

Ground Level Particulate Notification Report - 29 April, 2026

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 29 April, 2026 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM₁₀ concentration measured at Community Park BAM of 68.2 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	68.2	50
	PM _{2.5}	11.2	25
Walton Street	PM ₁₀	48.6	50
	PM _{2.5}	9.0	25

Air shed dust levels were generally elevated. Adbri dust monitors showed dust levels coming onto site were elevated, and higher than dust levels directly to the west of the site, indicating the dust source was to the East and North east of the site. Adbri investigations identified dusty activities to the east of the site, in particular very dusty ship unloading activities, which contributed to the elevated dust levels. Adbri reported the dust from the ship unloading conditions to the EPA, which were also observed by EPA officers during a site visit on the 30 April.

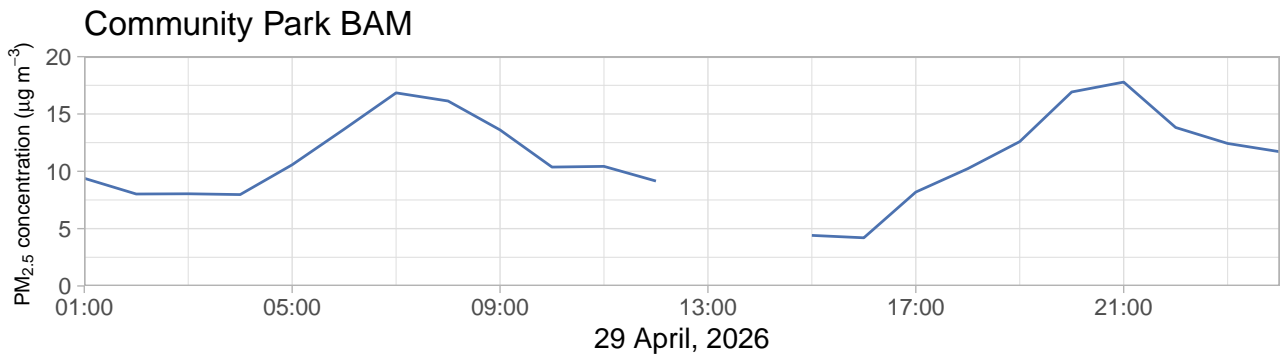
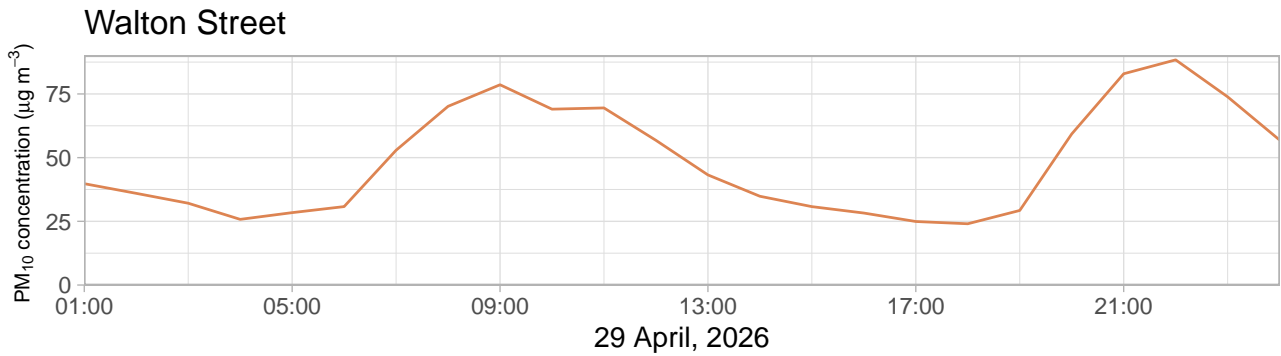
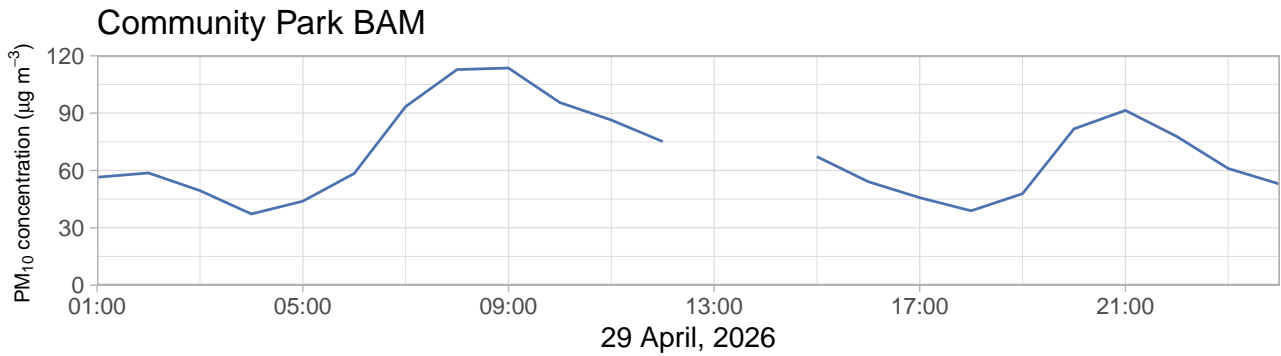
Community Monitoring

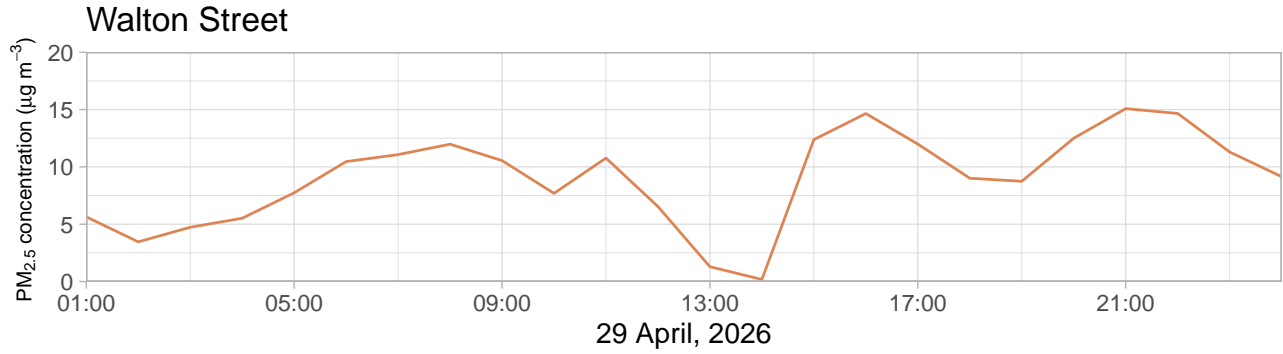
Monitoring data collected at the community monitoring sites is presented in this section.

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.

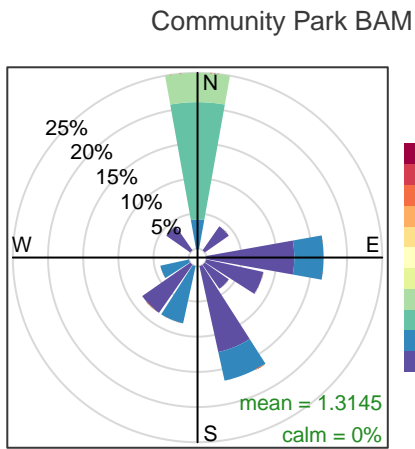
Monitoring Location	Direction	PM ₁₀ proportion (%)	PM _{2.5} proportion (%)
Community Park BAM	From direction of ABC (WD < 180)	62	70
Community Park BAM	From other direction (WD > 180)	38	30
Walton Street	From direction of ABC (WD < 180)	72	65
Walton Street	From other direction (WD > 180)	28	35

The figures below show the time series of 1-hour average measurements throughout 29 April, 2026

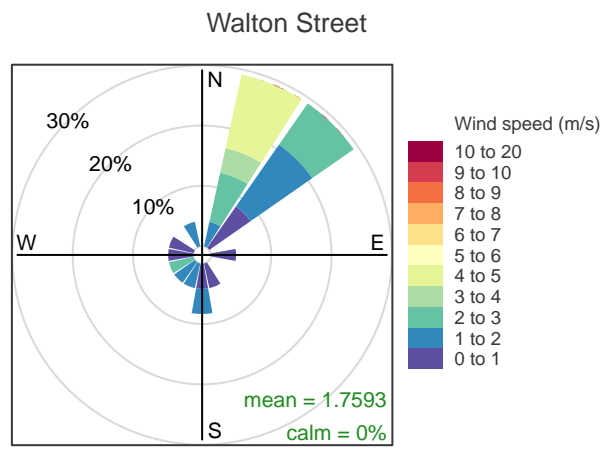




The figures below show wind roses summarising the period 29 April, 2026.



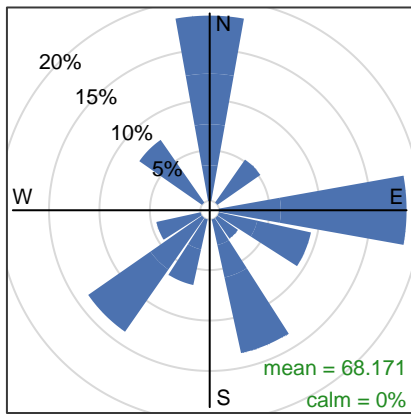
Frequency of counts by wind direction (%)



Frequency of counts by wind direction (%)

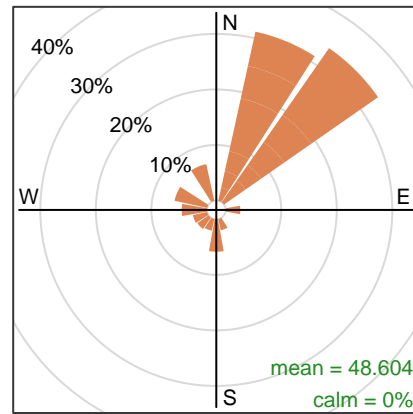
The figures below show dust roses summarising the period 29 April, 2026

Community Park BAM – PM₁₀



Proportion contribution to the mean (%)

Walton Street – PM₁₀



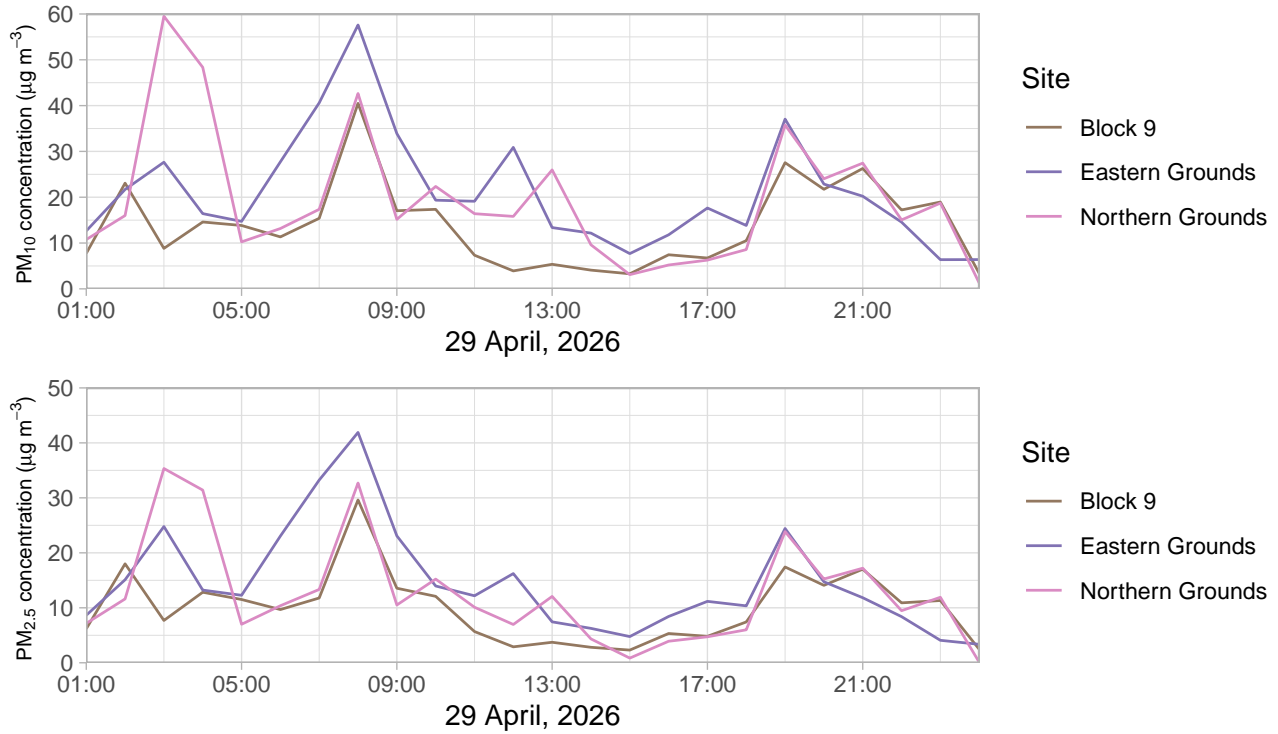
Proportion contribution to the mean (%)

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.

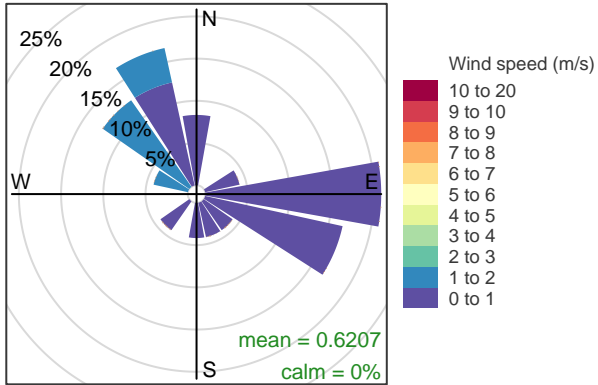
Monitoring Location	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
Eastern Grounds	21	15
Block 9	14	10
Northern Grounds	20	13

The figure below shows the time series of 1-hour average measurements throughout 29 April, 2026 for each onsite monitor.



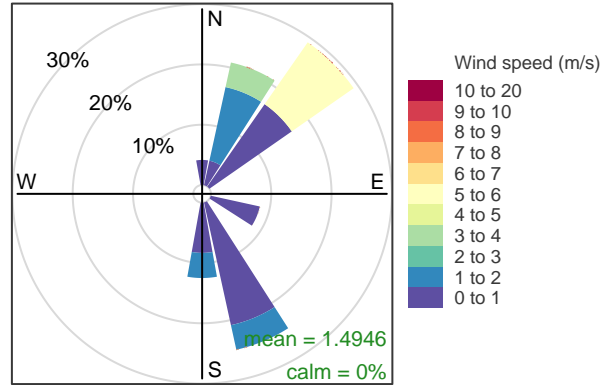
The figures below show wind and dust roses summarising the period 29 April, 2026 for each onsite monitor.

Eastern Grounds



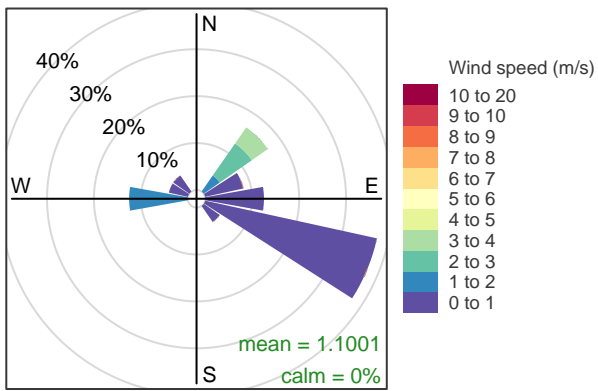
Frequency of counts by wind direction (%)

Block 9



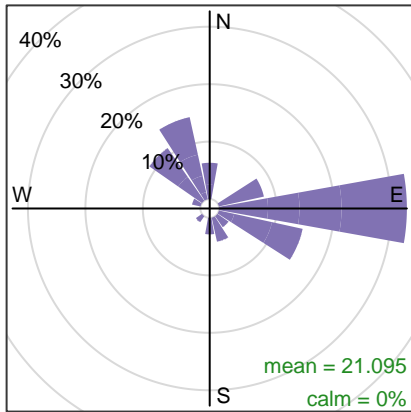
Frequency of counts by wind direction (%)

Northern Grounds

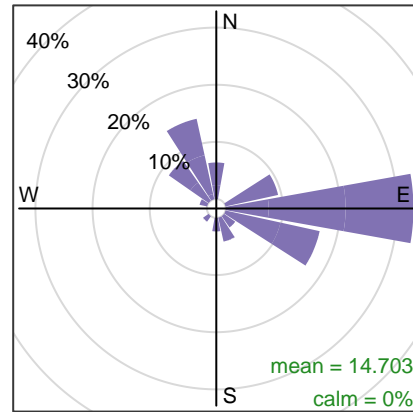


Frequency of counts by wind direction (%)

Eastern Grounds – PM₁₀



Eastern Grounds – PM_{2.5}

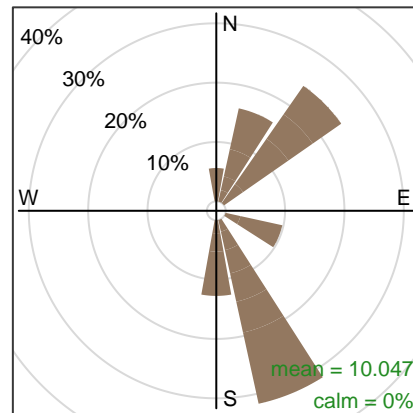
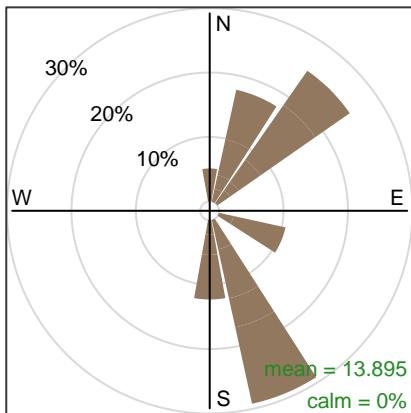


Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Block 9 – PM₁₀

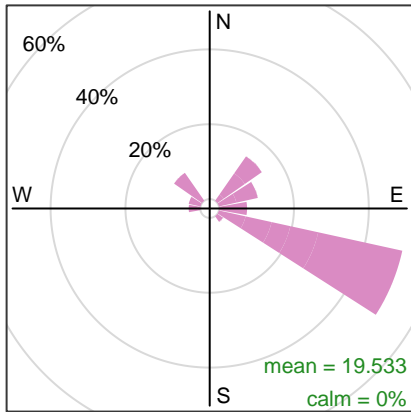
Block 9 – PM_{2.5}



Proportion contribution to the mean (%)

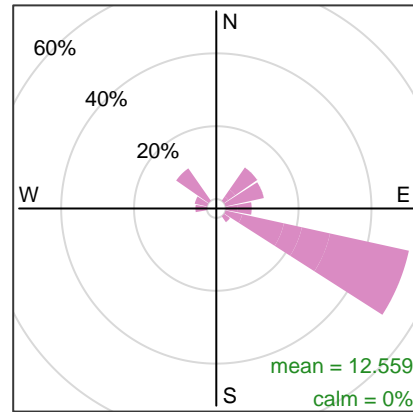
Proportion contribution to the mean (%)

Northern Grounds – PM₁₀



Proportion contribution to the mean (%)

Northern Grounds – PM_{2.5}



Proportion contribution to the mean (%)

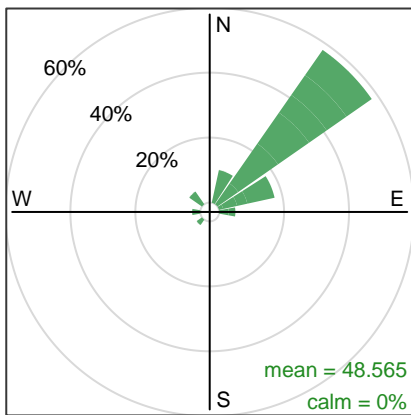
EPA Monitoring

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	16	6
Christies	Southern Adelaide	23	7
Elizabeth	Northern Adelaide	20	3
Le Fevre 1	Northwestern Adelaide	48	7
Le Fevre 2	Northwestern Adelaide	31	4
Port Pirie Oliver St	Spencer Gulf	16	-
Whyalla Schulz Reserve	Spencer Gulf	25	-
Whyalla Walls St	Spencer Gulf	25	-

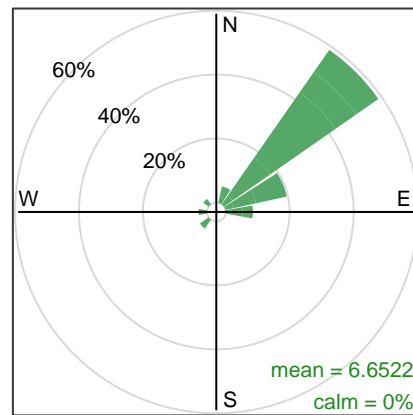
The dust roses below show the distribution of PM₁₀ and PM_{2.5} measured at Le Fevre 1 for the period 29 April, 2026 .

Le Fevre 1 – PM₁₀



Proportion contribution to the mean (%)

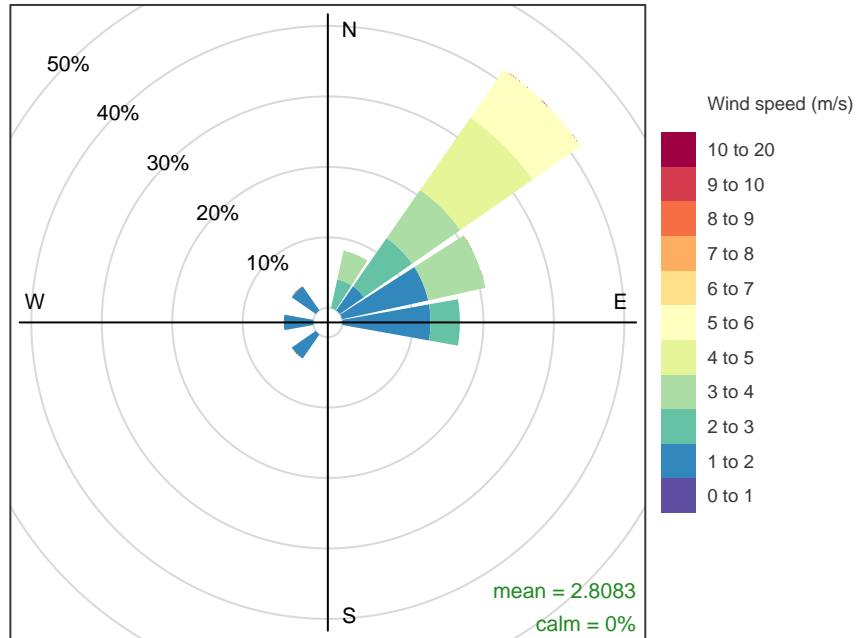
Le Fevre 1 – PM_{2.5}



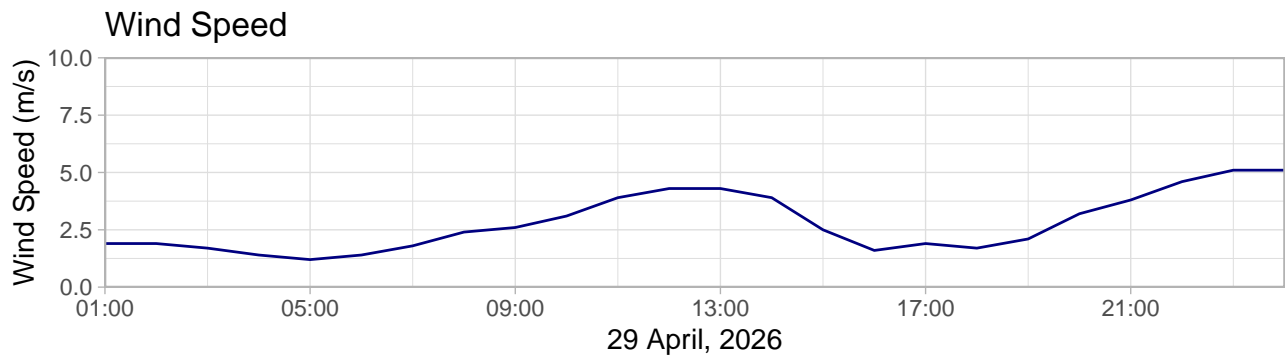
Proportion contribution to the mean (%)

Meteorological Monitoring

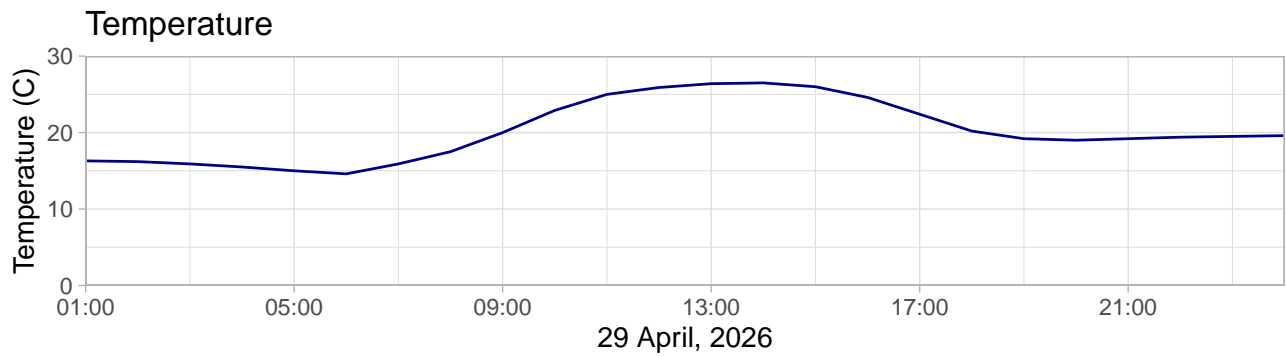
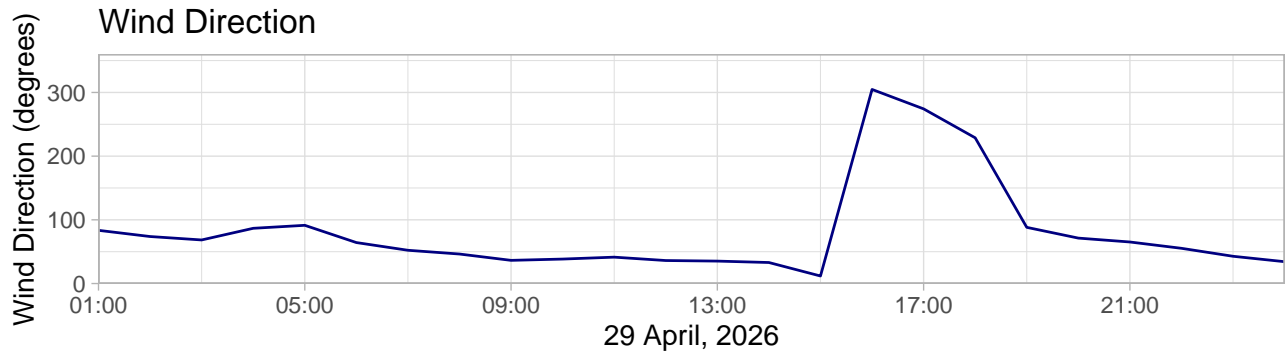
The following figures show meteorological parameters measured¹ throughout the day.



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.