

## Monthly Air Quality Monitoring at Cheung Chau (August 2024)

### 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	3.3	3 - 9	0
	24-hour	50	3.33	3 - 4	0
Respirable suspended particulates (PM10) ( $\mu\text{g}/\text{m}^3$ )	24-hour	100	15.3	8 - 25	0
Fine suspended particulates (PM2.5) ( $\mu\text{g}/\text{m}^3$ )	Annual	50	N/A	N/A	N/A
	Annual	25	N/A	N/A	N/A
Nitrogen dioxide ( $\mu\text{g}/\text{m}^3$ )	1-hour	200	20	0 - 108	0
	Annual	40	N/A	N/A	N/A
Ozone ( $\mu\text{g}/\text{m}^3$ )	8-hour	160	40.6	4 - 147	0
Carbon monoxide ( $\mu\text{g}/\text{m}^3$ )	1-hour	30,000	260	30 - 820	0
	8-hour	10,000	260	80 - 620	0
Lead ( $\mu\text{g}/\text{m}^3$ ) in Total Suspended Particulates	Monthly	N/A	<0.012	N/A	N/A
	Annual	0.5	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
	Annual	0.5	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	0.006

#### Heavy Metal Contents in TSP

Pollutant ( $\mu\text{g}/\text{m}^3$ )	Averaging time	Result
Aluminium	Monthly	14.13
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	0.025