

## Monthly Air Quality Monitoring at Cheung Chau (April 2025)

### Air Quality Monitoring Data Under Air Quality Objectives

Pollutant	Averaging time	Concentration Limit	Mean	Range	Number of exceedances
Sulphur dioxide ( $\mu\text{g}/\text{m}^3$ )	10-minute	500	3.4	2.1 - 6.4	0
	24-hour	50	3.4	2.6 - 5.2	0
Respirable suspended particulates (PM10) ( $\mu\text{g}/\text{m}^3$ )	24-hour	100	54.2	13.5 - 245.2	3*
	Annual	50	26.3	N/A	N/A
Fine suspended particulates (PM2.5) ( $\mu\text{g}/\text{m}^3$ )	24-hour	50	20.8	7.2 - 69.3	3*
	Annual	25	15.1	N/A	N/A
Nitrogen dioxide ( $\mu\text{g}/\text{m}^3$ )	1-hour	200	19.7	0.0 - 64.6	0
	Annual	40	16.4	N/A	N/A
Ozone ( $\mu\text{g}/\text{m}^3$ )	8-hour	160	20.1	4.0 - 70.0	0
	1-hour	30,000	188	0 - 637	0
Carbon monoxide ( $\mu\text{g}/\text{m}^3$ )	8-hour	10,000	188	0 - 458	0
	Monthly	N/A	0.018	N/A	N/A
Lead ( $\mu\text{g}/\text{m}^3$ ) in Total Suspended Particulates	Annual	0.5	<0.012	N/A	N/A
	Monthly	N/A	0.012	N/A	N/A
Lead ( $\mu\text{g}/\text{m}^3$ ) in Respirable Suspended Particulates	Annual	0.5	<0.012	N/A	N/A
	Monthly	N/A	0.012	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	0.015

#### Heavy Metal Contents in TSP

Pollutant ( $\mu\text{g}/\text{m}^3$ )	Averaging time	Result
Aluminium	Monthly	12.91
Antimony		<0.018
Arsenic		0.012
Barium		<24.58
Beryllium		<0.006
Calcium		<61.46
Cadmium		<0.006
Cobalt		<0.006
Chromium		<0.123
Copper		<0.031
Iron		6.76
Lead		0.018
Magnesium		<6.15
Managanese		0.184
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	3.38
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		4.92
Lead		0.012
Magnesium		<6.15
Managanese		0.141
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	0.024

\* - Exceedance recorded between 13 April 2025 and 15 April 2025 were related to a sandstorm episode