AIR QUALITY IN HONG KONG

1998

Air Services Group Environmental Protection Department The Government of the Hong Kong Special Administrative Region

Air Quality in Hong Kong 1998

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Summary

The overall air quality in Hong Kong in 1998 was slightly better than that in 1997, with noticeable decrease in sulphur dioxide, nitrogen dioxide and suspended particulates at most stations. Despite the improvement, violations of several short-term and long-term AQO for nitrogen dioxide and suspended particulates were still recorded at some general and roadside monitoring stations. The ambient ozone concentrations in 1998 remained at a similar level as 1997. Several incidents of high ozone levels had been observed at the new rural station in Tap Mun although there was eventually no AQO exceedance recorded in the year. Similar to the past few years, the ambient levels of sulphur dioxide, carbon monoxide and lead in 1998 were all well below their respective AQO levels.

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Air Quality in Hong Kong 1998

1. Introduction

The Environmental Protection Department (EPD) operated in 1998 a network of twelve air quality monitoring stations for measuring major air pollutants. During the year, one general station in the rural area of Tap Mun and two roadside stations in the Causeway Bay and Central districts were added to the monitoring network to provide further information on the background and roadside air quality in Hong Kong. The objectives of EPD's air quality monitoring network include understanding the air pollution problems of Hong Kong, assessing how far the Hong Kong Air Quality Objectives (HKAQO) are being achieved and providing the public with information on the current and forecast air quality.

Additional monitoring facilities specifically designed to collect Toxic Air Pollutants (TAPs) samples have been added to the Tsuen Wan and Central/Western monitoring stations since July 1997 to measure the ambient levels of potentially important TAPs in Hong Kong.

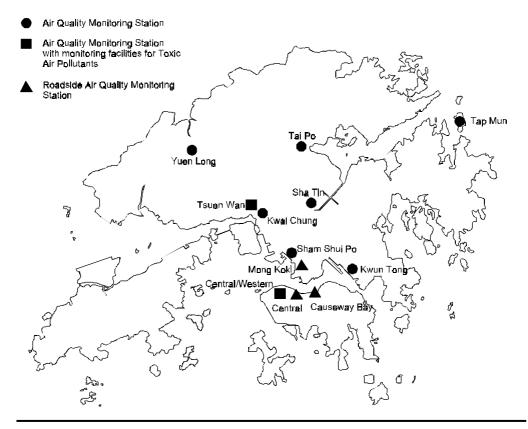


FIGURE 1 LOCATION OF EPD'S AIR QUALITY MONITORING STATIONS

In addition to EPD's monitoring network, the Hongkong Electric Co. Ltd. (HEC) and China Light & Power Co. Ltd. (CLP) also operate a number of monitoring stations to assess the ambient levels of sulphur dioxide and nitrogen dioxide in the vicinity of their power generating stations. The locations of these monitoring stations are shown in Figure A1 of Appendix A.

2. Air Quality Objectives and their Compliance Status

The Hong Kong Air Quality Objectives (HKAQO) are established to protect public health. Several of these objectives were violated at some EPD monitoring stations in 1998. Similar to previous years, particulate pollution remains the greatest concern among all major air pollutants. For instance, violations of the annual AQO for total suspended particulates (TSP) and respirable suspended particulates (RSP) were recorded for both general and roadside stations in 1998. The roadside station at Causeway Bay also violated the 24-hour AQO for RSP.

Table 1 Hong Kong Air Quality Objectives

Concentration in micrograms per cubic metre^[1]

	Averaging Time							
Pollutant	1 hr [2]	8 hrs [3]	24 hrs	3 mths [4]	1 yr [4]			
Sulphur dioxide	800		350		80			
Total suspended particulates			260		80			
Respirable suspended particulates ^[5]			180		55			
Nitrogen dioxide	300		150		80			
Carbon monoxide	30000	10000						
Photochemical oxidants (as Ozone ^[6])	240							
Lead				1.5				

[1] Measured at 298K (25°C) and 101.325 kPa (one atmosphere).

[2] Not to be exceeded more than three times per year.

[3] Not to be exceeded more than once per year.

[4] Arithmetic means.

[5] Respirable suspended particulates means suspended particles in air with a nominal aerodynamic diameter of 10 micrometres or smaller.

[6] Photochemical oxidants are determined by measurement of ozone only.

Table 2: Air Quality Objectives Compliance Status for 1998

Station	Nitrogen Dioxide				uspended culates	Respirable Suspended Particulates		
	1-hour	24-hour	1-year	24-hour	1-year	24-hour	1-year	
Kwun Tong	~	~	~	~	~	~	7	
Sha Tin	~	~	~	✓	~	~	~	
Tai Po	~	~	~	✓	~	~	~	
Yuen Long	~	~	~	~	X	~	X	
Sham Shui Po	~	~	~	v	X	~	~	
Central/Western	~	~	~	~	~	~	~	
Tsuen Wan	~	~	~	✓	~	~	~	
Kwai Chung	~	~	~	~	~	~	~	
Mong Kok	~	~	X	~	X	~	X	
Causeway Bay	~	X	X			X	X	
Central	~	X	~			~	~	
Tap Mun	2	~	~			~	2	

Notes:

"✓" complied with the AQO "X" violated the AQO "--" not measured "~" insufficient data for assessment of compliance For those stations with sufficient data, sulphur dioxide, carbon monoxide, ozone and lead all complied with the HKAOO.

For respirable suspended particulates, continuous monitoring data are used for the assessment of AQO compliance of the Causeway Bay, Central and Tap Mun stations.

For gaseous air pollutants, only the 24-hour and annual AQO for nitrogen dioxide were violated at the roadside monitoring stations at Causeway Bay, Central and Mong Kok in 1998. Same as last year, all HEC and CLP air quality monitoring stations complied with the relevant AQO for sulphur dioxide and nitrogen dioxide.

3. Gaseous Pollutants

3.1 Sulphur Dioxide (SO₂)

Sulphur dioxide (SO_2) is formed primarily from combustion of sulphur-containing fossil fuels. In urban area diesel vehicles and industrial emissions are the more important source of SO_2 because of their close proximity to the receptors. Besides being harmful to both plants and people, SO_2 also contributes to the local and regional acid rain problem.

Exposure to high levels of SO_2 may cause impairment of respiratory function and aggravate existing respiratory and cardiac illnesses. Prolonged exposure at lower levels may also increase the risk of developing chronic respiratory disease.

Due to the past control efforts, the SO_2 concentration has been maintaining at a very low level throughout the territory and none of the monitoring stations recorded violation of any relevant AQO in 1998. Even for the roadside monitoring stations in Causeway Bay, Central and Mong Kok, the highest readings for different averaging times were still less than half of the respective permissible limits.

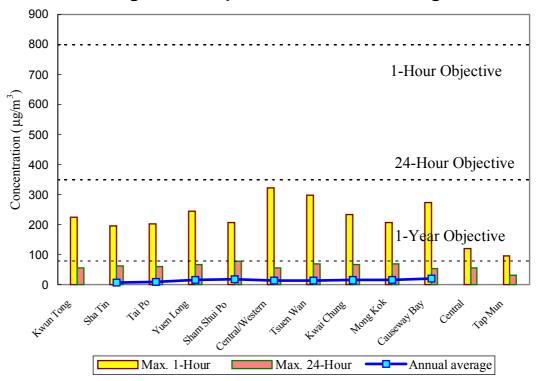
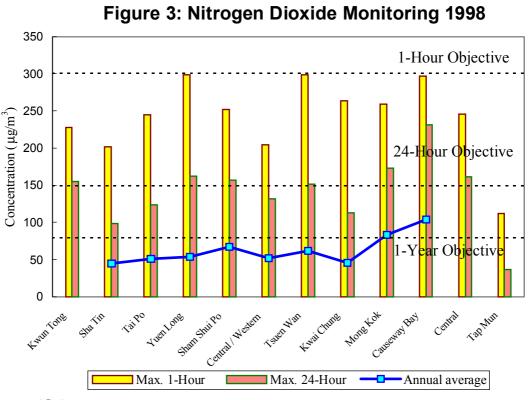


Figure 2: Sulphur Dioxide Monitoring 1998

3.2 Nitrogen Dioxide (NO₂)

Nitrogen dioxide (NO₂) is formed from oxidation of nitric oxide (NO) emitted from fuel combustion. As with sulphur dioxide, motor vehicles (diesel vehicles in particular) are the major source of NO₂ in urban area. Long term exposures to NO₂ can lower a person's resistance to respiratory infections and aggravate more serious chronic respiratory diseases.

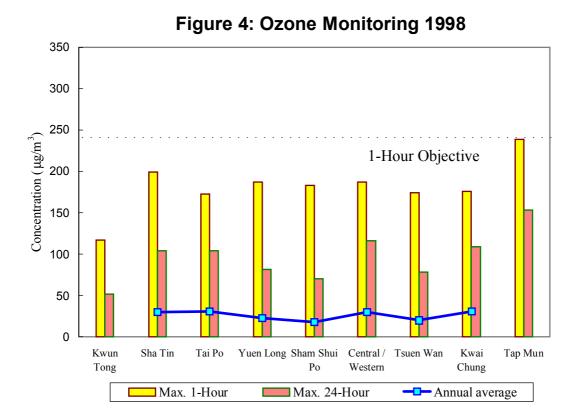
The NO₂ concentrations in Hong Kong remained at a fairly high level in 1998. The accumulation and photochemical oxidation of nitric oxide from vehicular emissions under calm wind conditions led to several exceedances of the 24-hour AQO levels at both general and roadside stations in 1998, although violations of this AQO were only seen at the Causeway Bay and Central stations. All stations, except Causeway Bay and Mong Kok, complied with the annual AQO, with annual averages ranging from 56% to 86% of the permissible level of 80 μ g/m³. The annual averages recorded at Causeway Bay and Mong Kok in 1998 were high, approaching 130% and 104% of the annual AQO, respectively.



3.3 Ozone (O₃)

Ozone (O_3) , a major constituent of photochemical smog, is formed by a series of complicated photochemical reactions of oxygen, nitrogen oxides and reactive hydrocarbons in the presence of sunlight and warm temperature. Being a strong oxidant, it can cause eye and nose irritations even at low concentration levels. At elevated levels, it can increase susceptibility to respiratory infections.

In 1998, ambient level of ozone was measured at all nine general monitoring stations. Although there was no exceedance of the 1-hour AQO level during the year, several incidents of high levels had been observed at the Tap Mun station. The highest level recorded there was 239 μ g/m³, just slightly lower than the permissible limit of 240 μ g/m³. Similar to previous cases of ozone pollution, all these incidents could be directly related to the photochemical reactions triggered by bright sunlight under calm wind conditions.



3.4 Carbon Monoxide (CO)

Carbon monoxide (CO) comes mainly from vehicular emissions although small amount of which may also come from incomplete combustion of fuels from factories and power stations. When it enters the bloodstream, CO can reduce oxygen delivery to the body's organs and tissues. Typical symptoms of CO poisoning include shortness of breath, chest pain, headaches, and loss of coordination. The health threat from CO is more severe for those who suffer from heart disease.

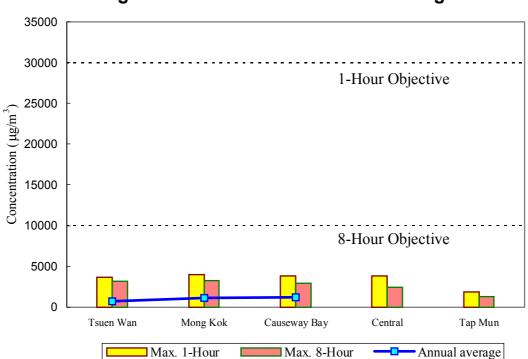


Figure 5: Carbon Monoxide Monitoring 1998

In Hong Kong, the ambient and roadside concentrations of CO continue to stay at a very low level. For instance, the highest 1-hour and 8-hour concentration averages in 1998, both recorded at the Mong Kok roadside station, were less than one seventh and one third of the respective AQO.

4. Particles

4.1 Total Suspended Particulates (TSP)

Total suspended particulates (TSP) are small airborne particles such as dust, fume and smoke with diameters less than 100 micrometres. Major sources of TSP include power stations, construction activities and vehicle exhausts. TSP can be broadly divided into two major types. Particles with a diameter of 10 micrometres or less are called respirable suspended particulates, or PM10 for short. This type of particles is usually of much greater health concern (see below). On the contrary, particles that are larger than 10 micrometres in diameter are mainly related to soiling and dust nuisance.

Levels of TSP in 1998 remained high throughout the territory although a slight decrease in the overall concentration was noted when compared with the figures of 1997. Three out of the nine monitoring stations with TSP monitoring did not comply with the annual AQO. The highest annual average in 1998 was 22% lower than last year's value and was again recorded at the Mong Kok roadside station. Among all monitoring stations, Kwai Chung station had the lowest annual level of TSP, which was about 80% of the permissible limit.

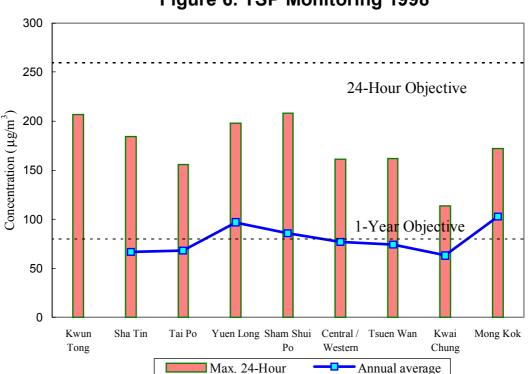


Figure 6: TSP Monitoring 1998

4.2 Respirable Suspended Particulates (RSP)

Respirable suspended particulates (RSP) refer to those airborne particles with diameters of 10 micrometres or less. Combustion sources, in particular diesel vehicle exhaust, are the major sources of RSP. Besides, RSP can be formed by atmospheric oxidation of sulphur dioxide and nitrogen oxides. Although to a lesser extent, crustal dust and marine aerosols are significant sources of RSP as well.

RSP at high level may cause chronic and acute effects on human health, particularly the pulmonary function, as they can penetrate deep into the lungs and cause respiratory problems. These effects are enhanced if high RSP levels are associated with higher levels of other pollutants, such as SO₂. The smaller particles in RSP will also have a major impact on visibility.

Although there were only three stations violating the annual AQO for RSP in 1998, down from six in 1997, the RSP concentrations across the territory still remained at a rather high level. The highest annual average, which was almost double of the annual AQO, was recorded at the new roadside station in Causeway Bay, further confirming that diesel vehicle exhaust was the major cause of high RSP level in urban areas. As in the case of TSP, Kwai Chung also had the lowest annual level of RSP in 1998.

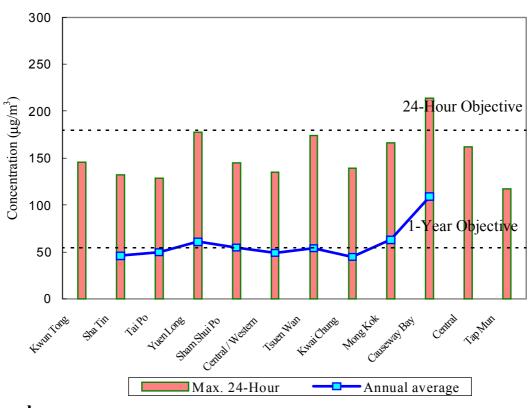


Figure 7: RSP Monitoring 1998

4.3 Lead

Among various TAPs, lead is the only one with the AQO established. Motor vehicles using leaded petrol are the major source of lead in ambient air. Due to the Government's efforts in reducing the use of leaded petrol, the ambient lead concentration continued to stay at a very low level in 1998 and was well within the relevant limit of $1.5 \,\mu\text{g/m}^3$.

5. Toxic Air Pollutants

Two groups of toxic air pollutants (TAPs), viz. heavy metals and organic substances, have been monitored at the Central/Western and Tsuen Wan stations since 1997. The annual averages of the ten most important TAPs in 1998 are summarised in Table C10. Detailed description of the monitoring operation can be found in appendix B.4.

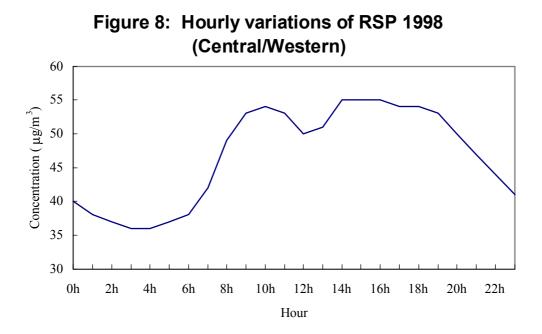
The monitoring data collected so far indicate that the level of toxic air pollutants in Hong Kong is in general lower than or comparable to those observed in other urban areas.

6. Variation of Air Pollution Levels Over Time

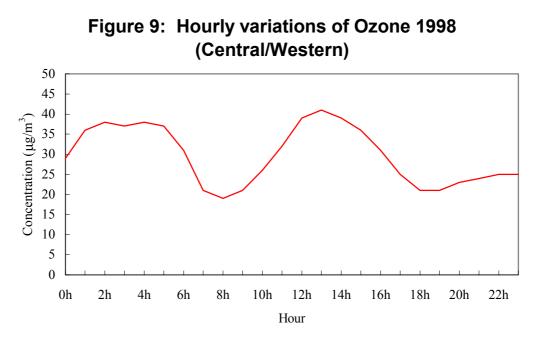
The air pollutant concentration in the atmosphere can change over a day, over the months of a year and in the period of several years.

6.1 Over a Day

The daily variation of the concentrations of most air pollutants, other than ozone and those formed by atmospheric chemical reactions of other air pollutants, follows closely to the pattern of human activities. For instance, higher concentration is usually observed in the morning and in the late afternoon when more traffic and other activities occur. Likewise, the lowest concentration often occurs at night hours when there are less human activities.

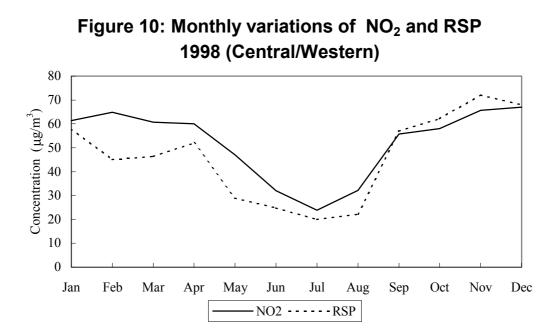


The average daily variation of ozone concentrations in 1998 was of a slightly different daily pattern. As ozone is produced from reactions of the vehicle emissions in the presence of sunlight, the levels usually build up in the afternoon when the solar radiation levels are the highest. Minimum concentrations were observed at rush hours when nitric oxide emissions from vehicles were destroying ozone.



6.2 Over a Year

Because of the washout effects of rainfall and/or better dispersion of pollutants, the air pollution levels of nitrogen dioxide and RSP were substantially lower in the summer months. Higher concentrations were, in general, observed in the winter when the weather conditions that trapped the pollutants close to their sources and hindered pollutant dispersion occurred during this period.



The patterns for sulphur dioxide and ozone differ slightly from nitrogen dioxide and particulates. Sulphur dioxide did not show significant variation throughout the year since higher emissions in the summer months as a result of higher electricity demand might have offset the decrease caused by the washout and dispersion effects mentioned above. For ozone, higher average concentrations occurred around October as this period had more clear and sunny days to provide suitable conditions for photochemical formation of ozone from vehicle emissions.

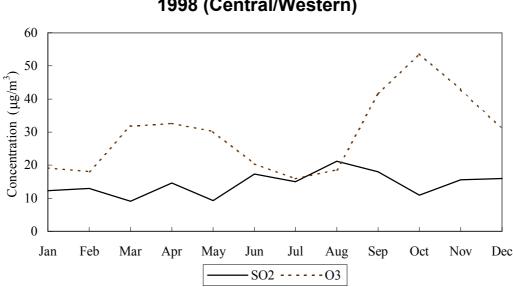


Figure 11: Monthly variations of SO₂ and O₃ 1998 (Central/Western)

6.3 Long Term Trends

6.3.1 Sulphur Dioxide (SO₂)

Since the enforcement of the Air Pollution Control (Fuel Restriction) Regulations for stationary sources and the more recent Air Pollution Control (Motor Vehicle Fuel) Regulation for mobile sources, the SO₂ concentration in ambient air has reduced and maintained at a level far below the statutory limit of 80 μ g/m³. For example, the annual averages of urban and roadside stations (please refer to Table B1 for area type classification of monitoring stations) in 1998 were about 44% and 63%, respectively, lower than their corresponding values measured before the enforcement of the latter regulation. The slightly higher roadside level compared with the urban and new town levels could be attributed to the street canyon effect. With more and more vehicles switching to low sulphur content fuel, the SO₂ pollution problem should become less significant in the future.

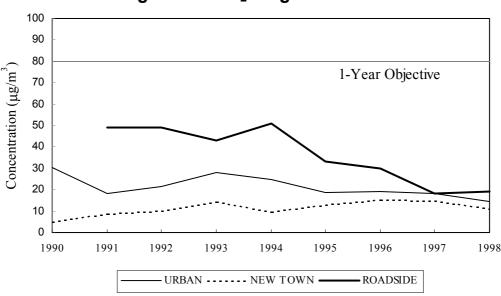


Figure 12: SO₂ long term trend

6.3.2 Nitrogen Dioxide (NO₂)

While the increasing trend of ambient NO₂ levels in urban and new town areas appeared to be slowing down in 1998, the roadside level of NO₂ showed a definite increase of 10% over the 1997 value. The increase could be attributed to the addition of a new roadside station in the heavy traffic area in Causeway Bay. Due to closer proximity to the emission sources, the roadside NO₂ level exceeded the permissible limits of 80 μ g/m³ by about 18% in 1998.

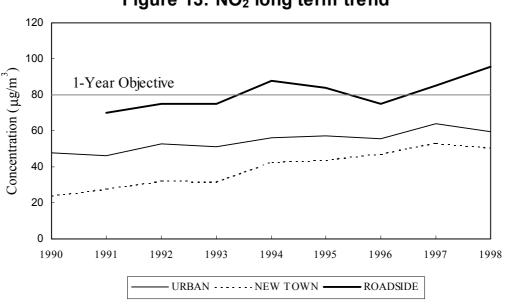
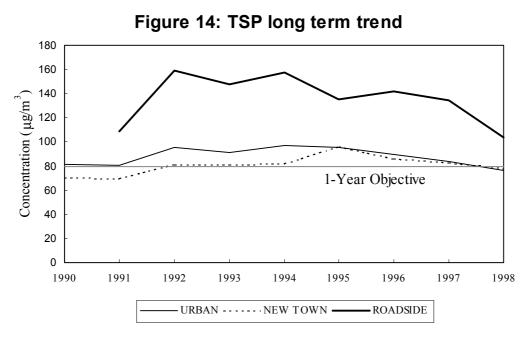


Figure 13: NO₂ long term trend

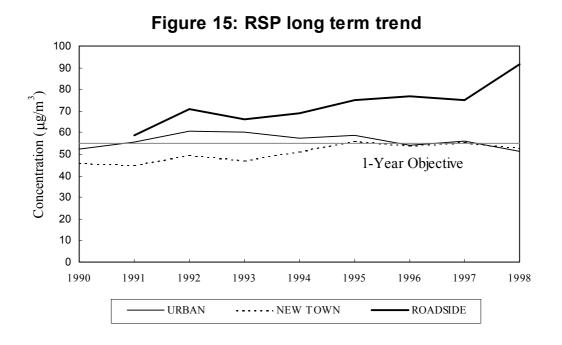
6.3.3 Total Suspended Particulates (TSP)

The ambient TSP concentrations have been maintaining at a rather high level throughout the territory since 1990, although apparent decreasing trend was observed in 1998. The most significant drop in 1998 occurred in the roadside areas where the TSP concentrations dropped back to the 1991 level. In spite of the drop, the 1998 level was still 30% above the permissible limit of 80 μ g/m³. As with NO₂, the elevated roadside level of TSP was also due to the close proximity to the emission sources.



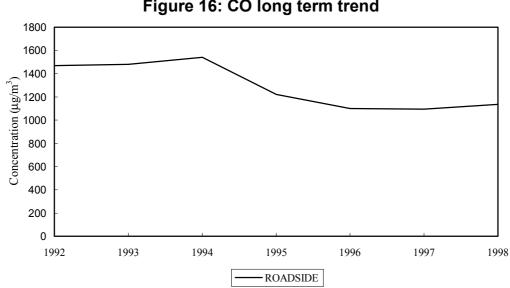
6.3.4 Respirable Suspended Particulates (RSP)

Similar to TSP, the concentration of RSP measured in the urban area was at approximately the same level as the new town area since 1996. An apparent drop of 8% was observed in 1998. As in the case of NO₂, the increase of about 15% in roadside RSP level could be attributed to the addition of the Causeway Bay Station in 1998 where higher RSP concentrations were usually measured.



6.3.5 Carbon Monoxide (CO)

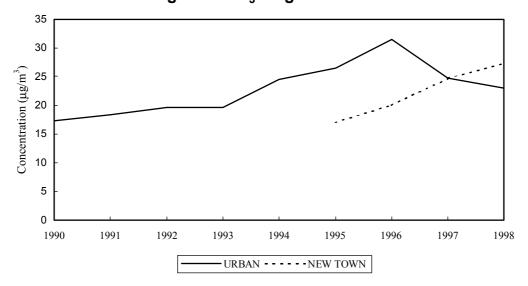
The concentrations of CO remained low in the past few years. It could be due to the increase in the number of vehicles fitted with catalytic converters. Even at the roadside close to the vehicular emission sources, the levels were always well within the relevant AQOs.

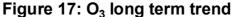




6.3.6 Ozone (O₃)

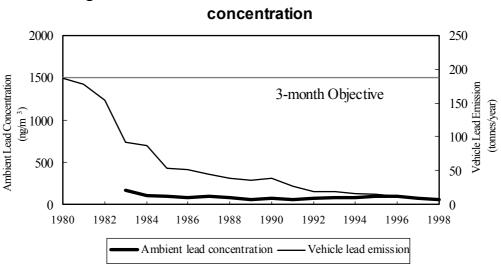
In 1998, urban level of ozone showed a significant drop of about 24% compared to previous year's value after peaking at 32 μ g/m³ in 1996. The drop was caused in part by the inclusion of data from three more urban station, viz. Kwun Tong, Sham Shui Po and Tsuen Wan. Similarly the increase in ozone concentration in 1998 was due to the inclusion of data from Tai Po and Sha Tin stations. Although there were insufficient data to calculate the annual ozone level of Tap Mun, comparison of the monthly averages of Tap Mun with those of other stations clearly indicated a high ozone background level there. More monitoring data, however, will be required to establish the long term trend of the background ozone level.

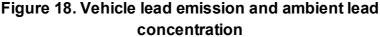




6.3.7 Airborne Lead

The lead content of petrol has reduced by almost 90% since the oil companies took voluntary action in reducing the use of lead in the eighties. Past monitoring results show that the ambient lead concentration was already at a rather low level when unleaded petrol was introduced to Hong Kong in April 1992. In fact, the ambient lead concentration has been maintaining at that level since the early eighties.





Appendix A

Monitoring Results of Sulphur Dioxide and Nitrogen Dioxide by HEC and CLP

HEC Air Quality Monitoring Station

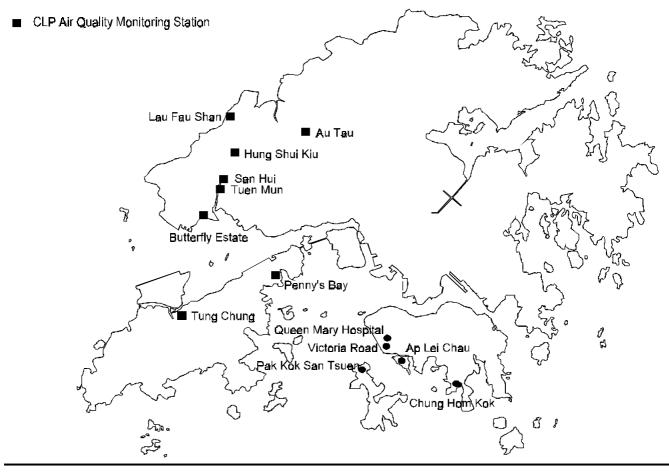


Figure A1 LOCATION OF HEC & CLP_AIR QUALITY MONITORING STATIONS FOR SULPHUR DIOXIDE AND NITROGEN DIOXIDE

A.1 The Hongkong Electric Co. Ltd.

Air Quality Monitoring Stations	Annual Mean Concentration ^[1]	Range of Monthly Mean Concentration
Sulphur Dioxide (SO ₂)		
Chung Hom Kok	5	3 - 7
Victoria Road	7	4 - 11
Queen Mary Hospital	15	8 - 20
Ap Lei Chau ^[2]	9	5 - 11
Pak Kok San Tsuen	8	3 - 10
Nitrogen Dioxide (NO ₂)		
Chung Hom Kok ^[3]	19	19 - 19
Victoria Road	26	12 - 39
Queen Mary Hospital	32	12 - 96
Ap Lei Chau ^[2]	26	11 - 47
Pak Kok San Tsuen	23	10 - 36

A.2 China Light & Power Co. Ltd.

Air Quality Monitoring Station	Annual Mean Concentration	Range of Monthly Mean Concentration
Sulphur Dioxide (SO ₂)		
San Hui	32	22 - 42
Tuen Mun	17	8 - 24
Hung Shui Kiu	23	5 - 41
Au Tau	74	65 - 87
Butterfly Estate	8	2 - 15
Penny's Bay	4	3 - 6
Lau Fau Shan	9	4 - 16
Tung Chung	8	2 - 20
Nitrogen Dioxide (NO ₂)		
Tuen Mun	49	25 - 70
Butterfly Estate	41	19 - 65
Penny's Bay	32	12 - 48
Lau Fau Shan	34	22 - 48
Tung Chung	27	12 - 43

Notes:

- [1] All pollutant units are in micrograms per cubic metre on hourly average.
- [2] Only 7 months data (June to December) are available for calculating the Annual Mean Concentration.
- [3] Ambient air monitoring commenced in December 1998.

Appendix B

AIR QUALITY MONITORING OPERATION

B.1 Network Operation

The air quality network of twelve monitoring stations is operated by the Air Services Laboratory (ASL) of the Environmental Protection Department. The ASL has been accredited by the Hong Kong Laboratory Accreditation Scheme (HOKLAS) since August 1995 for the measurement of ambient concentrations of total suspended particulates (TSP), respirable suspended particulates (RSP), sulphur dioxide (SO₂), nitrogen dioxide (NO₂), ozone (O₃) and carbon monoxide (CO).

In order to provide good representation of the air quality in areas of high population density, the locations of the twelve monitoring stations were carefully chosen by referencing to the United States Environmental Protection Agency's (USEPA) guidelines with practical consideration of the unique congested high-rise development of Hong Kong.

The details for the parameters monitored at each monitoring station and a list of equipment employed for measuring the air pollutants are summarised in Tables B2 and B3 respectively. In general, the concentration of gaseous pollutants and RSP are determined continuously by automatic analysers. Manually operated high volume samplers using the gravimetric methods are also used regularly to measure the TSP and RSP. In addition, meteorological parameters, including temperature and solar radiation, wind speed and direction, are also recorded continuously at each station as appropriate.

Wet and dry deposition samples are collected at 2 stations: Central/Western and Kwun Tong. The parameters measured for all wet and dry samples include: Si, Al, Ca, Fe, Mg, V, Mn, Cu and Ba in the residue; and pH, Na⁺, K⁺, NH₄⁺, NO₃⁻, SO₄²⁻, Cl⁻, Ca, Mg, formate and acetate in the filtrate.

B.2 Data Processing and Dissemination

At each monitoring station, signals from the continuous analysers and the meteorological instruments are first stored in a data logger and then sent back to the Data Processing Unit of ASL via dedicated telephone lines for further processing. After careful checking and validation, the monitoring data are disseminated to the public in the following manner:-

- Monthly release of the monitoring data recorded at the Mong Kok, Kwai Chung and Central/Western stations (up to June 1998)
- Monthly release of the Air Pollution Index (API) summary for all monitoring stations (since July 1998)
- Daily API reporting and forecast for three categories of land-use areas, viz., urban, industrial, and new development (from 6 June 1995 to 14 June 1998)
- Daily API reporting and forecast for individual station (since 15 June 1998)
- Reporting of monitoring data in the annual reports *Air Quality in Hong Kong* and *Environment Hong Kong*
- *Ad hoc* provision of air quality data to the public, academics and environmental consultants upon request for the purposes of research and air quality assessment

The reporting and forecast of API will help the public (particularly susceptible groups such as people with heart or respiratory illness) to decide on taking precautionary measures when necessary. The monitoring results are also regularly used to assist the formulation of air quality management plans and evaluation on the effectiveness of the current air pollution control programmes.

B.3 Quality Control and Assurance

A quality policy is adopted to ensure that ambient air quality monitoring results from the monitoring stations attain a high degree of accuracy and precision. A quality system has been established in accordance with the HOKLAS criteria.

The accuracy of the monitoring network is assessed by performance audits. Similar to overseas standards, warning limits of $\pm 7\%$ and control limits of $\pm 10\%$ are adopted. In 1998, 150 audit checks were carried out on the stations' analyzers and samplers. As shown in Figure B1 and based on the 95% probability limits, the accuracy of the network varied between – 6.5% and 8.7%, which was within the control limit of $\pm 10\%$.

The precision, a measure of the repeatability, of the measurements is checked in accordance with EPD's quality manuals. In 1998, 947 precision checks were carried out on the analyzers and samplers. As shown in Figure B2 and based on the 95% probability limits, the precision of the network varied between -6.7% and 8.3%, which was again within the target of $\pm 10\%$.

In addition to the above operations, a system audit to review the quality assurance activities is carried out on an annual basis on the monitoring network. A report outlining the deficiencies and corrective actions is compiled at the end of the audit.

B.4 Toxic Air Pollutants Monitoring Operation

The Air Services Group has installed in July 1997 additional monitoring facilities at the Tsuen Wan and Central/Western stations to measure regularly the levels of Toxic Air Pollutants (TAPs) in Hong Kong. The TAPs being monitored can be broadly classified as volatile organic compounds (e.g. benzene, perchloroethylene and 1,3-butadiene), dioxins and furans (e.g. 2,3,7,8-TCDF and 2,3,7,8-TCDD), carbonyl compounds (e.g. formaldehyde), polycyclic aromatic hydrocarbons (e.g. benzo(a)pyrene), and hexavalent chromium. Five distinct methods were used to analyse the collected samples for target TAPs (please refer to Table B4 for details). All these methods have stringent QA/QC criteria to ensure the data quality. Sampling media used include stainless steel canisters, Sep-Pak cartridges, polyurethane foams and bicarbonate impregnated filters. TAP samples were collected by the Woodward-Clyde Inc. on a 1-year contract and were sent to the Xenon Laboratory in Canada for analysis.

Monitoring Station	Abbr.	Address	Area Type	Sampling Height (Above P.D.H.K.)	Above Ground	Date Start Operation
Kwun Tong (City District Office)	KT	6 Tung Yan Street, Kwun Tong	Urban : Mixed residential/ commercial/industrial	34m	25m (6 floors)	Jul 83
Central/Western (Upper Level Police Station)	C/W	1 High Street, Sai Ying Pun	Urban : Residential	78m	18m (4 floors)	Nov 83
Sham Shui Po (Police Station)	SSP	37A Yen Chow St., Sham Shui Po	Urban : Mixed residential/commercial	21m	17m (4 floors)	Jul 84
Kwai Chung (Chen Zao Man College)	KC	1-5 Kwai Hop St., Kwai Hing	Urban : Mixed residential/ commercial/industrial	82m	25m (6 floors)	Jul 88
Tsuen Wan (Princess Alexandra Community Centre)	TW	60 Tai Ho Rd., Tsuen Wan	Urban : Mixed residential/ Commercial/industrial	21m	17m (4 floors)	Aug 88
Tai Po (Tai Po Govt. Office Bldg.)	TP	1 Ting Kok Rd., Tai Po	New Town : Residential	31m	25m (6 floors)	Feb 90
Sha Tin (Sha Tin Govt. Secondary School)	ST	11-17 Man Lai Rd., Tai Wai, Sha Tin	New Town : Residential	27m	21m (5 floors)	Jul 91
Yuen Long (Yuen Long District Branch Offices Bldg.)	YL	269 Castle Peak Road Yuen Long	New Town : Residential with fairly rapid development	31m	25m (6 floors)	July 95
Mong Kok (Mong Kok Rd. Pumping Station)	MK	4E Mong Kok Rd., Mong Kok	Urban Roadside : Mixed residential/commercial area surrounded by some moderately tall buildings	7m	2m (1 floor)	Apr 91
Causeway Bay	СВ	1 Yee Woo Street Causeway Bay	Urban Roadside : Busy commercial area surrounded by many tall buildings	6.5m	2m	Jan 98
Central	CL	Junction of Des Voeux Rd. Central/Chater Rd.	Urban Roadside : Busy commercial/financial area surrounded by many tall buildings	8.5m	4.5m	Oct 98
Tap Mun (Tap Mun Police Station)	TM	Tap Mun	Background : Rural	26m	11m (3 floors)	Apr 98

Table B1. Fixed Network Monitoring Stations: Site Information

Note: P.D. = Principal datum

	PARAMETERS												
STATIONS	SO ₂	NOx	NO	NO ₂	СО	NO. CO	NO	O O3		RSP		TSP	MET ^[3]
STATIONS	302	NOx	NO	INO2		03	Cont ^[1]	Hi-Vol ^[2]	151	IVIL: I			
Kwun Tong	~	~	~	~		~	~	~	~	~			
Central/Western	~	~	~	~		~	~	~	~	~			
Sha Tin	~	~	~	~		~	~	~	~	~			
Tai Po	~	~	~	~		~	~	~	~	~			
Mong Kok	~	~	~	~	~		~	~	~	~			
Sham Shui Po	~	~	~	~		~	~	~	~	~			
Tsuen Wan	~	~	~	~	~	~	~	~	~	~			
Kwai Chung	~	~	~	~		~	~	~	~	~			
Yuen Long	~	~	~	~		~	~	~	~	~			
Causeway Bay	~	~	~	~	~		~						
Central	~	~	~	~	~		~						
Tap Mun	~	~	~	~	~	~	~						

Table B2. Summary of the Parameters Monitored in the Network (1998)

Note:

"Cont" denotes continuous monitoring.
 "Hi-Vol" denotes high-volume sampling.

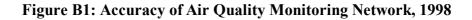
[3] "MET" denotes meteorological parameters such as temperature, wind speed, wind direction, etc.

Pollutants	Measurement Principle	Commercial Instrument
SO ₂	UV fluorescence	TECO Model 43A Monitor Laboratories 8850
NO, NO ₂ , NO _x	Chemiluminescence	TECO Model 42, API 200A Monitor Laboratories 8840
O ₃	UV absorption	TECO 49, API 400
СО	Non-dispersive infra-red absorption with gas filter correlation	TECO Model 48, 48C
TSP	Gravimetric	General Metals 2310
RSP	a) Gravimetric b) Oscillating microbalance	Graseby Andersen PM10 R&P TEOM Series 1400a-AB-PM10

 Table B3
 List of Equipment Used in Measuring Air Pollutant Concentration

Toxic Air Pollutants	Sampling and Analysis Method	Sampling Instrument/Media	Sampling Schedule	Sampling Period
Benzene	USEPA Method TO-14	Xontech 910A / Canister	Every 6 days	24 hours
Perchloroethylene	USEPA Method TO-14	Xontech 910A / Canister	Every 6 days	24 hours
1,3-Butadiene	USEPA Method TO-14	Xontech 910A / Canister	Every 6 days	24 hours
Formaldehyde	USEPA Method TO-11	Xontech 920 / DNPH coated Sep-Pak Cartridge	Every 12 days	24 hours
Benzo(a)pyrene	USEPA Method TO-13	Graseby GPSI / PUF/XAD-2 Sorbents	Once per month	24 hours
Dioxins	USEPA Method TO-9 / 23	Graseby GPSI / Polyurethane Foam	Once per month	24 hours
Hexavalent Chromium	CARB SOP MLD 039	Xontech 925 / Bicarbonate Impregnated Filter	Every 12 days	24 hours

Table B4 Sampling and Analysis Methods Used in Measuring Toxic Air Pollutants



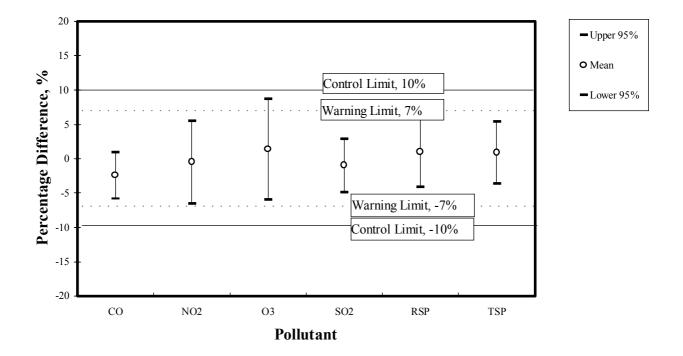
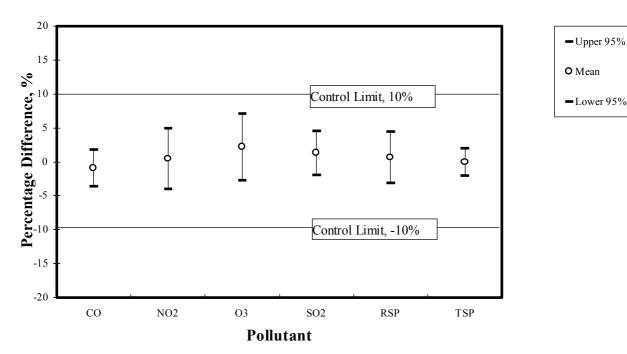


Figure B2: Precision of Air Quality Monitoring Network, 1998



Appendix C

Tables of Air Quality Data

Table No.

Table Title

- C1. The highest 4 hourly pollutant concentrations measured in 1998
- C2. The highest 2 daily pollutant concentrations measured in 1998
- C3. Monthly and annual averages of gaseous pollutants for 1998
- C4. Monthly and annual averages of particulate pollutants for 1998
- C5. Statistical analysis of the hourly measurements of pollutants for 1998
- C6. 1998 Airborne species concentrations (a) as derived from Total Suspended Particulates and (b) expressed as percentage by weight
- C7. 1998 Airborne species concentrations (a) as derived from Respirable Suspended Particulates and (b) expressed as percentage by weight
- C8. Total wet and dry deposition for 1998
- C9. Diurnal variation of air pollutant concentrations for 1998
- C10. Ambient levels of toxic air pollutants for 1998

TABLE C1: THE HIGHEST 4 HOURLY POLLUTANT CONCENTRATIONS MEASURED IN 1998

Pollutant: Sulphur Dioxide

Station	1st High	2nd High	3rd High	4th High
Kwun Tong	225	219	202	196
Sha Tin	197	182	173	131
Tai Po	204	203	155	135
Yuen Long	245	184	174	160
Sham Shui Po	207	202	195	186
Central / Western	322	260	247	240
Tsuen Wan	299	196	196	174
Kwai Chung	234	201	188	186
Mong Kok	207	196	176	166
Causeway Bay	275	256	254	254
Central	122	93	93	92
Tap Mun	96	93	86	82

Pollutant: Nitrogen Oxides

Station	1st High	2nd High	3rd High	4th High
Kwun Tong	1189	1090	1010	1002
Sha Tin	714	703	667	647
Tai Po	727	641	621	612
Yuen Long	784	780	684	612
Sham Shui Po	814	794	789	777
Central / Western	760	747	717	697
Tsuen Wan	1321	1030	876	857
Kwai Chung	577	564	547	541
Mong Kok	1147	1026	953	910
Causeway Bay	1978	1923	1891	1890
Central	1497	1421	1304	1267
Tap Mun	145	126	123	122

Pollutant: Nitric Oxide

Station	1st High	2nd High	3rd High	4th High
Kwun Tong	667	603	583	557
Sha Tin	403	401	363	328
Tai Po	402	334	334	328
Yuen Long	432	339	337	333
Sham Shui Po	457	438	431	427
Central / Western	411	406	405	398
Tsuen Wan	782	603	479	477
Kwai Chung	267	260	254	250
Mong Kok	599	572	546	514
Causeway Bay	1145	1127	1107	1092
Central	871	861	750	733
Tap Mun	63	51	42	40

Note: 1. All units are in micrograms per cubic metre.

Pollutant: Nitrogen Dioxide

Station	1st High	2nd High	3rd High	4th High
Kwun Tong	228	219	217	210
Sha Tin	202	189	186	184
Tai Po	245	220	196	192
Yuen Long	299	289	259	257
Sham Shui Po	252	228	223	215
Central / Western	204	203	202	196
Tsuen Wan	299	298	294	271
Kwai Chung	264	256	231	217
Mong Kok	259	251	245	237
Causeway Bay	297	295	293	290
Central	246	239	239	239
Tap Mun	112	107	98	84

Pollutant: Carbon Monoxide

Station	1st High	2nd High	3rd High	4th High
Tsuen Wan	3680	3650	3540	3500
Mong Kok	3970	3900	3900	3780
Causeway Bay	3800	3720	3720	3600
Central	3810	3180	3000	2990
Tap Mun	1810	1480	1420	1360

Pollutant: Ozone

Station	1st High	2nd High	3rd High	4th High
Kwun Tong	117	116	114	112
Sha Tin	199	192	185	184
Tai Po	173	166	165	164
Yuen Long	187	166	165	164
Sham Shui Po	183	166	151	145
Central / Western	187	157	154	151
Tsuen Wan	174	174	172	166
Kwai Chung	176	171	159	154
Tap Mun	239	233	227	197

Pollutant: Respirable Suspended Particulates (Continuous monitoring)

Ctation	1 ot Lligh	Ond Lligh	2rd Lligh	4th Lligh
Station	1st High	2nd High	3rd High	4th High
Kwun Tong	297	253	247	240
Sha Tin	284	256	223	213
Tai Po	354	278	270	265
Yuen Long	388	358	323	322
Sham Shui Po	302	248	240	235
Central / Western	298	233	217	215
Tsuen Wan	353	340	316	316
Kwai Chung	340	329	309	303
Mong Kok	306	287	279	269
Causeway Bay	325	319	318	317
Central	243	237	233	230
Tap Mun	239	216	201	171

TABLE C2: THE HIGHEST 2 DAILY POLLUTANT CONCENTRATIONS MEASURED IN 1998

Pollutant: Sulphur Dioxide

Station	1st High	2nd High
Kwun Tong	57	53
Sha Tin	64	37
Tai Po	60	36
Yuen Long	68	62
Sham Shui Po	78	65
Central / Western	56	52
Tsuen Wan	69	45
Kwai Chung	67	64
Mong Kok	70	64
Causeway Bay	55	52
Central	56	46
Tap Mun	33	25

Pollutant: Nitrogen Dioxide

Station	1st High	2nd High
Kwun Tong	155	134
Sha Tin	99	98
Tai Po	124	105
Yuen Long	162	111
Sham Shui Po	157	128
Central / Western	132	116
Tsuen Wan	151	149
Kwai Chung	113	97
Mong Kok	173	150
Causeway Bay	231	223
Central	161	160
Tap Mun	37	31

Pollutant: Carbon Monoxide *

Station	1st High	2nd High
Tsuen Wan	3130	3010
Mong Kok	3210	3160
Causeway Bay	2890	2880
Central	2390	2360
Tap Mun	1290	1280

Pollutant: Ozone

Station	1st High	2nd High
Kwun Tong	52	48
Sha Tin	104	95
Tai Po	104	98
Yuen Long	82	79
Sham Shui Po	70	67
Central / Western	116	109
Tsuen Wan	78	76
Kwai Chung	109	106
Tap Mun	153	151

Pollutant: Total Suspended Particulates

Station	1st High	2nd High
Kwun Tong	207	178
Sha Tin	184	163
Tai Po	156	146
Yuen Long	198	189
Sham Shui Po	208	161
Central / Western	161	160
Tsuen Wan	162	132
Kwai Chung	114	114
Mong Kok	172	153

Pollutant: Respirable Suspended Particulates (High Volume Sampling)

Station	1st High	2nd High
Kwun Tong	146	101
Sha Tin	118	96
Tai Po	118	111
Yuen Long	136	128
Sham Shui Po	146	116
Central / Western	118	111
Tsuen Wan	118	111
Kwai Chung	96	94
Mong Kok	113	111

Pollutant: Respirable Suspended Particulates (Continuous monitoring)

Station	1st High	2nd High
Kwun Tong	146	142
Sha Tin	132	129
Tai Po	129	126
Yuen Long	178	176
Sham Shui Po	145	134
Central / Western	135	131
Tsuen Wan	174	144
Kwai Chung	139	136
Mong Kok	166	149
Causeway Bay	214	206
Central	162	133
Tap Mun	117	112

Note: 1. All units are in micrograms per cubic metre. 2. *8-Hour Average for Carbon Monoxide.

Pollutant: Nitrogen Oxides

Station	1st High	2nd High
Kwun Tong	434	429
Sha Tin	277	247
Tai Po	233	221
Yuen Long	346	322
Sham Shui Po	429	330
Central / Western	324	291
Tsuen Wan	381	378
Kwai Chung	219	217
Mong Kok	537	485
Causeway Bay	1031	986
Central	746	672
Tap Mun	48	47

Pollutant: Nitric Oxide

T Onutant. Nitine O	Aluc	
Station	1st High	2nd High
Kwun Tong	229	205
Sha Tin	134	123
Tai Po	106	96
Yuen Long	184	115
Sham Shui Po	178	174
Central / Western	149	134
Tsuen Wan	183	179
Kwai Chung	87	86
Mong Kok	263	239
Causeway Bay	589	567
Central	426	349
Tap Mun	12	11

TABLE C3: MONTHLY AND ANNUAL AVERAGES OF GASEOUS POLLUTANTS FOR 1998

Pollutant: Sulphur Dioxide

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Kwun Tong	8	8	7	9	7	9	22	22	13	10	13 *		12 *
Sha Tin	6	6	3	9	7	10	10	14	6	5	7	7	8
Tai Po	9	8	5	9	9	8	8	14	9	10	11	11	9
Yuen Long	19	17	16	18	17	11	12	16	17	16	18	22	17
Sham Shui Po	10 *	18	12	24	16	21	22	26	18	10	14	14	18
Central / Western	12	13	9	15	9	17	15	21	18	11	16	16	14
Tsuen Wan	9	12	12	17	15	16	16	18	13	12	14	15	14
Kwai Chung	11	13	10	21	16	25	26	22	11	7	10	11	15
Mong Kok	15	18	12	23	15	22	22	23	18	15	16	15	18
Causeway Bay	22	23	16	18	14	13	20	24	22	18	24	26	20
Central									21	16	11	26	19 *
Tap Mun				4	3	1	5	5	6	8	11	11	6 *

Pollutant: Nitrogen Oxides

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Kwun Tong	206	223	185	186	164	167	173	164	194	179	209 *		185 *
Sha Tin	95	112	70	96	80	80	74	94	88	82	112	111	91
Tai Po	96	101	77	90	83	79	67	107	97	95	114	124	94
Yuen Long	124	134	115	113	104	94	85	104	105	98	129	143	112
Sham Shui Po	149 *	199	164	180	139	142	120	132	140	122	162	165	151
Central / Western	113	130	100	112	73	68	52	74	92	75	96	113	91
Tsuen Wan	145	192	164	156	128	142	116	123	124	111	139	157	141
Kwai Chung	81	105	78	95	77	100	89	82	68	52	72	80	81
Mong Kok	287	285	238	263	213	241	210	229	273	282	296	276	258
Causeway Bay	638	689	606	541	487	400	395	494	516	510	619	676	543
Central									410	390	415	458 *	406 *
Tap Mun				11	9	7	14	17	14	9	14	12	12 *

Pollutant: Nitric Oxide

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Kwun Tong	88	98	73	73	66	77	83	76	77	62	75 *		77 *
Sha Tin	32	39	19	30	23	31	30	39	28	19	35	35	30
Tai Po	27	30	18	24	22	28	25	43	28	21	31	39	28
Yuen Long	46	49	38	36	34	39	37	42	32	23	37	45	38
Sham Shui Po	51 *	81	57	66	47	60	52	56	45	30	51	56	55
Central / Western	34	42	26	34	17	23	18	28	24	11	20	31	26
Tsuen Wan	53	82	62	56	44	62	51	52	39	27	41	54	52
Kwai Chung	23	34	20	27	19	38	34	30	17	7	14	18	23
Mong Kok	131	128	95	112	88	119	108	113	120	114	124	117	114
Causeway Bay	342	379	317	284	263	221	220	273	255	251	319	358	287
Central									202	186	205	243 *	199 *
Tap Mun				1	1	1	2	3	2	1	1	1	1 *

Pollutant: Nitrogen Dioxide

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Kwun Tong	72	73	73	75	63	50	46	47	76	85	94 *		68 *
Sha Tin	46	51	42	51	45	33	28	35	44	53	59	57	45
Tai Po	55	56	49	54	49	36	29	41	55	63	67	64	51
Yuen Long	53	59	57	57	52	35	28	40	57	63	73	74	54
Sham Shui Po	70 *	75	76	78	67	50	40	46	71	76	83	80	67
Central / Western	61	65	61	60	47	32	24	32	56	58	66	67	52
Tsuen Wan	64	68	70	70	60	48	39	44	64	70	76	75	62
Kwai Chung	46	53	47	53	48	42	37	36	42	41	51	52	46
Mong Kok	87	89	92	92	78	59	46	56	89	108	106	98	83
Causeway Bay	114	109	121	107	85	63	59	78	127	127	131	129	104
Central									101	106	101	86 *	102 *
Tap Mun				10	8	6	10	12	11	7	13	11	10 *

Pollutant: Carbon Monoxide

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Tsuen Wan	1040	880	840	680	600	510	420	430	660	730	910	940	718
Mong Kok	1390	1270	1120	1110	1010	1060	920	950	1190	1170	1300	1260	1146
Causeway Bay	1620	1520	1340	1190	1110	610	850	950	1220	1150	1320	1380	1183
Central									1080	990	1110	1110	1068 *
Tap Mun				440	380	290	290	290	450	470	620	650	432 *

Pollutant: Ozone

T onatant. Ozone													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Kwun Tong	17	15	23	20	18	9	5	8	23	28	26 *		17 *
Sha Tin	27	21	40	33	28	18	11	13	45	49	37	31	30
Tai Po	25	23	38	36	30	20	17	17	44	51	39	30	31
Yuen Long	17	14	23	25	22	12	10	13	33	46	32	22	23
Sham Shui Po	20 *	12	19	19	17	9	6	8	28	35	25	21	18
Central / Western	19	18	32	33	30	20	16	19	41	54	43	31	30
Tsuen Wan	15	12	20	19	18	12	8	11	34	41	31	23	20
Kwai Chung	28	21	39	29	27	13	7	13	46	58	46	35	31
Tap Mun				77	70	44	31	37	81	96	82	72	66 *

Notes:

All units are in micrograms per cubic metre.
 Value with an ^{t**} is below the minimum data requirement for number of data within the period.
 Shaded value is below the minimum data requirement for number of data within a quarter.

4. Both monthly and annual averages are based on hourly data.

TABLE C4: MONTHLY AND ANNUAL AVERAGES OF PARTICULATE POLLUTANTS FOR 1998

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Kwun Tong	105	85	76	104	69	64	55	53	82	103			80 *
Sha Tin	71	63	81	62	46	34	37	40	87	97	85	100	67
Tai Po	98	54	74	95	44	39	36	38	76	85	92	87	68
Yuen Long	143	99	99	101	62	52	48	65	86	118	143	163	97
Sham Shui Po	112	79	98	96	67	55	62	56	85	91	121	109	86
Central / Western	125	84	73	91	40	41	29	39	73	95	110	113	77
Tsuen Wan	92	73	93	70	59	51	48	49	68	79	106	101	74
Kwai Chung	87	70	60	69	46	45	40	45	61	74	82	89	63
Mong Kok	140	103	127	105	76	77	73	81	100	115	120	126	103

Pollutant: Total Suspended Particulates (High Volume Sampling)

Pollutant: Respirable Suspended Particulates

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Kwun Tong	66	58	48	68	51	43	37	34	59	60			53 *
Sha Tin	49	47	55	45	29	25	24	27	65	67	58	62	46
Tai Po	72	43	56	68	33	29	24	27	58	61	65	63	50
Yuen Long	93	65	59	63	39	33	25	40	55	71	96	102	61
Sham Shui Po	77	56	60	64	44	37	34	30	53	55	78	71	55
Central / Western	83	52	55	61	25	27	19	25	47	58	71	74	49
Tsuen Wan	64	54	65	52	44	36	32	32	53	61	82	75	54
Kwai Chung	66	50	44	49	29	30	25	29	44	51	64	66	45
Mong Kok	90	65	71	66	45	48	40	49	61	68	82	80	63
Causeway Bay	114	96	106	131	133	110	95	94	107	101	118	104	109
Central									85	86	103 *	134 *	87 *
Tap Mun				39	25	19	19	18	41	51	64	59	37 *

Notes:

All units are in micrograms per cubic metre.
 Value with an ^{**} is below the minimum data requirement for no. of data within the period.
 Shaded value is below the minimum data requirement for no. of data within a quarter.

4. Both monthly and annual averages are based on hourly data.

5. For respirable suspended particulates, continuous monitoring data are reported for the Causeway Bay, Central and Tap Mun stations.

TABLE C5: STATISTICAL ANALYSIS OF THE HOURLY MEASUREMENTS OF POLLUTANTS FOR 1998

Station	No. of hours	Data capture	< 10	25	50		entiles 90	95	98	> 99	Geometric mean	Arithmetic mean	Highest 1 hour	Highes 24 hour
Kwun Tong	7477	(%) 85.4	10	25 3	50 7	75 13	25	95 42	98 67	99 87	6 mean	mean 12	225	24 nou 57
Sha Tin	8593	98.1	0	Ő	3	9	20	30	47	63	4	8	197	64
Tai Po	8598	98.2	1	3	6	12	19	27	40	54	6	9	204	60
/uen Long	8415	96.1	3	7	13	21	32	43	67	91	11	17	245	68
Sham Shui Po	8078	92.2	3	7	12	19	39	59	88	105	11	18	207	78
Central / Western	8366	95.5	0	3	9	17	33	50	75	101	7	14	322	56
Tsuen Wan	8417	96.1	0	3	9	18	34	48	69	84	8	14	299	69
Kwai Chung	8557	97.7	1	4	8	19	39	54	75	92	8	15	234	67
Mong Kok	8396	95.8	4	7	13	21	35	52	74	89	12	18	207	70
Causeway Bay	8357	95.4	6	10	16	25	37	49	64	80	15	20	275	55
Central	2402	82.0	1	6	14	27	42	52	65	74	11	19	122	56
Tap Mun	5874	89.0	0	0	2	7	18	27	38	47	3	6	96	33
Pollutant: Nitrogen C												A 14		
Station	No. of hours	Data capture (%)	< 10	25	50	Perce 75	entiles 90	95	98	> 99	Geometric mean	Arithmetic mean	Highest 1 hour	Highes 24 hou
Kwun Tong	7462	85.2	40	108	180	250	319	371	442	510	147	185	1189	434
Sha Tin	8591	98.1	19	34	62	115	203	272	375	446	60	91	714	277
Tai Po	8577	97.9	29	46	76	118	179	236	312	371	73	94	727	233
/uen Long	8498	97.0	40	63	94	141	206	254	325	392	91	112	784	346
Sham Shui Po	8043	91.8	41	90	143	193	254	306	386	464	124	151	814	429
Central / Western	8553	97.6	21	38	72	122	182	230	316	382	66	91	760	324
Tsuen Wan	8477	96.8	35	82	128	178	247	310	410	491	112	141	1321	381
(wai Chung	8467	96.7	18	38	66	108	159	199	256	306	60	81	577	219
Mong Kok	8277	94.4	97	159	248	337	426	480	562	621	225	258	1147	537
Causeway Bay	8153	93.1	186	327	515	712	923	1070	1237	1371	459	543	1978	1031
Central	2015	68.8	107	196	358	557	797	919	1033	1104	319	406	1497	746
Fap Mun	5668	85.9	3	4	8	14	27	37	50	60	8	12	145	48
-														
Collutant: Nitric Oxic Itation	le No. of	Data capture	<			Perce	entiles			>	Geometric	Arithmetic	Highest	Highes
	hours	(%)	10	25	50	75	90	95	98	99	mean	mean	1 hour	24 hou
Kwun Tong	7462	85.2	6	37	69	107	151	181	223	260	49	77	667	229
Sha Tin	8591	98.1	0	2	11	35	87	129	190	228	10	30	403	134
Γai Po	8577	97.9	2	7	15	34	70	103	145	179	14	28	402	106
/uen Long	8498	97.0	5	11	27	51	85	114	157	192	23	38	432	184
Sham Shui Po	8043	91.8	4	22	46	74	107	140	194	235	33	55	457	178
Central / Western	8553	97.6	1	3	11	33	69	97	144	185	10	26	411	149
Tsuen Wan	8477	96.8	3	17	41	69	108	142	204	245	28	52	782	183
(wai Chung	8467	96.7	1	3	11	33	60	81	114	140	10	23	267	87
Nong Kok	8277	94.4	28	60	106	157	206	237	284	329	90	114	599	263
Causeway Bay	8153	93.1	78	155	267	386	516	611	712	798	230	287	1145	589
Central	2015	68.8	30	74	163	290	424	501	582	640	135	199	871	426
Fap Mun	5668	85.9	0	0	1	1	3	5	8	14	1	1	63	12
Pollutant: Nitrogon F	Jiovido													
	No. of	Data capture	<			Perce	entiles			>	Geometric	Arithmetic	Highest	Highes
Station	No. of hours	(%)	10	25	50	75	90	95	98	99	mean	mean	1 hour	24 hou
Pollutant: Nitrogen E Station Kwun Tong	No. of			25 42	50 65			95 124	98 143					
Station	No. of hours	(%) 85.2 98.1	10	42 26	65 41	75 88 59	90	124 96		99	mean 59 37	mean 68 45	1 hour 228 202	24 hou
Station Kwun Tong Sha Tin Fai Po	No. of hours 7462 8591 8577	(%) 85.2 98.1 97.9	10 28 15 21	42 26 31	65 41 47	75 88 59 67	90 110 81 88	124 96 100	143 115 117	99 157 129 131	mean 59 37 45	mean 68 45 51	1 hour 228 202 245	24 hou 155 99 124
Station Kwun Tong Sha Tin Fai Po Yuen Long	No. of hours 7462 8591 8577 8498	(%) 85.2 98.1 97.9 97.0	10 28 15 21 23	42 26 31 34	65 41 47 50	75 88 59 67 69	90 110 81 88 90	124 96 100 106	143 115 117 125	99 157 129 131 140	mean 59 37 45 47	mean 68 45 51 54	1 hour 228 202 245 299	24 hou 155 99 124 162
Station Swun Tong Sha Tin Tai Po Yuen Long Sham Shui Po	No. of hours 7462 8591 8577 8498 8043	(%) 85.2 98.1 97.9 97.0 91.8	10 28 15 21 23 29	42 26 31 34 42	65 41 47 50 63	75 88 59 67 69 88	90 110 81 88 90 109	124 96 100 106 123	143 115 117 125 140	99 157 129 131 140 152	mean 59 37 45 47 60	mean 68 45 51 54 67	1 hour 228 202 245 299 252	24 hou 155 99 124 162 157
Station Swun Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western	No. of hours 7462 8591 8577 8498 8043 8553	(%) 85.2 98.1 97.9 97.0 91.8 97.6	10 28 15 21 23 29 17	42 26 31 34 42 28	65 41 47 50 63 50	75 88 59 67 69 88 71	90 110 81 88 90 109 90	124 96 100 106 123 104	143 115 117 125 140 122	99 157 129 131 140 152 136	mean 59 37 45 47 60 43	mean 68 45 51 54 67 52	1 hour 228 202 245 299 252 204	24 hou 155 99 124 162 157 132
Station Swun Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western Tsuen Wan	No. of hours 7462 8591 8577 8498 8043 8553 8477	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8	10 28 15 21 23 29 17 27	42 26 31 34 42 28 40	65 41 47 50 63 50 58	75 88 59 67 69 88 71 79	90 110 81 88 90 109 90 100	124 96 100 106 123 104 115	143 115 117 125 140 122 136	99 157 129 131 140 152 136 152	mean 59 37 45 47 60 43 55	mean 68 45 51 54 67 52 62	1 hour 228 202 245 299 252 204 299	24 hou 155 99 124 162 157 132 151
Station Swun Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western	No. of hours 7462 8591 8577 8498 8043 8553	(%) 85.2 98.1 97.9 97.0 91.8 97.6	10 28 15 21 23 29 17 27 16	42 26 31 34 42 28 40 29	65 41 47 50 63 50 58 42	75 88 59 67 69 88 71 79 58	90 110 81 88 90 109 90 100 78	124 96 100 106 123 104 115 92	143 115 117 125 140 122 136 113	99 157 129 131 140 152 136 152 128	mean 59 37 45 47 60 43 55 38	mean 68 45 51 54 67 52 62 46	1 hour 228 202 245 299 252 204 299 264	24 hou 155 99 124 162 157 132 151 113
Station Swun Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western Tsuen Wan	No. of hours 7462 8591 8577 8498 8043 8553 8477	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4	10 28 15 21 23 29 17 27 16 40	42 26 31 34 42 28 40 29 55	65 41 47 50 63 50 58 42 79	75 88 59 67 69 88 71 79 58 107	90 110 81 88 90 109 90 100 78 131	124 96 100 106 123 104 115 92 146	143 115 117 125 140 122 136 113 167	99 157 129 131 140 152 136 152 128 182	mean 59 37 45 47 60 43 55 38 76	mean 68 45 51 54 67 52 62 46 83	1 hour 228 202 245 299 252 204 299 264 259	24 hou 155 99 124 162 157 132 151 113 173
Station Swun Tong Sha Tin Tai Po Yuen Long Sham Shui Po Central / Western Fsuen Wan Swai Chung	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7	10 28 15 21 23 29 17 27 16 40 51	42 26 31 34 42 28 40 29 55 71	65 41 47 50 63 50 58 42 79 102	75 88 59 67 69 88 71 79 58 107 133	90 110 81 88 90 109 90 100 78 131 157	124 96 100 106 123 104 115 92 146 172	143 115 117 125 140 122 136 113 167 196	99 157 129 131 140 152 136 152 128 182 218	mean 59 37 45 47 60 43 55 38 76 95	mean 68 45 51 54 67 52 62 46 83 104	l hour 228 202 245 299 252 204 299 264 259 297	24 hou 155 99 124 162 157 132 151 113
Kation Kwun Tong Sha Tin Tai Po Vuen Long Sham Shui Po Central / Western Fsuen Wan Kwai Chung Mong Kok Causeway Bay Zentral	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015	(%) 85.2 98.1 97.9 97.0 91.8 96.8 96.7 96.8 96.7 94.4 93.1 68.8	10 28 15 21 23 29 17 27 16 40 51 51	42 26 31 34 42 28 40 29 55 71 72	65 41 47 50 63 50 58 42 79 102 98	75 88 59 67 69 88 71 79 58 107 133 128	90 110 81 88 90 109 90 100 78 131 157 157	124 96 100 106 123 104 115 92 146 172 177	143 115 117 125 140 122 136 113 167 196 203	99 157 129 131 140 152 136 152 128 182 218 220	mean 59 37 45 47 60 43 55 38 76 95 94	mean 68 45 51 54 67 52 62 46 83 104 102	l hour 228 202 245 299 252 204 299 264 299 264 259 297 246	24 hou 155 99 124 162 157 132 151 113 173 231 161
Kuun Tong Sha Tin Sha Tin Vien Long Sham Shui Po Sham Shui Po Sham Shui Po Sham Shui Po Sham Shui Po Shang S	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1	10 28 15 21 23 29 17 27 16 40 51	42 26 31 34 42 28 40 29 55 71	65 41 47 50 63 50 58 42 79 102	75 88 59 67 69 88 71 79 58 107 133	90 110 81 88 90 109 90 100 78 131 157	124 96 100 106 123 104 115 92 146 172	143 115 117 125 140 122 136 113 167 196	99 157 129 131 140 152 136 152 128 182 218	mean 59 37 45 47 60 43 55 38 76 95	mean 68 45 51 54 67 52 62 46 83 104	l hour 228 202 245 299 252 204 299 264 259 297	24 hou 155 99 124 162 157 132 151 113 173 231
Nation Kwun Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western Suen Wan Kwai Chung Aong Kok Aong Kok Zentral Fap Mun	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668	(%) 85.2 98.1 97.9 97.0 91.8 96.8 96.7 96.8 96.7 94.4 93.1 68.8	10 28 15 21 23 29 17 27 16 40 51 51	42 26 31 34 42 28 40 29 55 71 72	65 41 47 50 63 50 58 42 79 102 98	75 88 59 67 69 88 71 79 58 107 133 128	90 110 81 88 90 109 90 100 78 131 157 157	124 96 100 106 123 104 115 92 146 172 177	143 115 117 125 140 122 136 113 167 196 203	99 157 129 131 140 152 136 152 128 182 218 220	mean 59 37 45 47 60 43 55 38 76 95 94	mean 68 45 51 54 67 52 62 46 83 104 102	l hour 228 202 245 299 252 204 299 264 299 264 259 297 246	24 hou 155 99 124 162 157 132 151 113 173 231 161
Station Kwun Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western Tsuen Wan Kwai Chung Vong Kok	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture	10 28 15 21 23 29 17 27 16 40 51 51 2	42 26 31 42 28 40 29 55 71 72 4	65 41 47 50 63 50 58 42 79 102 98 7	75 88 59 67 69 88 71 79 58 107 133 128 12	90 110 81 88 90 109 90 100 78 131 157 157 23	124 96 100 123 104 115 92 146 172 177 30	143 115 117 125 140 122 136 113 167 196 203 38	99 157 129 131 140 152 136 152 128 182 218 220 46	mean 59 37 45 47 60 43 55 38 76 95 94 7 Geometric	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic	l hour 228 202 245 299 252 204 299 264 259 264 259 246 112 Highest	99 124 162 157 132 151 113 231 161 37 Highes
Station Swun Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western Fsuen Wan Kwai Chung Mong Kok Sauseway Bay Central Fap Mun Pollutant: Carbon Me Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) (%)	10 28 15 21 23 29 17 27 16 40 51 51 2 <	42 26 31 34 42 28 40 29 55 71 72 4	65 41 47 50 63 50 58 42 79 102 98 7	75 88 59 67 69 88 71 79 58 107 133 128 12 12 9 Perce 75	90 110 81 88 90 109 90 100 78 131 157 157 23 entiles 90	124 96 100 123 104 115 92 146 172 177 30	143 115 117 125 140 122 136 113 167 196 203 38	99 157 129 131 140 152 136 152 128 182 218 220 46	mean 59 37 45 47 60 43 55 38 76 95 94 7 Geometric mean	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 749	l hour 228 202 245 299 252 204 299 264 299 264 259 297 246 112 Highest 1 hour	24 hou 155 99 124 hou 162 157 132 151 113 173 231 161 37 Highes 8 hou
Station Swun Tong Sha Tin Tai Po Yuen Long Sham Shui Po Central / Western Tsuen Wan Swai Chung Wong Kok Zauseway Bay Central Tap Mun Station Tsuen Wan Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 84553 8477 8153 2015 5668 No. of hours 8375	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6	10 28 15 21 23 29 17 27 16 40 51 51 2 10 360	42 26 31 34 42 28 40 29 55 71 72 4 25 490	65 41 47 50 63 50 58 42 79 102 98 7 50 680	75 88 59 67 69 88 71 79 58 107 133 128 12 Percec 75 900	90 110 81 88 90 100 78 131 157 157 23 entiles 90 1120	124 96 100 123 104 115 92 146 172 177 30 95 1250	143 115 117 125 140 122 136 113 167 196 203 38 98 1470	99 157 129 131 140 152 136 152 128 182 218 220 46	mean 59 37 45 47 60 43 55 38 76 95 94 7 7 6 95 94 7 6 46	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718	1 hour 228 202 245 299 252 204 299 264 299 264 259 297 246 112 Highest 1 hour 3680	24 hou 155 99 124 162 157 132 151 173 231 161 37 Highes 8 how 3130
Station Swun Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western Sisuen Wan Kwai Chung Wong Kok Causeway Bay Central Fap Mun Pollutant: Carbon Me Station Fsuen Wan Vong Kok	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8376	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9	10 28 15 21 23 29 17 27 16 40 51 51 2	42 26 31 34 42 28 40 29 55 71 72 4 4 25 490 860	65 41 47 50 63 50 58 42 79 102 98 7 50 680 1090	75 88 59 67 69 88 71 79 58 107 133 128 12 Percor 75 900 1380	90 110 81 88 90 100 78 131 157 157 23 entiles 90 1120 1680	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 2140	99 157 129 131 140 152 136 152 128 182 218 220 46 99 1700 2390	mean 59 37 45 47 60 43 55 38 76 95 94 7 7 Geometric mean 646 61075	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1146	1 hour 228 202 245 299 252 204 299 264 259 297 246 259 297 246 112 Highest 1 hour 3680 3970	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 Highes 8 hou 31300 3210
Nation Kwun Tong Sha Tin Irai Po Vuen Long Sham Shui Po Central / Western Suen Wan Kwai Chung Mong Kok Zentral Fap Mun Pollutant: Carbon Me Station Fsuen Wan Mong Kok Zauseway Bay	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9	10 28 15 21 23 29 17 27 16 40 51 51 2	42 26 31 34 42 28 40 29 55 71 72 4 25 490 860 810	65 41 47 50 63 50 58 42 79 102 98 7 50 680 1090 1130	75 88 59 67 69 88 71 79 58 107 133 128 12 Perce 75 900 1380 1490	90 110 81 88 90 109 90 100 78 131 157 23 entiles 90 1120 1680 1890	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880 2130	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 2140 2470	99 157 129 131 140 152 136 152 128 182 218 182 218 46 46	mean 59 37 45 47 60 43 55 38 76 93 94 7 7 6 6 6 6 6 46 1075 1025	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1183	1 hour 228 202 245 299 252 264 299 264 259 264 259 297 246 112 Highest 1 hour 3680 3970 3800	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 8 hou 3210 3210 2890
Station Swun Tong Sha Tin Tai Po Yuen Long Sham Shui Po Central / Western Fsuen Wan Wong Kok Causeway Bay Collutant: Carbon Mo Station Fsuen Wan Yong Kok Causeway Bay Central Causeway Bay Central	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8376	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9	10 28 15 21 23 29 17 27 16 40 51 51 2	42 26 31 34 42 28 40 29 55 71 72 4 4 25 490 860	65 41 47 50 63 50 58 42 79 102 98 7 50 680 1090	75 88 59 67 69 88 71 79 58 107 133 128 12 Percor 75 900 1380	90 110 81 88 90 100 78 131 157 157 23 entiles 90 1120 1680	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 2140	99 157 129 131 140 152 136 152 128 182 218 220 46 99 1700 2390	mean 59 37 45 47 60 43 55 38 76 95 94 7 7 Geometric mean 646 61075	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1146	1 hour 228 202 245 299 252 204 299 264 259 297 246 259 297 246 112 Highest 1 hour 3680 3970	24 hou 155 99 124 hou 162 157 132 151 113 173 231 161 37 Highes 8 hou
Station Swun Tong Sha Tin ai Po Yuen Long Sham Shui Po Sentral / Western Swen Wan Kwai Chung Aong Kok Jauseway Bay Sentral Suen Wan Aong Kok Sauseway Bay Jentral Sauseway Bay Jentral Sauseway Bay Jentral Sauseway Bay Jentral Sauseway Bay Jentral Sauseway Bay	No. of hours 7462 8591 8597 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 82.4	10 28 15 21 23 29 17 27 16 40 51 51 51 2	42 26 31 34 42 28 40 29 55 71 72 4 25 490 860 810 760	65 41 47 50 63 50 58 42 79 102 98 7 50 680 1090 1130 1010	75 88 59 67 69 88 71 79 58 107 133 128 12 Perco 75 900 1380 1490 1320	90 110 81 88 90 109 90 100 78 131 157 23 entiles 90 1120 1680 1890 1700	124 96 100 106 123 104 115 92 146 172 177 30 95 1250 1880 2130 1870	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 2140 2140 2470 2060	99 157 129 131 140 152 136 152 128 218 220 46 220 46 1700 2390 2680 2220	mean 59 37 45 47 60 43 55 38 76 95 38 76 95 94 7 Ceometric mean 646 1075 1025 949	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 778 1146 1183 1068	1 hour 228 202 245 299 252 204 299 264 259 297 246 112 Highest 1 hour 3680 3970 3810	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 8 hou 3130 3210 28900 2390
Kaution Kwun Tong Sha Tin Tia Po Yuen Long Sham Shui Po Jentral / Western Suen Wan Suen Wan Aong Kok Jauseway Bay Pollutant: Carbon Me Tisuen Wan Aong Kok Jauseway Bay Jentral Tap Mun Pollutant: Ozone	No. of hours 7462 8591 8597 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 82.4	10 28 15 21 23 29 17 27 16 40 51 51 51 2	42 26 31 34 42 28 40 29 55 71 72 4 25 490 860 810 760	65 41 47 50 63 50 58 42 79 102 98 7 50 680 1090 1130 1010	75 88 59 67 69 88 71 79 58 107 133 128 12 900 1380 1490 1320 550	90 110 81 88 90 109 90 100 78 131 157 23 entiles 90 1120 1680 1890 1700	124 96 100 106 123 104 115 92 146 172 177 30 95 1250 1880 2130 1870	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 2140 2140 2470 2060	99 157 129 131 140 152 136 152 128 218 220 46 220 46 1700 2390 2680 2220	mean 59 37 45 47 60 43 55 38 76 95 38 76 95 94 7 Ceometric mean 646 1075 1025 949	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 778 1146 1183 1068	1 hour 228 202 245 299 252 204 299 264 259 297 246 112 Highest 1 hour 3680 3970 3810	24 hou 155 99 124 162 157 132 151 113 231 173 231 161 37 Highes 8 hou 3130 3210 28900 2390 1290
Station Śwun Tong Sha Tin Tia IPO Yuen Long Sham Shui PO Zentral / Western Fsuen Wan Suen Wan Yong Kok Zouseway Bay Zollutant: Carbon Me Sauseway Bay Zentral Fap Mun Pollutant: Ozone	No. of hours 7462 8591 8577 8498 8043 8553 8477 8453 2015 5668 No. of hours 8375 8316 8376 8316 8309 2414 6019	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.2	10 28 15 21 23 29 17 27 16 40 51 51 51 2 10 360 670 590	42 26 31 34 42 28 40 29 55 71 72 4 25 490 860 810 760	65 41 47 50 63 50 58 42 79 102 98 7 50 680 1090 1130 1010	75 88 59 67 69 88 71 79 58 107 133 128 12 900 1380 1490 1320 550	90 110 81 88 90 109 90 100 78 131 157 23 mitiles 90 1680 1890 1700 690	124 96 100 106 123 104 115 92 146 172 177 30 95 1250 1880 2130 1870	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 2140 2140 2470 2060	99 157 129 131 140 152 136 152 128 218 220 46 220 46 1700 2390 2680 2220	mean 59 37 45 47 60 43 55 38 76 95 95 94 7 7 60 64 64 64 64 64 94 9397	mean 68 45 51 54 67 52 62 46 83 104 102 104 102 1146 1148 1068 432	I hour 228 202 245 299 252 204 259 264 259 264 259 264 257 246 110 Highest 1 hour 36800 3810 1810	24 hou 155 99 124 162 157 132 151 113 173 231 161 161 161 37 Highes 8 hou 3210 2890 2390 1290 Highes
Station Swun Tong Sha Tin Tai Po Yuen Long Sham Shui Po Central / Western Tsuen Wan Swai Chung Wong Kok Causeway Bay Central Fap Mun Station Tsuen Wan Kok Causeway Bay Central Tap Mun Pollutant: Ozone Station	No. of hours 7462 8591 8571 8498 8043 8553 8477 8467 8277 8153 2015 5668 8316 8309 2414 6019 No. of	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.2 91.2	10 28 15 21 23 29 17 77 16 40 51 51 2 360 670 570 590 240	42 26 31 34 42 28 40 29 55 71 72 4 4 25 490 860 810 810 290	65 41 47 50 63 50 58 42 79 102 98 7 7 50 680 1090 1130 1010 380	75 88 59 67 69 88 71 79 58 107 133 128 12 Perce 75 900 1380 1490 1320 550	90 110 81 88 90 109 90 100 78 131 157 23 milles 90 1120 1680 1700 690 milles	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880 2130 1870 780	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 2140 2470 2060 880	99 157 129 131 140 152 136 152 128 182 228 46 220 46 1700 2390 2680 2390 2680 2320 940	mean 59 37 45 47 60 43 55 38 76 95 94 7 Geometric mean 646 1025 949 397 Geometric	mean 68 45 51 54 67 62 62 46 83 104 102 10	I hour 228 202 245 299 252 204 299 264 257 246 112 1 Highest 1 3680 3970 3800 3810 1810	24 hou 155 99 124 162 157 132 151 113 173 231 161 161 161 37 37 Highes 8 hou 3210 2890 2390 1290
Station Swun Tong Sha Tin Tai Po Yuen Long Sham Shui Po Central / Western Tsuen Wan Swai Chung Wong Kok Zauseway Bay Central Fap Mun Station Tsuen Wan Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019	(%) 85.2 98.1 97.9 97.0 97.6 96.8 96.7 94.4 93.1 68.8 85.9 95.6 94.9 95.6 94.9 82.4 91.2 Data capture (%)	10 28 15 21 23 29 17 27 16 40 51 2 0 360 670 590 240	42 26 31 34 42 28 40 29 55 71 72 4 400 860 810 760 290 25	65 41 47 50 63 50 58 42 79 102 98 7 7 50 680 1090 1130 0101 380	75 88 59 67 69 88 71 79 58 107 133 128 12 900 1380 1490 1320 550 Percoc 75	90 110 81 88 90 109 90 100 78 131 157 157 157 23 23 1120 16800 1890 700 690 90 90 1120 1680 1890 90 1120 1680 1890 1690 90 1000 10	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880 2130 8780 8780	143 115 117 125 140 122 136 203 38 98 1470 2140 2470 2470 2060 880	99 157 129 131 140 152 136 152 128 182 218 220 46 2390 2680 2390 2680 2220 940	mean 59 37 45 47 60 43 55 38 76 95 38 76 94 7 Geometric mean 646 1075 1025 949 397	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1183 1068 432	1 hour 228 202 245 299 252 204 299 264 259 264 259 264 259 246 112 Highest 1 hour 3680 3970 3810 1810 	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 Highes 8 hou 2390 1290 Highes 24 hou
Station Swun Tong Sha Tin Fai Po Yuen Long Yuen Long Sham Shui Po Central / Western Fsuen Wan Causeway Bay Central Fap Mun Fsuen Wan Mong Kok Causeway Bay Central Fap Mun Pollutant: Ozone Station Station Station Sugar Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 84553 2015 5668 0noxide No. of hours 8376 8316 8309 2414 6019 No. of nours 7398	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 94.9 94.9 94.9 94.9 94.9 94.2 Data capture (%) 84.4	10 28 15 21 23 29 17 27 16 40 51 51 12 360 670 570 240	42 26 31 34 42 28 40 29 55 71 72 4 40 29 55 5 5	65 41 47 50 63 50 58 42 79 102 98 7 7 50 680 1090 1130 1010 380	75 88 59 67 69 88 71 79 58 107 133 128 122 133 128 129 000 1380 1380 1320 550 Perce 75 23	90 110 81 88 90 109 90 100 78 131 157 23 entiles 90 1120 1680 1890 1700 690 entiles 90 41	124 96 100 123 104 115 92 146 172 177 30 95 1250 2130 1880 2130 1870 780	143 115 117 125 140 122 136 113 167 196 203 38 1470 240 240 240 240 240 240 240 240 240 24	99 157 129 131 140 152 136 152 128 220 46 99 1700 2390 22680 2220 940 99 80	mean 59 37 45 47 60 43 55 38 76 95 94 75 1075 1025 949 397 Geometric mean 10	mean 68 45 51 54 67 52 62 46 83 104 102 10 718 1146 1183 1068 432 Arithmetic mean 17	I hour 228 202 245 299 264 259 264 259 264 257 246 110 Highest 1 hour 36800 3810 1810 Highest 1 hour	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 Highes 8 hou 3130 3210 23900 1290 Highes 24 hou 52
Station Swan Tong Sha Tin Tai Po Yuen Long Sham Shui Po Central / Western Fsuen Wan Swai Chung Wong Kok Causeway Bay Central Tsuen Wan Wong Kok Causeway Bay Causeway Bay Causeway Bay Central Fap Mun Pollutant: Ozone Station Station Station Station Station Station Station Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 7398 8387	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.2 Data capture (%) 82.4 91.2	10 28 15 21 23 29 17 27 16 40 51 2 360 670 590 240	42 26 31 34 42 28 40 29 55 71 72 4 25 490 860 810 290 25 5 5 5	65 41 47 50 63 50 58 42 79 98 7 50 680 102 998 7 50 680 1029 98 7 50 680 10380 1130 19 99	75 88 59 67 69 88 71 79 58 107 1330 128 12 128 12 128 12 128 129 000 1380 1490 001 1320 550 Perce 75 23 46 46 46 46 46 46 46 46 46 46	90 110 81 88 90 109 90 100 78 131 157 157 23 mtiles 90 1120 16800 18900 18900 1990 1120 16890 1090 109 109 109 109 109 109	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880 1880 1880 780 95 53 99	143 115 117 125 140 122 136 203 38 98 1470 20470 2470 2470 2470 2470 2470 2060 880	99 157 129 131 140 152 138 152 128 218 220 46 218 220 46 218 220 248 220 248 220 248 220 248 220 248 220 248 200 200 200 200 200 200 200 20	mean 59 37 45 47 60 43 55 38 76 60 43 55 38 76 60 63 77 Geometric mean 1025 949 349 349 1025 949 102 101	mean 68 45 51 54 67 62 46 83 104 102 10 718 1143 1068 432	I hour 228 202 245 299 252 204 299 264 257 246 112 112 Highest 1 hour 3680 3970 3800 3810 1800 1810 117 199	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 37 Highes 8 hou 3210 2390 1290 Highes 24 hou 2390 1290
Station Swain Tong Sha Tin Fai Po Yuen Long Sham Shui Po Central / Western Fsuen Wan Swain Chung Wong Kok Causeway Bay Central Fsuen Wan Vong Kok Causeway Bay Central Fap Mun Pollutant: Carbon Me Station Station Station Station Station Station Station Station Station Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 7398 8387 8547	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.9 93.1 68.8 85.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 9	10 28 15 21 23 29 17 27 16 40 51 51 2 2 360 570 570 570 570 590 240	42 26 31 34 42 28 40 29 55 71 72 4 490 860 810 760 810 760 810 760 810 755 5 8	65 41 47 50 63 50 58 42 79 98 7 02 98 7 02 98 7 02 98 7 02 98 7 02 08 0 102 098 7 00 1030 0100 1030 0 1030 50 50 50 50 50 50 50 50 50 50 50 50 50	75 88 59 67 69 88 71 79 58 107 133 128 12 12 12 12 133 128 12 1380 1490 1380 1490 1380 1490 1380 1490 1380 1490 1380 1490 1380 1490 1490 1490 1490 1490 1490 1490 1490 1490 1490 1490 1490 1490 1490 1490 140 140 140 140 140 140 140 14	90 110 81 88 90 109 90 100 78 131 157 157 23 mitiles 90 1120 1680 1700 690 1120 1690 170 17	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880 2130 1870 780 780 95 53 91 88	143 115 117 125 140 122 136 137 196 203 38 98 1470 2140 2440 2440 2440 880 880 98 70 107	99 157 129 131 140 152 136 152 128 220 46 1700 2390 2220 940 2390 2220 940 118 119 118 119 119 110 152 128 129 129 129 131 140 152 128 129 129 129 129 129 129 129 129	mean 59 37 45 47 60 43 55 38 76 95 94 75 1075 102 949 397	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1183 1068 432 Arithmetic mean 17 30 31	I hour 228 202 245 299 264 259 264 259 264 259 264 259 264 259 264 259 264 3970 3970 3800 3810 1810 117 199 173	24 hou 1555 99 9124 162 157 1322 157 132 157 132 157 132 157 132 157 132 157 132 157 132 157 132 157 132 157 132 157 132 157 132 157 157 157 157 157 157 157 157 157 157
Station	No. of hours 7462 8591 8573 8498 8043 8553 8477 84553 2015 5668 0noxide No. of hours 8376 8316 8309 2414 6019 No. of hours 8387 8387 8387 8387 8387 8547	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94	10 28 15 21 23 29 17 27 16 40 51 51 2 3600 6700 5700 5900 2400 2 2 2 2 2 2	42 26 31 34 42 28 40 29 55 571 72 4 4 25 490 810 760 290 25 5 5 8 4	65 41 47 50 63 50 58 42 79 8 7 98 7 50 680 1090 680 1090 1010 380 1010 380	75 88 59 67 69 88 71 79 58 107 133 128 12 12 1380 1380 1380 1320 550 75 23 46 47 32	90 110 81 88 90 109 90 100 78 131 157 157 137 157 131 157 137 157 131 157 137 157 131 157 131 157 131 157 131 157 131 157 131 157 131 157 131 157 131 157 157 157 157 157 157 157 15	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880 780 95 53 91 88 75	143 115 117 125 140 122 136 113 167 203 38 1470 2140 2140 2470 2470 2060 880 98 70 107 107	99 157 129 131 140 152 136 152 182 228 182 220 246 99 97 99 97 99 99 80 118 119 119 128 182 2220 940 99 99 99 110 110 110 110 128 128 128 128 128 128 128 128	mean 59 37 45 47 60 43 55 38 76 95 94 77 60 646 1075 1025 949 397 Geometric mean 10 15 18 11	mean 68 45 51 54 67 52 62 46 83 104 102 0	1 hour 228 202 245 299 264 259 264 259 297 246 110 1 hour 3680 3870 3800 3810 1810 Highest 1 hour 117 199 173 187	24 hours 1555 999 1244 162 157 132 231 151 113 173 37 133 37 133 37 133 3210 2890 23900 23900 23900 23900 24 hours 1290 1290 1290 1294 8 129 140 155 151 151 151 151 151 151 151 151 15
Station Swan Tong Sha Tin Tai Po Yuen Long Sham Shui Po Central / Western Fsuen Wan Swai Chung Wong Kok Causeway Bay Central Tap Mun Pollutant: Carbon Mu Station Fsuen Wan Mong Kok Causeway Bay Central Fap Mun Pollutant: Ozone Station Station Station Station Sha Tin Tai Po Yuen Long Sham Shui Po Central / Western	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 7398 8387 8547 8418 7909	(%) 85.2 98.1 97.9 91.8 97.6 96.7 94.4 93.1 68.8 85.9 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94	10 28 15 21 23 29 17 27 16 40 51 2 2 360 670 570 590 240 2 2 3 2 1 1 2 1 2 1 2 1 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	42 26 31 34 42 28 40 25 571 490 810 760 290 25 5 8 4 4 4 4 4 4 4 4 4 4 4 4 4	65 41 47 50 50 50 58 42 79 102 98 7 7 98 7 7 98 7 7 98 7 7 98 7 7 98 7 7 9 102 98 7 9 8 0 98 7 9 102 98 7 9 102 98 7 9 102 98 7 9 103 98 7 9 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 7 102 98 102 98 7 102 98 103 10 100 10 10 10 10 10 10 10 10 10 10 10	75 88 59 67 69 88 71 79 55 8107 79 55 8107 133 128 122 1330 1320 550 1380 1320 550 75 75 23 46 47 225	90 110 81 88 90 109 90 100 78 131 157 23 mtiles 90 1120 1680 1890 1700 690 11700 690 41 74 74 57	124 96 100 123 104 115 92 146 172 177 30 95 1250 1880 2130 1870 780 95 53 91 88 75 60	143 115 117 125 140 122 136 113 167 196 203 38 1470 2140 2470 2470 2470 2470 2470 2470 2470 70 107 107 107 78	99 157 129 131 140 152 138 152 218 128 128 128 128 220 46 1700 22300 22300 2220 940 99 80 118 119 119 89	mean 59 37 45 47 60 43 55 38 76 94 7 646 1075 949 399 1025 949 393	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1183 1068 432 Arithmetic mean 17 30 31 23 18	I hour 228 202 245 299 252 204 299 264 2597 246 112 112 Highest 1 hour 3680 3870 3880 3810 180 173 183 183	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 Highes 8 hou 3130 3290 2390 1290 Highes 24 hou 24 hou 2390 1290 1097 1097 1097 1097 1097 1097 1097 1097 1290 1097 109
Station Swarion Swarion Fai Po Yuen Long Sham Shui Po Dentral / Western Fsuen Wan Swarion Suseway Bay Causeway Bay Causeway Bay Causeway Bay Causeway Bay Collutant: Carbon Me Station Fourn Wan Sollutant: Ozone Station Countral Tap Mun Pollutant: Ozone Station Countral Station Sham Shui Po Central / Western Suen Wan Sham Shui Po Central / Western Suen Wan	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8477 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 7398 8387 8418 7909 8479	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 95.6 96.7 97.6 96.8 96.8 96.7 96.8 97.6 96.8 97.6 96.8 97.6 96.8 97.6 96.8 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7	10 28 15 21 23 29 17 16 40 51 2 10 3600 6700 5900 2400 2 2 1 5 2 1 10 10 57 2 10 10 10 10 57 10 57 57 57 57 57 57 57 57 57 57 57 57 57 57 	42 26 31 34 42 28 40 29 55 55 71 72 4 4 25 490 860 290 25 5 5 8 810 760 290 25 5 5 5 5 6	65 41 47 50 63 50 58 42 7 98 7 7 102 98 7 7 50 680 1090 1090 1010 380 1010 380 1010 380 1112 21 21	75 88 59 67 69 88 71 79 58 107 133 128 128 128 128 128 128 128 128	90 110 81 88 90 109 90 100 78 131 157 157 23 mtiles90 90 91 1120 1680 1780 1680 1700 690 97 41 74 57 46 69 51 74	124 96 100 106 123 104 115 92 146 172 177 30 95 1250 1880 780 780 780 95 53 88 87 5 53 88 860 84 65 88	143 115 117 125 140 122 136 113 167 196 203 38 1470 2140 22470 22470 22470 22470 22470 22470 2060 880 98 107 107 107 107 78 107 85 104	99 157 129 131 140 152 136 152 218 182 220 46 1700 2390 99 1700 2390 940 99 119 119 89 81 119 119 119 1	mean 59 37 45 47 60 43 55 38 76 95 94 77 1075 1025 949 397 10 15 18 11 10 19	mean 68 45 51 54 67 52 62 46 83 104 102 104 102 104 102 104 102 104 1146 1148 1146 1148 1068 432 Arithmetic mean 17 30 31 33 30	I hour 228 202 245 299 252 204 259 264 259 264 259 246 110 1001 36800 3870 3870 3870 1810 117 199 173 187 187	24 hou 155 99 124 162 157 132 151 113 231 161 37 7 7 130 2390 239000 239000 23900 239000 23900 239000 239000 239000 20
Station Swun Tong Sha Tin Tai Po Shan Shui Po Schraf / Western Tsuen Wan Kwai Chung Wong Kok Causeway Bay Central Tap Mun Pollutant: Carbon Mi Station Fsuen Wan Mong Kok Sauseway Bay Central Tap Mun Pollutant: Ozone Station Swun Tong Sha Tin	No. of hours 7462 8591 8573 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 8387 8387 8387 8418 7909 8379 8394	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 94.9 95.6 95.6 95.6 94.9 95.6 95.7 95.6 95.6 95.7 95.6 95.7 95.6 95.7 95.6 95.7 95.6 95.7 95.6 96.1 90.3 96.8 95.8	10 28 15 21 23 29 17 77 16 40 51 2 360 670 570 240 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 1 5	42 26 31 34 42 28 40 29 55 571 4 400 860 810 760 290 25 5 5 8 4 4 9 5 5 8 4 5 5 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 50 58 42 79 102 98 7 7 7 50 680 1090 1130 010 380 50 11 19 3 13 13 13 12	75 88 59 67 69 88 71 79 50 133 128 12 900 1380 1490 1320 550 1380 1490 1320 550 46 47 46 47 42 45 43 22 53 46 45 45 45 45 45 45 45 45 45 45	90 110 110 81 88 90 109 90 100 78 131 157 23 entiles	124 96 100 106 123 104 115 92 177 30 95 1250 1880 2130 780 95 53 91 88 875 60 84 65	143 115 117 125 140 122 1366 113 167 196 203 38 1470 22420 2060 880 98 98 70 107 107 107 107 278 80 85	99 157 129 152 152 152 152 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 94 95 94 75 1025 949 397 Geometric mean 10 15 18 11 10 19 11	mean 68 45 51 54 67 62 62 46 83 104 102 10 718 1183 1068 432 Arithmetic mean 17 30 31 23 18 30 20	I hour 228 202 245 299 252 204 299 284 259 284 257 246 112 110 Highest 1 hour 3680 3810 1810 1810 1813 187 183 187 183 187 174 174	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 3130 3210 2890 2390 1290 1290 1290 1290 1294 104 104 82 70 116 78 70 116 70 104 104 70 116 70 104 104 70 116 70 104 70 116 70 70 104 70 104 70 104 70 104 70 104 70 104 70 70 70 70 70 70 70 70 70 70
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of 8387 8387 8418 7909 8479 8394 8496 5846	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 85.9 85.9 85.9 82.4 94.9 95.7 97.6 96.8 96.7 96.8 96.7 96.8 96.8 96.9 82.4 95.7 97.6 96.8 96.1 90.3 96.8 97.0 96.8 96.8 97.0 88.8 97.0 96.8 96.1 90.3 96.8 97.0 96.8 96.8 96.1 90.3 96.8 97.0 96.8 96.8 96.1 90.3 96.8 97.0 96.8 97.0 96.8 95.8 97.0 88.6 97.0 97.0 97.6 96.1 90.3 96.8 97.0 88.6 97.0 97.0 97.0 97.0 97.6 97.0 97.6 96.1 90.3 96.8 97.0 88.6 97.0 88.6	10 28 15 21 23 29 17 77 16 40 51 2 360 670 570 240 2 3 2 3 2 3 2 3 2 1 5 2 1 5 2 3 2 3 2 1 5 2 1 21	42 26 31 34 42 28 40 29 55 55 71 72 4 4 25 490 860 290 25 5 5 8 810 760 290 25 5 5 5 5 6	65 41 47 50 63 50 58 42 7 98 7 7 102 98 7 7 50 680 1090 1090 1010 380 1010 380 1010 380 1112 21 21	75 88 59 67 69 88 71 79 58 107 73 128 128 128 128 129 900 1380 1380 1380 1380 1380 1380 139 550 - Perce 75 23 46 47 47 47 25 50 55 55 58 58 58 58 58 58 58 58	90 110 81 88 90 109 90 100 78 131 157 157 23 mtiles90 90 91 1120 1680 1780 1680 1700 690 97 41 74 57 46 69 51 74	124 96 100 106 123 104 115 92 146 172 177 30 95 1250 1880 780 780 780 95 53 88 87 5 53 88 860 84 65 88	143 115 117 125 140 122 136 113 167 196 203 38 1470 2140 203 38 1470 2040 880 880 98 1470 2040 2040 2040 2040 2040 2040 2040 2	99 157 129 131 140 152 136 152 138 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 94 7 646 1075 949 399 646 1075 949 39 1025 949 39 10 15 18 11 10 19 11 15	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1183 1068 432 Arithmetic mean 17 30 20 31 30 20 31	1 hour 228 202 245 299 252 264 259 264 259 264 259 264 112 Highest 1 hour 3680 3970 3800 3810 1810 Highest 1 hour 117 199 173 187 183 187 176	24 hours 1555 years 99 years 157 1322 157 1322 157 1323 151 113 173 231 161 37 31303 2300 23900 23900 23900 23900 24 hours 24 hours 24 hours 24 hours 24 hours 24 hours 24 hours 25 22 24 hours 26 hours 27 hours 27 hours 28 hours 29 hours 20 hours
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 84553 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 8375 8547 8418 7099 8479 8394 8496 Suspend No. of	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 85.9 85.9 85.9 82.4 94.9 95.7 97.6 96.8 96.7 96.8 96.7 96.8 96.8 96.9 82.4 95.7 97.6 96.8 96.1 90.3 96.8 97.0 96.8 96.8 97.0 88.8 97.0 96.8 96.1 90.3 96.8 97.0 96.8 96.8 96.1 90.3 96.8 97.0 96.8 96.8 96.1 90.3 96.8 97.0 96.8 97.0 96.8 95.8 97.0 88.6 97.0 97.0 97.6 96.1 90.3 96.8 97.0 88.6 97.0 97.0 97.0 97.0 97.6 97.0 97.6 96.1 90.3 96.8 97.0 88.6 97.0 88.6	10 28 15 21 29 17 16 40 51 2 360 570 590 240 2 3 2 3 2 3 2 10 2 3 2 1 5 2 1 5 2 1 5 2 1 5 2 1 5 2 1 5 2 1 2 2 2 2 2 2 2 2 2	42 26 31 34 42 28 40 29 55 57 4 4 25 5 8 4 4 9 9 55 5 8 4 4 9 55 5 8 4 4 9 9 55 5 5 5 5 8 4 4 9 9 55 5 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 51 50 50 50 50 50 50 50 50 50 50 680 1010 380 50	75 88 59 67 69 88 71 79 58 88 107 1133 128 12 1330 1490 550 900 1490 550 23 46 75 23 46 47 32 25 43 28 50 93	90 110 110 81 88 90 109 90 100 78 131 157 157 23 90 1120 1680 1890 1700 1890 1700 1680 1890 1700 1680 1680 1680 1709 90 1109 1680 1709 1680 1709 1680 1709 1680 1709 1680 1709 1680 1709 1680 1709 1680 1709 1680 1709 1680 1709 1680 1709 1680 1709 1700 1680 1709 1680 1709 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1000 1	124 96 100 106 123 104 115 92 146 177 30 2130 1880 2130 1880 2130 1870 780 95 53 91 88 875 60 84 65 88 81 335	143 115 117 125 140 122 136 196 203 38 98 1470 2470 2470 2470 2060 880 98 98 98 107 107 102 78 1004 155	99 157 129 152 152 152 152 152 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 94 7 646 1075 949 399 646 1075 949 39 1025 949 39 10 15 18 11 10 19 11 15	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1183 1068 432 Arithmetic mean 17 30 20 31 30 20 31	I hour 228 202 245 299 252 204 299 264 259 264 259 264 259 264 200 297 246 110 Highest 1 hour 3800 3810 1810 1810 Highest 1 hour 117 199 173 187 183 187 183 187 174 176 290 204 Highest 1	24 hou 155 99 124 162 157 132 151 113 173 231 161 37 3130 3210 2890 2890 2390 1290 1290 1290 1290 1290 1290 1295 104 104 82 70 1104 82 104 104 104 82 104 104 104 104 104 104 104 104
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of No. of Aburs 8387 8547 8547 8498 8498 8496 5846 Suspent No. of No. of hours	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94	10 28 15 21 29 17 77 16 40 51 2 10 50 590 240 10 2 2 3 2 1 5 2 1 10 570 2 10 	42 26 31 34 42 28 40 29 55 57 172 4 4 25 55 8 810 760 290 25 55 8 4 4 9 9 5 5 5 8 4 4 9 5 5 5 25	65 41 47 50 63 50 58 42 7 98 7 50 680 1090 1090 1090 1010 380 50 111 1130 1130 1130 1110 21 60	75 88 59 67 69 88 71 79 55 81 127 133 128 122 1330 1320 550 1380 1320 550 75 23 46 47 32 25 43 86 93	90 110 81 81 88 90 109 90 100 78 131 157 157 23 mtiles 90 1120 1680 1890 1700 690 90 41 74 72 57 46 69 51 74 121 mtiles 90 90	124 96 100 106 123 104 115 92 1250 1880 780 95 53 91 88 75 60 84 65 88 135	143 115 117 125 140 112 136 113 167 196 203 38 1470 203 38 1470 20470 20470 20470 20470 20470 20470 20470 20470 2047 207 207 207 207 207 207 207 207 207 20	99 157 129 131 140 152 136 152 138 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 60 43 55 94 7 Geometric mean 646 1075 949 397 Geometric mean 10 15 18 11 10 15 18 11 10 19 11 15 51	mean 68 45 51 54 67 62 46 83 104 102 10	1 hour 228 202 245 299 252 204 299 264 259 264 259 264 259 264 112 Highest 1 hour 3680 3970 3800 3810 1810 183 187 173 187 174 176 239 Highest 1 hour	24 hours 155 99 124 162 157 132 151 113 173 231 161 37 133 231 161 37 133 231 161 37 133 231 161 37 132 144 162 157 157 157 157 157 157 157 157
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8477 8467 8277 8153 2015 5668 onoxide No. of hours 7398 8387 8541 7398 8387 8418 7909 8448 65846 S846 Suppending No. of hours 7398 8375 8418 7009 8479 8394 8466 Suppending No. of hours 7154	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 95.6 96.8 97.6 96.8 97.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 95.6 96.8 97.6 96.8 95.6 96.8 97.6 96.8 95.6 94.9 95.6 96.8 95.7 97.6 96.8 95.8 97.0 88.6 254 254 255	10 28 15 21 23 29 17 16 40 51 2 10 360 670 570 240	42 26 31 34 42 28 40 29 55 57 17 2 4 40 860 810 760 290 25 5 5 8 8 4 4 9 9 5 6 35 35	65 41 47 50 63 50 58 42 79 102 98 7 7 50 680 1090 1130 1010 380 50 11 1010 380 21 12 21 60 50 42	75 88 59 67 69 88 107 133 128 107 133 128 127 50 000 1490 1320 1550 23 46 47 322 25 23 46 47 322 55 23 46 93 93	90 110 110 81 88 90 109 90 100 78 131 157 157 23 90 1120 1580 159 1120 1680 690 41 74 74 69 51 74 121 57 25 78 82	124 96 100 106 123 104 115 92 177 30 95 1250 1880 2130 1880 2130 1870 780 95 53 91 1870 780 95 53 91 95 95 99 99	143 115 117 125 140 122 136 113 167 196 203 38 1470 2140 2470 22470 22470 22470 22060 880 98 70 107 107 107 107 107 107 107 85 104 155 98 98 119	99 157 129 131 140 152 152 152 152 152 152 152 152	mean 59 37 45 47 60 43 55 38 76 95 94 75 1075 1025 949 397 Geometric mean 10 15 18 11 10 15 18 11 10 15 16 17 18 11 10 15 16 17 18 19 11 10 19 11 10 Geometric mean 41	mean 68 45 51 54 67 52 62 46 83 104 102 104 102 718 1146 1183 1068 432 Arithmetic mean 17 30 23 18 30 20 31 66 Arithmetic mean 47	I hour 228 202 245 299 252 204 259 264 259 264 259 264 259 264 259 264 259 264 259 264 259 264 100 3970 3970 3800 3810 1810 117 199 173 187 187 174 187 174 174 239 Highest 1 239 297	24 hours 155 99 124 162 157 132 231 161 3130 2310 2390 2390 2390 2390 2390 2390 2390 1290 1290 1290 1490 151 141 151 151 151 151 151 151
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8498 8043 8553 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of No. of hours 7398 83847 8418 909 8479 8394 8496 5846 9 9 9 9 8598 9 8496 5846	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 95.6 94.9 94.9 95.6 94.9 94.9 95.6 94.9 95.6 94.9 95.7 97.6 96.1 90.3 96.8 97.0 95.8 97.0 96.1 90.3 96.8 97.0 97.6 96.1 90.3 96.8 97.0 97.6 96.1 90.3 96.8 97.0 97.6 96.1 90.3 96.8 97.0 97.0 97.6 96.1 90.3 96.8 97.0 97.0 97.6 96.1 90.3 96.8 97.0 97.0 97.6 96.1 90.3 96.8 97.0 97.0 97.6 97.6 97.6 96.1 90.3 96.8 97.0 97.0 97.0 97.0 97.0 97.6 97.6 97.6 96.1 90.3 96.8 97.0 97.0 97.0 97.0 97.0 97.0 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.0 97.8 97.0 97.8 97.0 97.8 97.0 97.8 97.0 97.8 97.0 97.0 97.8 97.0 97.8 97.0 97.8 97.0	10 28 15 21 23 29 17 16 40 51 2 360 570 570 580 2 1 5 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 1 5 2 1 5 2 1 5 2 1 5 2 1 5 6 10 10 18	42 26 31 34 42 28 40 29 55 57 4 400 810 760 290 25 5 5 8 4 4 9 9 5 5 8 4 4 2 2 5 5 5 5 8 4 4 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 51 50 50 50 50 50 680 1090 680 1010 380 50 50 50 680 1130 133 13 10 21 60 50 <	75 88 59 67 69 88 71 79 50 133 128 12 900 1380 1490 1320 550 1380 1490 1320 550 46 47 75 23 46 47 47 59 67 69 69 69 69 69 69 69 69 69 69	90 110 110 81 88 90 109 90 100 78 131 157 157 23 90 1120 1680 1890 1700 690 411 74 72 57 46 69 51 74 125 75 157 23 90 85 85	124 96 100 106 123 104 115 92 146 177 30 95 12500 1880 1870 780 95 53 780 99 91 88 75 60 84 85 88 8135	143 115 117 125 140 122 136 113 167 196 203 38 203 38 1470 2040 2040 2040 2040 2040 2040 2040 2	99 157 129 152 152 152 152 152 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 94 95 94 75 1075 1025 949 949 9397 Geometric mean 10 15 18 11 10 19 11 15 38 Geometric mean 41 38	mean 68 45 51 54 67 52 62 46 83 104 102 10 718 1183 1068 432 Arithmetic mean 17 30 31 36 66 47 46	I hour 228 202 245 299 264 259 264 259 264 259 264 259 264 259 264 259 264 259 264 3680 3970 3800 3810 1810 1810 1810 1810 1810 1810 1810 1810 1810 1817 183 187 183 187 183 187 183 187 183 187 183 187 183 187 183 187 182 <td>24 hours 155 99 124 162 157 132 151 113 173 37 Higher 2890 23900 1290 Higher 24 hours 129 129 129 129 129 129 129 129</td>	24 hours 155 99 124 162 157 132 151 113 173 37 Higher 2890 23900 1290 Higher 24 hours 129 129 129 129 129 129 129 129
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 X414 8387 8547 8448 7908 83847 8448 7909 8394 8496 8466 Suspend No. of hours 7154 8598 8663	(%) 85.2 98.1 97.9 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 0 24.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9	10 28 15 21 23 29 17 16 40 51 2 360 670 570 590 240 2 3 2 10 2 3 2 10 2 3 2 10 2 3 2 1 21 5 2 1 21 65 2 10 19 18	42 26 31 34 42 28 40 29 55 57 4 4 25 4 4 9 55 5 5 8 4 4 9 55 5 5 8 4 4 9 55 5 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 50 50 50 50 680 10298 7 50 680 1098 7 50 680 1010 380 50 51 50 113 10 21 60 50 42 39 36	75 88 59 67 69 88 71 79 55 80 107 71 133 128 122 900 1380 139 139 139 139 139 139 139 139	90 110 81 81 88 90 109 90 100 78 131 157 157 23 	124 96 100 106 123 104 115 92 1250 1880 95 1250 1880 753 91 887 53 91 887 53 91 888 83 55 99 91 00 100	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 2040 880 98 970 107 107 107 107 107 107 107 107 107 107 107 107 107 107 1107 98 100 85 104 155 98 119 121 98 1124	99 157 129 131 140 152 136 152 138 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 94 7 Geometric mean 646 1075 1025 949 307 Geometric mean 10 15 18 11 10 15 18 11 10 15 18 11 15 51 Geometric mean 41 38 36	mean 68 45 51 54 67 52 62 46 83 104 102 10 Arithmetic mean 718 1183 1068 432 Arithmetic mean 17 30 31 23 8 30 20 31 66 47 46 44	I hour 228 202 245 299 252 204 299 252 264 259 264 259 246 112 Highest 1 hour 3660 3970 3800 3810 180 1810 1817 173 183 187 174 176 239 297 284 354	24 hours 155 99 124 162 157 132 151 113 173 231 161 37 133 231 161 37 133 231 161 37 133 231 161 37 162 199 129 132 157 132 157 132 157 132 157 132 157 133 133 161 37 162 105 105 105 105 105 105 105 105
Station Station Station Station Sham Tin Tai Po Yuen Long Sham Shui Po Dentral / Western Fsuen Wan Yong Kok Central Tap Mun Pollutant: Carbon Me Station Suen Wan Yong Kok Causeway Bay Central Fsuen Wan Yong Kok Causeway Bay Central Station Suen Wan Your Tong Sham Shui Po Central / Western Tsuen Wan Yuen Long Sham Shui Po Central / Western Tsuen Wan Yuen Long Sha Tin Tai Po Yuen Long Sham Shui Po Collutant: Respirable Station Yuen Long Sha Tin Suen Wan Yuen Long Sha Tin Suen Wan Yuen Long Sha Tin Suen Wan Yuen Long Sha Tin Sha Tin Suen Wan Yuen Long Sha Tin Sha Tin Suen Wan Yuen Long Sha Tin Suen Wan Yuen Long Sha Tin Yuen Long Sha Tin Yuen Long	No. of hours 7462 8591 8577 8498 8043 8553 8477 84553 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 X418 7909 8478 8479 8394 8496 S846 Suspend No. of hours 7154 8598 8663 8486	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 95.6 94.9 94.9 94.9 94.9 94.9 95.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 95.7 97.6 96.8 95.8 97.0 88.6 2dd Particulat Computed Computer (%) 88.6 2dd Particulat 88.6	10 28 15 21 23 29 17 16 40 51 2 10 360 5700 240 2 2 2 2 2 2 10 22 2 2 10 2 2 2 10 2 2 10 2 2 10 2 2 2 2 1 5 2 119 18 15 21	42 26 31 34 42 28 40 29 55 57 17 24 40 860 810 760 290 25 5 5 8 810 760 290 25 5 5 5 8 8 4 4 9 5 5 6 35 5 5 5 5 5 5 5 5 5 5 5 7 1 2 2 5 8 80 80 80 80 80 80 80 80 80 80 80 80 8	65 41 47 50 63 50 58 42 79 102 98 7 7 50 680 1090 1130 1010 380 1130 1010 380 21 11 92 3 13 10 60 50 50 50 50 50 50 50 50 50 50 50 50 50	75 88 59 67 69 88 71 79 58 88 107 73 128 128 128 1330 1490 1320 1490 1320 1490 1320 1490 1320 1490 1328 550 1490 1328 1490 1328 1490 1328 1490 1328 1490 1580 1490 1580 1490 1580 1580 1580 1580 1580 1580 1580 1580 1580 1580 1580 1580 1580 159	90 110 110 81 88 90 109 90 100 78 81 131 157 157 23 90 1120 1680 1890 1890 1890 90 1120 1680 1890 1800 1000 1800 1000 1800 1000 1800 1000 1800 1000 1800 1000 1800 1000 1800 100	124 96 100 106 123 104 115 92 177 30 95 1250 1880 2130 1880 2130 1870 780 95 53 91 88 875 60 88 84 65 88 84 59 99 9100 100 129	143 115 117 125 140 212 136 113 1167 122 136 203 38 203 2140 2470 22470 22470 22470 22470 22470 2060 880 98 70 107 107 107 107 107 107 107 107 107	99 157 129 131 140 152 152 152 152 152 152 152 152	mean 59 37 45 47 60 43 55 38 76 95 94 75 025 94 75 1075 1025 949 397 Geometric mean 10 15 18 11 10 15 18 11 10 19 11 15 38 36 46	mean 68 45 51 54 67 52 66 83 104 102 104 102 718 1146 1183 1068 432	I hour 228 202 245 299 264 259 264 259 264 259 264 259 264 259 264 259 264 259 264 3800 3810 Highest 1 hour 117 199 173 187 187 187 174 176 239 Highest 1 hour 297 284 354	24 hou 155 99 124 157 132 231 151 113 173 231 161 373 7 3100 2390 2390 2390 2390 2390 2390 2390 23
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 7398 8387 8547 8496 5846 909 8496 5846 9 Suspent No. of hours 7198 8387 8496 5846 909 8496 58663 8486 8663 8484 8064	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 95.7 97.6 96.1 90.3 96.8 97.0 88.6 Sed Particulatic 06.8 98.9 96.8 92.1	10 28 15 21 23 27 16 40 51 2 360 670 570 240 2 3 2 1 5 2 3 2 3 2 1 5 2 1 5 2 1 5 2 3 2 3 2 1 5 2 1 5 10 19 18 15 21 18	42 26 31 34 42 28 40 29 55 57 4 4 9 55 5 5 5 8 4 4 9 5 5 5 5 5 5 8 4 4 9 5 5 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 51 50 58 42 79 102 680 1090 680 1010 380 50 51 50 1130 1010 380 50 113 10 21 60 50 42 50 50 51 52 53 54 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50	75 88 59 67 69 88 71 79 55 88 107 79 55 88 12 133 128 12 133 128 12 133 128 12 1330 1330 1380 1380 1380 1380 1380 1380	90 110 81 81 88 90 109 90 100 78 131 157 157 23 1657 157 23 1657 1657 1657 1657 1650 1890 1120 1680 1890 1700 74 174 1257 74 1257 85 84 109 90 84	124 96 100 106 123 104 115 92 1250 1250 1880 95 1250 1880 780 95 53 91 88 75 60 84 65 88 81 35 99 90 100 100 129 99 99	143 115 117 125 140 122 136 167 196 203 38 1470 203 38 1470 20470 20470 20470 20470 20470 20470 20470 20470 2047 205 107 107 107 107 107 107 205 2470 2060 880 98 98 98 98 98 98 104 155	99 157 129 152 152 152 152 152 152 128 182 220 46 46 46 46 46 46 46 46 46 46	mean 59 37 45 47 60 43 55 38 76 60 43 55 94 7 Geometric mean 1025 949 397 Geometric mean 10 15 18 11 10 19 11 15 6 6 41 36 40	mean 68 45 51 54 57 67 62 46 83 104 102 10 Arithmetic mean 718 1183 1068 4323 31 30 21 31 30 20 31 30 20 31 30 20 31 47 44 57 47	I hour 228 202 245 299 252 204 299 264 259 264 257 246 112 1 Highest 1 1 hour 3800 3800 3810 180 1810 183 187 183 187 174 176 239 284 354 364 3802 302	24 hot 155 99 9124 162 157 132 151 113 173 231 161 37 313 313 313 313 313 313 313 313 3210 2890 2390 1290 1290 1290 1291 164 109 1153 153 153 153 153 153 153 153 153 15
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8277 8153 2017 8155 2015 8277 8155 2015 2016 No. of hours 7398 8375 8316 8309 2414 6019 No. of hours 7398 8334 8496 8448 9909 8394 8486 8663 8484 8064 8603 8484 8604	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 95.6 94.9 94.9 94.9 94.9 94.9 95.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 97.6 96.1 96.8 95.7 97.6 96.8 95.8 97.0 88.6 2dd Particulat Computed Computer (%) 88.6 2dd Particulat 88.6	10 28 15 21 23 29 17 16 40 51 27 16 40 51 2 10 360 670 570 240 2 10 2 10 2 10 2 10 2 10 12 2 10 12 2 10 17 18 15 21 18 17 18 17 18 15	42 26 31 34 42 28 40 29 55 57 4 40 29 25 4 40 29 25 55 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 50 50 50 50 50 680 1098 7 50 680 1090 1010 380 50 51 50 111 98 50 21 21 60 50 42 39 36 46 41 40	75 88 59 67 69 88 71 79 58 88 107 133 128 128 127 59 00 1330 1320 550 75 23 46 47 322 550 23 46 47 322 550 75 90 90 90 90 90 93	90 110 81 81 88 90 100 78 131 157 157 23 90 1120 157 157 23 90 1120 1680 690 41 74 72 57 46 90 41 74 41 72 57 46 99 82 88 84 109 90 82 88 84 109	124 96 100 106 123 104 115 92 1250 1880 75 30 1880 780 780 780 780 780 780 780 780 780	143 115 117 125 140 212 136 113 1167 122 136 203 38 203 2140 2470 22470 22470 22470 22470 22470 2060 880 98 70 107 107 107 107 107 107 107 107 107	99 157 129 131 140 152 136 152 138 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 95 94 75 025 94 75 1075 1025 949 397 Geometric mean 10 15 18 11 10 15 18 11 10 19 11 15 38 36 46	mean 68 45 51 54 67 52 62 46 83 104 102 104 102 104 102 1146 1148 1148 1068 432 Arithmetic mean 17 30 31 33 8 300 20 31 46 44 57 47 46 44 57 47	I hour 228 202 245 299 264 259 264 259 264 259 264 259 264 259 264 259 264 259 264 3800 3810 Highest 1 hour 117 199 173 187 187 187 174 176 239 Highest 1 hour 297 284 354	24 hours 155 99 124 162 157 132 231 161 133 173 377 Higher 24 hour 28900 23900 23900 23900 23900 23900 23900 23900 23900 24 hours 12900 131 131 131 131 131 131 131 1
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8477 8467 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 7398 8387 8547 8496 5846 909 8496 5846 9 Suspent No. of hours 7198 8387 8496 5846 909 8496 58663 8486 8663 8484 8064	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 95.7 97.6 96.1 90.3 96.8 97.0 88.6 Sed Particulatic 06.8 98.9 96.8 92.1	10 28 15 21 23 27 16 40 51 2 360 670 570 240 2 3 2 1 5 2 3 2 3 2 1 5 2 1 5 2 1 5 2 3 2 3 2 1 5 2 1 5 10 19 18 15 21 18	42 26 31 34 42 28 40 29 55 57 4 4 9 55 5 5 5 8 4 4 9 5 5 5 5 5 5 8 4 4 9 5 5 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 51 50 58 42 79 102 680 1090 680 1010 380 50 51 50 1130 1010 380 50 113 10 21 60 50 42 50 50 51 52 53 54 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50	75 88 59 67 69 88 71 79 55 88 107 79 55 88 12 133 128 12 133 128 12 133 128 12 1330 1330 1380 1380 1380 1380 1380 1380	90 110 81 81 88 90 109 90 100 78 131 157 157 23 1657 157 23 1657 1657 1657 1657 1650 1890 1120 41 74 72 57 46 69 51 74 1257 85 84 109 90 84	124 96 100 106 123 104 115 92 1250 1250 1880 95 1250 1880 780 95 53 91 88 75 60 84 65 88 81 35 99 90 100 100 129 99 99	143 115 117 125 140 122 136 167 196 203 38 1470 203 38 1470 20470 20470 20470 20470 20470 20470 20470 20470 2047 205 107 107 107 107 107 107 205 2470 2060 880 98 98 98 98 98 98 104 155	99 157 129 152 152 152 152 152 152 128 182 220 46 46 46 46 46 46 46 46 46 46	mean 59 37 45 47 60 43 55 38 76 60 43 55 94 7 Geometric mean 1025 949 397 Geometric mean 10 15 18 11 10 19 11 15 6 6 41 36 40	mean 68 45 51 54 57 67 62 46 83 104 102 10 Arithmetic mean 718 1183 1068 4323 30 31 30 20 31 30 20 31 30 20 31 30 47 44 57 47	I hour 228 202 245 299 252 204 299 264 259 264 257 246 112 1 Highest 1 1 hour 3800 3800 3810 180 1810 183 187 183 187 174 176 239 284 354 364 3802 302	24 hot 155 99 9124 162 157 132 151 113 173 231 161 37 313 313 313 313 313 313 313 313 3210 2890 2390 1290 1290 1290 1291 164 109 1153 153 153 153 153 153 153 153 153 15
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8277 8153 2017 8155 2015 8277 8155 2015 2016 No. of hours 7398 8375 8316 8309 2414 6019 No. of hours 7398 8334 8496 8448 9909 8394 8486 8663 8484 8064 8603 8484 8604	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 95.7 97.6 96.1 90.3 96.8 97.0 96.8 97.0 96.8 97.0 96.1 90.3 96.8 97.0 96.8 97.0 96.8 97.0 96.1 90.3 96.8 97.0 96.8 97.0 96.1 96.8 97.0 96.1 90.3 96.8 97.0 96.8 97.0 96.8 97.0 96.1 96.8 97.0 96.8 97.0 96.8 97.0 96.8 97.0 96.8 97.0 96.8 97.0 96.8 97.0 96.8 95.7 96.8 97.0 88.6 200 Particulati Data capture (%) 88.6 200 Particulati 96.8 97.0 96.8 96.8 96.7 96.1 96.8 96.8 96.8 96.8 96.9 96.8 96.8 96.8 96.9 96.8 97.0 88.6 29.8 96.8 97.1 98.2 98.2 98.8 97.0 98.2 98.8 97.0 98.2 98.8 97.0 98.2 98.8 97.0 98.2 98.8 97.0 98.2 98.8 97.0 98.8 97.0 98.8 97.0 98.8 97.0 98.2 98.8 97.0 97.0 97	10 28 15 21 23 29 17 16 40 51 27 16 40 51 2 10 360 670 570 240 2 10 2 10 2 10 2 10 2 10 12 2 10 12 2 10 17 18 15 21 18 17 18 15	42 26 31 34 42 28 40 29 55 57 4 40 29 25 4 40 29 25 55 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 50 50 50 50 50 680 1098 7 50 680 1090 1010 380 50 51 50 111 98 50 21 21 60 50 42 39 36 46 41 40	75 88 59 67 69 88 71 79 58 88 107 133 128 128 127 59 00 1330 1320 550 75 23 46 47 322 550 23 46 47 322 550 75 90 90 90 90 90 93	90 110 81 81 88 90 100 78 131 157 157 23 90 1120 157 157 23 90 1120 1680 690 41 74 72 57 46 90 41 74 41 72 57 46 99 82 88 84 109 90 82 88 84 109	124 96 100 106 123 104 115 92 1250 1880 75 30 1880 780 780 780 780 780 780 780 780 780	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 203 38 98 1470 20470 20470 2060 880 98 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 1085 104 155 98 119 124 156 120 126	99 157 129 131 140 152 136 152 138 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 Geometric mean 646 647 1075 1025 949 397 Geometric mean 10 15 18 11 10 19 11 15 51 Geometric mean 41 38 36 46 40 38	mean 68 45 51 54 67 52 62 46 83 104 102 104 102 1146 1148 1148 1068 432 Arithmetic mean 17 30 31 38 30 20 21 46 44 57 47 46 44 57 47	I hour 228 202 245 299 264 259 264 259 264 259 264 259 264 259 264 259 264 259 264 3680 3810 1810 117 199 173 187 183 187 176 239 Highest 1 hour 239 297 284 368 302 297 288 302 298	24 hours 155 99 124 162 157 132 231 161 133 173 231 161 133 173 231 161 133 231 161 133 231 161 133 231 161 231 161 231 161 231 161 231 161 175 161 175 161 173 231 161 173 234 104 164 167 173 234 104 164 167 173 234 104 164 164 174 239 104 164 165 164 174 174 174 174 174 174 174 17
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 7398 8387 8547 8448 8387 8547 8448 8064 8046 8486 84663 8484 8064 8063 8486 8403 8380	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 95.7 97.6 96.8 95.7 96.8 92.1 98.2 95.7 96.9	10 28 15 21 23 29 17 16 40 51 2 10 360 570 590 240 2 10 2 10 2 10 2 2 10 2 3 2 10 2 3 2 1 5 2 1 5 2 10 9 9 9 18 15 22 11 18 15 22	42 26 31 34 42 28 40 29 55 57 4 4 29 55 57 4 4 29 25 55 8 4 4 9 9 55 5 8 4 4 29 25 55 5 5 8 10 29 25 25 25 25 25 25 25 25 25 25	65 41 47 50 51 50 50 50 50 50 50 680 1029 7 50 680 1010 380 50	75 88 59 67 69 88 71 79 58 81 128 128 128 128 128 128 128	90 110 110 81 88 90 109 90 100 78 131 157 157 23 90 1120 1680 1890 1700 690 1890 1890 1890 1890 1700 1890 1680 1890 1109 1680 1800 1700 1800 1000 1800 1000	124 96 100 106 123 104 115 92 146 177 30 2130 1880 2130 1880 2130 1880 2130 1880 283 53 91 88 875 60 84 65 88 81 355	143 115 117 125 140 122 136 196 203 38 98 1470 2470 2470 2040 880 98 910 <td>99 157 129 121 152 152 152 152 152 152 152 152 152 152 152 152 152 152 152 218 2200 46 2390 2390 22300 22390 22390 22390 22390 22390 2390 22390 940 940 9111 99 111 99 136 138 141 155</td> <td>mean 59 37 45 47 60 43 55 38 76 95 94 75 025 94 77 Geometric mean 646 1075 18 11 10 19 11 15 51 Geometric mean 41 38 36 46 40 38 36 46 40 38 36 41</td> <td>mean 68 45 51 54 67 52 62 46 83 104 102 104 102 718 1146 1183 1068 432</td> <td>I hour 228 202 245 209 252 204 299 264 259 264 259 264 259 264 269 297 246 112 Highest 1 hour 183 187 183 187 174 176 239 297 284 354 382 302 298 353 340 10</td> <td>24 hot 155 99 9124 162 157 132 151 113 173 231 161 37 3133 2210 2390 2390 2390 2390 2390 2390 2390 1290 1290 1290 1290 1290 1290 1291 24 hot 104 104 104 105 153 153 153 153 153 153 153 153 153 15</td>	99 157 129 121 152 152 152 152 152 152 152 152 152 152 152 152 152 152 152 218 2200 46 2390 2390 22300 22390 22390 22390 22390 22390 2390 22390 940 940 9111 99 111 99 136 138 141 155	mean 59 37 45 47 60 43 55 38 76 95 94 75 025 94 77 Geometric mean 646 1075 18 11 10 19 11 15 51 Geometric mean 41 38 36 46 40 38 36 46 40 38 36 41	mean 68 45 51 54 67 52 62 46 83 104 102 104 102 718 1146 1183 1068 432	I hour 228 202 245 209 252 204 299 264 259 264 259 264 259 264 269 297 246 112 Highest 1 hour 183 187 183 187 174 176 239 297 284 354 382 302 298 353 340 10	24 hot 155 99 9124 162 157 132 151 113 173 231 161 37 3133 2210 2390 2390 2390 2390 2390 2390 2390 1290 1290 1290 1290 1290 1290 1291 24 hot 104 104 104 105 153 153 153 153 153 153 153 153 153 15
Station	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8477 84553 8477 8153 2015 5668 onoxide No. of hours 8375 8316 8304 2414 6019 No. of 7398 8387 8547 8418 7909 8394 8496 8486 8663 8484 8064 8603 8380 8484 8486 8486 8478 8478	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 95.6 96.7 97.6 96.1 90.3 96.8 97.0 84.4 95.7 96.8 97.0 88.6 Data capture (%) 84.4 95.7 96.8 97.0 88.6 Data capture (%) 84.4 95.7 96.8 97.0 88.6 Data capture (%) 84.4 95.7 96.8 97.0 88.6 Data capture (%) 84.4 95.7 96.8 97.0 88.6 Data capture (%) 88.6 Data capture (%) 88.6 Data capture (%) 88.6 Data capture (%) 84.7 96.2 96.8 97.0 88.6 Data capture (%) 84.7 96.2 96.8 97.0 88.6 Data capture (%) 84.7 96.2 96.7 96.2 96.7 96.2 96.7 96.2 96.7 96.2 96.2 95.7 96.2 96.2 95.7 96.2 96.2 96.2 95.7 96.2 95.7 96.2 96.2 95.7 96.2 95.7 96.2 95.7 96.2 96.2 95.7 96.2 95.7 96.2 95.7 97	10 28 15 21 23 29 17 16 40 51 2 10 360 570 590 240	42 26 31 34 42 28 40 29 55 57 4 4 25 4 9 25 5 5 8 4 4 9 5 5 5 8 4 4 9 5 5 5 5 8 4 4 9 29 25 25 25 25 25 25 25 25 25 25	65 41 47 50 51 50 58 42 79 102 680 1098 7 50 680 1010 380 50 51 50 51 50 50 51 50 51 50 51 50 51 50 51 50 50 51 50 51 52 50 50 50 50 50 50 50 50 50 50 50 50 50 50 5	75 88 59 67 69 88 71 79 58 88 107 133 128 127 59 000 1330 1490 1320 1490 1320 1320 1490 1320 1490 1320 1320 1490 1320 1320 1490 1320 1490 1320 1490 1320 1490 1320 1490 150	90 110 110 81 88 90 109 90 100 78 131 157 157 157 23 157 157 157 23 157 157 157 23 157 157 157 23 157 157 157 157 157 157 157 157	124 96 100 106 123 104 115 92 1250 1880 95 1250 1880 780 95 53 91 88 75 53 91 88 875 60 84 65 88 135 99 99 100 100 129 99 100 129 99 90 99 99 99 99 99 99 99 99 99 99 99	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 20470 20400 880 98 70 107 1085 104 156 98 98 98 119	99 157 129 131 140 152 136 152 138 128 128 128 128 128 128 128 12	mean 59 37 45 47 60 43 55 38 76 60 43 55 94 7 Geometric mean 646 1025 949 349 36 46 10 19 11 15 51 Geometric mean 41 38 40 38 44 34	mean 68 45 51 54 57 67 62 46 83 104 102 10 Arithmetic mean 778 1183 1068 30 31 32 18 30 20 31 66 47 47 47 47 47 47 42	I hour 228 202 245 299 264 259 264 259 264 259 264 259 264 259 264 259 264 259 264 259 264 3970 3800 3810 117 199 173 187 174 176 239 Highest 1 hour 297 284 353 302 288 302 288 302 283 306	24 hours 155 99 124 162 157 132 231 161 37 Highes 8 hours 234 hours 234 hours 244 hours 1290 Highes 24 hours 1290 Highes 1290 131 131 131 131 131 131 131 13
tation	No. of hours 7462 8591 8577 8498 8043 8553 8477 8455 8277 8153 2015 5668 onoxide No. of hours 8375 8316 8309 2414 6019 No. of hours 7398 8387 8547 8448 8387 8547 8448 8064 8046 8486 84663 8484 8064 8063 8486 8403 8380	(%) 85.2 98.1 97.9 97.0 91.8 97.6 96.8 96.7 94.4 93.1 68.8 85.9 Data capture (%) 95.6 94.9 95.6 96.8 97.6 96.8 97.6 96.1 90.3 96.8 95.8 97.0 88.6 264 Particulat Data capture (%) 88.6 264 Particulat Data capture (%) 88.6 264 Particulat 96.8 95.7 96.8 95.8 97.0 88.6 264 Particulat 96.8 92.1 98.2 95.7 96.8 92.1 98.2 95.7 96.8 92.1 98.2 95.7 96.8 92.1 98.2 95.7 96.8 92.1 96.8 92.1 96.8 92.1 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.8 95.7 96.9 96.8 95.7 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 96.8 95.7 96.9 95.7 96.9 95.7 96.9 95.7 96.9 95.7 96.9 95.7 96.9 95.7 96.9 95.7 96.9 95.7 96.9 95.7	10 28 15 21 23 29 17 16 40 51 2 360 670 570 240 2 3 2 10 2 3 2 10 2 3 2 1 5 2 1 5 2 1 5 2 3 2 3 2 1 5 2 10 19 18 15 21 18 15 21 14	42 26 31 34 42 28 40 29 55 57 4 40 860 810 772 4 40 860 290 25 5 5 5 5 5 5 5 5 5 5 5 5 5	65 41 47 50 50 50 50 50 63 79 102 98 7 50 680 1098 7 50 680 1010 380 50 11 19 23 13 10 23 13 10 21 12 21 60 50 42 39 6 40 44 35 57	75 88 59 67 69 88 71 79 58 107 79 58 128 128 128 128 129 Perce 75 900 138	90 110 110 81 88 90 109 90 100 78 131 157 157 23 90 1120 1680 1890 690 1120 690 1890 690 1890 690 1890 690 1890 690 180 690 180 690 180 690 180 690 180 690 180 180 180 180 180 180 180 18	124 96 100 106 123 104 115 92 1250 1880 2130 1880 2130 1870 780 95 53 91 1870 780 95 53 91 1870 780 95 95 99 9100 103 103 103 103 103 103 104 113	143 115 117 125 140 122 136 113 167 196 203 38 98 1470 203 38 98 1470 203 38 98 1470 2060 880 98 70 107 107 102 78 100 85 119 124 156 120 98 119 124 126 133 119 124 126 133 119 135	99 157 129 131 140 152 152 152 152 152 152 152 152	mean 59 37 45 47 60 43 55 38 76 60 43 55 38 76 00 43 55 94 7075 1075 1025 949 397 Geometric mean 10 15 18 11 10 15 51 Geometric mean 41 38 36 46 40 38 44 34 35	mean 68 45 51 54 67 52 62 46 83 104 102 104 102 104 102 104 102 104 102 104 102 104 1146 1148 1146 1148 123 30 20 31 66 47 46 44 57 47 51 42 62	I hour 228 202 245 209 252 204 299 264 259 264 259 264 259 264 269 297 246 112 Highest 1 hour 183 187 183 187 174 176 239 297 284 354 382 302 298 353 340 10	24 hours 155 99 124 162 157 132 231 161 3130 231 161 3130 2310 2390 2390 2390 2390 2390 2390 2390 2390 2390 1290 151 131 141 135 1290

Station	TSP	As	Be	Cd	Ni	Pb	Cr	AI	Mn	Fe	Ca	Mg	N/	Zn	Ва	Cu	Hg	Se	Na+	K+	CI-	Br-	SO4=	BAP	NH4+	NO3-
Kwun Tong	80	3.3	0.07	0.97	3.9	45	4.2	527	29	1059	2184	413	5.6	182	37	94	0.17	2.3	2479	450	2414	11	8502	0.10	1362	3906
Shatin	67	4.3	0.06	1.15	3.0	58	2.7	442	25	971	2305	352	5.1	174	28	80	0.18	1.8	1826	595	1612	10	8910	0.11	1443	2831
Tai Po	68	4.8	0.06	1.39	3.0	68	2.6	394	23	871	1424	325	4.9	141	24	74	0.17	2.7	1748	697	1511	9	9777	0.12	2382	3609
Yuen Long	97	5.8	0.08	1.87	4.8	91	3.9	663	34	1246	2492	357	7.6	217	26	182	0.18	2.0	1613	874	1765	11	10064	0.26	2343	4822
Sham Shui Po	86	6.0	0.06	1.39	6.3	66	3.7	544	32	1067	2287	459	7.9	161	31	79	0.18	3.0	2603	647	2559	11	10145	0.16	1870	4251
Central / Western	77	4.7	0.07	1.56	3.5	61	2.7	455	25	785	2011	525	6.3	158	17	59	0.18	1.9	3538	689	4095	16	10246	0.08	1994	4454
Tsuen Wan	74	4.5	0.06	1.48	4.3	68	2.7	414	24	813	1765	343	8.9	153	24	100	0.19	2.1	1926	639	1862	12	9339	0.16	1912	3480
Kwai Chung	63	3.8	0.05	1.51	5.8	57	3.0	376	21	699	1809	326	12.2	141	14	126	0.18	1.8	1904	565	1799	9	9027	0.08	1824	3176
Mong Kok	103	4.0	0.07	1.37	7.1	64	6.0	621	37	1310	3076	487	9.2	211	40	146	0.18	1.7	2705	649	3195	13	9680	0.30	1641	4335
Average	79	4.6	0.06	1.41	4.6	64	3.5	493	28	980	2150	399	7.5	171	27	105	0.18	2.1	2260	645	2312	11	9521	0.15	1864	3874

TABLE C6(a):1998 AIRBORNE SPECIES CONCENTRATIONS AS DERIVED FROM TOTAL SUSPENDED PARTICULATES

Note: 1. All figures are in nanograms per cubic metre except TSP which is in micrograms per cubic metre.

2. All values presented are annual arithmetic means.

3. Analysis of the concentrations of total carbon (C) and total hydrocarbon (THC) in TSP ceased in 1998.

Station	As	Be	Cd	Ni	Pb	Cr	Al	Mn	Fe	Ca	Mg	V	Zn	Ва	Cu	Hg	Se	Na+	K+	CI-	Br-	SO4=	BAP	NH4+	NO3-
Kwun Tong	0.00	0.00	0.00	0.00	0.05	0.00	0.60	0.03	1.20	2.47	0.47	0.01	0.21	0.04	0.11	0.00	0.00	2.81	0.51	2.73	0.01	9.63	0.00	1.54	4.42
Shatin	0.01	0.00	0.00	0.00	0.09	0.00	0.66	0.04	1.46	3.45	0.53	0.01	0.26	0.04	0.12	0.00	0.00	2.74	0.89	2.42	0.01	13.35	0.00	2.16	4.24
Tai Po	0.01	0.00	0.00	0.00	0.10	0.00	0.58	0.03	1.27	2.08	0.48	0.01	0.21	0.04	0.11	0.00	0.00	2.56	1.02	2.21	0.01	14.30	0.00	3.48	5.28
Yuen Long	0.01	0.00	0.00	0.00	0.09	0.00	0.68	0.04	1.28	2.56	0.37	0.01	0.22	0.03	0.19	0.00	0.00	1.66	0.90	1.81	0.01	10.34	0.00	2.41	4.95
Sham Shui Po	0.01	0.00	0.00	0.01	0.08	0.00	0.63	0.04	1.24	2.66	0.53	0.01	0.19	0.04	0.09	0.00	0.00	3.03	0.75	2.98	0.01	11.82	0.00	2.18	4.95
Central / Western	0.01	0.00	0.00	0.00	0.08	0.00	0.59	0.03	1.02	2.61	0.68	0.01	0.21	0.02	0.08	0.00	0.00	4.59	0.89	5.31	0.02	13.28	0.00	2.59	5.78
Tsuen Wan	0.01	0.00	0.00	0.01	0.09	0.00	0.56	0.03	1.10	2.40	0.47	0.01	0.21	0.03	0.14	0.00	0.00	2.62	0.87	2.53	0.02	12.69	0.00	2.60	4.73
Kwai Chung	0.01	0.00	0.00	0.01	0.09	0.00	0.59	0.03	1.10	2.85	0.51	0.02	0.22	0.02	0.20	0.00	0.00	3.00	0.89	2.84	0.01	14.23	0.00	2.87	5.01
Mong Kok	0.00	0.00	0.00	0.01	0.06	0.01	0.60	0.04	1.27	2.99	0.47	0.01	0.20	0.04	0.14	0.00	0.00	2.63	0.63	3.10	0.01	9.40	0.00	1.59	4.21
Average	0.01	0.00	0.00	0.01	0.08	0.00	0.61	0.03	1.22	2.68	0.50	0.01	0.21	0.03	0.13	0.00	0.00	2.85	0.82	2.88	0.01	12.12	0.00	2.38	4.84

TABLE C6(b):1998 AIRBORNE SPECIES CONCENTRATIONS AS DERIVED FROM TOTAL SUSPENDED PARTICULATES (EXPRESSED AS PERCENTAGE BY WEIGHT)

Station	RSP	As	Be	Cd	Ni	Pb	Cr	Al	Mn	Fe	Ca	Mg	V	Zn	Ва	Cu	Hg	Se	Na+	K+	CI-	Br-	SO4=	С	THC	BAP	NH4+	NO3-
Kwun Tong	53	3.0	0.06	0.84	2.8	39	1.8	192	14	499	690	254	5.6	141	20	36	0.18	1.6	1641	411	1190	9	8065	27061	1949	0.16	1928	2730
Shatin	46	4.0	0.06	1.07	2.7	51	1.5	191	15	525	830	216	5.1	145	21	28	0.19	1.6	1266	534	820	8	8422	22353	1327	0.12	1892	2036
Tai Po	50	4.4	0.06	1.19	2.3	60	1.5	195	14	471	540	206	4.9	113	16	54	0.18	2.3	1178	652	751	9	9302	25323	1380	0.15	2611	2599
Yuen Long	61	5.2	0.05	1.65	3.2	75	1.9	256	18	524	860	204	6.2	153	14	32	0.18	1.9	1137	776	1088	11	9266	30449	1880	0.33	2873	3705
Sham Shui Po	55	5.4	0.06	1.21	4.3	54	1.5	215	17	463	761	255	6.8	120	16	25	0.19	2.9	1592	560	1108	10	8846	27119	2043	0.18	2227	2997
Central / Western	49	3.9	0.06	1.30	2.7	52	1.4	190	15	360	660	275	6.0	128	11	26	0.20	1.8	1940	567	1824	11	8772	21900	1516	0.10	2298	3028
Tsuen Wan	54	4.2	0.06	1.38	3.2	59	1.4	181	14	395	648	214	7.8	127	13	27	0.19	2.0	1334	626	1008	10	9069	27951	1913	0.25	2351	2545
Kwai Chung	45	3.5	0.05	1.31	4.7	52	1.4	166	12	335	605	201	10.8	118	10	38	0.18	1.7	1299	559	926	9	8782	22308	1392	0.11	2250	2345
Mong Kok	63	3.8	0.05	1.29	3.8	55	2.0	211	17	496	859	254	6.3	136	16	41	0.19	1.7	1576	533	1474	10	8611	33311	3190	0.31	2322	3296
Average	53	4.1	0.06	1.25	3.3	55	1.6	200	15	452	717	231	6.6	131	15	34	0.19	1.9	1440	580	1132	10	8793	26420	1843	0.19	2306	2809

TABLE C7(a): 1998 AIRBORNE SPECIES CONCENTRATIONS AS DERIVED FROM RESPIRABLE SUSPENDED PARTICULATES

Note: 1. All figures are in nanograms per cubic metre except RSP which is in micrograms per cubic metre.

2. All values presented are annual arithmetic means.

Station	As	Be	Cd	Ni	Pb	Cr	Al	Mn	Fe	Са	Mg	V	Zn	Ва	Cu	Hg	Se	Na+	K+	CI-	Br-	SO4=	С	THC	BAP	NH4+	NO3-
Kwun Tong	0.01	0.00	0.00	0.01	0.07	0.00	0.36	0.03	0.95	1.31	0.48	0.01	0.27	0.04	0.07	0.00	0.00	3.12	0.78	2.26	0.02	15.32	51.40	3.70	0.00	3.66	5.19
Shatin	0.01	0.00	0.00	0.01	0.11	0.00	0.42	0.03	1.15	1.81	0.47	0.01	0.32	0.05	0.06	0.00	0.00	2.76	1.16	1.79	0.02	18.36	48.72	2.89	0.00	4.12	4.44
Tai Po	0.01	0.00	0.00	0.00	0.12	0.00	0.39	0.03	0.94	1.08	0.41	0.01	0.23	0.03	0.11	0.00	0.00	2.35	1.30	1.50	0.02	18.54	50.48	2.75	0.00	5.20	5.18
Yuen Long	0.01	0.00	0.00	0.01	0.12	0.00	0.42	0.03	0.86	1.40	0.33	0.01	0.25	0.02	0.05	0.00	0.00	1.86	1.27	1.78	0.02	15.12	49.69	3.07	0.00	4.69	6.05
Sham Shui Po	0.01	0.00	0.00	0.01	0.10	0.00	0.39	0.03	0.84	1.38	0.46	0.01	0.22	0.03	0.05	0.00	0.01	2.89	1.02	2.01	0.02	16.07	49.28	3.71	0.00	4.05	5.45
Central / Western	0.01	0.00	0.00	0.01	0.10	0.00	0.38	0.03	0.73	1.34	0.56	0.01	0.26	0.02	0.05	0.00	0.00	3.93	1.15	3.70	0.02	17.78	44.38	3.07	0.00	4.66	6.14
Tsuen Wan	0.01	0.00	0.00	0.01	0.11	0.00	0.34	0.03	0.74	1.21	0.40	0.01	0.24	0.02	0.05	0.00	0.00	2.48	1.17	1.88	0.02	16.89	52.06	3.56	0.00	4.38	4.74
Kwai Chung	0.01	0.00	0.00	0.01	0.12	0.00	0.37	0.03	0.74	1.34	0.44	0.02	0.26	0.02	0.08	0.00	0.00	2.88	1.24	2.05	0.02	19.44	49.37	3.08	0.00	4.98	5.19
Mong Kok	0.01	0.00	0.00	0.01	0.09	0.00	0.33	0.03	0.78	1.36	0.40	0.01	0.22	0.02	0.06	0.00	0.00	2.49	0.84	2.33	0.02	13.61	52.64	5.04	0.00	3.67	5.21
Average	0.01	0.00	0.00	0.01	0.10	0.00	0.38	0.03	0.86	1.36	0.44	0.01	0.25	0.03	0.07	0.00	0.00	2.75	1.10	2.14	0.02	16.79	49.78	3.43	0.00	4.38	5.29

TABLE C7(b): 1998 AIRBORNE SPECIES CONCENTRATIONS AS DERIVED FROM RESPIRABLE SUSPENDED PARTICULATES (EXPRESSED AS PERCENTAGE BY WEIGHT)

TABLE C8: TOTAL WET AND DRY DEPOSITION FOR 1998

(a) WET DEPOSITION

	Monitoring Station	Kwun Tong	Central / Western
	WET DEPOSITION (Ton/Ha)	21680	14984
	WEIGHTED MEAN pH (based on volume-weighted mean hydrogen ion concentrations ([H ⁺])	4.36	4.27
	WEIGHTED MEAN pH (based on volume-weighted mean pH)	4.60	4.48
	NO. OF SAMPLES	29	28
	NH4 ⁺	7.92	5.39
	NO ₃ ⁻	18.20	13.00
	SO₄ ⁼	36.45	29.43
Filtrate	CI	28.23	20.21
(Kg/Ha)	Na ⁺	18.79	11.05
,	K⁺	6.24	4.00
	Formate	4.38	3.03
	Acetate	4.37	3.04
	Са	8.05	4.89
	Mg	1.52	1.29
	WEIGHT	113.33	107.34
	Si	4.62	5.05
	AI	1.99	1.81
Residue	Са	0.26	0.27
(Kg/Ha)	Fe	1.19	0.60
	Mg	0.29	0.18
	V	0.09	0.06
	Mn	0.08	0.06
	Cu	0.09	0.08
	Ва	0.18	0.11

(b) DRY DEPOSITION

	Monitoring Station	Kwun Tong	Central / Western
	NO. OF SAMPLES	37	41
	NH_4^+	0.22	0.46
	NO ₃ ⁻	5.80	5.52
	SO₄ [⁼]	9.00	9.83
Filtrate	CI	8.56	11.63
(Kg/Ha)	Na [⁺]	4.84	6.94
	K⁺	0.63	0.69
	Formate	0.30	0.35
	Acetate	0.29	0.32
	Ca	6.58	6.22
	Mg	0.63	0.81
	WEIGHT	99.05	47.23
	Si	15.40	8.20
	AI	5.03	2.65
Residue	Ca	1.70	0.70
(Kg/Ha)	Fe	2.31	1.26
	Mg	0.26	0.17
	V	0.01	0.01
	Mn	0.06	0.03
	Cu	0.02	0.02
	Ва	0.04	0.02

Note: The weighted mean pH is calculated from the pH values measured by the Government Laboratory

TABLE C9: DIURNAL VARIATION OF AIR POLLUTANT CONCENTRATIONS FOR 1998

| Pollutant: Sulphu | r Dioxid | ar |

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| Station | | | Hr02

 | Hr03 | Hr04 | Hr05 | Hr06 | Hr07
 | Hr08
 | Hr09 | Hr10 | Hr11 | Hr12 | Hr13 | Hr14
 | Hr15 | Hr16 | Hr17 | Hr18
 | Hr19 | Hr20 | Hr21 | Hr22 | Hr23 |
| Kwun Tong | 7 | 7 | 6

 | 6 | 5 | 5 | 6 | 10
 | 14
 | 16 | 16 | 16 | 16 | 16 | 16
 | 18 | 20 | 18 | 14
 | 12 | 10 | 10 | 9 | 8 |
| Sha Tin | 5 | 5 | 4

 | 4 | 3 | 3 | 4 | 6
 | 8
 | 9 | 9 | 9 | 8 | 8 | 8
 | 9 | 9 | 10 | 10
 | 10 | 10 | 10 | 8 | 7 |
| Tai Po | 8 | 7 | 6

 | 6 | 5 | 6 | 8 | 11
 | 12
 | 11 | 10 | 10 | 10 | 9 | 9
 | 9 | 10 | 11 | 12
 | 12 | 11 | 11 | 10 | 8 |
| Yuen Long | 13 | 13 | 11

 | 12 | 10 | 10 | 12 | 16
 | 20
 | 22 | 23 | 23 | 20 | 18 | 19
 | 18 | 19 | 21 | 20
 | 19 | 17 | 16 | 15 | 14 |
| Sham Shui Po | 13 | 13 | 12

 | 12 | 12 | 12 | 14 | 16
 | 19
 | 22 | 21 | 20 | 19 | 20 | 21
 | 21 | 21 | 22 | 22
 | 21 | 20 | 19 | 16 | 14 |
| Central / Western | 10 | 11 | 9

 | 10 | 9 | 10 | 9 | 11
 | 15
 | 17 | 17 | 16 | 14 | 16 | 18
 | 20 | 21 | 19 | 20
 | 18 | 16 | 15 | 13 | 12 |
| Tsuen Wan | 9 | 8 | 7

 | 7 | 6 | 6 | 7 | 11
 | 16
 | 19 | 20 | 19 | 19 | 18 | 19
 | 21 | 21 | 22 | 19
 | 16 | 14 | 13 | 12 | 10 |
| Kwai Chung | 13 | 12 | 11

 | 10 | 9 | 9 | 9 | 11
 | 15
 | 18 | 19 | 19 | 18 | 18 | 19
 | 21 | 21 | 21 | 20
 | 18 | 17 | 15 | 14 | 13 |
| Mong Kok | 10 | 11 | 10

 | 11 | 9 | 10 | 11 | 16
 | 22
 | 27 | 28 | 26 | 24 | 23 | 24
 | 24 | 23 | 22 | 20
 | 19 | 17 | 15 | 14 | 12 |
| Causeway Bay | 17 | 15 | 15

 | 14 | 12 | 11 | 14 | 21
 | 28
 | 27 | 26 | 25 | 25 | 24 | 24
 | 25 | 24 | 22 | 21
 | 20 | 19 | 19 | 18 | 18 |
| Central | 12 | 11 | 9

 | 10 | 9 | 8 | 9 | 16
 | 29
 | 27 | 27 | 26 | 21 | 22 | 21
 | 22 | 22 | 24 | 25
 | 22 | 20 | 19 | 17 | 16 |
| Tap Mun | 3 | 3 | 3

 | 4 | 3 | 4 | 5 | 9
 | 11
 | 12 | 11 | 10 | 8 | 6 | 6
 | 6 | 6 | 6 | 6
 | 4 | 5 | 5 | 5 | 5 |
| | 0 | U | 0

 | - | 0 | | 0 | 0
 |
 | 12 | | 10 | 0 | | 0
 | Ū | | 0 | 0
 | | 0 | 0 | | |
| Pollutant: Nitroge | n Oxid | es |

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| Station | | Hr01 | Hr02

 | Hr03 | Hr04 | Hr05 | Hr06 | Hr07
 | Hr08
 | Hr09 | Hr10 | Hr11 | Hr12 | Hr13 | Hr14
 | Hr15 | Hr16 | Hr17 | Hr18
 | Hr19 | Hr20 | Hr21 | Hr22 | Hr23 |
| Kwun Tong | 147 | 71 | 57

 | 48 | 43 | 64 | 161 | 253
 | 281
 | 268 | 233 | 209 | 197 | 195 | 204
 | 216 | 241 | 264 | 269
 | 249 | 201 | 194 | 198 | 189 |
| Sha Tin | 100 | 68 | 55

 | 46 | 41 | 45 | 85 | 132
 | 124
 | 98 | 80 | 74 | 65 | 63 | 66
 | 72 | 82 | 98 | 116
 | 130 | 133 | 138 | 136 | 126 |
| Tai Po | 101 | 72 | 56

 | 46 | 45 | 53 | 93 | 142
 | 135
 | 101 | 88 | 82 | 79 | 76 | 76
 | 80 | 88 | 105 | 128
 | 132 | 120 | 121 | 121 | 114 |
| Yuen Long | 104 | 79 | 66

 | 56 | 54 | 70 | 114 | 152
 | 143
 | 122 | 111 | 104 | 95 | 93 | 95
 | 104 | 119 | 134 | 155
 | 161 | 145 | 142 | 137 | 129 |
| Sham Shui Po | 131 | 83 | 69

 | 61 | 58 | 64 | 113 | 174
 | 213
 | 207 | 182 | 166 | 155 | 162 | 172
 | 178 | 189 | 203 | 210
 | 193 | 169 | 161 | 152 | 151 |
| Central / Western | 74 | 54 | 49

 | 45 | 43 | 44 | 57 | 95
 | 126
 | 131 | 120 | 107 | 92 | 95 | 101
 | 105 | 113 | 120 | 123
 | 114 | 104 | 98 | 94 | 89 |
| Tsuen Wan | 116 | 68 | 54

 | 44 | 40 | 53 | 109 | 176
 | 204
 | 198 | 172 | 156 | 146 | 147 | 152
 | 160 | 174 | 195 | 209
 | 189 | 162 | 155 | 156 | 149 |
| Kwai Chung | 71 | 48 | 40

 | 33 | 29 | 32 | 51 | 87
 | 104
 | 107 | 97 | 90 | 83 | 83 | 86
 | 94 | 101 | 110 | 120
 | 114 | 98 | 89 | 89 | 85 |
| Mong Kok | 202 | 132 | 131

 | 113 | 104 | 113 | 184 | 300
 | 357
 | 359 | 330 | 297 | 274 | 276 | 307
 | 312 | 319 | 343 | 352
 | 320 | 273 | 270 | 271 | 259 |
| Causeway Bay | 455 | 331 | 305

 | 244 | 223 | 192 | 390 | 735
 | 766
 | 728 | 655 | 610 | 599 | 610 | 581
 | 608 | 657 | 664 | 665
 | 654 | 609 | 586 | 605 | 566 |
| Central | 259 | 156 | 136

 | 116 | 131 | 137 | 237 | 476
 | 654
 | 599 | 570 | 507 | 454 | 483 | 473
 | 499 | 526 | 564 | 573
 | 539 | 460 | 432 | 396 | 379 |
| Tap Mun | 11 | 11 | 11

 | 11 | 11 | 12 | 13 | 16
 | 17
 | 16 | 15 | 12 | 10 | 9 | 9
 | 10 | 10 | 11 | 11
 | 11 | 12 | 11 | 11 | 11 |
| Tap Wull | | |

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 | 17
 | 10 | 15 | 12 | 10 | 9 | 3
 | 10 | 10 | | | |
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| Pollutant: Nitric O | | |

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| Station | | Hr01 | Hr02

 | Hr03 | Hr04 | Hr05 | Hr06 | Hr07
 | Hr08
 | | Hr10 | Hr11 | Hr12 | Hr13 | Hr14
 | Hr15 | | Hr17 |
 | | Hr20 | Hr21 | Hr22 | Hr23 |
| Kwun Tong | 57 | 20 | 15

 | 12 | 10 | 18 | 67 | 119
 | 135
 | 125 | 103 | 87 | 80 | 77 | 81
 | 87 | 101 | 113 | 117
 | 107 | 82 | 79 | 82 | 79 |
| Sha Tin | 37 | 23 | 16

 | 12 | 10 | 11 | 29 | 54
 | 48
 | 33 | 24 | 20 | 16 | 15 | 15
 | 17 | 19 | 25 | 35
 | 46 | 49 | 54 | 54 | 50 |
| Tai Po | 34 | 21 | 14

 | 10 | 9 | 12 | 31 | 57
 | 52
 | 32 | 25 | 21 | 20 | 17 | 17
 | 18 | 19 | 25 | 37
 | 41 | 37 | 40 | 41 | 39 |
| Yuen Long | 38 | 26 | 20

 | 16 | 15 | 23 | 47 | 66
 | 57
 | 43 | 36 | 31 | 26 | 25 | 25
 | 27 | 33 | 40 | 52
 | 58 | 52 | 53 | 53 | 50 |
| Sham Shui Po | 46 | 26 | 19

 | 16 | 15 | 17 | 39 | 70
 | 92
 | 88 | 72 | 62 | 54 | 56 | 60
 | 62 | 67 | 74 | 78
 | 71 | 59 | 57 | 53 | 54 |
| Central / Western | 20 | 13 | 11

 | 10 | 9 | 10 | 14 | 29
 | 45
 | 47 | 40 | 32 | 25 | 24 | 25
 | 27 | 30 | 33 | 34
 | 31 | 28 | 27 | 26 | 25 |
| Tsuen Wan | 40 | 19 | 13

 | 9 | 7 | 12 | 38 | 75
 | 91
 | 86 | 69 | 58 | 51 | 50 | 50
 | 54 | 60 | 72 | 81
 | 72 | 59 | 57 | 59 | 56 |
| Kwai Chung | 21 | 12 | 9

 | 9 | 5 | 5 | 12 | 28
 | 36
 | 38 | 32 | 28 | 23 | 22 | 22
 | 24 | 26 | 29 | 35
 | 34 | 28 | 25 | 26 | 26 |
| | 84 | 47 | 48

 | 6
40 | 5
35 | 5
40 | 78 | 28
145
 | 176
 | 175 | 155 | 134 | 120 | 118 | 133
 | 135 | 20
140 | 29
156 | 35
164
 | 34
147 | 120 | 25
119 | 121 | 20 |
| /long Kok
Causeway Bay | 226 | 47 | 48

 | 109 | 100 | 40
84 | 205 | 416
 | 433
 | 407 | 357 | 325 | 316 | 321 | 303
 | 318 | 350 | 356 | 358
 | 352 | 327 | 314 | 326 | 302 |
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 | | | | | |
| Central | 115 | 59 | 49

 | 40 | 48 | 51 | 110 | 252
 | 358
 | 317 | 293 | 253 | 219 | 233 | 223
 | 239 | 257 | 281 | 291
 | 273 | 226 | 212 | 193 | 185 |
| Гар Mun | 1 | 1 | 1

 | 1 | 1 | 1 | 2 | 2
 | 3
 | 3 | 2 | 1 | 1 | 1 | 1
 | 1 | 1 | 1 | 1
 | 1 | 1 | 1 | 1 | 1 |
| Kwun Tong
Sha Tin
Tai Po | 60
44
49 | 41
34
39 | 34
30

 | 30
27 | 28
25 | 37
28 | 59
40 | 72
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 | 75
51
 | 77
48 | 76
44 | 76
43 | 75
41 | 76
40 | 80
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 | 83
47 | 88
53 | 91
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 | 85
60 | 76
57 | 74
56 | 72
53 | <u>69</u>
50 |
| Yuen Long | 47 | 39
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| Yuen Long
Sham Shui Po | | 40 | 36
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| Yuen Long
Sham Shui Po
Central / Western | 47
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| Yuen Long
Sham Shui Po
Central / Western
Tsuen Wan | 47
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Sham Shui Po
Central / Western
Tsuen Wan
Kwai Chung | 47
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| Yuen Long
Sham Shui Po
Central / Western
Fsuen Wan
Kwai Chung
Mong Kok | 47
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| Yuen Long
Sham Shui Po
Central / Western
Tsuen Wan
Kwai Chung
Mong Kok
Causeway Bay | 47
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86 | 54
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| Yuen Long
Sham Shui Po
Central / Western
Tsuen Wan
Kwai Chung
Mong Kok
Causeway Bay
Central | 47
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110 | 60
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106 | 58
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107 | 54
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| Yuen Long
Sham Shui Po
Central / Western
Tsuen Wan
Kwai Chung
Mong Kok
Causeway Bay
Central
Tap Mun
Pollutant: Carbon | 47
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Mono | 40
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11 | 43
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| Yuen Long
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Sentral / Western
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Dentral / Western
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Note: All units are in micrograms per cubic metre.

TABLE C10: AMBIENT LEVELS OF TOXIC AIR POLLUTANTS FOR 1998

Toxic Air Pollutants	Concentration Unit	Annual	Averages ^[1]
Toxic All Pollutalits		Tsuen Wan	Central/Western
Heavy Metals ^[2]			
Cadmium	ng/m ³	1.48	1.56
Hexavalent chromium	ng/m ³	0.33	0.52
Lead	ng/m ³	68	61
Nickel	ng/m ³	4.3	3.5
Organic Substances			
Benzene	μg/m ³	2.6	2.1
Benzo[a]pyrene	ng/m ³	0.41	0.29
1,3-Butadiene	μg/m ³	0.2	0.2
Formaldehyde	μg/m ³	4.47	5.28
Perchloroethylene	μg/m ³	1.6	3.5
Dioxins ^[3]	pg TEQ/m ³	0.097	0.080

Note:

[1] For TAP concentrations that are lower than the method detection limit (MDL), one half of the MDL is used in calculating the annual averages.

[2] For lead, nickel and cadmium, the reported figures are the respective 1998 annual average concentrations in the elemental analysis of total suspended particulates.

[3] The ambient level of dioxins is expressed here as toxic equivalent (TEQ) concentration of 2,3,7,8-Tetrachlorodibenzodioxin (TCDD) based on the International Toxic Equivalent Factors (I-TEF) of the North Atlantic Treaty Organisation (NATO/CCMS), 1988.