

# Ground Level Particulate Notification Report - 13 April, 2021

**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 13 April, 2021 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM<sub>10</sub> concentration measured at Gunn Street of 50.4  $\mu\text{g}/\text{m}^3$  exceeded the EPP Air criterion of 50  $\mu\text{g}/\text{m}^3$
- The 24-hour average PM<sub>2.5</sub> concentration measured at Gunn Street of 34.0  $\mu\text{g}/\text{m}^3$  exceeded the EPP Air criterion of 25  $\mu\text{g}/\text{m}^3$

**Table 1: Monitoring Summary**

Monitoring Location	Pollutant	24-hour average ( $\mu\text{g}/\text{m}^3$ )	EPP Air Criterion ( $\mu\text{g}/\text{m}^3$ )
Community Park	PM <sub>10</sub>	No Data	50
	PM <sub>2.5</sub>	No Data	25
Gunn Street	PM <sub>10</sub>	50.4	50
	PM <sub>2.5</sub>	34.0	25

Adelaide experienced a wide spread dust storm event on Tuesday 13 April which resulted in the elevated particulate levels on Gunn Street Monitor, and all EPA monitors.

The Community Park Monitor was undergoing maintenance to replace a faulty power supply, when the dust storm event occurred, and insufficient particulate data was collected to calculate a valid 24 hour average concentration.

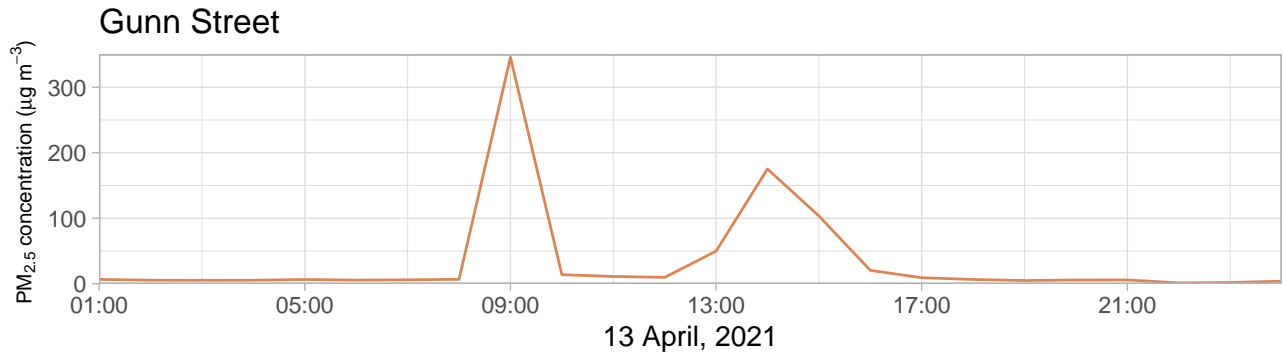
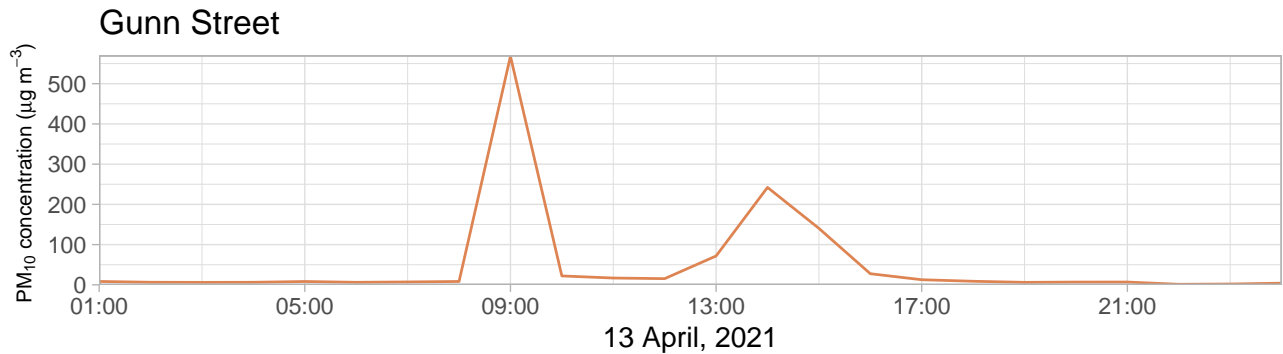
## Community Monitoring

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

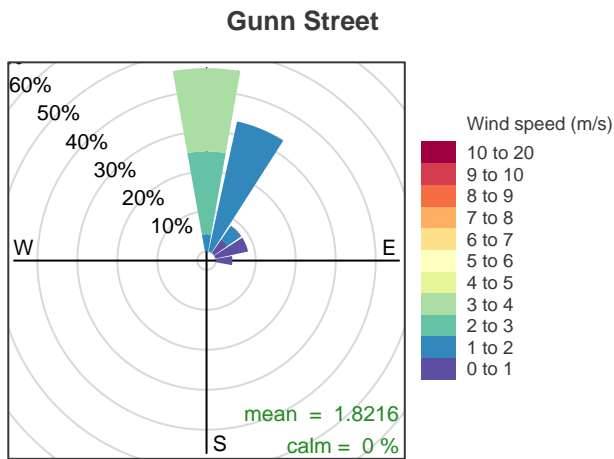
The table below shows the proportion of PM<sub>10</sub> and PM<sub>2.5</sub> measured at each monitor, according to the average wind direction at the time of monitoring.

Monitoring Location	Direction	PM <sub>10</sub> proportion (%)	PM <sub>2.5</sub> proportion (%)
Community Park	From direction of ABC (WD < 180)	71	70
Community Park	From other direction (WD > 180)	29	30
Gunn Street	From direction of ABC (WD < 180)	75	73
Gunn Street	From other direction (WD > 180)	25	27

The figures below show the time series of 1-hour average measurements throughout 13 April, 2021

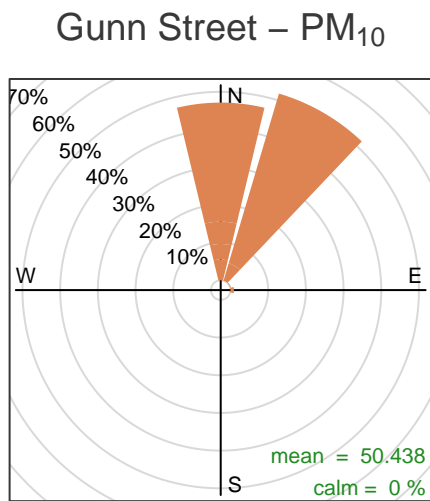


The figures below show wind roses summarising the period 13 April, 2021.



**Frequency of counts by wind direction (%)**

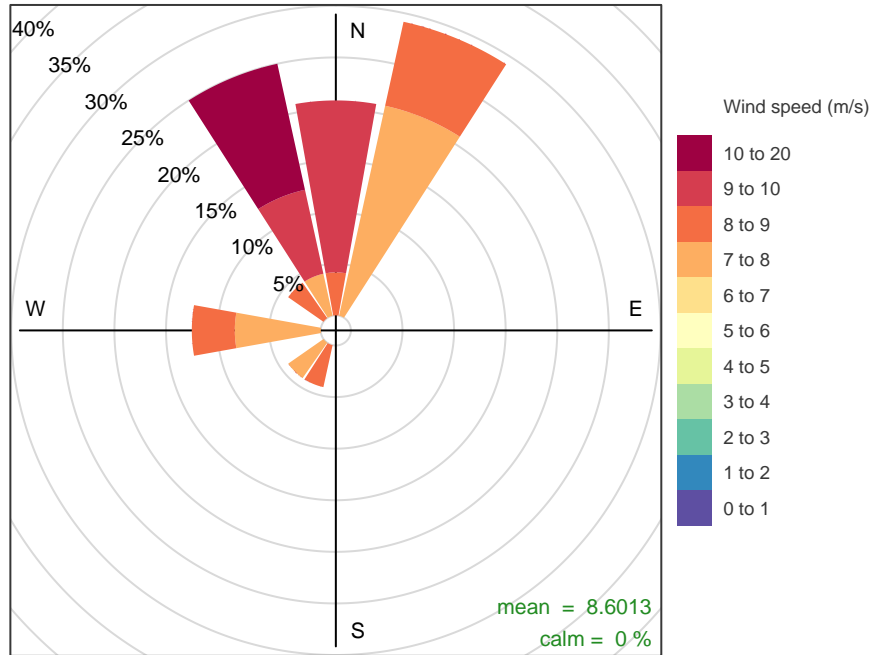
The figures below show dust roses summarising the period 13 April, 2021



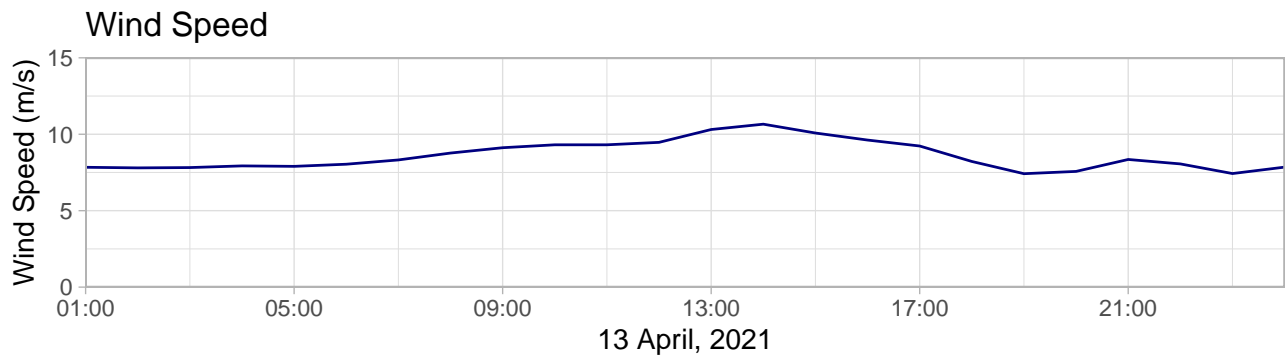
**Proportion contribution to the mean (%)**

## Meteorological Monitoring

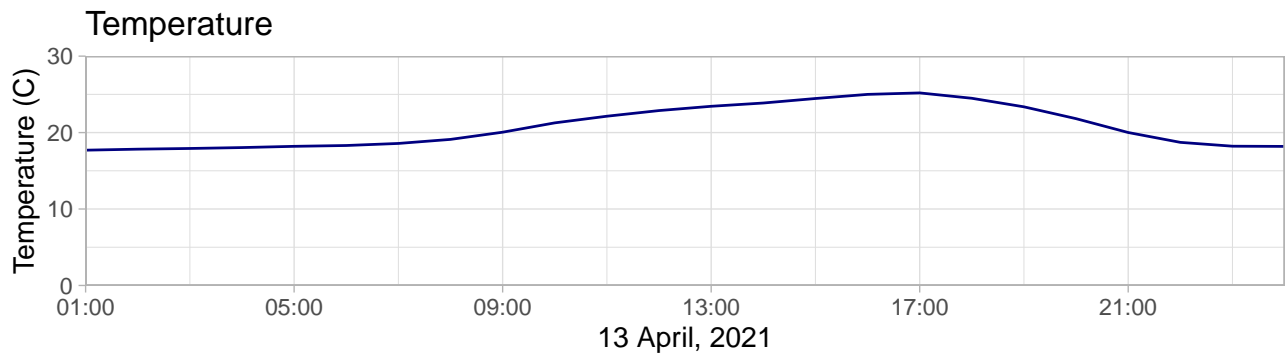
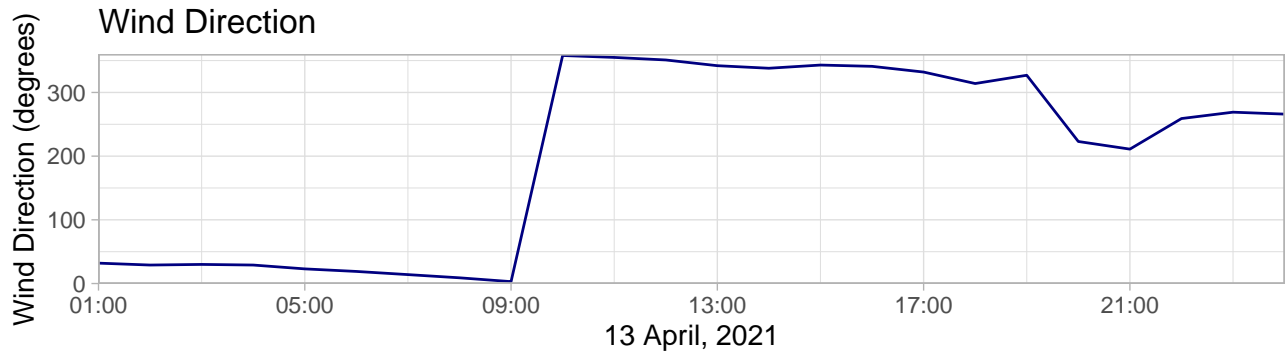
The following figures show meteorological parameters measured<sup>1</sup> throughout the day.



Frequency of counts by wind direction (%)



<sup>1</sup>Powered by [Dark Sky](#)



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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.*