

# Ground Level Particulate Notification Report - 26 July, 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 26 July, 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 31.7 µg/m<sup>3</sup> exceeded the EPP Air criterion of 25 µg/m<sup>3</sup>
- The 24-hour average PM<sub>2.5</sub> concentration measured at Gunn Street of 25.5 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>	32.6	50
	PM <sub>2.5</sub>	31.7	25
Gunn Street	PM <sub>10</sub>	25.7	50
	PM <sub>2.5</sub>	25.5	25

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. Calm to low wind speed conditions, and low temperatures resulted in reduced flushing of the local air shed. Particulate levels in the early morning were high and slowly decreased during the day as air temperature and wind speeds increased, however calm conditions late afternoon/early evening resulted in an increase in particulates during the evening, before wind speeds increased, providing some flushing of the air shed, and lowering of particulate levels, assisted by light rainfall about midnight. The PM<sub>2.5</sub> particulate levels are indicative of combustion sources most likely from the increased use of domestic wood heaters at this time of the year, combining with calm and cold conditions resulting in increased particulate levels.

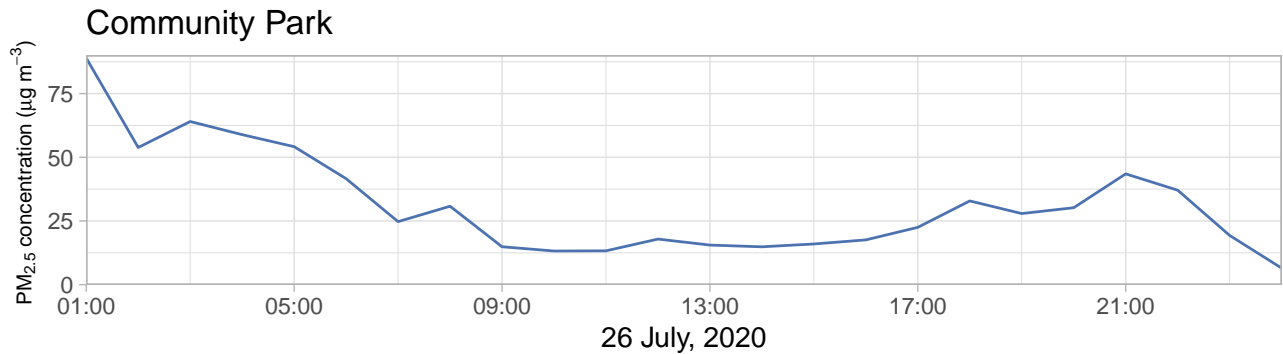
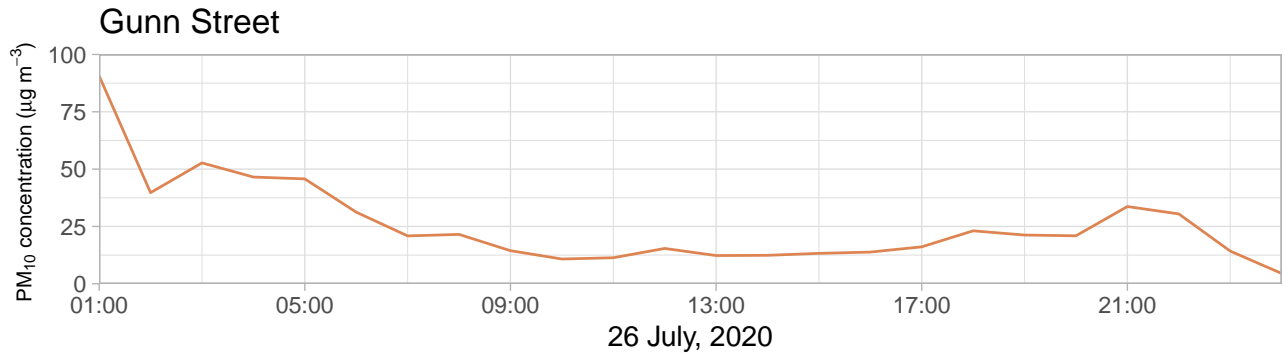
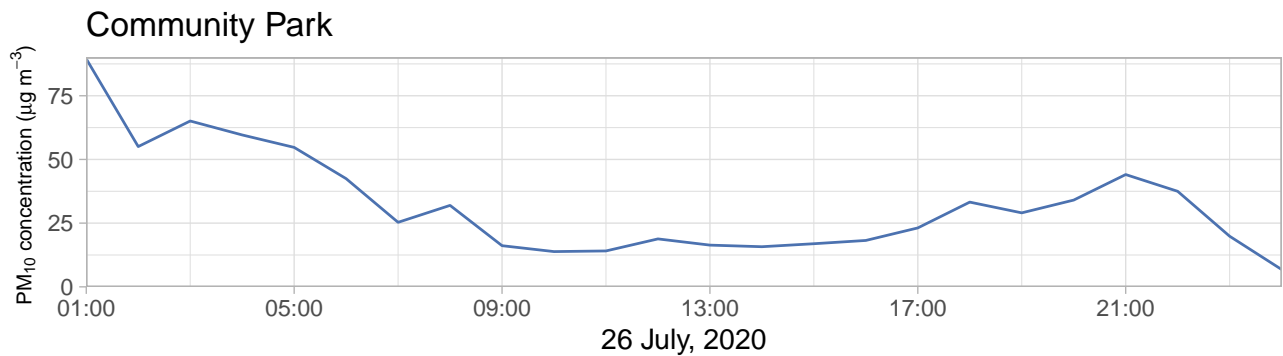
## Community Monitoring

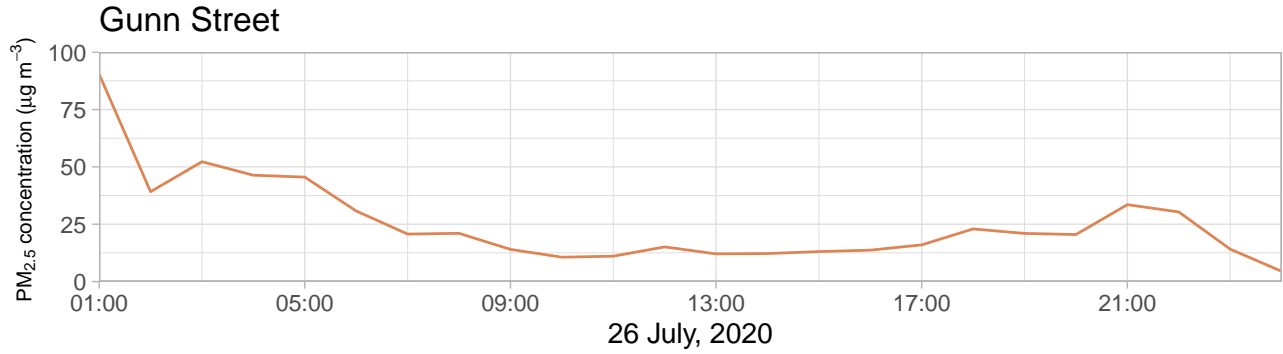
Monitoring data collected at the community monitoring sites is presented in this section.

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.

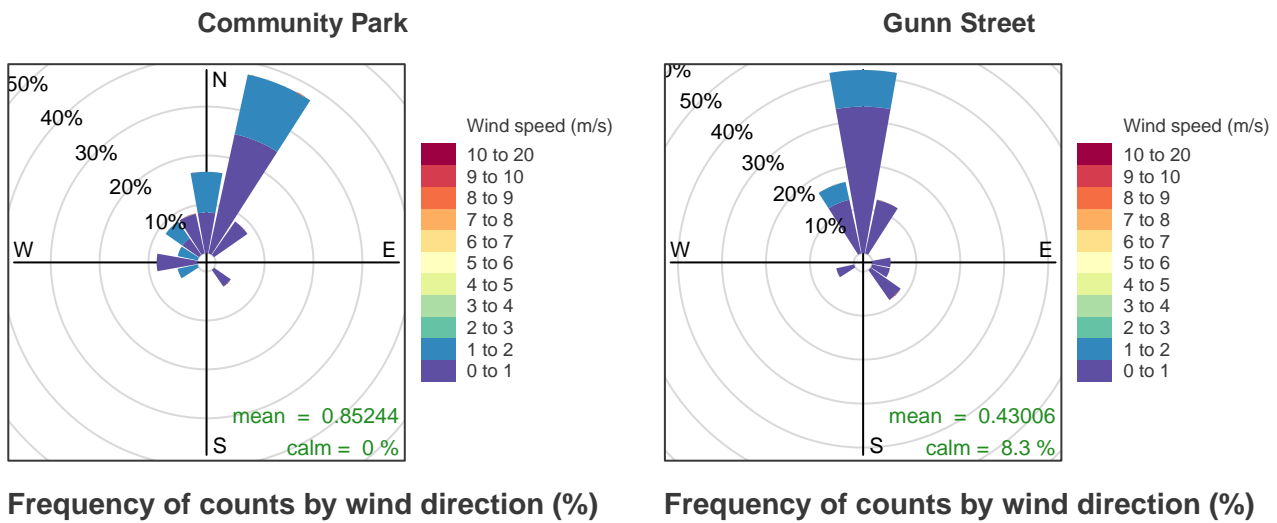
Monitoring Location	Direction	PM <sub>10</sub> proportion (%)	PM <sub>2.5</sub> proportion (%)
Community Park	From direction of ABC (WD < 180)	63	63
Community Park	From other direction (WD > 180)	37	37
Gunn Street	From direction of ABC (WD < 180)	55	55
Gunn Street	From other direction (WD > 180)	45	45

The figures below show the time series of 1-hour average measurements throughout 26 July, 2020

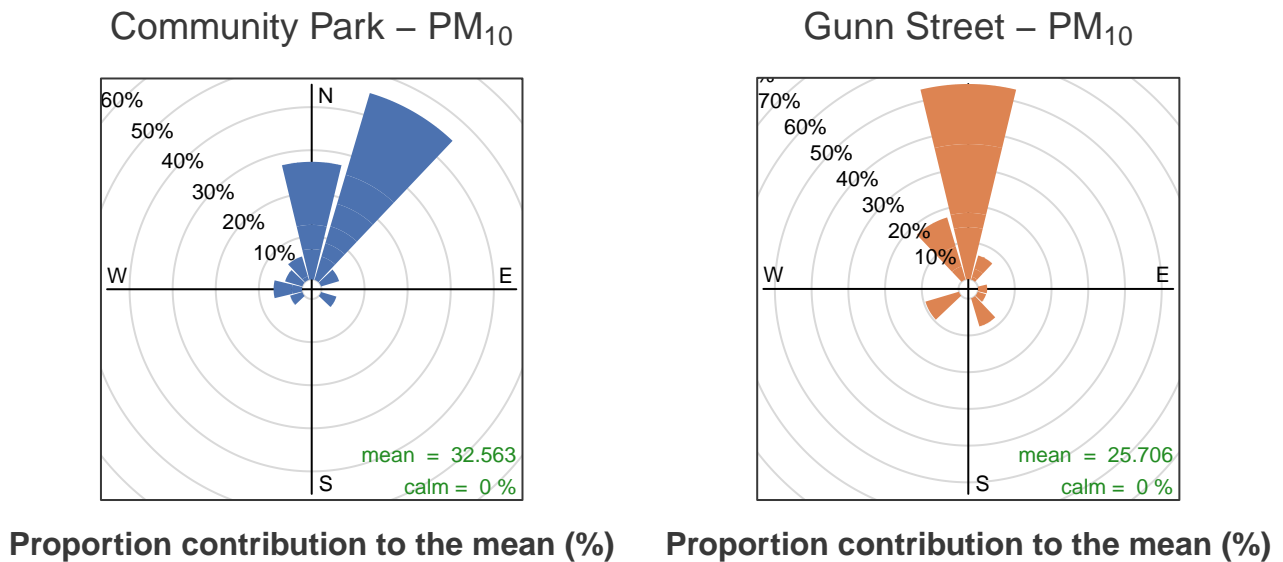




The figures below show wind roses summarising the period 26 July, 2020.



The figures below show dust roses summarising the period 26 July, 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.*