

Monthly Air Quality Monitoring at Cheung Chau (August 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	4.7	4.0 - 7.1	0	3
	24-hour	40	4.7	4.6 - 5.1	0	3
Respirable suspended particulates (PM10) ($\mu\text{g}/\text{m}^3$)	24-hour	75	15.2	7.4 - 32.4	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	6.9	3.0 - 13.1	0	18
	Annual	15	15.5	N/A	N/A	N/A
Nitrogen dioxide ($\mu\text{g}/\text{m}^3$)	1-hour	200	13.8	0.0 - 72.0	0	18
	24-hour	120	13.8	3.0 - 30.2	0	9
	Annual	40	15.7	N/A	N/A	N/A
Ozone ($\mu\text{g}/\text{m}^3$)	8-hour	160	17.5	3.5 - 73.0	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	370	43 - 753	0	0
	8-hour	10,000	369	119 - 634	0	0
	24-hour	4,000	370	192 - 559	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	0.012

Heavy Metal Contents in TSP

Pollutant ($\mu\text{g}/\text{m}^3$)	Averaging time	Result
Aluminium	Monthly	27.04
Antimony		<0.018
Arsenic		<0.006
Barium		38.10
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		28.27

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 (ng/m^3)	Averaging time	Result
Hexavalent Chromium	Monthly	0.026

* - https://www.epd.gov.hk/epd/english/environmentinhk/air/air_quality_objectives/air_quality_objectives.html