

Ground Level Particulate Notification Report - 13 May, 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 13 May, 2026 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM₁₀ concentration measured at Community Park BAM of 54.4 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	54.4	50
	PM _{2.5}	11.8	25
Walton Street	PM ₁₀	33.3	50
	PM _{2.5}	9.6	25

Adbri has recently installed Ambient Air Quality Monitoring Station (AAQMS) on the Eastern boundary of the site. This enables upwind/downwind analysis of dust concentrations, & Adbri site contribution to down wind dust levels. Investigation found, there were light winds, from easterly direction, which brought dust from the other side of Port River, In particular: between 5 am-10 pm dust coming onto site measured at new monitor on the Southeastern site boundary was significantly higher, than at Community Park. Also for most of the day dust coming onto site from the northeastern site boundary monitor was higher than Walton street monitor. This shows dust levels to the east were generally higher than to the west of the site, and particularly high from Berth 18& 20 area where infrabuild plant activities, were creating dust. Light winds and easterly direction resulted in little dilution as the dust drifted across Adbri site to the community to the west, resulting in PM10 exceedance.

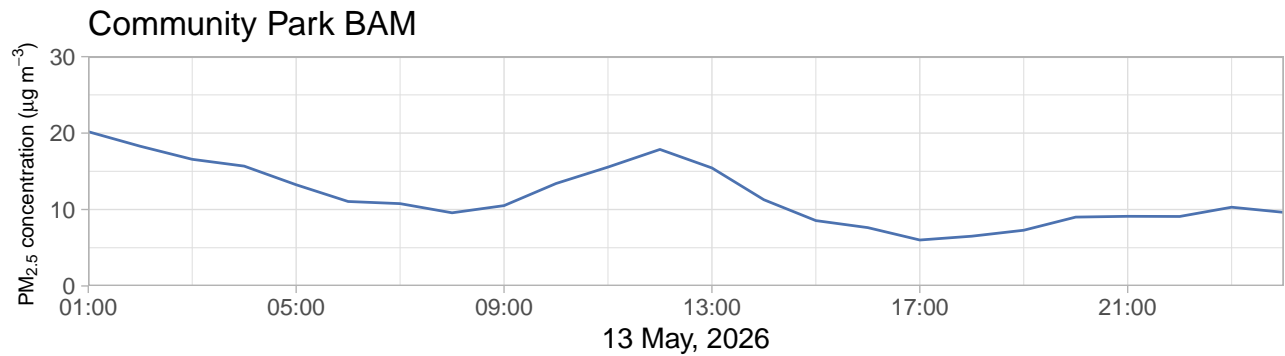
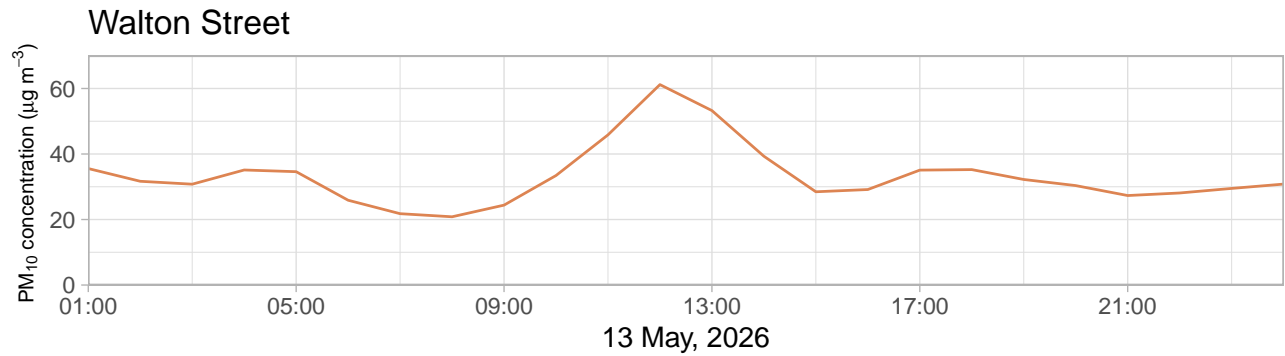
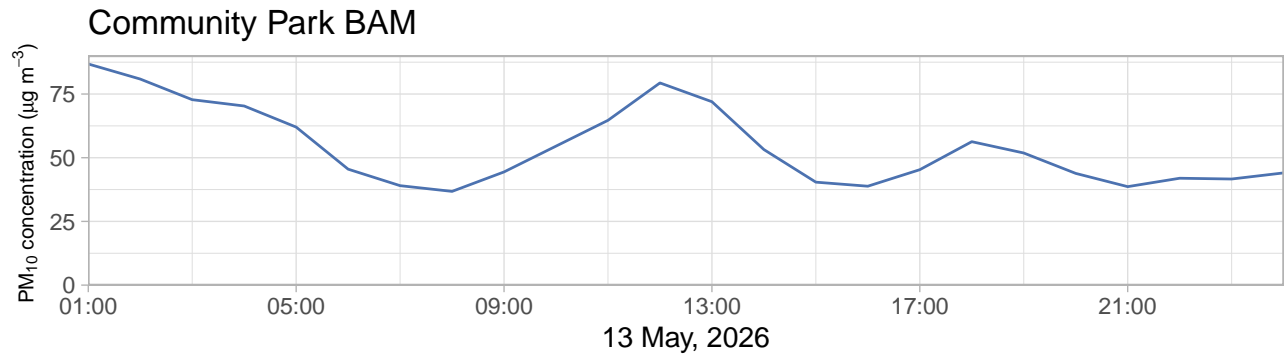
Community Monitoring

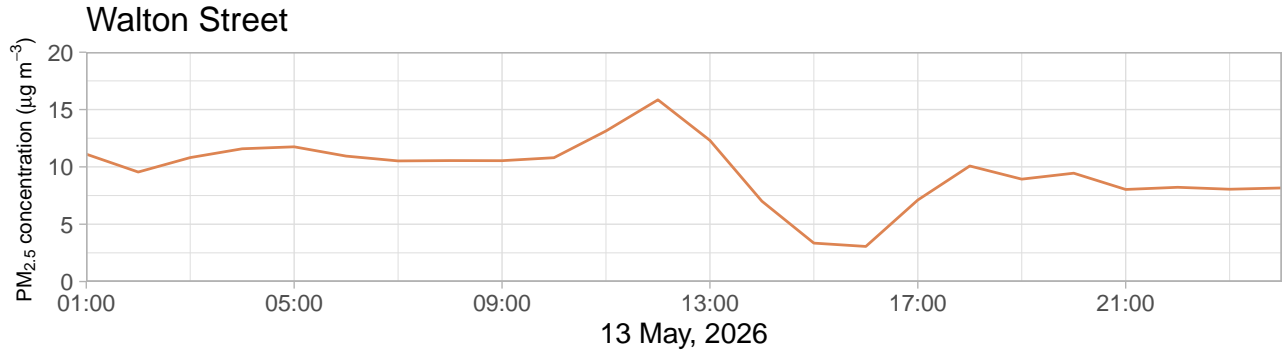
Monitoring data collected at the community monitoring sites is presented in this section.

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)	88	87
Community Park BAM	From other direction (WD > 180)	12	13
Walton Street	From direction of ABC (WD < 180)	78	74
Walton Street	From other direction (WD > 180)	22	26

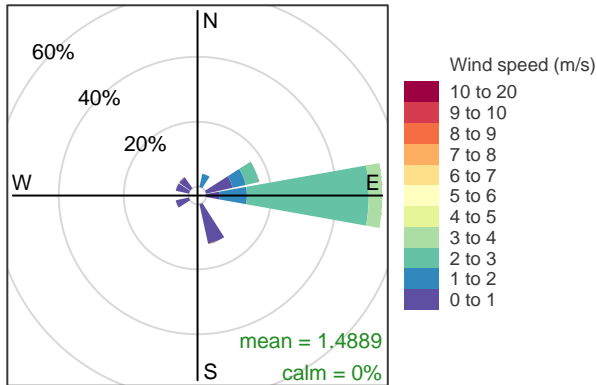
The figures below show the time series of 1-hour average measurements throughout 13 May, 2026





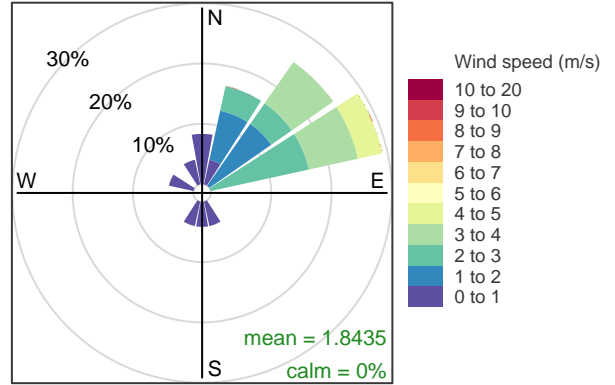
The figures below show wind roses summarising the period 13 May, 2026.

Community Park BAM



Frequency of counts by wind direction (%)

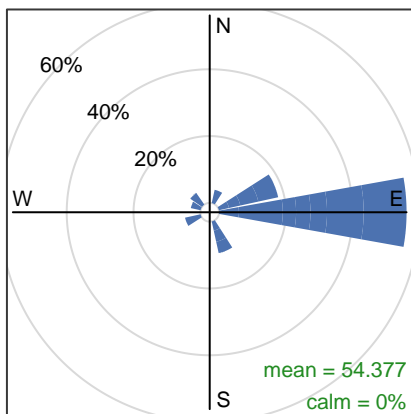
Walton Street



Frequency of counts by wind direction (%)

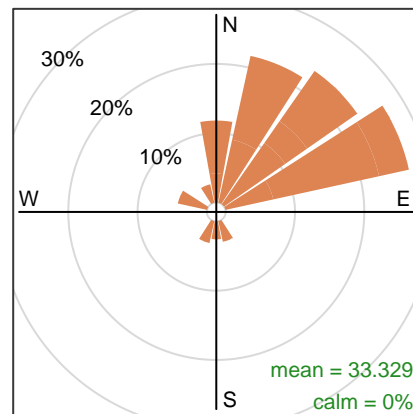
The figures below show dust roses summarising the period 13 May, 2026

Community Park BAM – PM₁₀



Proportion contribution to the mean (%)

Walton Street – PM₁₀



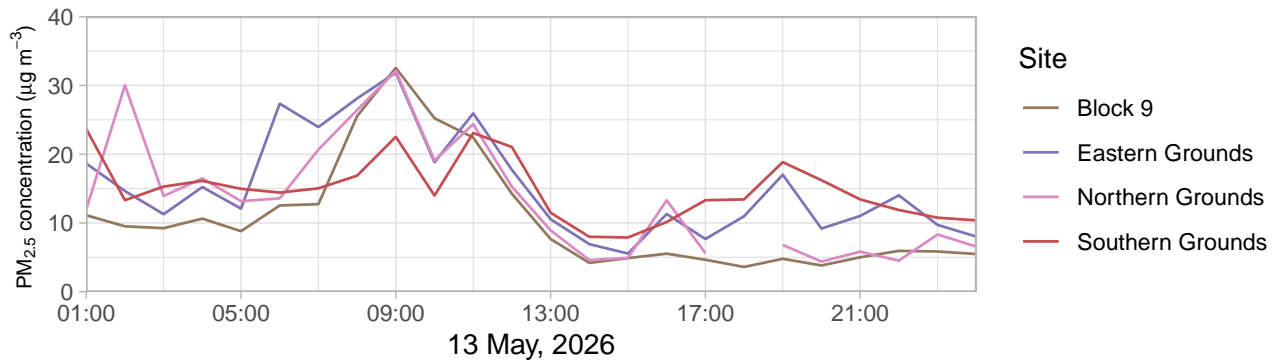
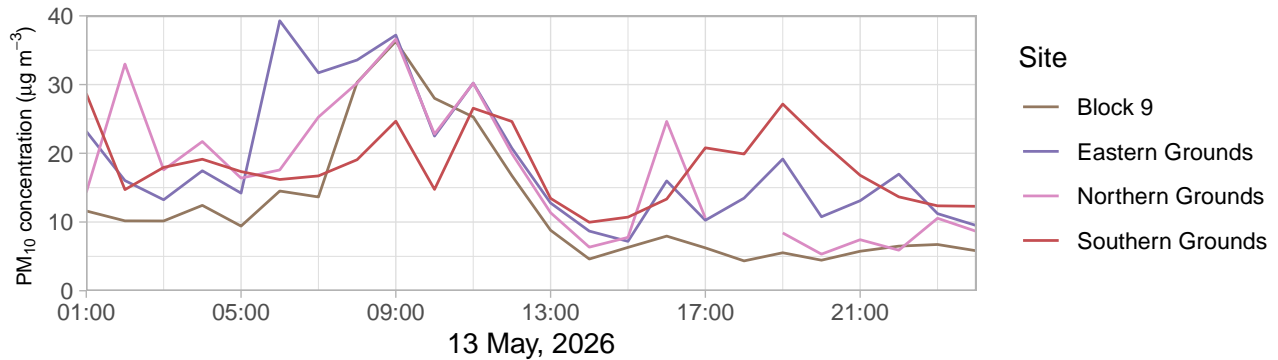
Proportion contribution to the mean (%)

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.

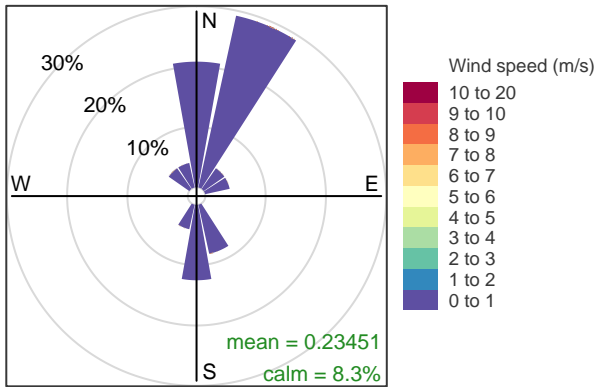
Monitoring Location	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
Southern Grounds	18	15
Eastern Grounds	19	15
Block 9	12	11
Northern Grounds	16	13

The figure below shows the time series of 1-hour average measurements throughout 13 May, 2026 for each onsite monitor.



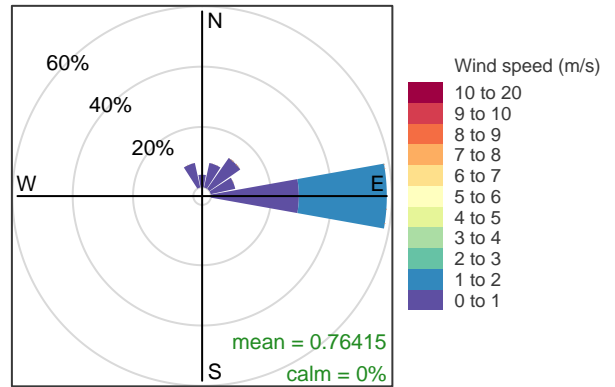
The figures below show wind and dust roses summarising the period 13 May, 2026 for each onsite monitor.

Southern Grounds



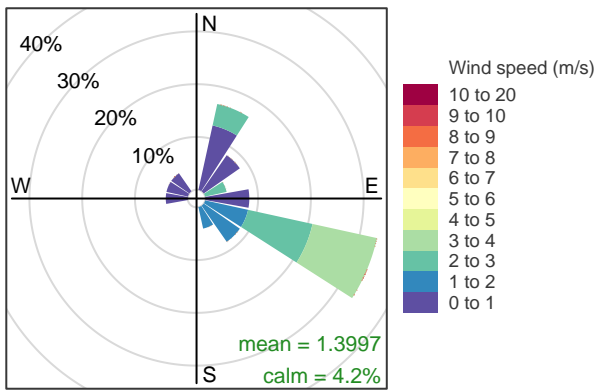
Frequency of counts by wind direction (%)

Eastern Grounds



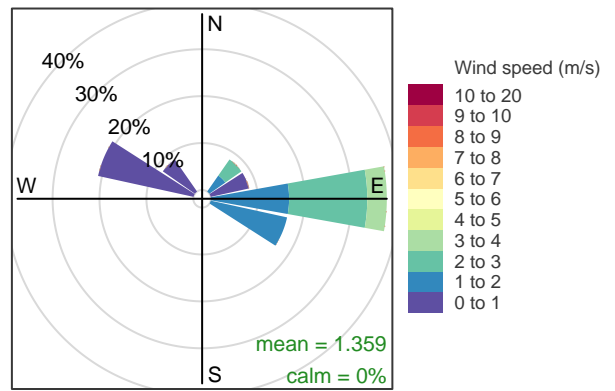
Frequency of counts by wind direction (%)

Block 9



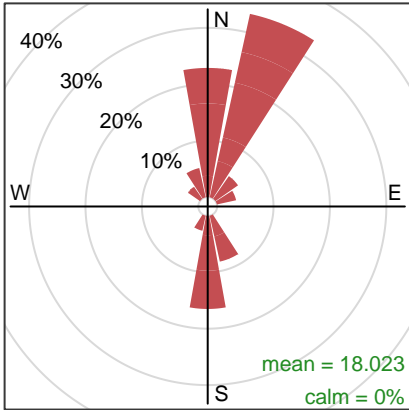
Frequency of counts by wind direction (%)

Northern Grounds

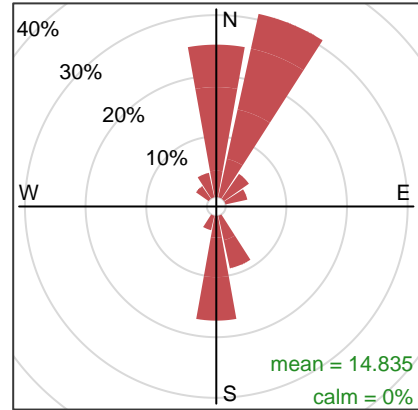


Frequency of counts by wind direction (%)

Southern Grounds – PM₁₀



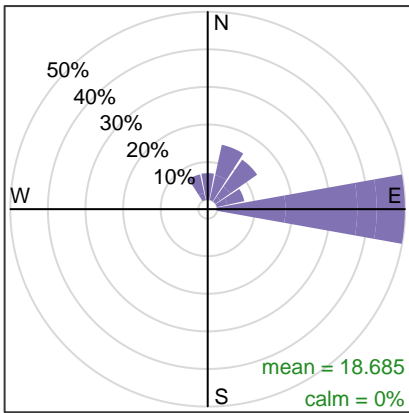
Southern Grounds – PM_{2.5}



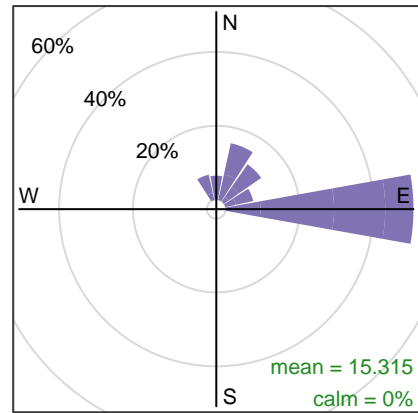
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Eastern Grounds – PM₁₀



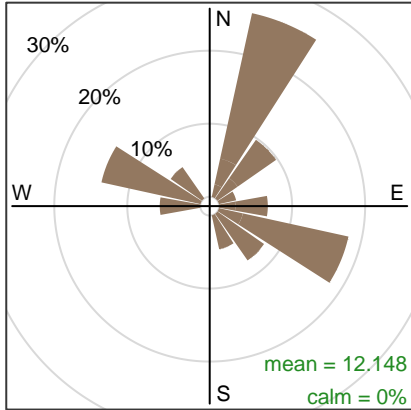
Eastern Grounds – PM_{2.5}



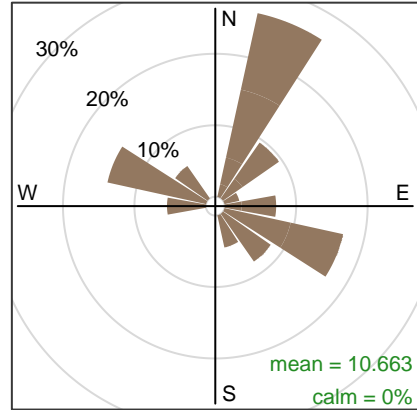
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Block 9 – PM₁₀



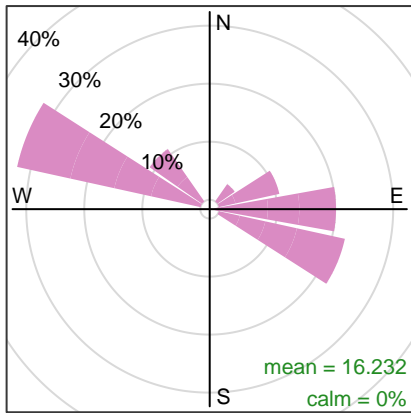
Block 9 – PM_{2.5}



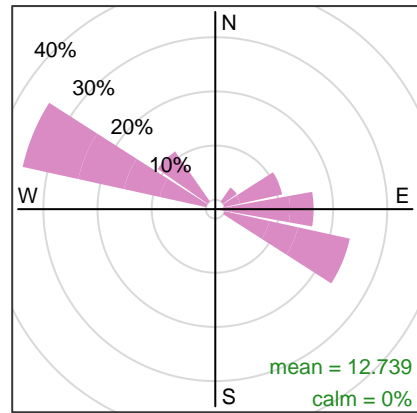
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Northern Grounds – PM₁₀



Northern Grounds – PM_{2.5}



Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

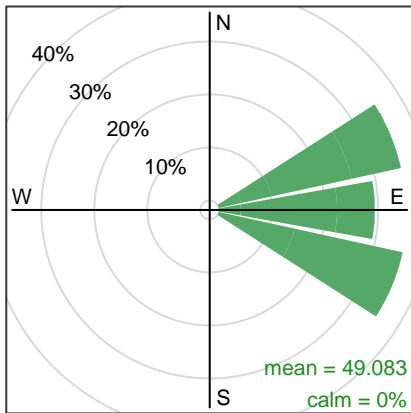
EPA Monitoring

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	7
Christies	Southern Adelaide	17	7
Elizabeth	Northern Adelaide	15	5
Le Fevre 1	Northwestern Adelaide	-	8
Le Fevre 2	Northwestern Adelaide	21	5
Port Pirie Oliver St	Spencer Gulf	26	-
Whyalla Schulz Reserve	Spencer Gulf	23	-
Whyalla Walls St	Spencer Gulf	17	-

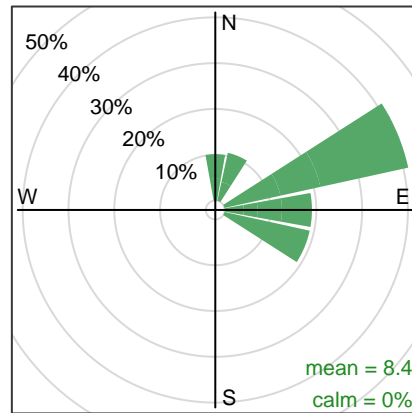
The dust roses below show the distribution of PM₁₀ and PM_{2.5} measured at Le Fevre 1 for the period 13 May, 2026 .

Le Fevre 1 – PM₁₀



Proportion contribution to the mean (%)

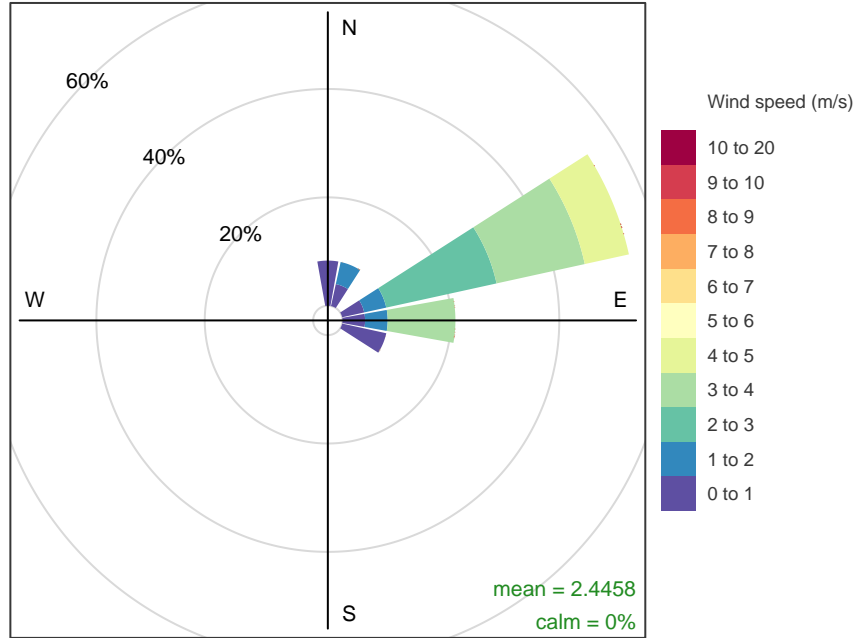
Le Fevre 1 – PM_{2.5}



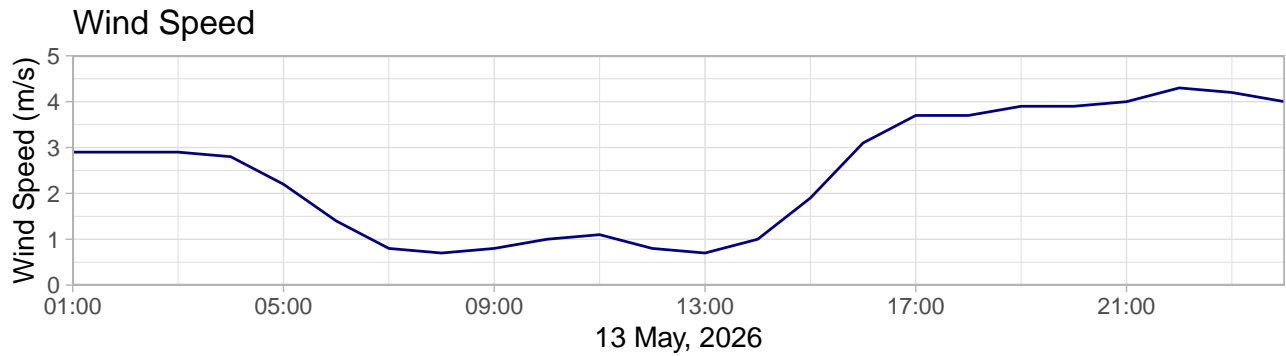
Proportion contribution to the mean (%)

Meteorological Monitoring

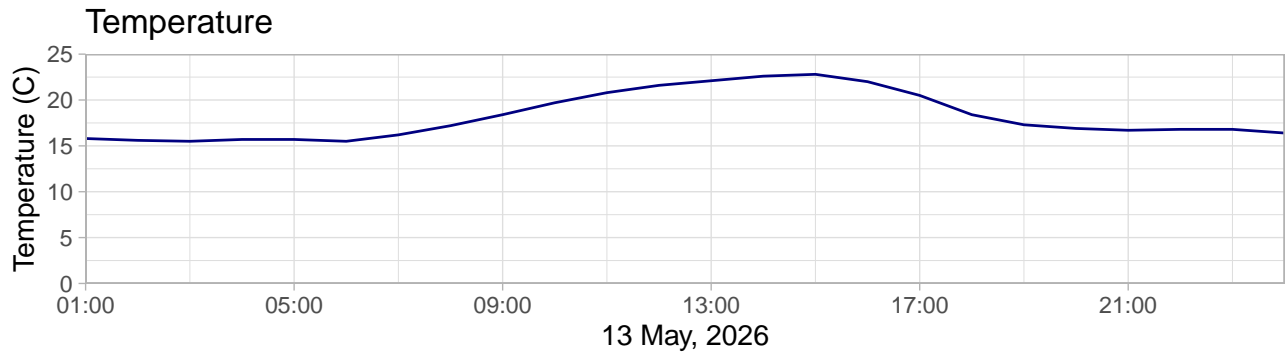
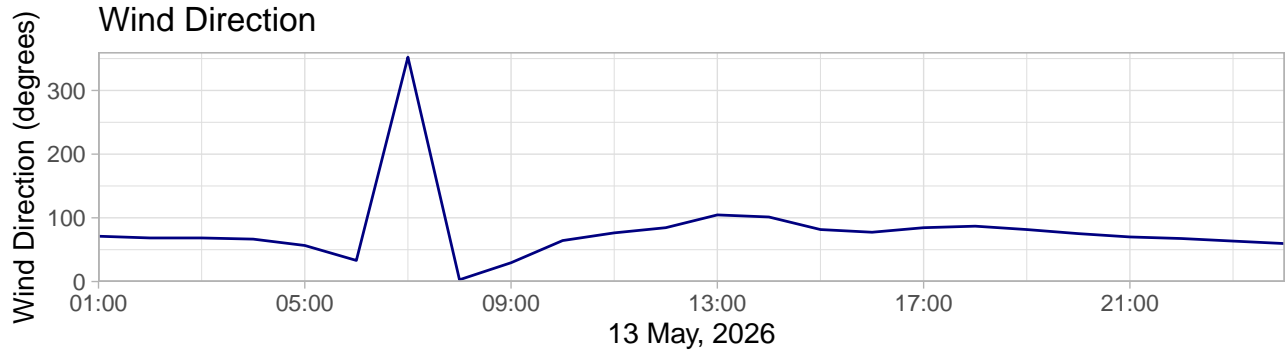
The following figures show meteorological parameters measured¹ throughout the day.



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.