

# Ground Level Particulate Notification Report - 04 June, 2020

**Adelaide Brighton Cement, Birkenhead Works**  
**62 Elder Road, Birkenhead, SA 501**  
**EPA Licence No: 1126**

## Summary

The 24-hour average particulate matter monitoring data collected at the Community Park and Gunn Street monitoring sites during 04 June, 2020 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM<sub>2.5</sub> concentration measured at Community Park of 25.6 µg/m<sup>3</sup> exceeded the EPP Air criterion of 25 µg/m<sup>3</sup>

**Table 1: Monitoring Summary**

Monitoring Location	Pollutant	24-hour average (µg/m <sup>3</sup> )	EPP Air Criterion (µg/m <sup>3</sup> )
Community Park	PM <sub>10</sub>	27.8	50
	PM <sub>2.5</sub>	25.6	25
Gunn Street	PM <sub>10</sub>	17.4	50
	PM <sub>2.5</sub>	16.9	25

The 24-hour average PM<sub>2.5</sub> concentration measured at Community Park of 25.6 µg/m<sup>3</sup> exceeded the EPP Air criterion of 25.0 µg/m<sup>3</sup>. All ABC monitors (on site and off site), showed similar particulate levels and trends. This indicates the particulate level was from a localised airshed condition, rather than related to any specific site activity. Elevated levels of particulate in the early hours of the morning dropped during the day before starting to rise early in the evening to elevated levels. PM<sub>2.5</sub> is commonly produced from combustion sources. Given the low wind speeds, reduced air shed flushing, the PM<sub>2.5</sub> particulate levels and trends are indicative of the increased use of domestic wood heaters at this time of the year.

Unfortunately EPA monitoring data was unavailable at the time of preparing this report

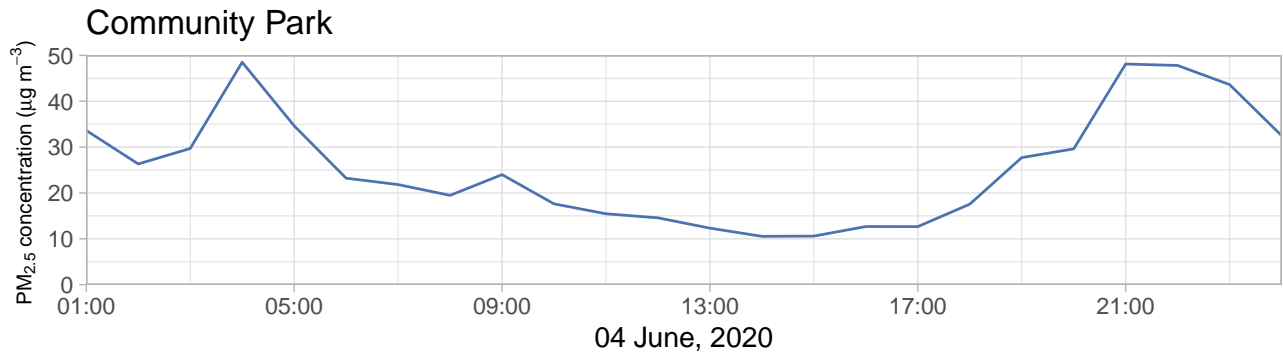
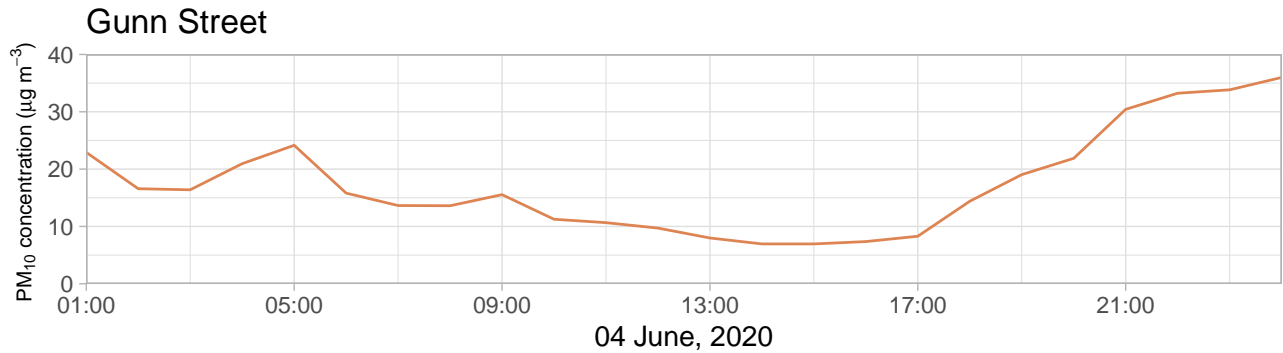
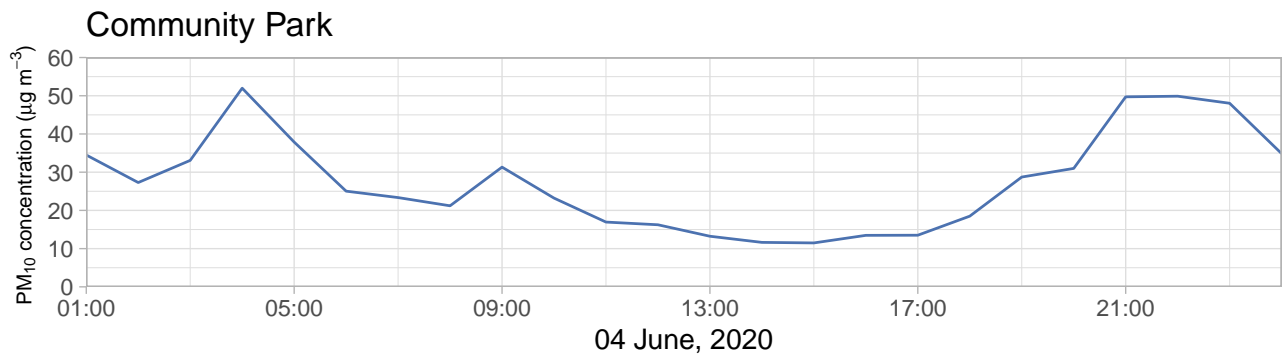
### Community Monitoring

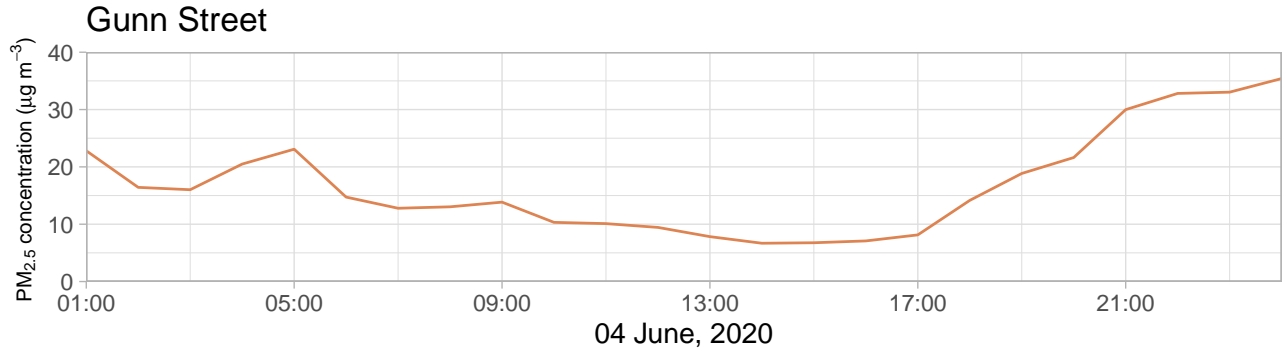
Monitoring data collected at the community monitoring sites is presented in this section.

The table below shows the proportion of PM<sub>10</sub> and PM<sub>2.5</sub> measured at each monitor, according to the average wind direction at the time of monitoring.

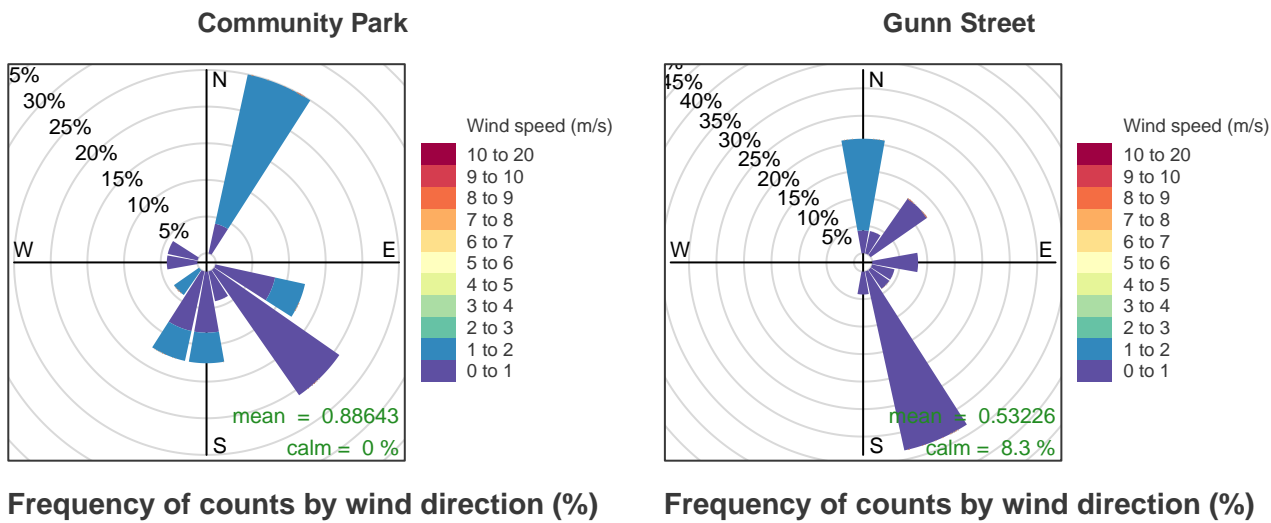
Monitoring Location	Direction	PM <sub>10</sub> proportion (%)	PM <sub>2.5</sub> proportion (%)
Community Park	From direction of ABC (WD < 180)	69	67
Community Park	From other direction (WD > 180)	31	33
Gunn Street	From direction of ABC (WD < 180)	98	98
Gunn Street	From other direction (WD > 180)	2	2

The figures below show the time series of 1-hour average measurements throughout 04 June, 2020

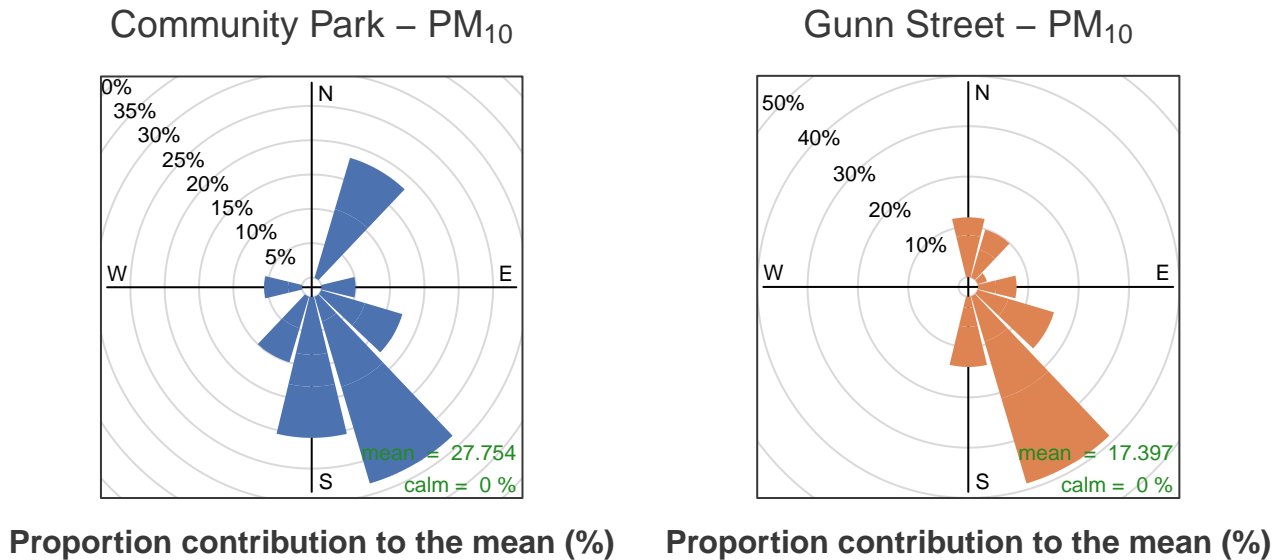




The figures below show wind roses summarising the period 04 June, 2020.



The figures below show dust roses summarising the period 04 June, 2020



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*Recent air quality data measured by ABC or EPA is indicative only and may be affected by instruments not working correctly, power failures and the like. Data is published directly from the monitors and will be validated at a later date.*