

Particulate Exceedance - 13 May 2019 - Gunn Street Monitor

Summary

The 24-hour average particulate matter monitoring data collected at the Community Park and Gunn Street monitoring sites during 13 May, 2019 is shown in the table below. The data indicates that:

- The 24-hour average PM₁₀ concentration measured at Gunn Street of 51.2 µg/m³ exceeded the EPP Air criterion of 50.0 µg/m³
- The 24-hour average PM_{2.5} concentration measured at Gunn Street of 44.4 µg/m³ exceeded the EPP Air criterion of 25.0 µg/m³

Monitoring Location	Pollutant	24-hour average (µg/m ³)	EPP Air Criterion (µg/m ³)
Community Park	PM ₁₀		50
	PM _{2.5}		25
Gunn Street	PM ₁₀	51.2	50
	PM _{2.5}	44.4	25

The Community Park monitor was off line for maintenance.

The 24-hour average particulate level measured at the Gunn Street monitor coincided with significant road resurfacing /repair work that took place on Levi Street Birkenhead, on the 13 May 2019.

The Gunn Street monitor is located at the end of Levi Street and picked up dust generated by removal of the bitumen road surface (profiling) using road pavement removal machinery, trucks, sweeping and application of a new layer of asphalt.

The majority of the road repair work was undertaken between 7 am and 6 pm on the 13 May, with the completion of the asphalt application on the 14 May between 7 am- 10 am.

All of ABC's on-site monitors show that particulate levels are well below those measured at the Gunn Street monitor and confirm that ABC was not the source of the particulate exceedance.

Further particulate monitoring, meteorological data and incident details are provided in the following sections.

Location of Gunn Street monitor

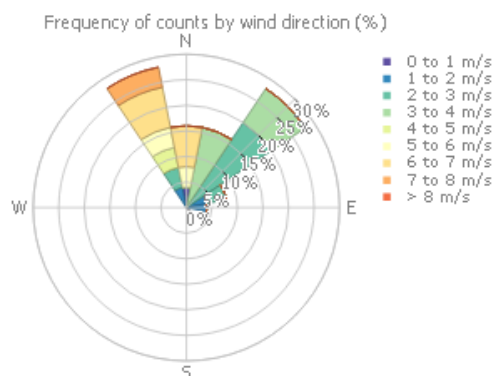
Aerial photograph shows the location of ABC, Gunn street particulate monitor, Levi Street and prevailing wind direction on the 13 May 2019



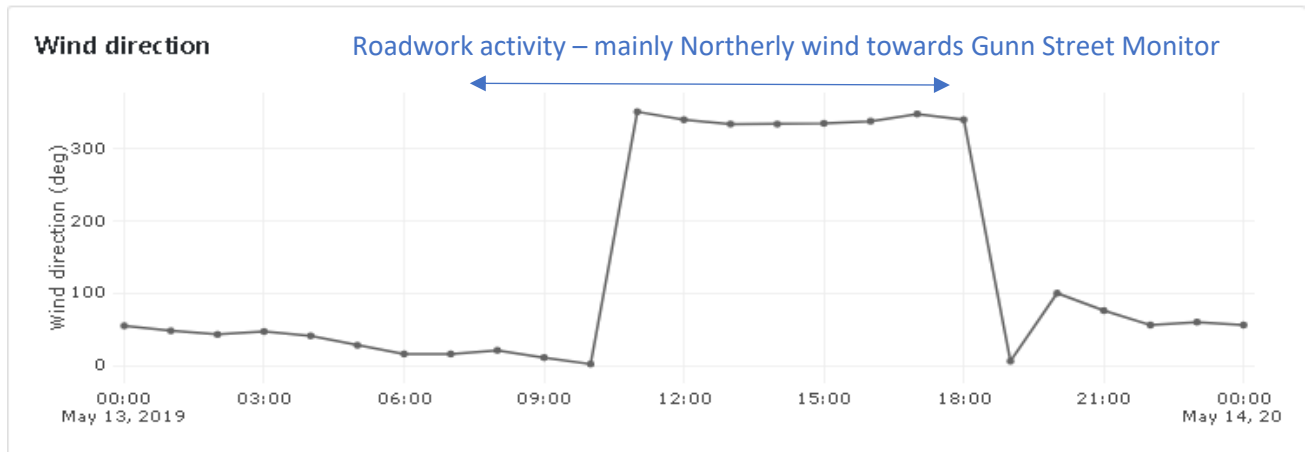
Meteorological details for the 13 May 2019

Wind rose showing wind direction and speed for the 13 May 2019

Wind rose



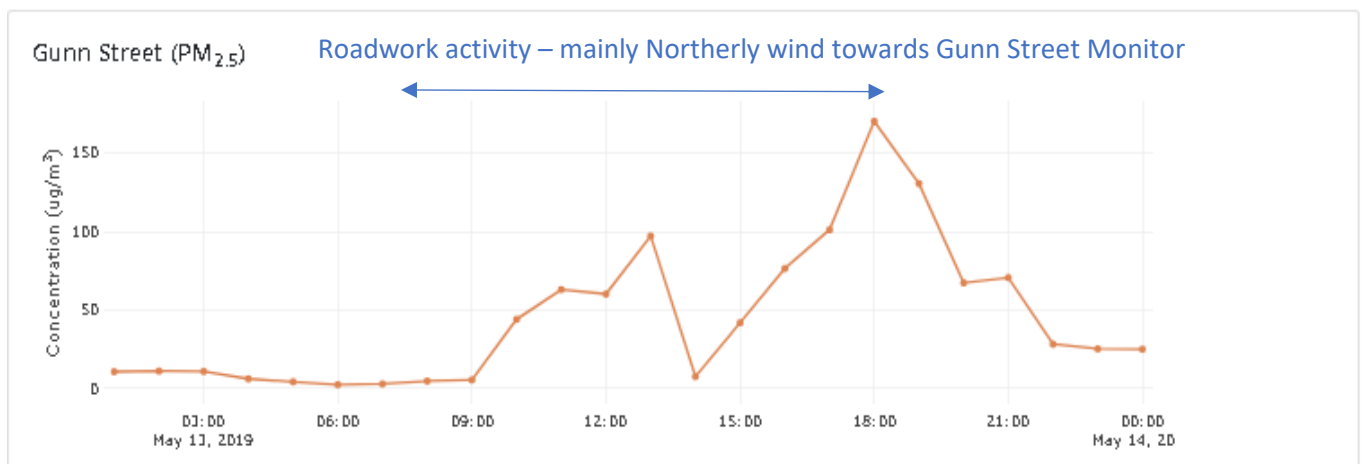
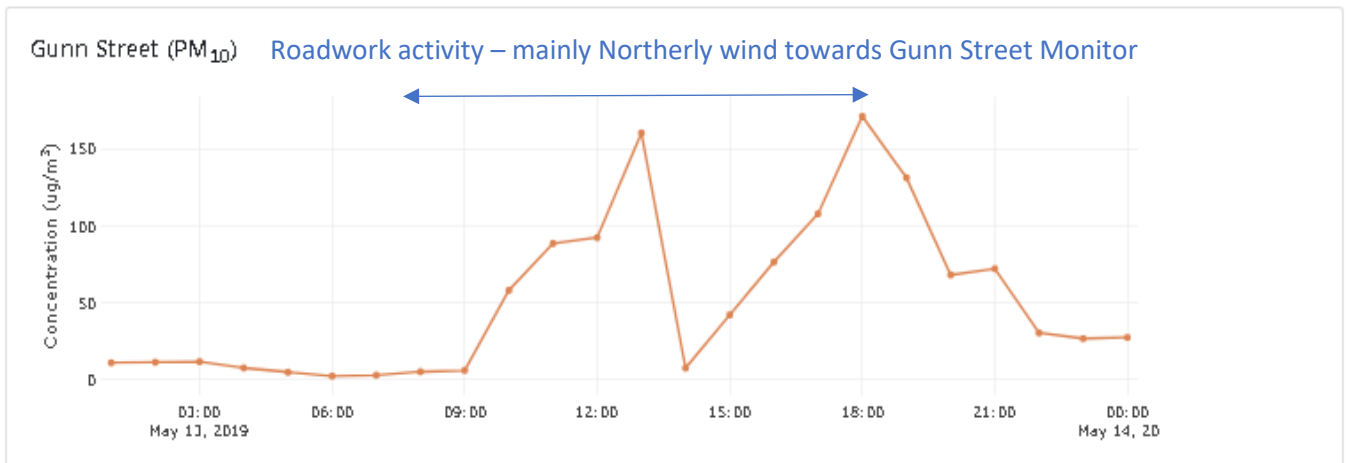
Graph showing wind direction throughout the 13 May 2019



Monitoring details

Gunn street

The figures below show the time series of 1-hr average particulate measurements from the Gunn Street monitor throughout 13 May, 2019



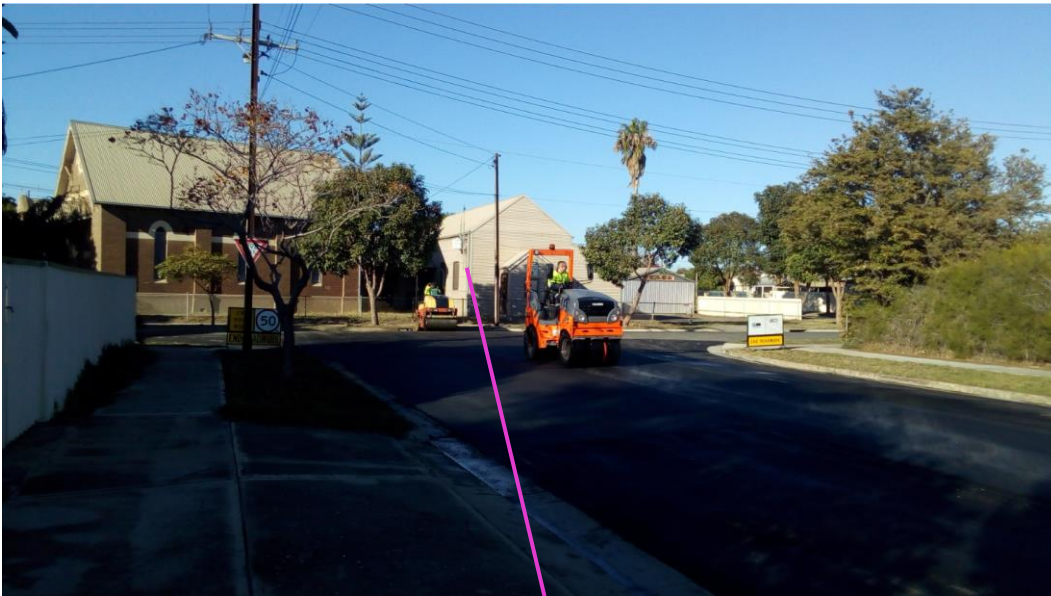
ABC On-site monitors

24-hour average particulate concentrations measured at ABC's onsite monitors is presented in the table below.

Monitoring Location	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
Southern Grounds	13	12
Eastern Grounds	7	6
Block 9	9	8
Northern Grounds	8	7

Photographs of Road Repair Work (on 14 May 2019)

Levi Street showing location of the monitor



Location of Gunn Street Monitor

View looking up Levi Street from the location of the Gunn Street monitor



Some of the equipment used in the road repair work

