

Ground Level Particulate Notification Report - 17 August, 2025

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 Walton Street BAM monitoring sites during 17 August, 2025 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM₁₀ concentration measured at Community Park BAM of 66.1 µg/m³ exceeded the EPP Air criterion of 50 µg/m³

Table 1: Monitoring Summary

Monitoring Location	Pollutant	24-hour average (µg/m ³)	EPP Air Criterion (µg/m ³)
Community Park BAM	PM ₁₀	66.1	50
	PM _{2.5}	3.2	25
Walton Street	PM ₁₀	10.5	50
	PM _{2.5}	3.4	25

Adelaide Brighton Cement has investigated the monitoring data on all its monitors, and noted a very unusual sudden increase in PM10 particulate levels from 16:45 pm on 17/8/2025 on the Community Park Monitor only. The monitoring instrument was checked on the 18/8/2025 and the remains of an insect that had made its way into the PM10 detector chamber, was found, which invalidated the monitoring data. The detector chamber has been cleaned out and instrument calibrated. All other instrumentation on community monitors showed low particulate levels, with the majority of the wind blowing towards ABC throughout the day, confirming there was no exceedance of air quality criteria.

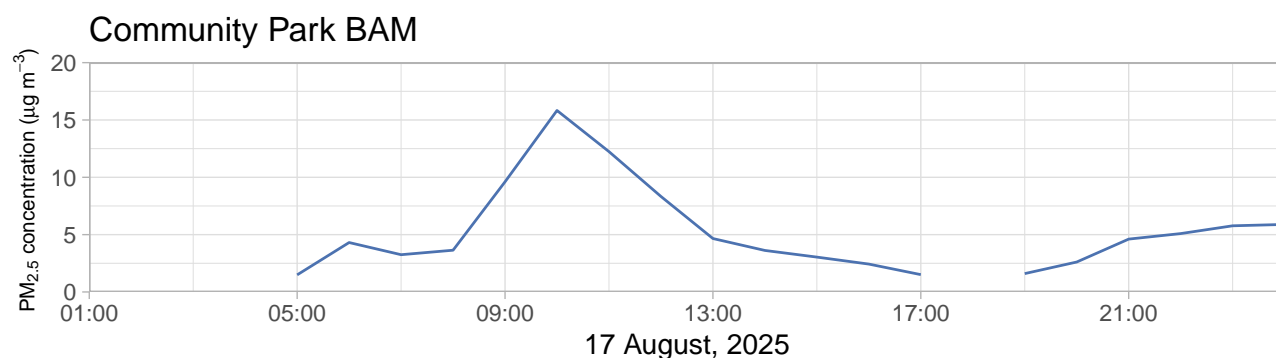
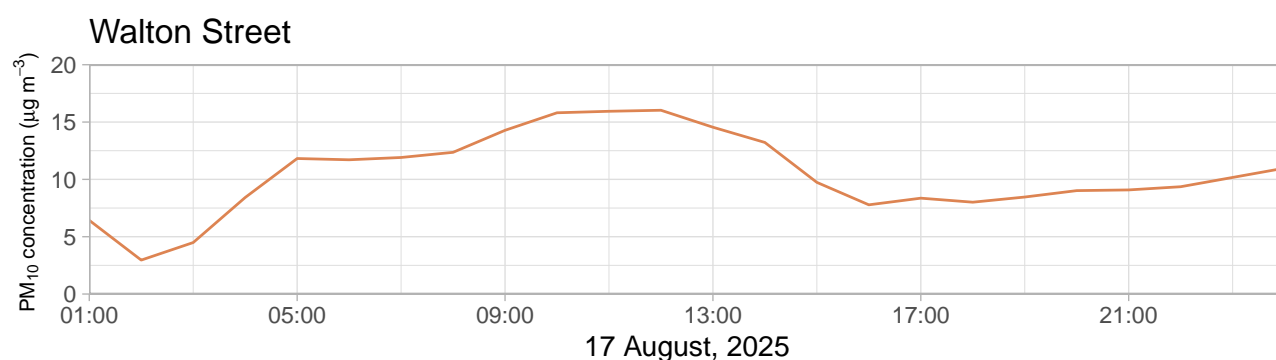
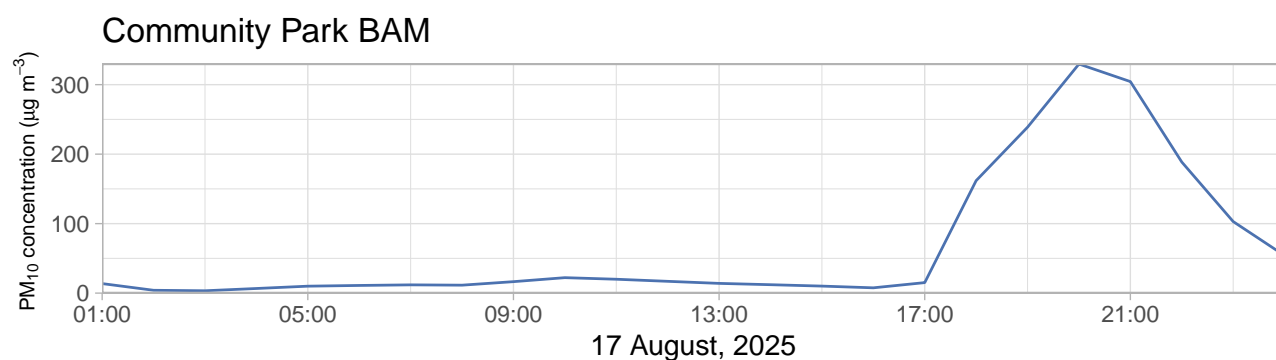
Community Monitoring

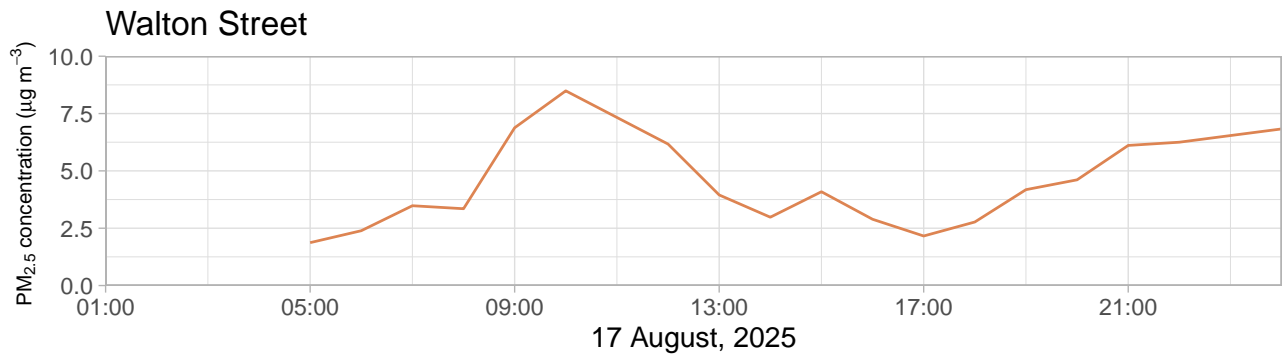
Monitoring data collected at the community monitoring sites is presented in this section.

The table below shows the proportion of PM₁₀ and PM_{2.5} measured at each monitor, according to the average wind direction at the time of monitoring.

Monitoring Location	Direction	PM ₁₀ proportion (%)	PM _{2.5} proportion (%)
Community Park BAM	From direction of ABC (WD < 180)	77	33
Community Park BAM	From other direction (WD > 180)	23	67
Walton Street	From direction of ABC (WD < 180)	23	42
Walton Street	From other direction (WD > 180)	77	58

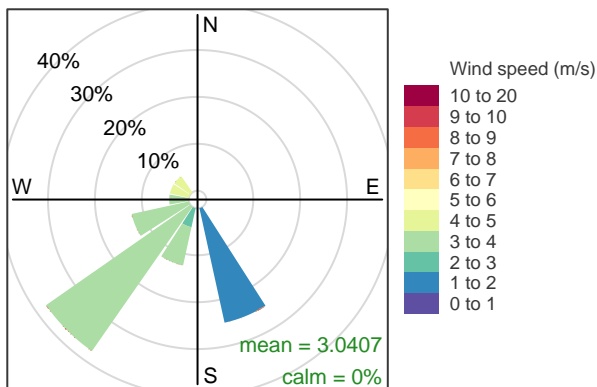
The figures below show the time series of 1-hour average measurements throughout 17 August, 2025





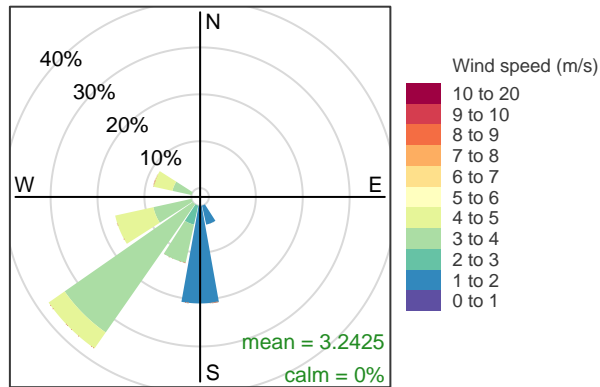
The figures below show wind roses summarising the period 17 August, 2025.

Community Park BAM



Frequency of counts by wind direction (%)

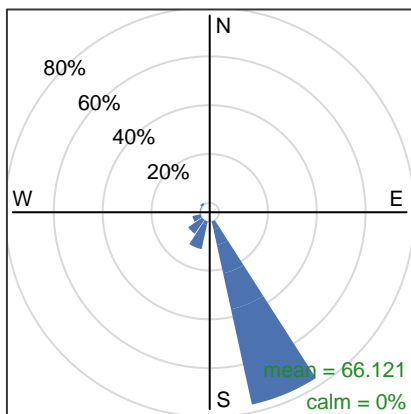
Walton Street



Frequency of counts by wind direction (%)

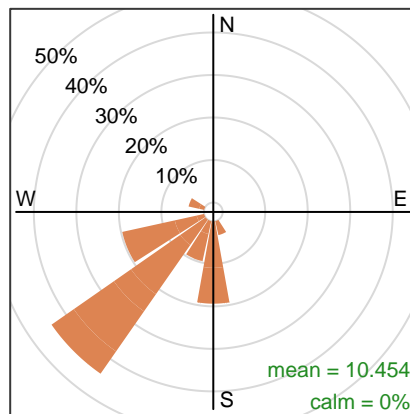
The figures below show dust roses summarising the period 17 August, 2025

Community Park BAM – PM₁₀



Proportion contribution to the mean (%)

Walton Street – PM₁₀



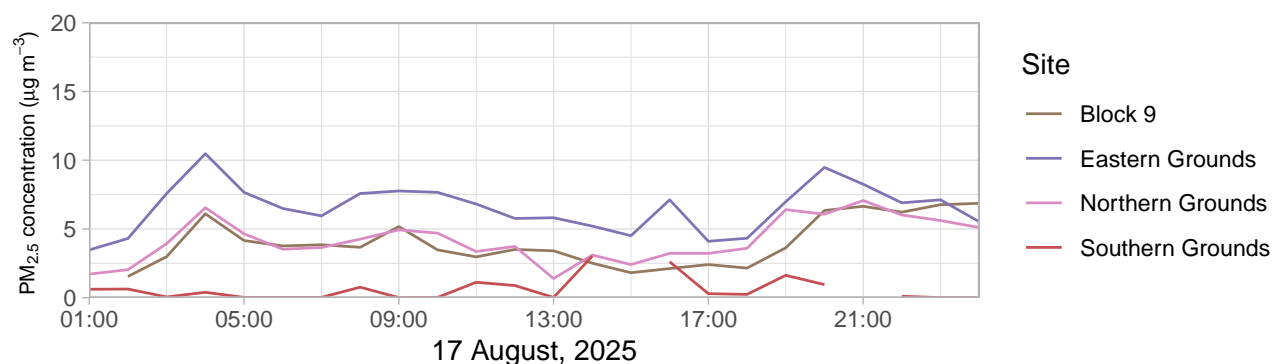
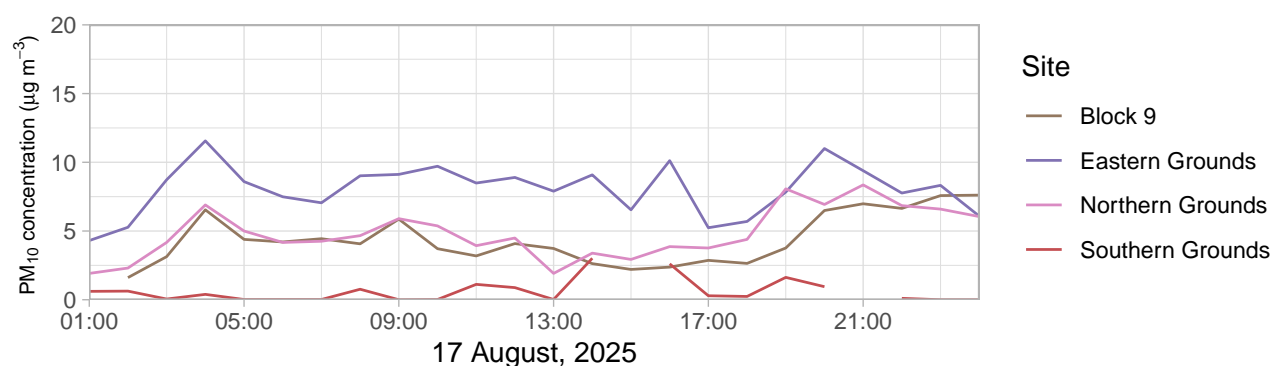
Proportion contribution to the mean (%)

Onsite Monitoring

Monitoring data collected at ABC's onsite monitors is presented in this section. The table below shows the 24-hour average concentrations measured at the onsite monitors.

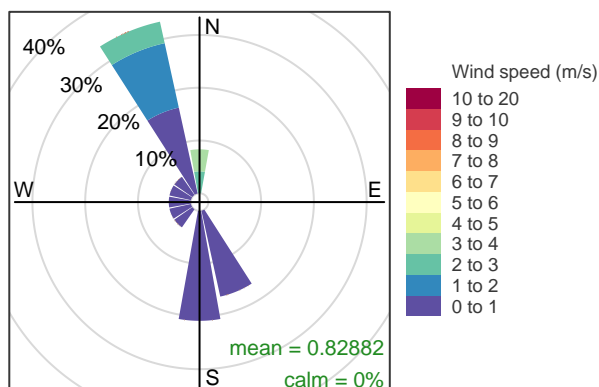
Monitoring Location	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)
Southern Grounds	1	1
Eastern Grounds	8	7
Block 9	4	4
Northern Grounds	5	4

The figure below shows the time series of 1-hour average measurements throughout 17 August, 2025 for each onsite monitor.



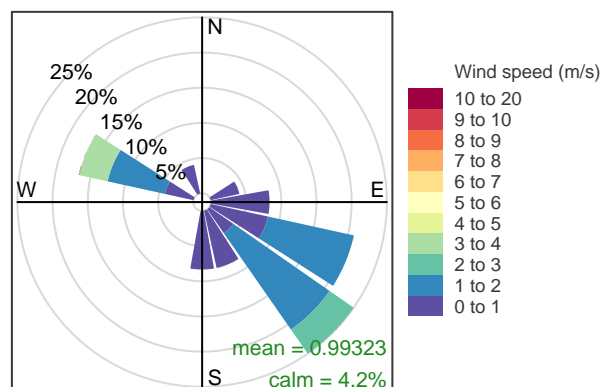
The figures below show wind and dust roses summarising the period 17 August, 2025 for each onsite monitor.

Southern Grounds



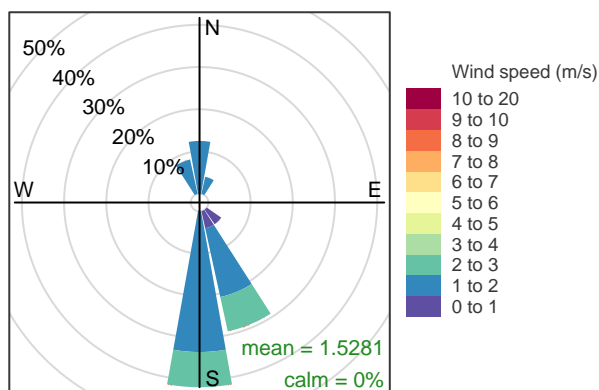
Frequency of counts by wind direction (%)

Eastern Grounds



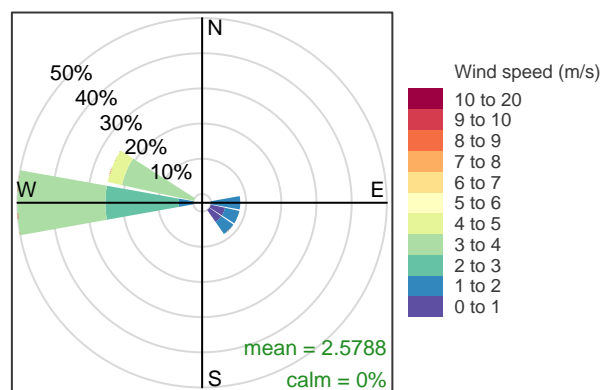
Frequency of counts by wind direction (%)

Block 9



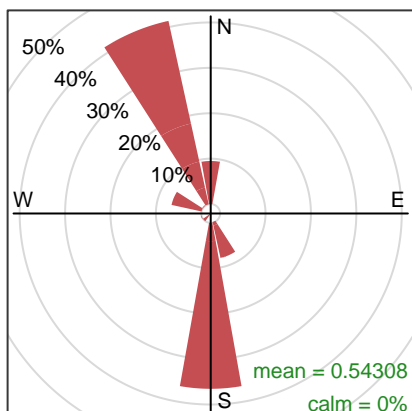
Frequency of counts by wind direction (%)

Northern Grounds

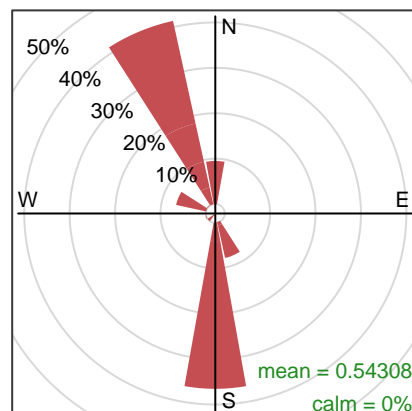


Frequency of counts by wind direction (%)

Southern Grounds – PM₁₀



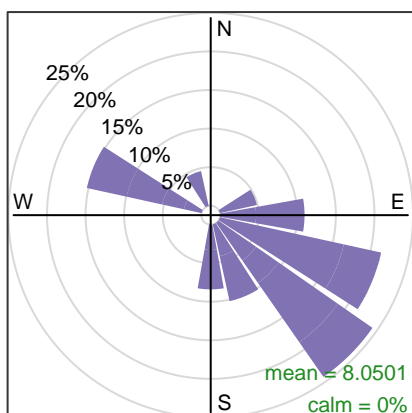
Southern Grounds – PM_{2.5}



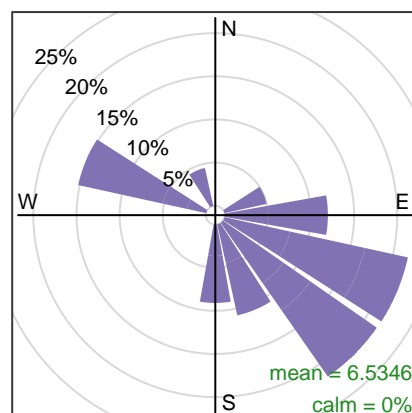
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Eastern Grounds – PM₁₀



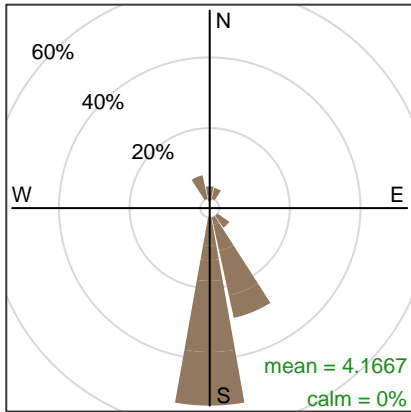
Eastern Grounds – PM_{2.5}



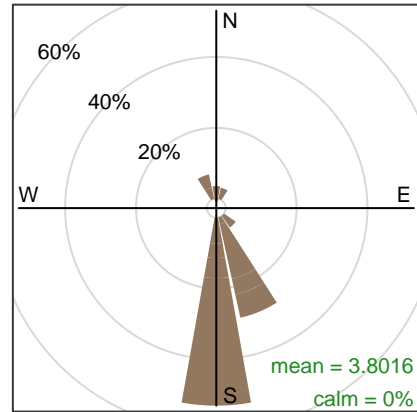
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Block 9 – PM₁₀



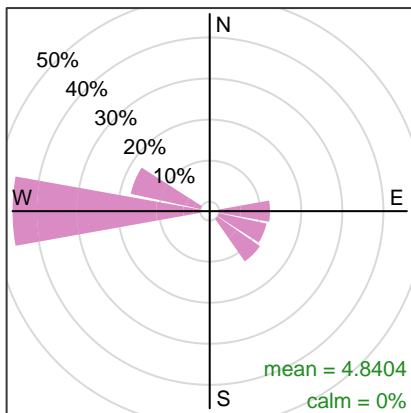
Block 9 – PM_{2.5}



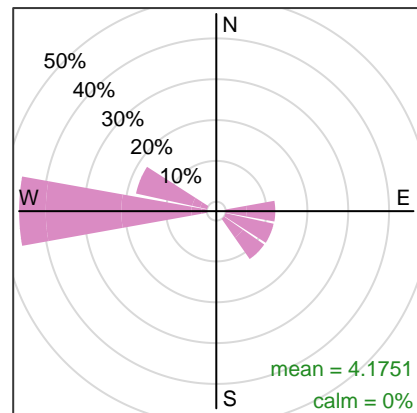
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Northern Grounds – PM₁₀



Northern Grounds – PM_{2.5}



Proportion contribution to the mean (%)

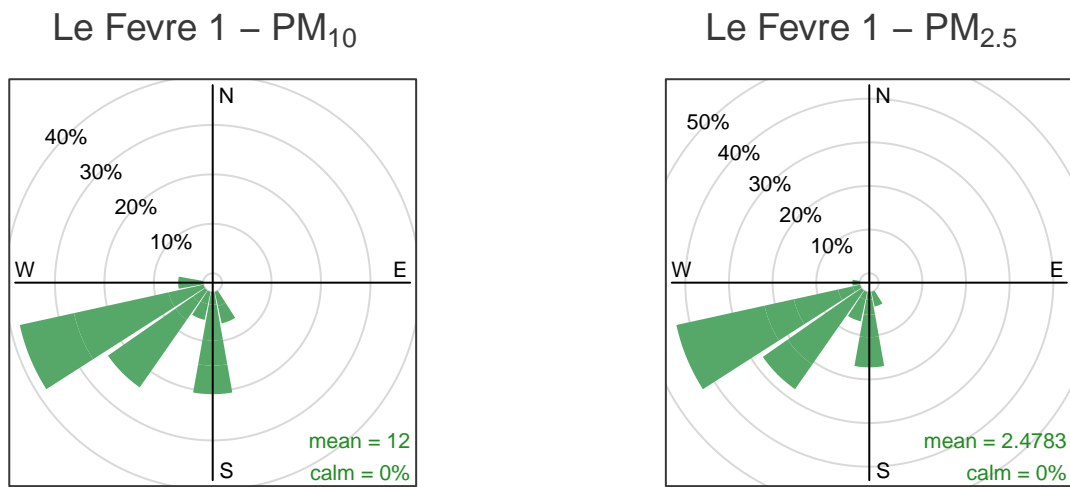
Proportion contribution to the mean (%)

EPA Monitoring

The 24-hour average PM₁₀ and PM_{2.5} concentrations measured at the EPA monitoring sites are shown in the table below. Note that the data has not been validated.

Site	Region	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
CBD	Adelaide CBD	14	5
Christies	Southern Adelaide	14	-
Elizabeth	Northern Adelaide	10	5
Le Fevre 1	Northwestern Adelaide	12	2
Le Fevre 2	Northwestern Adelaide	13	3
Port Pirie Oliver St	Spencer Gulf	10	-
Whyalla Schulz Reserve	Spencer Gulf	8	-
Whyalla Walls St	Spencer Gulf	10	-

The dust roses below show the distribution of PM₁₀ and PM_{2.5} measured at Le Fevre 1 for the period 17 August, 2025.

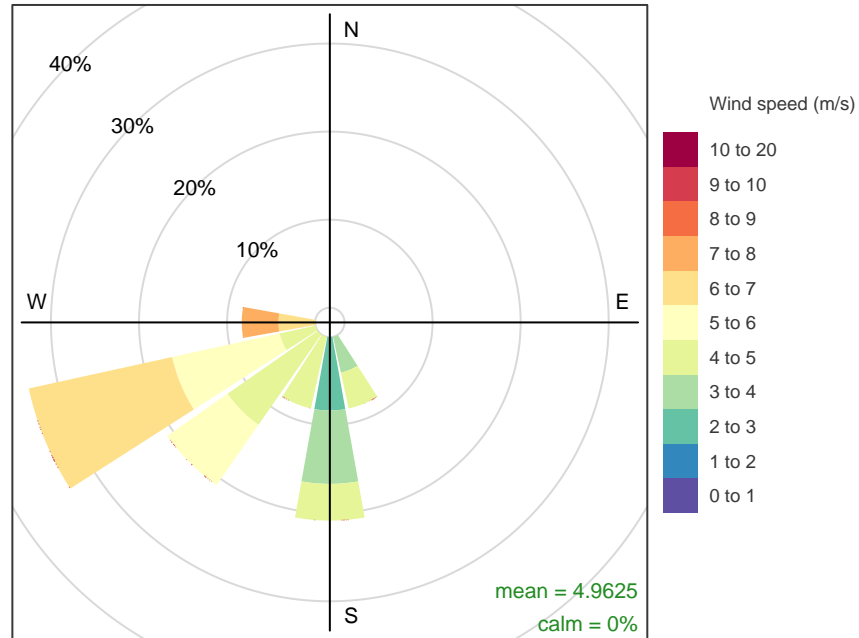


Proportion contribution to the mean (%)

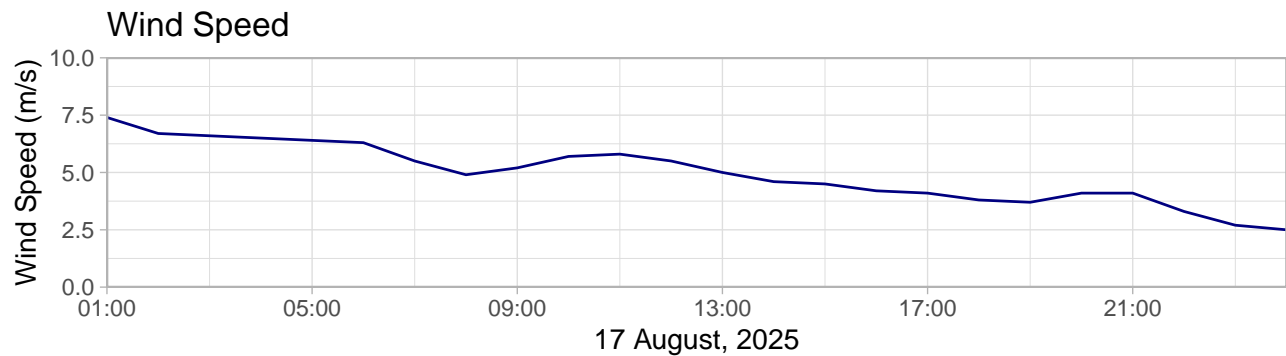
Proportion contribution to the mean (%)

Meteorological Monitoring

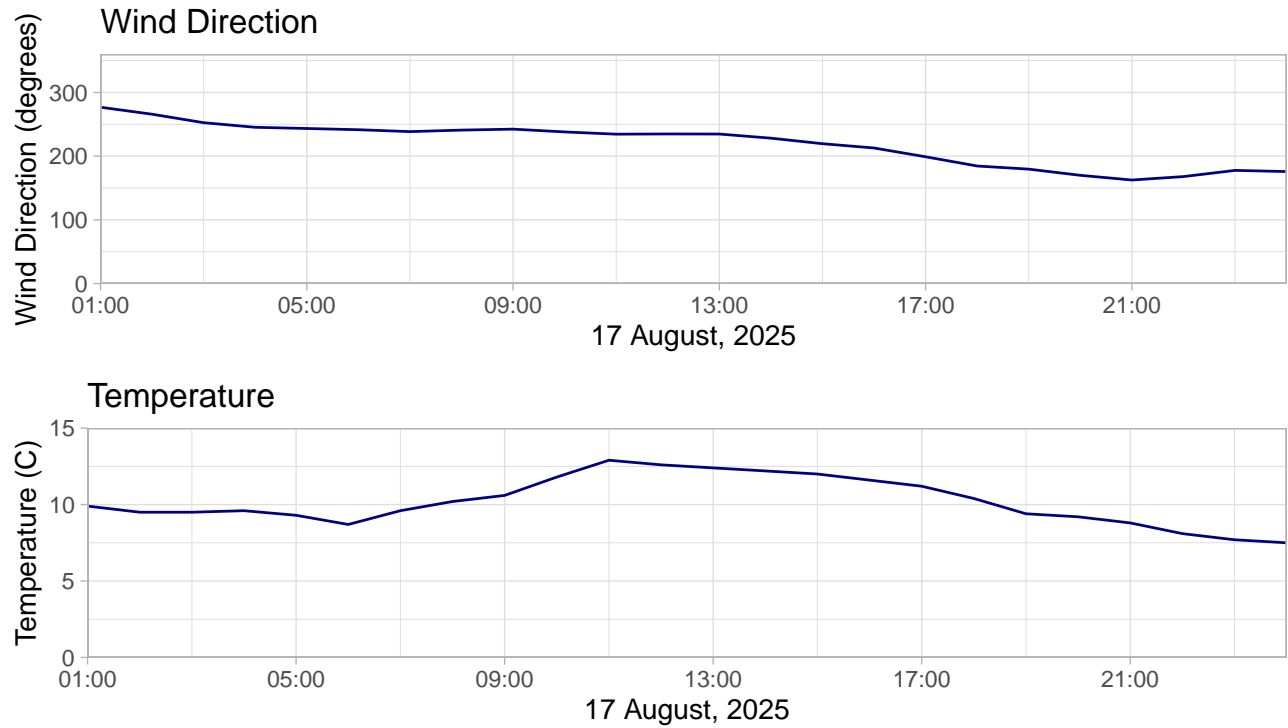
The following figures show meteorological parameters measured¹ throughout the day.



Frequency of counts by wind direction (%)



¹Powered by [Meteomatics](#)



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.