	14	18	21	37	43	52	57	75	61	79	82	70	87	78	69	71	57	43	26	20	47
12	27	35	32	31	23	22	33	62	72	84	76	67	51	39	38	23	26	35	39	25	19	27	20	22	39
13	22	17	17	15	20	23	22	54	44	43	28	44	63	43	25	17	19	43	41	39	33	41	37	33	33
14	56	82	72	75	76	58	100	100	99	140	142	154	177	145	99	76	89	92	92	101	156	97	68	166	105
15	104	103	132	136	119	64	101	98	103	181	121	60	22	17	34	29	29	33	28	20	17	17	19	15	67
16	15	17	26	24	12	15	33	25	34	19	23	29	29	19	12	14	18	15	15	13	13	18	31	25	21
17	19	28	24	26	24	25	26	19	25	30	28	21	20	28	26	M	21	15	23	16	27	15	15	19	23
18	13	30	45	18	18	18	24	23	11	16	21	18	15	21	29	25	26	30	24	29	25	16	14	12	22
19	19	15	17	16	22	17	13	17	17	15	15	19	20	20	25	31	24	26	20	15	26	21	17	19	19
20	18	16	13	11	12	15	25	35	50	76	65	52	33	40	33	11	8	13	15	32	70	76	89	84	37
21	80	85	81	75	68	71	64	64	43	17	19	20	17	11	12	11	15	13	14	13	12	11	10	14	35
22	13	11	10	10	10	10	11	15	16	15	15	16	16	16	18	18	19	19	14	13	13	14	13	16	14
23	13	13	11	10	10	11	19	28	34	35	M	19	12	7	9	8	7	8	8	9	7	8	8	41	15
24	32	M	13	14	15	13	40	76	82	65	52	26	19	12	10	18	23	48	34	46	42	66	40	50	36
25	41	34	37	13	12	17	29	28	16	32	32	21	23	20	19	23	19	24	23	15	32	69	34	72	29
26	80	84	79	60	38	18	12	31	31	26	23	23	13	11	14	19	31	27	27	21	18	18	18	21	31
27	17	17	17	16	15	14	17	24	26	33	28	27	21	24	33	41	41	37	23	26	23	17	20	19	24
28	20	15	12	11	12	12	14	15	14	15	20	16	15	13	16	19	17	14	18	17	15	12	12	13	15
29	12	10	9	6	8	6	6	9	10	10	10	8	7	8	9	9	10	11	11	9	8	7	8	10	9
30	9	8	8	9	12	25	35	28	21	15	9	14	10	12	28	25	42	62	74	52	76	73	66	82	33

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
26	23	33		23	72	85	103	140	6	-	181	9	-	105	2	97	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE

2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

REMARKS: ##: DATA WAS INVALIDATED DUE TO INTERFERENCE FROM UNKNOWN LOCALIZED SOURCES

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

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

MONTH: MAY

YEAR : 2013
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	29	43	30	35	29	29	20	18	21	43	47	42	1	0	0	1	0	0	0	0	1	2	5	5	17
2	4	3	2	0	0	0	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
3	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
4	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
5	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
6	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
7	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
8	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
9	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
10	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
11	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
12	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
13	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
14	##	##	##	##	##	##	##	##	##	##	##	##	0	1	1	0	0	0	0	1	1	1	0	0	0
15	0	0	2	1	5	9	22	17	35	24	21	9	7	2	9	18	13	19	24	17	14	11	12	14	13
16	14	16	8	9	8	5	6	5	8	7	6	6	3	4	5	5	4	13	9	14	12	4	4	6	8
17	7	11	5	2	5	18	58	53	59	53	22	6	6	3	10	4	1	3	13	8	8	51	26	2	18
18	4	0	17	17	17	16	18	11	4	1	3	6	11	5	4	5	7	2	7	6	12	5	3	11	8
19	7	5	9	7	5	15	12	14	10	7	6	5	2	11	6	13	8	17	3	10	8	34	9	20	10
20	14	8	19	6	6	15	10	6	4	7	10	12	5	0	5	6	10	4	13	8	4	11	5	1	8
21	1	3	2	29	15	5	1	3	2	3	26	13	0	0	21	35	7	7	1	1	1	3	1	6	8
22	5	5	9	10	0	1	18	18	6	1	15	16	7	4	18	14	M	M	24	17	19	16	3	7	11
23	12	8	45	18	14	5	4	3	1	1	M	M	0	2	7	9	7	7	17	4	3	3	7	25	9
24	13	17	25	18	10	12	28	57	31	63	M	M	M	48	24	M	19	43	37	20	14	43	14	7	27
25	1	0	6	2	0	1	0	2	2	0	0	0	0	1	0	0	0	0	1	2	0	0	0	12	1
26	1	0	1	1	0	1	3	15	14	13	8	9	8	7	2	9	4	6	5	7	1	5	3	6	5
27	10	3	6	4	2	3	9	9	8	8	7	5	4	2	1	5	8	14	9	23	21	11	17	10	8
28	4	3	3	0	2	11	27	8	16	6	16	19	12	7	17	3	1	7	5	18	15	13	12	17	10
29	12	28	22	26	17	11	7	13	25	15	20	19	22	13	34	24	15	15	4	18	10	12	12	38	18
30	24	6	6	14	16	11	6	4	10	23	24	41	25	20	5	7	12	10	3	6	2	6	9	18	13
31	14	18	20	15	23	13	17	14	20	11	9	53	15	28	21	6	4	11	27	9	12	13	10	8	16

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN 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	24	34	47	53	0	-	63	1	-	27	-	59	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE

2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350
REMARKS: ##: DATA WAS INVALIDATED DUE TO MALFUNCTION OF EQUIPMENT

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

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2013
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	79	75	58	64	59	61	57	56	56	73	70	46	8	7	8	9	7	6	8	6	4	6	6	13	35
2	13	11	11	12	12	15	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
3	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
4	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
5	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
6	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
7	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
8	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
9	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
10	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
11	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
12	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
13	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##	##
14	##	##	##	##	##	##	##	##	##	##	##	##	##	11	11	10	10	13	10	7	7	7	5	3	1
15	1	0	6	4	8	12	21	21	24	19	22	12	10	5	13	29	20	20	31	19	22	14	12	11	15
16	14	13	5	4	3	4	3	5	8	6	6	6	1	3	14	22	26	37	29	28	26	19	6	54	14
17	60	64	31	10	10	33	48	60	63	55	47	19	17	5	14	6	5	27	74	89	92	82	65	9	41
18	13	2	26	22	24	32	30	20	17	8	10	17	20	19	16	18	18	15	15	11	20	8	5	15	17
19	9	8	6	6	4	17	14	14	11	11	8	10	5	15	8	17	11	17	5	11	14	31	13	20	12
20	11	7	20	3	5	15	15	14	4	9	12	12	7	12	14	9	12	13	19	12	17	27	11	40	13
21	32	38	22	46	22	17	6	8	14	22	38	23	14	35	55	46	30	38	20	12	10	3	4	13	24
22	18	M	13	18	23	16	46	60	60	33	58	49	26	22	33	40	M	M	37	31	25	18	8	26	31
23	23	14	49	23	18	28	54	20	8	9	M	M	5	7	9	15	14	17	30	14	15	55	60	36	24
24	36	40	40	25	18	20	36	39	24	45	47	M	M	45	23	M	26	45	46	25	36	63	19	20	34
25	6	4	21	7	5	7	4	21	16	24	18	14	29	32	12	18	15	9	10	9	5	2	4	11	13
26	3	0	8	4	3	9	11	14	15	16	9	8	11	7	5	8	5	7	10	8	1	6	3	6	7
27	8	4	5	8	5	9	25	20	29	24	25	25	29	21	26	24	21	28	23	33	22	18	24	3	19
28	5	3	2	0	1	5	16	7	7	4	13	14	7	4	10	3	1	5	11	19	15	7	11	14	8
29	6	19	14	12	7	6	6	7	10	14	M	5	3	0	8	7	8	9	1	5	3	3	3	21	8
30	11	4	4	8	11	10	6	8	4	8	9	21	15	13	19	12	14	12	10	7	13	17	12	8	11
31	18	26	21	15	24	15	16	15	10	11	15	27	15	23	25	20	14	15	26	14	11	13	11	7	17

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR				
-	14	-	14	40	57	64	75	0	-	92	7	-	41	-	59	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE

2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150
REMARKS: ##: DATA WAS INVALIDATED DUE TO MALFUNCTION OF EQUIPMENT

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

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2013
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	7	41	34	24	7	6	21	14	8	2	6	10	7	17	11	16	7	9	5	3	7	8	10	12
2	7	7	2	1	7	15	8	19	12	9	4	5	4	3	1	11	8	11	11	15	10	2	11	22	9
3	5	2	7	3	3	19	11	9	11	23	14	10	20	7	8	28	20	10	8	10	4	17	6	16	11
4	10	22	22	7	0	1	0	0	2	2	4	7	5	8	7	11	5	10	9	6	0	5	5	4	6
5	0	0	0	2	4	4	2	3	3	25	2	1	0	0	2	10	1	0	0	0	0	0	0	2	3
6	0	0	0	0	0	0	0	12	4	1	1	2	0	0	0	0	0	0	0	0	0	2	3	9	1
7	8	5	18	10	7	17	15	33	11	10	8	M	M	0	14	11	5	9	8	3	5	13	9	12	11
8	8	2	6	5	5	1	17	16	11	5	11	3	8	4	0	4	7	5	4	10	7	2	9	8	7
9	2	2	5	17	15	7	14	10	15	21	9	9	8	4	6	3	6	15	16	11	15	9	23	28	11
10	9	16	9	14	14	9	12	11	15	25	3	4	5	1	4	16	9	12	23	7	6	4	2	8	10
11	7	19	9	0	7	22	27	43	34	2	3	6	7	4	0	0	2	3	2	4	2	2	0	6	9
12	1	4	5	0	0	0	0	1	7	20	2	5	32	63	43	27	6	0	0	0	1	0	0	0	9
13	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
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	0
15	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
17	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0
18	3	3	1	0	1	0	0	0	2	1	4	23	10	14	5	9	5	3	2	0	0	2	0	4	4
19	6	2	11	13	22	44	2	7	7	6	7	21	16	11	12	7	10	7	12	14	23	46	37	19	15
20	9	28	47	22	26	8	14	3	18	37	28	36	10	11	17	3	15	6	20	8	7	2	0	10	16
21	1	1	2	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	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	1	0
23	0	0	0	0	0	0	0	1	15	12	1	1	1	11	11	9	3	6	8	5	14	12	9	7	5
24	2	6	8	2	2	8	5	4	3	2	4	6	11	16	6	9	2	7	15	2	0	6	5	6	6
25	6	8	1	1	0	8	3	9	4	5	8	5	2	1	2	2	0	0	9	8	1	4	9	6	4
26	2	3	10	2	6	2	6	5	5	12	5	3	1	2	2	M	5	4	3	14	3	2	0	6	4
27	4	2	3	3	0	0	0	0	0	0	1	2	1	0	1	3	3	0	1	7	0	0	0	3	1
28	0	1	1	0	2	0	5	1	3	2	0	2	3	2	1	6	4	7	1	3	1	3	1	5	2
29	0	4	1	0	4	4	6	2	5	1	2	0	3	8	9	3	2	0	2	7	14	6	5	13	4
30	4	0	7	4	3	4	12	2	7	2	3	1	0	0	0	0	0	0	0	0	0	0	0	6	2

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
5	2	5		2	15	21	28	37	0	-	63	0	-	16	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	13	11	34	24	22	15	16	19	14	13	15	17	14	11	19	13	19	18	9	9	11	13	15	12	16
2	10	13	5	6	16	20	10	14	12	13	5	13	7	9	5	16	15	16	17	20	16	5	12	20	12
3	11	7	11	5	4	15	12	17	11	22	27	21	22	20	29	38	38	24	19	22	16	24	12	17	19
4	13	24	23	16	1	13	27	18	28	9	8	10	8	10	6	14	5	16	16	10	18	39	33	13	16
5	17	M	8	9	11	10	14	10	9	24	22	5	0	2	6	26	33	9	6	10	34	21	6	7	13
6	3	3	2	3	6	13	31	37	32	54	60	36	7	3	1	1	2	1	5	8	7	8	8	13	14
7	18	12	24	16	13	18	18	18	13	14	15	M	M	8	17	14	8	10	12	8	11	15	10	19	14
8	12	6	14	16	13	9	22	19	16	16	19	14	13	14	8	13	12	16	14	12	12	10	13	14	14
9	15	8	9	22	20	16	23	15	17	17	13	14	13	10	13	11	14	25	21	28	23	13	25	25	17
10	10	22	16	22	24	14	24	21	24	24	14	16	23	19	37	50	34	43	56	66	65	62	55	65	34
11	58	52	36	17	38	59	63	65	58	39	53	57	62	68	77	76	89	86	80	81	71	64	44	71	61
12	51	52	55	23	22	22	27	33	39	60	54	51	65	75	81	70	51	38	41	43	41	36	36	47	46
13	38	20	12	17	14	15	28	37	31	30	34	33	29	35	34	28	31	35	48	46	46	38	24	15	30
14	10	7	6	4	5	6	9	13	18	25	24	29	30	36	34	22	11	5	6	4	6	5	5	6	14
15	5	3	1	1	1	3	2	4	6	9	26	17	9	6	9	4	5	5	5	4	3	3	3	4	6
16	5	2	2	2	2	4	3	3	2	3	5	5	4	4	2	2	11	2	3	3	4	4	8	9	4
17	6	3	4	6	4	5	5	5	2	2	2	2	3	5	4	4	4	5	5	9	4	5	8	4	4
18	9	9	5	3	6	6	13	14	11	6	9	14	10	13	8	10	9	7	9	5	6	8	5	7	8
19	13	M	21	21	25	38	18	19	11	17	17	19	20	22	23	19	31	30	29	25	28	29	37	30	24
20	22	29	39	30	26	19	23	12	16	26	26	39	31	37	36	20	22	16	29	20	16	9	7	18	24
21	9	9	8	6	10	12	14	14	14	12	13	10	8	8	8	5	5	7	5	5	5	4	3	5	8
22	3	3	2	3	2	4	4	5	5	5	3	3	4	7	5	3	4	5	3	4	3	3	2	5	4
23	4	4	4	3	1	6	9	8	20	17	7	6	6	9	9	10	8	9	10	12	20	13	13	13	9
24	6	10	15	6	4	10	11	16	11	10	16	26	17	18	12	22	12	15	16	8	4	10	9	8	12
25	8	11	3	3	2	9	14	18	16	20	17	10	7	5	6	9	6	6	14	18	8	12	16	6	10
26	4	6	8	6	8	7	21	12	17	19	14	15	14	15	17	25	31	24	19	30	16	16	11	12	15
27	11	4	13	6	5	4	8	6	10	10	9	9	9	10	16	19	20	16	12	17	15	2	7	10	10
28	6	4	6	2	7	8	5	9	6	7	5	11	11	12	10	17	22	16	7	7	9	8	10	11	9
29	4	14	6	5	6	11	17	11	12	7	13	7	12	16	17	15	13	10	12	14	23	18	14	17	12
30	12	6	17	9	14	14	16	11	11	7	9	5	5	2	3	4	4	5	5	7	8	11	5	8	8

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
11	12	16		12	35	51	65	74	0	-	89	4	-	61	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	6	10	9	9	4	4	4	9	9	9	3	3	3	5	7	6	6	5	5	7	8	13	7
2	16	20	19	17	14	14	18	20	17	22	30	18	13	9	18	15	5	9	11	7	10	8	5	3	14
3	2	2	3	4	4	5	5	5	9	6	4	6	4	5	7	5	3	2	2	3	3	4	4	3	4
4	4	4	3	2	3	2	2	2	5	5	4	4	2	7	4	2	3	3	4	3	3	4	3	2	3
5	2	2	3	5	6	4	3	4	9	9	4	3	4	4	4	4	1	1	2	2	1	1	1	1	3
6	0	3	7	2	7	12	20	18	20	16	12	11	8	7	10	8	5	3	3	4	2	3	3	3	8
7	2	2	2	2	2	4	4	5	6	6	14	12	11	10	9	7	7	6	11	12	10	7	8	6	7
8	10	11	7	8	9	8	13	13	15	16	16	13	16	15	13	12	10	11	15	12	9	11	13	11	12
9	16	9	6	2	1	3	3	6	13	6	2	2	6	16	13	9	3	4	2	1	1	0	1	1	5
10	3	3	1	4	6	8	6	14	14	15	11	6	10	15	8	7	10	3	6	7	15	8	7	6	8
11	6	8	10	11	13	12	14	16	13	14	12	3	2	2	6	7	7	9	9	6	8	7	5	4	9
12	4	2	2	3	6	11	8	3	3	5	6	12	16	16	17	9	4	4	3	4	3	5	5	5	7
13	12	13	10	9	13	19	17	22	20	19	16	21	15	12	12	9	9	8	9	8	9	10	15	11	13
14	10	11	13	11	10	12	19	23	21	22	31	31	35	43	47	52	53	58	45	38	31	28	21	21	29
15	20	17	17	20	23	42	72	60	84	78	59	45	42	33	41	31	23	23	22	21	28	30	32	31	37
16	26	28	24	19	20	17	20	24	28	36	38	31	21	21	18	14	22	20	16	12	15	14	13	13	21
17	15	19	17	10	7	7	12	4	5	7	6	5	4	5	4	3	1	2	2	1	3	4	2	4	6
18	3	2	1	2	4	3	1	2	2	3	6	10	10	8	6	7	5	4	3	1	2	2	3	3	4
19	2	1	2	2	1	2	3	4	3	6	9	9	8	7	10	12	6	6	15	10	4	3	1	3	5
20	1	2	2	2	3	3	6	9	12	13	20	22	14	7	8	3	4	5	9	16	21	21	12	8	9
21	14	8	13	15	7	4	6	6	8	20	5	3	3	2	3	2	3	2	3	3	2	2	1	2	6
22	2	2	2	1	2	2	2	2	3	3	3	4	4	3	3	4	3	2	1	2	4	3	3	2	3
23	1	1	1	1	2	3	3	6	7	10	12	12	10	13	5	4	5	3	3	3	2	1	3	8	5
24	5	7	7	7	9	10	17	26	25	23	18	44	53	32	20	19	16	31	27	25	24	18	12	8	20
25	6	4	4	3	6	10	11	14	12	16	17	17	16	14	17	7	8	5	4	6	4	4	3	5	9
26	5	6	5	4	4	11	5	5	4	5	4	2	0	1	0	1	4	5	5	6	6	5	6	5	4
27	5	8	10	9	8	7	7	8	9	10	11	11	14	18	11	9	11	7	7	7	6	5	6	4	9
28	3	3	4	3	3	3	4	7	4	3	5	4	3	4	6	5	5	3	4	3	2	5	2	5	4
29	3	4	2	3	3	2	2	3	3	4	5	6	6	2	3	7	3	3	3	3	3	3	3	5	4
30	5	7	8	14	18	12	7	6	7	5	4	7	7	4	5	0	1	0	0	1	3	2	2	5	5

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
6	6	9		6	20	28	42	53	0	-	84	3	-	37	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	19	14	14	24	21	16	10	10	13	24	19	12	3	4	12	33	37	32	26	21	19	17	35	53	20
2	79	89	80	62	61	52	64	76	70	57	71	86	76	65	94	90	70	73	50	70	83	64	16	4	67
3	6	12	15	11	10	14	18	18	22	22	15	20	11	19	28	39	16	8	13	18	10	14	16	15	16
4	23	21	17	19	23	11	13	20	39	26	30	26	17	55	28	8	11	16	23	13	10	23	18	6	21
5	10	11	12	26	29	16	8	12	26	28	12	6	10	8	6	16	11	10	26	30	8	16	20	5	15
6	17	24	38	13	32	44	38	36	44	36	26	35	26	23	21	21	20	18	19	16	13	13	12	20	25
7	12	10	7	7	7	11	9	16	23	52	55	44	33	16	25	23	17	14	13	13	11	7	8	11	19
8	16	14	7	12	12	16	20	20	26	52	45	41	39	77	70	63	25	80	106	83	43	64	75	85	45
9	73	53	46	27	31	48	37	51	71	59	50	54	57	76	82	66	20	60	17	11	23	10	13	13	44
10	34	M	14	19	29	34	32	53	49	65	53	51	54	58	57	51	68	63	79	77	83	41	12	16	47
11	13	9	9	8	13	23	26	46	40	73	69	39	38	38	69	73	69	78	83	79	89	76	69	65	50
12	52	33	30	33	52	60	43	30	37	41	37	56	65	69	69	30	7	16	20	15	10	18	12	11	35
13	18	18	35	20	36	61	55	68	80	71	33	33	39	27	20	17	15	13	19	12	14	17	19	28	32
14	67	103	62	20	19	43	92	99	83	66	75	79	79	91	85	60	58	78	79	91	86	69	123	95	75
15	89	60	41	43	77	119	179	116	134	120	82	46	43	36	56	43	30	33	38	27	27	41	68	56	67
16	21	23	87	50	19	16	68	48	86	117	109	83	34	45	21	15	28	44	25	23	35	55	15	43	46
17	31	38	38	11	6	6	37	2	4	27	4	4	7	6	5	1	2	2	2	2	13	26	1	27	13
18	7	12	1	5	18	4	3	7	2	1	3	12	10	15	32	40	43	31	1	18	2	9	12	12	12
19	8	6	5	9	3	8	10	7	4	23	18	9	1	1	3	10	7	15	31	19	5	7	0	7	9
20	1	3	6	3	4	18	36	52	53	51	58	52	50	49	14	4	6	12	44	93	104	103	86	73	41
21	86	71	78	73	49	31	34	31	30	36	16	15	15	14	8	13	22	15	18	15	10	10	7	6	29
22	8	11	10	12	12	17	20	18	21	16	17	20	21	22	23	24	19	12	10	11	18	14	15	10	16
23	10	9	13	15	16	22	23	48	61	80	71	59	35	46	8	6	8	7	19	23	8	5	31	75	29
24	40	M	72	65	47	46	69	71	71	66	44	39	43	31	20	24	22	43	57	54	53	68	60	45	50
25	25	6	19	12	51	54	53	52	35	37	17	10	9	15	17	8	10	9	19	34	39	49	43	22	27
26	51	73	73	63	47	58	22	36	20	16	16	9	5	5	14	18	23	23	12	16	24	15	23	25	29
27	14	20	19	19	25	11	10	13	14	16	22	24	25	35	55	39	68	42	23	16	16	17	22	17	24
28	22	26	30	13	15	12	14	44	18	17	16	13	14	18	23	17	17	15	22	22	14	39	12	12	19
29	4	4	5	9	4	0	1	2	1	2	4	3	4	0	2	8	1	3	4	6	4	3	3	17	4
30	14	18	21	38	46	31	20	3	5	16	7	5	3	4	10	16	23	5	10	12	31	19	17	37	17

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
21	21	31		21	71	83	94	108	0	-	179	4	-	75	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2013
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	16	23	26	28	21	20	18	14	10	9	21	8	1	0	1	1	0	0	1	1	2	2	5	10
2	6	6	5	3	3	5	4	6	6	6	6	5	3	3	2	3	4	2	2	2	2	2	2	2	4
3	2	4	4	2	3	4	4	7	10	9	10	11	6	2	3	2	2	2	3	4	3	3	4	2	4
4	3	4	6	8	7	5	9	10	9	7	15	22	14	11	11	8	7	10	8	6	6	4	3	2	8
5	2	4	2	4	2	3	5	7	4	5	5	8	7	7	9	4	2	2	4	4	3	2	1	3	4
6	3	3	3	4	3	5	5	4	5	4	9	8	8	9	6	5	4	8	9	9	10	9	9	5	6
7	4	3	3	1	2	2	6	9	10	4	7	11	5	6	5	5	3	3	2	2	4	5	5	9	5
8	7	6	3	2	3	3	4	4	3	5	3	2	5	2	3	3	3	3	2	2	2	1	1	1	3
9	1	1	1	2	3	5	6	11	19	21	14	10	8	11	18	20	18	12	6	3	3	3	6	11	9
10	11	10	11	14	16	17	20	18	14	17	24	27	32	20	13	6	4	2	2	3	3	1	2	2	12
11	2	2	1	4	4	6	6	7	16	28	27	20	19	18	20	22	20	18	19	21	24	24	39	39	17
12	34	25	24	36	36	26	23	21	26	22	20	13	8	4	5	10	16	20	9	6	9	4	3	2	17
13	1	2	3	4	8	10	11	21	20	14	8	9	11	7	22	36	22	18	22	17	21	18	14	14	
14	13	11	12	12	12	15	9	9	11	8	7	3	4	5	8	9	11	7	5	12	10	11	6	6	9
15	5	8	9	9	15	13	6	6	6	7	5	8	3	13	12	3	3	4	4	3	4	4	5	2	7
16	1	1	1	1	2	2	2	4	8	13	13	13	4	4	1	1	1	2	2	3	2	2	2	5	4
17	6	6	5	6	7	6	12	21	20	18	25	22	18	12	9	9	6	10	6	14	19	15	15	10	12
18	13	11	8	8	7	5	3	2	3	6	11	10	4	6	10	8	11	5	2	1	2	2	3	4	6
19	6	5	4	4	4	4	3	6	7	4	5	7	9	3	3	3	2	1	1	3	2	1	1	1	4
20	1	5	4	1	1	2	2	3	6	10	9	8	2	3	3	2	6	2	2	2	2	0	1	3	3
21	4	18	17	16	2	1	0	1	4	7	10	5	0	2	6	10	9	16	13	11	12	6	6	5	8
22	7	6	4	0	0	0	0	0	0	0	0	0	0	2	1	1	1	0	1	1	0	0	0	1	1
23	0	1	1	1	2	3	9	39	28	23	11	7	10	16	10	13	17	10	3	1	2	4	6	3	9
24	3	3	3	3	3	4	7	12	7	6	9	9	6	11	4	3	5	2	2	3	3	5	5	20	6
25	15	9	3	0	0	2	5	5	14	11	2	1	6	3	2	2	2	6	5	6	3	5	11	10	5
26	8	6	3	4	4	2	2	3	2	2	2	3	3	3	2	1	3	2	2	1	1	2	1	1	3
27	1	1	1	0	3	2	4	6	4	4	6	14	8	10	6	6	12	4	4	3	3	3	2	3	5
28	2	2	3	2	2	3	7	8	12	9	8	5	2	10	9	10	9	5	1	2	2	4	5	5	5
29	4	4	2	2	2	2	3	5	10	13	15	M	M	6	8	6	3	3	1	0	1	1	1	4	4
30	5	5	5	6	7	8	14	27	28	8	18	21	11	8	6	6	5	3	0	1	4	5	6	6	9
31	7	10	4	4	4	5	7	11	8	7	9	8	4	3	6	4	5	2	1	0	1	1	1	2	5

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
5	5	7		5	17	21	26	30	0	-	39	1	-	17	100	0	0	

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	34	56	67	66	60	59	62	46	37	47	32	56	16	0	4	10	6	9	6	4	9	3	1	14	29	
2	15	18	9	2	8	15	23	33	29	22	10	13	8	8	13	21	30	24	28	24	18	36	24	12	18	
3	7	16	12	7	17	14	18	38	53	35	20	43	36	21	45	58	66	60	79	93	81	78	91	15	42	
4	18	14	29	22	16	16	34	39	38	53	75	76	59	31	41	22	19	27	41	15	24	17	16	6	31	
5	9	26	8	17	7	9	40	45	10	25	18	34	28	23	37	12	9	10	18	27	13	7	5	17	19	
6	15	17	12	17	11	14	14	10	14	12	45	48	38	50	45	17	17	75	88	27	20	22	28	7	28	
7	4	6	5	1	1	2	29	47	32	4	14	36	11	1	4	5	8	16	14	5	14	15	18	29	13	
8	24	M	15	10	17	9	11	13	7	12	12	7	14	9	9	8	12	7	7	6	9	4	9	13	11	
9	13	9	5	9	15	27	28	34	48	39	34	18	6	9	14	22	26	29	13	7	9	7	30	50	21	
10	55	37	36	44	47	43	41	31	26	31	31	19	26	38	30	45	38	13	30	43	26	9	29	14	33	
11	48	10	9	19	46	56	45	29	39	41	45	24	24	31	48	31	50	57	52	62	109	88	128	114	50	
12	93	33	62	67	69	55	51	53	44	45	38	19	12	3	14	48	81	82	64	40	25		4	6	44	
13	7	6	13	8	24	50	49	48	46	33	9	15	9	13	11	22	41	33	37	35	23	37	28	19	26	
14	16	26	37	29	26	43	19	11	13	8	11	6	3	2	5	8	18	11	4	25	21	19	3	6	15	
15	4	14	20	15	35	30	10	1	1	3	5	13	1	23	20	4	0	4	2	2	6	10	5	4	10	
16	1	3	0	2	3	3	6	7	17	25	25	27	4	11	8	15	12	8	11	15	8	28	13	38	12	
17	52	44	32	48	34	28	59	71	64	62	60	38	28	33	31	19	12	43	40	89	92	73	45	35	47	
18	34	30	26	25	27	26	0	0	3	8	14	10	0	5	11	4	14	3	0	0	0	0	0	0	6	10
19	13	6	3	6	6	8	2	7	4	0	1	2	1	1	1	1	1	0	1	1	7	5	18	7	4	
20	2	19	10	0	1	6	2	4	13	20	19	12	0	3	5	0	5	2	1	0	18	7	8	36	8	
21	35	66	64	62	2	0	0	0	5	25	13	12	10	10	29	24	12	27	28	38	34	7	6	25	22	
22	57	M	39	0	0	2	0	0	22	20	31	17	13	14	7	11	14	3	7	1	0	0	0	2	11	
23	2	1	4	5	15	32	33	45	36	44	10	5	11	11	8	16	30	21	8	2	3	30	42	36	19	
24	36	22	12	2	14	8	23	22	8	2	7	4	1	3	0	0	2	0	0	12	27	61	14	52	14	
25	40	22	7	3	8	23	31	34	51	64	23	25	46	26	2	1	2	10	9	15	4	14	43	17	22	
26	15	11	2	6	9	2	2	1	0	2	2	1	0	0	0	0	0	1	2	0	0	5	1	0	3	
27	0	0	0	1	3	1	2	1	8	5	6	25	2	18	8	6	19	6	14	8	7	4	5	1	6	
28	0	0	0	0	0	6	21	15	24	8	5	2	0	14	14	10	15	7	1	3	4	7	7	8	7	
29	3	4	1	6	7	6	7	9	23	34	29	M	M	5	4	3	7	3	3	4	4	3	2	25	9	
30	22	23	21	20	25	25	22	18	20	4	7	7	2	7	5	4	4	1	3	4	13	16	24	27	14	
31	31	33	21	20	20	22	17	16	6	5	9	7	1	4	8	6	8	1	3	1	2	2	0	25	11	

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	1-HR	24-HR	
13	13	20	13	46	60	76	89	0	-	128	3	-	50	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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: JUNE

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2013
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	3	2	2	5	4	6	12	16	14	1	10	11	12	4	2	1	1	1	2	1	1	5
2	1	2	1	0	1	1	0	1	2	0	0	1	2	2	3	3	1	0	0	1	0	0	0	0	1
3	0	0	0	0	0	0	1	2	3	5	12	10	1	8	13	6	5	0	0	0	0	0	0	0	3
4	1	2	3	4	1	0	1	5	3	2	10	11	17	27	22	10	6	3	3	1	2	5	5	9	6
5	7	6	6	5	4	4	7	6	1	2	4	6	2	3	0	1	2	1	3	6	4	3	2	4	4
6	3	3	3	2	1	1	1	0	1	4	11	14	13	14	18	19	15	8	6	8	5	9	14	5	7
7	1	1	0	0	1	1	1	3	5	7	7	6	4	5	4	5	1	1	0	0	0	0	0	1	2
8	1	1	3	2	2	0	1	4	6	3	3	4	3	2	2	4	2	2	1	1	0	1	0	1	2
9	1	1	1	0	0	1	2	2	3	2	3	3	3	1	1	2	1	1	2	3	2	1	2	3	2
10	2	2	2	2	2	2	3	3	6	6	11	3	0	3	5	4	5	6	7	10	12	18	11	10	6
11	5	6	1	0	0	0	2	1	3	3	2	2	1	0	0	0	0	0	0	0	0	0	0	1	1
12	0	0	0	0	0	0	0	1	2	0	1	4	4	2	2	3	1	4	7	3	3	1	1	4	2
13	3	7	4	6	3	1	2	4	7	5	4	4	2	4	5	2	6	5	8	10	6	11	6	7	5
14	5	6	3	2	1	2	2	3	6	11	9	13	8	5	4	5	3	5	5	3	3	2	3	2	5
15	0	0	1	1	0	0	0	0	0	1	2	5	2	0	0	3	1	1	T	T	T	T	T	T	1
16	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
17	T	T	T	T	T	T	T	T	T	T	T	3	1	3	0	0	2	1	2	2	4	4	3	5	
18	6	8	10	8	6	5	8	12	11	11	15	7	11	17	12	8	9	7	3	3	5	4	7	6	8
19	7	6	6	4	2	2	2	4	7	7	5	3	4	10	11	11	11	4	3	1	3	3	2	2	5
20	2	3	3	1	2	2	2	4	4	4	10	7	4	6	13	12	9	4	2	2	2	3	2	7	5
21	5	7	6	6	5	6	9	13	14	12	10	11	7	2	2	2	2	1	2	1	1	2	0	1	5
22	1	1	1	2	1	0	1	0	1	1	1	2	2	0	1	3	1	1	0	0	0	0	0	0	1
23	0	0	1	1	1	1	2	1	1	2	4	5	0	1	1	0	0	0	0	0	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	1	4	2	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	1	1	3	1	2	4	0	0	0	0	0	0	1	0	0	1
27	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	2	1	1	2	3	1	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	2	1	3	7	2	4	8	4	3	0	2	4	2	3	4	2

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	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	2	3		2	8	11	14	16	0	-	27	0	-	8	2	94	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 : 2013
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	13	14	9	7	9	22	5	17	32	29	20	0	16	19	19	5	0	1	1	1	1	0	0	10
2	1	1	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0
3	1	0	0	0	0	2	4	0	4	12	30	20	0	15	22	9	13	3	0	0	0	0	0	0	6
4	14	20	24	16	1	0	2	5	4	0	0	1	9	14	10	5	1	0	1	0	11	34	32	43	10
5	36	M	30	27	16	22	26	21	14	2	9	4	0	3	0	2	12	2	7	14	28	24	6	10	14
6	7	2	3	5	14	5	9	5	18	19	43	38	24	17	16	12	10	3	4	18	7	18	35	12	14
7	2	1	0	0	3	5	5	9	16	14	14	7	0	5	4	5	2	0	1	0	0	3	5	1	4
8	4	0	1	3	3	0	5	2	4	3	0	1	0	1	5	3	7	6	4	4	1	4	1	9	3
9	8	1	2	0	0	4	8	6	5	1	0	1	1	0	0	1	1	0	2	11	5	3	8	4	3
10	5	3	0	1	2	2	6	2	7	7	13	3	1	17	15	14	33	32	44	55	59	61	51	54	20
11	51	51	14	5	15	15	36	26	29	37	44	35	28	31	34	28	32	29	19	17	15	14	11	18	26
12	19	15	17	14	12	9	13	15	21	30	29	31	30	22	19	28	21	35	60	26	24	18	20	33	23
13	30	28	22	25	16	8	16	22	31	38	42	43	33	32	38	47	46	39	66	66	60	55	43	45	37
14	34	23	3	0	1	9	3	10	30	45	36	45	45	56	54	57	35	28	26	16	17	21	15	8	26
15	4	2	3	5	1	1	0	4	4	14	10	31	8	4	6	8	1	3	T	T	T	T	T	T	6
16	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
17	T	T	T	T	T	T	T	T	T	T	0	0	2	0	2	0	0	1	2	11	5	7	9		
18	8	14	17	15	8	10	23	11	7	5	4	0	2	8	0	1	4	2	8	3	6	5	7	14	8
19	16	M	21	14	7	8	6	11	15	11	2	1	1	10	14	23	17	3	8	1	3	4	5	11	9
20	16	7	7	4	5	2	7	9	12	10	15	14	4	14	32	12	14	3	2	5	2	5	0	13	9
21	8	16	11	13	8	27	23	18	18	32	30	26	20	7	5	11	12	8	17	13	23	26	6	1	16
22	1	0	0	0	0	0	3	1	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0
23	3	2	4	0	1	4	8	2	0	0	3	0	0	0	0	0	0	0	1	1	0	0	0	0	1
24	0	0	0	0	0	2	0	0	1	6	16	23	20	2	0	0	1	0	0	0	1	0	0	0	3
25	0	0	0	0	0	0	0	0	0	3	3	4	0	2	2	1	0	0	0	0	1	0	1	0	1
26	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0
27	0	0	0	0	1	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	4	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
29	0	0	0	0	1	1	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	4	0

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
7	3	9		3	28	36	51	56	0	-	66	0	-	37	3	94	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
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 2013

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
06/04/13	2*	18	16	17	8.2	8.1	8.2
13/04/13	5*	14	10	12	8.2	8.0	8.1
20/04/13	4*	17	11	14	8.2	8.1	8.2
27/04/13	3*	14	11	13	8.2	8.0	8.1
04/05/13	4*	20	13	17	8.2	8.0	8.1
11/05/13	5*	16	10	13	8.3	8.0	8.1
18/05/13	5*	19	11	14	8.3	8.0	8.1
25/05/13	6*	22	12	18	8.2	8.0	8.1
01/06/13	4*	20	13	16	8.3	8.0	8.1
08/06/13	2*	19	16	18	8.1	8.0	8.1
15/06/13	3*	21	13	17	8.1	8.0	8.0
22/06/13	4*	16	11	15	8.3	8.0	8.1
29/06/13	5*	20	14	17	8.2	8.0	8.1

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 2013

Sampling date		16/4/2013	14/5/2013	10/6/2013
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	<1	1	<1
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	25	59	38
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

EM&A Log Ref.	Mitigation Measures	Implementation Status
	GENERAL	
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
	WATER QUALITY	
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
	WASTE	
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
	NOISE	
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