

Monthly Air Quality Monitoring at Cheung Chau (September 2025)

**Air Quality Monitoring Data Under Air Quality Objectives**

Pollutant	Averaging time	Concentration Limit	Mean	Range	Number of exceedances	Number of exceedances allowed under Hong Kong's Air Quality
Sulphur dioxide ( $\mu\text{g}/\text{m}^3$ )	10-minute	500	4.5	3.2 - 14.5	0	3
	24-hour	40	4.5	3.7 - 5.0	0	3
Respirable suspended particulates (PM10) ( $\mu\text{g}/\text{m}^3$ )	24-hour	75	10.6	4.7 - 19.3	0	9
	Annual	30	26.9	N/A	N/A	N/A
Fine suspended particulates (PM2.5) ( $\mu\text{g}/\text{m}^3$ )	24-hour	37.5	5.3	3.1 - 8.5	0	18
	Annual	15	15.0	N/A	N/A	N/A
Nitrogen dioxide ( $\mu\text{g}/\text{m}^3$ )	1-hour	200	10.2	0.0 - 66.8	0	18
	24-hour	120	10.2	0.0 - 31.0	0	9
	Annual	40	16.2	N/A	N/A	N/A
Ozone ( $\mu\text{g}/\text{m}^3$ )	8-hour	160	14.5	4.4 - 44.4	0	9
	Peak Season	100	N/A	N/A	N/A	N/A
Carbon monoxide ( $\mu\text{g}/\text{m}^3$ )	1-hour	30,000	192	0.0 - 496	0	0
	8-hour	10,000	193	0.0 - 457	0	0
	24-hour	4,000	192	0.0 - 412	0	0
Lead ( $\mu\text{g}/\text{m}^3$ ) in Total Suspended Particulates	Monthly	N/A	<0.012	N/A	N/A	N/A
	Annual	0.5	<0.012	N/A	N/A	N/A
Lead ( $\mu\text{g}/\text{m}^3$ ) in Respirable Suspended Particulates	Monthly	N/A	<0.012	N/A	N/A	N/A
	Annual	0.5	<0.012	N/A	N/A	N/A

**Other Air Quality Monitoring Data**

**Dioxins**

Pollutant	Averaging time	Result
Dioxins and Furans ( $\text{pg I-TEQ}/\text{m}^3$ )	Monthly	0.004

**Heavy Metal Contents in TSP**

Pollutant ( $\mu\text{g}/\text{m}^3$ )	Averaging time	Result
Aluminium	Monthly	13.52
Antimony		<0.018
Arsenic		<0.006
Barium		<24.58
Beryllium		<0.006
Calcium		<61.46
Cadmium		<0.006
Cobalt		<0.006
Chromium		<0.123
Copper		<0.031
Iron		<6.15
Lead		<0.012
Magnesium		<6.15
Managanese		<0.012
Mercury		<0.003
Nickel		<0.031
Selenium		<0.061
Thallium		<0.006
Vanadium		<0.031
Zinc		<18.44

**Heavy Metal Contents in RSP**

Pollutant ( $\mu\text{g}/\text{m}^3$ )	Averaging time	Result
Aluminium	Monthly	<0.307
Antimony		<0.006
Arsenic		<0.006
Barium		<0.123
Beryllium		<0.006
Calcium		<30.73
Cadmium		<0.006
Cobalt		<0.006
Chromium		<0.061
Copper		<0.012
Iron		<3.07
Lead		<0.012
Magnesium		<6.15
Managanese		<0.006
Mercury		<0.003
Nickel		<0.031
Selenium		<0.061
Thallium		<0.006
Vanadium		<0.031
Zinc		<0.307

**Hexavalent Chromium Content**

Pollutant ( $\text{ng}/\text{m}^3$ )	Averaging time	Result
Hexavalent Chromium	Monthly	0.023

\* - [https://www.epd.gov.hk/epd/english/environmentinhk/air/air\\_quality\\_objectives/air\\_quality\\_objectives.html](https://www.epd.gov.hk/epd/english/environmentinhk/air/air_quality_objectives/air_quality_objectives.html)