

Monthly Air Quality Monitoring at Cheung Chau (July 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 Objectives*
Sulphur dioxide ($\mu\text{g}/\text{m}^3$)	10-minute	500	4.5	3.2 - 12.4	0	3
	24-hour	40	4.5	3.7 - 6.0	0	3
Respirable suspended particulates (PM10) ($\mu\text{g}/\text{m}^3$)	24-hour	75	18.4	7.7 - 35.3	0	9
	Annual	30	27.5	N/A	N/A	N/A
Fine suspended particulates (PM2.5) ($\mu\text{g}/\text{m}^3$)	24-hour	37.5	9.9	2.8 - 25.4	0	18
	Annual	15	15.7	N/A	N/A	N/A
Nitrogen dioxide ($\mu\text{g}/\text{m}^3$)	1-hour	200	20.8	1.0 - 148.9	0	18
	24-hour	120	20.8	6.2 - 55.7	0	9
	Annual	40	16.2	N/A	N/A	N/A
Ozone ($\mu\text{g}/\text{m}^3$)	8-hour	160	45.5	4.1 - 168.5	6	9
	Peak Season	100	N/A	N/A	N/A	N/A
Carbon monoxide ($\mu\text{g}/\text{m}^3$)	1-hour	30,000	246	116 - 730	0	0
	8-hour	10,000	246	138 - 457	0	0
	24-hour	4,000	246	155 - 389	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 (pg I-TEQ/m ³)	Monthly	0.011

Heavy Metal Contents in TSP

Pollutant ($\mu\text{g}/\text{m}^3$)	Averaging time	Result
Aluminium	Monthly	16.59
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
Manganese		<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
Manganese		<0.006
Mercury		<0.003
Nickel		<0.031
Selenium		<0.061
Thallium		<0.006
Vanadium		<0.031
Zinc		<0.307

Hexavalent Chromium Content

Pollutant (ng/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