

Port of Hay Point

Ambient Air, Noise and Weather Monitoring

Validated Report

1st January – 31st January 2026

Report No.: DAT23852

Report issue date: 27th February 2026

Maintenance contract: MC2099

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Residential and Control Monitoring Stations

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Revision History			
Revision	Report ID	Date	Analyst
0	DAT23852	27/02/2026	Asha Norazmi

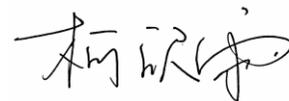
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1.0 Introduction

Acoem Australasia (Ecotech Pty Ltd) was commissioned by North Queensland Bulk Ports Corporation (NQBP), Dalrymple Bay Coal Terminal Pty Ltd (DBCT P/L) and BMA Hay Point Coal Terminal (HPCT) to provide monitoring and data reporting for the Port of Hay Point environmental monitoring program in Hay Point, Queensland. Acoem Australasia (Ecotech) commenced services under the ambient air quality monitoring program Contract SA294.2016 on the 1st of March 2017.

This report presents the data for January 2026.

The data presented in this report:

- Describes air quality measurements;
- Compares monitoring results;
- Has been quality assured.

1.1. Purpose of monitoring

This Ambient Air Monitoring Program has been established to proactively monitor ambient air, noise and meteorological conditions in the community surrounding the Port of Hay Point. The program consists of two control stations (C1 and C2), nine ambient air quality monitoring stations (P1, P2, P3, P4, S1, S2, S3, S5 and S6) and one rain gauge as described in Table 1.

Since the commencement of this monitoring program in 1993, Louisa Creek township has been identified as future strategic port land. NQBP have introduced a voluntary residential buy back scheme and taken steps to prevent residential re-intensification in zones immediately adjacent to the Port. Subsequently the monitoring station P2 is no longer in as populated residential location as when the program initially began.

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2.0 Monitoring and Data Collection

2.1. Siting Details

The Sites consist of two Control stations (C1 and C2), nine Residential ambient air quality monitoring stations (P1, P2, P3, P4, S1, S2, S3, S5 and S6) and one Rain Gauge. The stations' location and siting details are described in the following table and figures.

Table 1: Port of Hay Point Residential and Control Monitoring Sites Locations

Site Name	Geographical Coordinates	Height Above Sea Level (m)
C1 - Grasstree Beach (South)	21°21'54.71"S, 149°18'25.60"E	8
C2 - Grasstree Beach (North)	21°22'3.06"S, 149°18'27.19"E	10
P1 - Louisa Creek, Edmund Avenue (North)	21°16'21.43"S, 149°15'47.96"E	6
P2 - Louisa Creek, Edmund Avenue (South)	21°16'48.46"S, 149°16'34.64"E	10
P3 - Half Tide Car Park	21°17'45.34"S, 149°17'21.76"E	9
P4 - Salonika Beach	21°18'29.32"S, 149°17'33.64"E	12
S1 - Louisa Creek (North)	21°16'35.88"S, 149°16'14.42"E	1
S2 - Louisa Creek (South)	21°16'46.88"S, 149°16'29.00"E	4
S3 – Osborne's Residence	21°17'23.20"S, 149°16'10.05"E	15
S5 - Salonika Beach	21°18'11.60"S, 149°17'35.24"E	13
S6 - Half Tide Beach	21°17'56.83"S, 149°17'31.84"E	9
Rain Gauge	21°17'23.52"S, 149°17'17.41"E	7

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Figure 1: Port of Hay Point Residential, Rain Gauge and Control Monitoring Stations Location

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Figure 2: Detail of the Port of Hay Point Residential Stations Location and Rain Gauge

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2.2. Monitored Parameters

Table 2 details the parameters monitored and the instruments used at Port of Hay Point Residential and Control monitoring stations. Appendix 1 defines any abbreviated parameter names used throughout the report.

Sampling of all parameters is continuous, with the exception of Deposited dust. Deposited dust is captured over a one-month period and the sample bottles collected once a month.

For meteorological sensors, the elevation given in the table below is the height above ground level at the monitoring station.

Table 2: Parameters measured at the Port of Hay Point Residential and Control Monitoring Stations

Site Code	Parameter Measured	Instrument and Measurement Technique
C1, C2, S1, S2, S3, S5 and S6	Deposited Particulate Matter	Dust Deposition Gauge
P3	Deposited Particulate Matter	Dust Deposition Gauge
	PM ₁₀	Thermo – TEOM 1405 (Tapered Element Oscillating Microbalance)
	Wind Speed (Horizontal, elevation 10m)	Gill Windsonic Op1
	Wind Direction (Elevation 10m)	Gill Windsonic Op1
	Ambient Temperature (Elevation 10m)	Vaisala WXT520 Multi-sensor Weather Monitor
	Relative Humidity (Elevation 10m)	Vaisala WXT520 Multi-sensor Weather Monitor
	Noise	Class 1 Brüel & Kjær 2250 Sound Level Meter
P1, P2 and P4	Deposited Particulate Matter	Dust Deposition Gauge

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Site Code	Parameter Measured	Instrument and Measurement Technique
	PM ₁₀	Thermo – TEOM 1405 (Tapered Element Oscillating Microbalance)
	Wind Speed (horizontal, elevation 10m)	Gill Windsonic Op1
	Wind Direction (elevation 10m)	Gill Windsonic Op1
	Noise	Class 1 Brüel & Kjær 2250 Sound Level Meter
Rain Gauge	Rainfall	Hydrological Services tipping bucket rain gauge - Model TB3

Since the beginning of the project in March 2017 until the 9th of July 2018, the TEOMs at sites P1, P2, P3 and P4 were configured to measure TSP. After this date, measurements were changed to PM₁₀ due to updates to the Dalrymple Bay Coal Terminal Pty Ltd and Hay Point Environmental Authority Permit¹.

¹ Department of Environment and Heritage Protection Environmental Authority Permits EPPR00474413 and EPPR00504513.

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2.3. Data Collection Methods

Table 3 below shows the methods used for data collection.

Table 3: Methods

Parameter Measured	Data Collection Methods Used	Description of Method
Deposited Particulate Matter (<i>Sampling by Acoem Australasia (Ecotech)</i>)	AS/NZS 3580.10.1 2016	Methods for sampling and analysis of ambient air. Method 10.1: Determination of particulate matter—Deposited matter—Gravimetric method
Deposited Particulate Matter (<i>Analysis by SGS</i>)	AN502 (Sydney) /AN503	The mass deposition rate of deposited matter is calculated from the mass of solids obtained, the funnel cross-section area and the exposure period.
PM ₁₀ (TEOM)	AS/NZ 3580.9.8-2022	Methods for sampling and analysis of ambient air. Method 9.8: Determination of suspended particulate matter - PM ₁₀ continuous direct mass method using a tapered element oscillating microbalance analyser.
Vector Wind Speed (Horizontal)	AS/NZS 3580.14 2014	Methods for sampling and analysis of ambient air. Method 14: Meteorological monitoring for ambient air quality monitoring applications
Vector Wind Direction	AS/NZS 3580.14 2014	Methods for sampling and analysis of ambient air. Method 14: Meteorological monitoring for ambient air quality monitoring applications
Ambient Temperature	AS/NZS 3580.14 2014	Methods for sampling and analysis of ambient air. Method 14: Meteorological monitoring for ambient air quality monitoring applications
Relative Humidity	AS/NZS 3580.14 2014	Methods for sampling and analysis of ambient air. Method 14: Meteorological monitoring for ambient air quality monitoring applications
Rain (<i>Sampling by external contractor</i>)	AS/NZS 3580.14 2014	Methods for sampling and analysis of ambient air. Method 14: Meteorological monitoring for ambient air quality monitoring applications. Rainfall by tipping bucket rain gauge
Noise (L _{eq} , L ₁₀ and L ₉₀) (<i>Analysis by Marshall Day Acoustics</i>)	DEHP Noise Measurement Manual (2013) and AS 1055.1: 1997	Acoustics - Description and measurement of environmental noise - Part 1: General procedures

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2.3.1. Data Acquisition

Data acquisition for continuously monitored parameters, with the exception of noise and rain, is performed using an Envista logger situated at each of the monitoring sites. Each logger is equipped with a 4G modem for remote data collection. The recorded data is remotely collected and transferred via FTP at 5-minute intervals (using Airodis™ version 5.2) and stored at Acoem Australasia (Ecotech) Environmental Reporting Services (ERS) department in Melbourne, Australia. Data samples are logged in 5-minute intervals. Unless otherwise specified, raw data will be retained for at least four years.

2.3.2. Sampling and analysis for Rain

Rain sampling and analysis are conducted by an external contractor. The 5-minute data is sent monthly to Acoem Australasia (Ecotech) by Dalrymple Bay Coal Terminal Pty Ltd (DBCT P/L).

2.3.3. Sampling and analysis for Noise

Noise data samples are logged in 5-minute intervals. The data is downloaded monthly by Acoem Australasia (Ecotech) field service technicians and sent to Marshall Day Acoustics for analysis.

2.3.4. Sampling and analysis for Deposited Dust

Deposited dust sampling is conducted by Acoem Australasia (Ecotech) field service technicians. Sample bottles are sent to SGS Cairns Environmental Laboratory for analysis. The laboratory is NATA accredited for compliance with ISO/IEC 17025:2017 (Acc. No. 2562, Site No.3146).

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2.4. Data Validation and Reporting

2.4.1. Validation

The Acoem Australasia (Ecotech) ERS department perform daily data checks on continuously monitored parameters (with the exception of noise and rainfall data) to ensure maximum data capture rates are maintained. Any equipment failures are communicated to the responsible field engineers for urgent rectification. Acoem Australasia (Ecotech) ERS maintains two distinct databases containing non-validated and validated data respectively.

The validated database is created by duplicating the non-validated database and then flagging data affected by instrument faults, calibrations and other maintenance activities. The data validation software requires the analyst to supply a valid reason (e.g., backed by maintenance notes, calibration sheets etc.) in the database for flagging any data as invalid.

All data validation activities are undertaken in accordance with AS 3580.19:2020 – Method 19: Ambient air quality data validation and reporting, which specifies the procedures for checking, validating, documenting and reporting ambient air quality monitoring data to ensure it is technically defensible and suitable for regulatory and scientific use.

Details of all invalid or missing data are recorded in the Valid Data Exception Tables.

Validation is performed by the analyst, and the validation is reviewed. Graphs and tables are generated based on the validated five-minute data.

Note: Validation for noise data is performed by the subcontractor Marshall Day Acoustics.

2.4.2. Reporting

Data are reported in accordance with the requirements of AS 3580.19:2020, ensuring consistency, transparency and auditability of validated ambient air quality data.

The data contained in this report is based on Australian Eastern Standard Time.

All averages are calculated from the five-minute data. Averages are based on a minimum of 75% valid readings within the averaging period. Where data capture is low for a particular parameter, summary values (e.g., monthly maximum and minimum) may be based on less than 75% valid samples.

The reader should use caution when interpreting these values as they may not be representative of conditions for the entire sample period.

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Averaging periods of eight hours or less are reported for the end of the period, i.e., the hourly average 02:00am is for the data collected from 1:00am to 2:00am. One-hour averages are calculated based on a clock hour. One day averages are calculated based on calendar days.

Rain Reporting

Rain results are provided to Acoem Australasia (Ecotech) by Dalrymple Bay Coal Terminal Pty Ltd (DBCT P/L) and included in this report.

Deposited Dust Reporting

Deposited dust results are provided to Acoem Australasia (Ecotech) by the SGS Cairns Environmental Laboratory and summarised within this report.

Noise Data Reporting

Noise levels results are provided to Acoem Australasia (Ecotech) by Marshall Day Acoustics and summarised within this report.

Wind Data Reporting

Wind speed and wind direction data associated with calm wind conditions are reported in accordance with the requirements of *AS/NZS 3580.14-2014*. Calm wind conditions are defined as wind speeds below the starting threshold of the wind speed/direction sensors.

In Table 7 on page 21, "South" describes the wind direction arc between the compass points of >60 degrees and <240 degrees. "North" describes wind direction arc between the compass points of >240 degrees and more <60 degrees.

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3.0 Air Quality Objectives

The air quality objectives monitored at the Port of Hay Point monitoring network sites are taken from the Dalrymple Bay Coal Terminal Pty Ltd and Hay Point Environmental Authority Permit².

The air quality objectives are shown in Table 4 below.

Table 4: Port of Hay Point Air Quality Objectives

Parameter	Time Period	Licence Limit	Units
Deposited Dust – Total Insoluble Solids	1 day: based on 1 month sampling	120 mg/m ² /day	mg/m ² /day
PM ₁₀	1 day	50 µg/m ³ – when generated by port activities and measured at any sensitive or commercial place	µg/m ³
L _{A90}	15 min	Day level (7am – 7pm) = 55 dB(A) Night level (7pm – 7am) = 53 dB(A)	dB(A)

² Department of Environment and Heritage Protection Environmental Authority Permits EPPR00474413 and EPPR00504513.

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4.0 Results

4.1. Data Capture

Data capture is based on 5-minute data and refers to the amount of available data collected during the report period. The percentage of data captured is calculated using the following equation:

$$\text{Data capture} = (\text{Reported air quality data} / \text{Total data}) \times 100\%$$

Where:

- Reported air quality data = Number of instrument readings which have been validated through a quality assured process and excludes all data errors, zero data collection due to calibration, failures and planned and unplanned maintenance.
- Total data = Total number of instrument readings since the start of the term assuming no maintenance, errors, loss of data or calibration.

Table 5 displays data capture statistics for the reporting period (January 2026). **Bold** values in the table indicate data capture below 90%.

Table 5: P1-P4 Data Capture for January 2026

Parameter	Data Capture (%)			
	P1	P2	P3	P4
PM ₁₀	87.1	46.5	98.4	97.7
WS and WD	97.8	92.1	98.8	98.8
AT ³			97.2	
RH ³			97.2	
Noise	100.0	99.0	100.0	100.0

The data capture rate for most parameters at sites were above 90% with exception of PM10 at sites P1 and P2 due to power faults during the reporting month. The overall monthly percentage of data captured for the 11 Dust Deposition Gauges was 100.0%.

³ AT and RH parameters are only measured at P3 station.

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4.2. Complaints

There were no external contacts in the month of January 2026.

4.3. Air Quality Summary

4.3.1. Air Quality Categories

Air quality categories rather than an air quality index have been adopted to align with a Nationally consistent method of reporting of air quality data.

Each air quality measurement from a monitoring station is assigned an air quality category rating based on comparison of the measurement value against the relevant air quality guideline. Five colour-coded air quality categories are used, being 'Good' (green), 'Fair' (yellow), 'Poor' (orange), 'Very Poor' (red) or 'Extremely Poor' (dark red). Values greater than the air quality guideline will be appear as 'Poor', 'Very Poor' or 'Extremely Poor'.⁴

The Air Quality Categories rating is based on 1-hour average values.

Table 6: Colour-coded Categories for Air Quality Categories

Not available	Good <50	Fair 50.1 - 100	Poor 100.1 - 200	Very Poor 200.1 - 600	Extremely Poor >600
---------------	-------------	--------------------	---------------------	--------------------------	------------------------

The PM₁₀ 1-hour average values for the reporting month in the stations P1, P2, P3 and P4 were assessed against the air quality category rating, and the pie chart on the next page presents the percentage of the days for which a specific air quality category was identified.

⁴ <https://www.qld.gov.au/environment/pollution/monitoring/air/air-monitoring/air-quality-categories>

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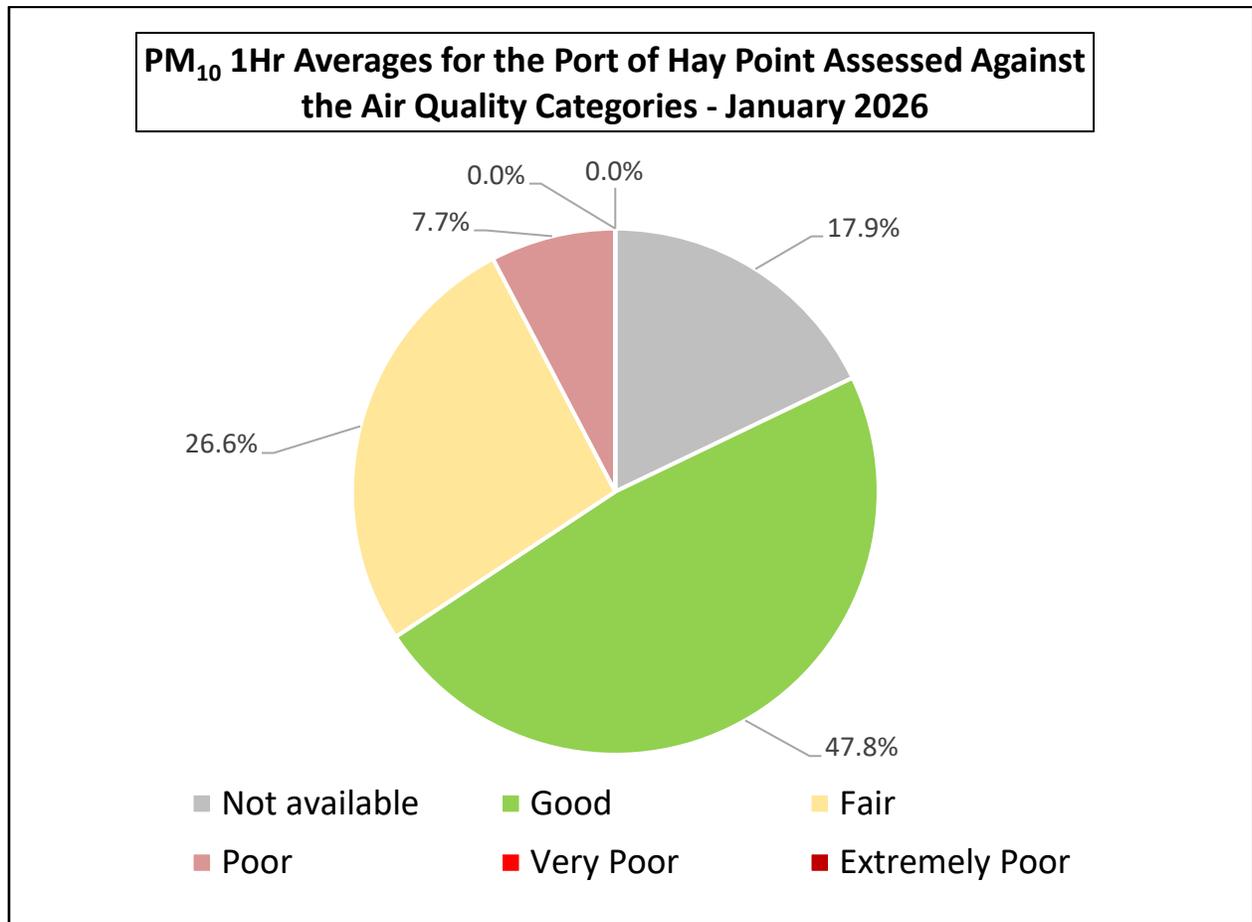


Figure 3: Hourly PM₁₀ Averages for the Port of Hay Point Assessed Against the Air Quality Index

The majority of the days during the reporting period (January 2026) against the Air Quality Index were classified as Good (47.8%) followed by Fair (26.6%). 17.9% of days during the reporting period was not available for classification due to power interruptions and instrument power faults.

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4.4. Graphic Representations

Validated 5-minute data for PM₁₀, Wind speed, Wind direction, AT, RH, Rainfall and Noise were used to construct the following monthly graphic representations and summary tables.

For PM₁₀, the licence limit is 50 µg/m³ for the 24-hour average measured downwind of site. If the wind is from the South, sites P1 and P2 are downwind of site. If the wind is from the North, sites P3 and P4 are downwind of site. The following graph and table summarise the wind direction and PM₁₀ results for the month compared to the licence limit. Values highlighted in red in the table indicate a PM₁₀ exceedance. Values shaded in dark grey indicate wind direction from the North.

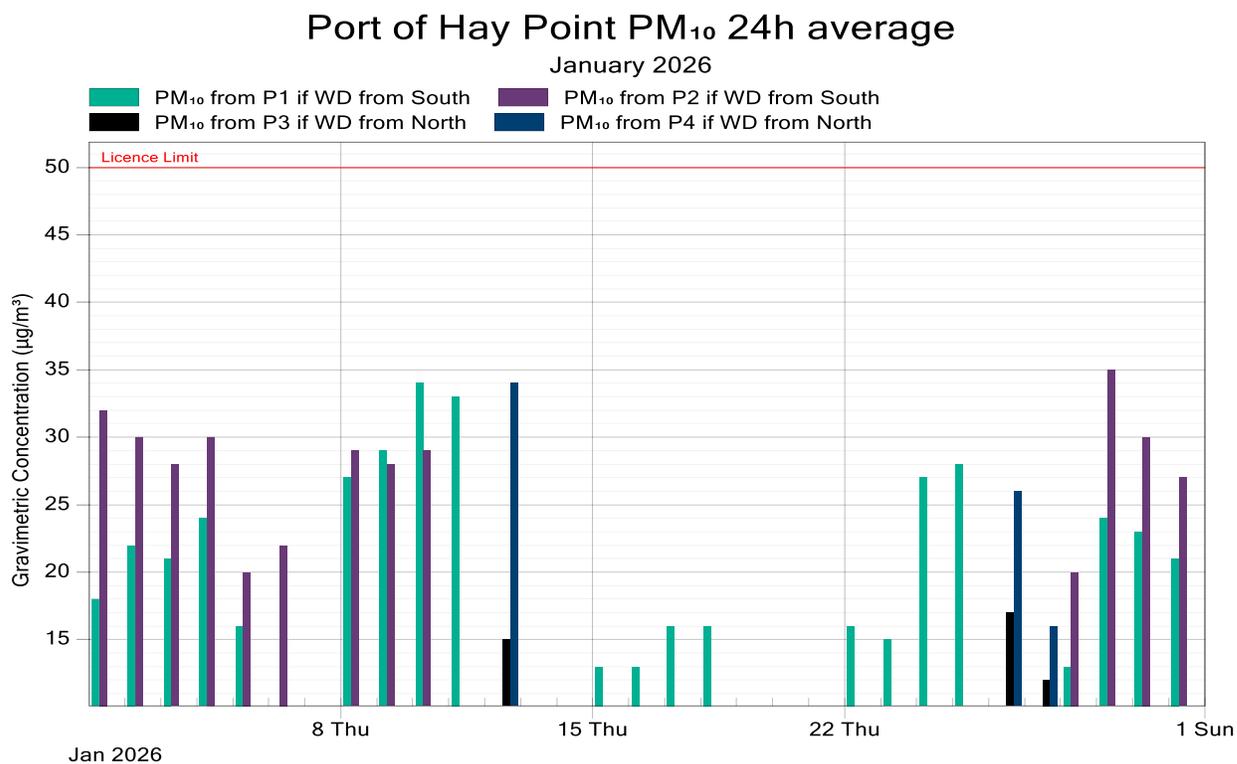


Figure 4: Port of Hay Point PM₁₀ 24-Hour Average Data Compared to the Licence Limit for January 2026

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Table 7: Port of Hay Point Wind Direction and PM₁₀ 24h Average Data for January 2026

Date	PM ₁₀ exceedence limit (µg/m ³)	Wind direction ⁵	P1 PM ₁₀ (µg/m ³)	P2 PM ₁₀ (µg/m ³)	P3 PM ₁₀ (µg/m ³)	P4 PM ₁₀ (µg/m ³)
1/01/2026	50.0	South	18	32	13	44
2/01/2026	50.0	South	22	30	18	46
3/01/2026	50.0	South	21	28	16	42
4/01/2026	50.0	South	24	30	18	50
5/01/2026	50.0	South	16	20	13	30
6/01/2026	50.0	South	-	22	16	32
7/01/2026	50.0	South	-	-	-	-
8/01/2026	50.0	South	27	29	30	60
9/01/2026	50.0	South	29	28	32	60
10/01/2026	50.0	South	34	29	32	56
11/01/2026	50.0	South	33	-	36	58
12/01/2026	50.0	North	12	-	15	34
13/01/2026	50.0	South	-	-	11	21
14/01/2026	50.0	South	-	-	12	21
15/01/2026	50.0	South	13	-	14	24
16/01/2026	50.0	South	13	-	11	12
17/01/2026	50.0	South	16	-	12	15
18/01/2026	50.0	South	16	-	15	21
19/01/2026	50.0	South	-	-	20	45
20/01/2026	50.0	South	-	-	24	54
21/01/2026	50.0	South	-	-	24	53
22/01/2026	50.0	South	16	-	16	30
23/01/2026	50.0	South	15	-	15	23
24/01/2026	50.0	South	27	-	23	48
25/01/2026	50.0	South	28	-	25	50
26/01/2026	50.0	North	22	-	17	26
27/01/2026	50.0	North	14	-	12	16
28/01/2026	50.0	South	13	20	9	18
29/01/2026	50.0	South	24	35	22	44
30/01/2026	50.0	South	23	30	21	42
31/01/2026	50.0	South	21	27	20	41

⁵ Wind compass direction from "South" is >60 degrees and <240 degrees

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The next graphs present the deposited dust results for the Total Insoluble Solids in comparison with the license limit for the reporting month⁶. The results are presented in two different graphs: one for the sites located to the North of the Terminal (S1, S2, S3, P1 and P2) and another for the sites located to the South of the Terminal (S5, S6, P3 and P4).

The Total Insoluble Solids are classified in 4 categories: organic matter (plant and animal material), fine dark particles (dark material), mineral fraction (light material) and other material such as plastics.

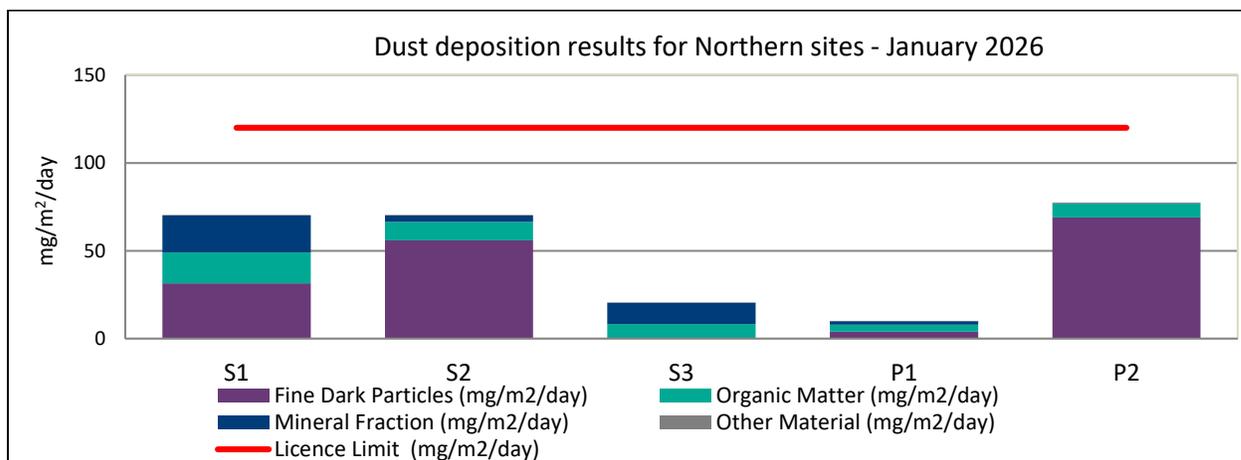


Figure 5: Dust Deposition Results for Northern Sites, January 2026

⁶ Dust deposition results were provided to Acoem by the SGS Cairns Environmental Laboratory.

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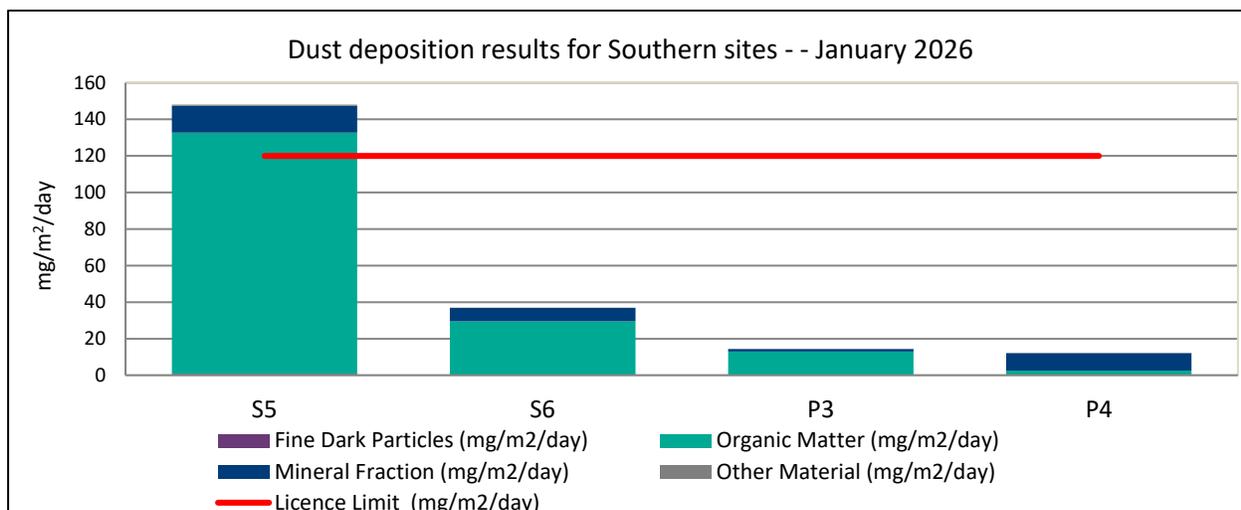


Figure 6: Dust Deposition Results for Southern Sites, January 2026

Total Insoluble Solids concentration for sites P1, P2, P3 and P4 was below the license limit. During January 2026, the prevailing wind direction was from the South (90.3% of the days). The exceedance at site S5 was mainly contributed by organic matter.

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Table 8 provides a summary of the average L_{A90} values recorded at sites P1, P2, P3 and P4 during the reporting month. Result summaries and interpretations below are those provided by Marshall Day Acoustics.

Table 8: Noise Levels (L_{A90}) Measured at P1, P2, P3 and P4 for January 2026

Location	L_{A90} dB Average 12hr Level*	Standard deviation	Range
P1 Day	43	3.3	34 - 62
P1 Night	44	2.8	36 - 58
P2 Day	57	4.6	45 - 67
P2 Night	52	3.3	46 - 66
P3 Day	46	3.6	40 - 62
P3 Night	46	4.4	39 - 64
P4 Day	50	4.3	40 - 65
P4 Night	50	3.9	42 - 62

*Average of L_{A90} , 15 min for the day and evening periods

Note: The recorded noise levels include extraneous noise and weather-related events, and are not pure component sound levels.

The average L_{A90} sound pressure levels at all monitoring locations (including adverse weather and other extraneous noise sources) were below the corresponding target noise levels for the Day and Night periods.

Sound levels measured throughout January 2026 at monitoring locations P1, P2, P3 and P4 have been plotted in Figures 7 to Figure 10 respectively.

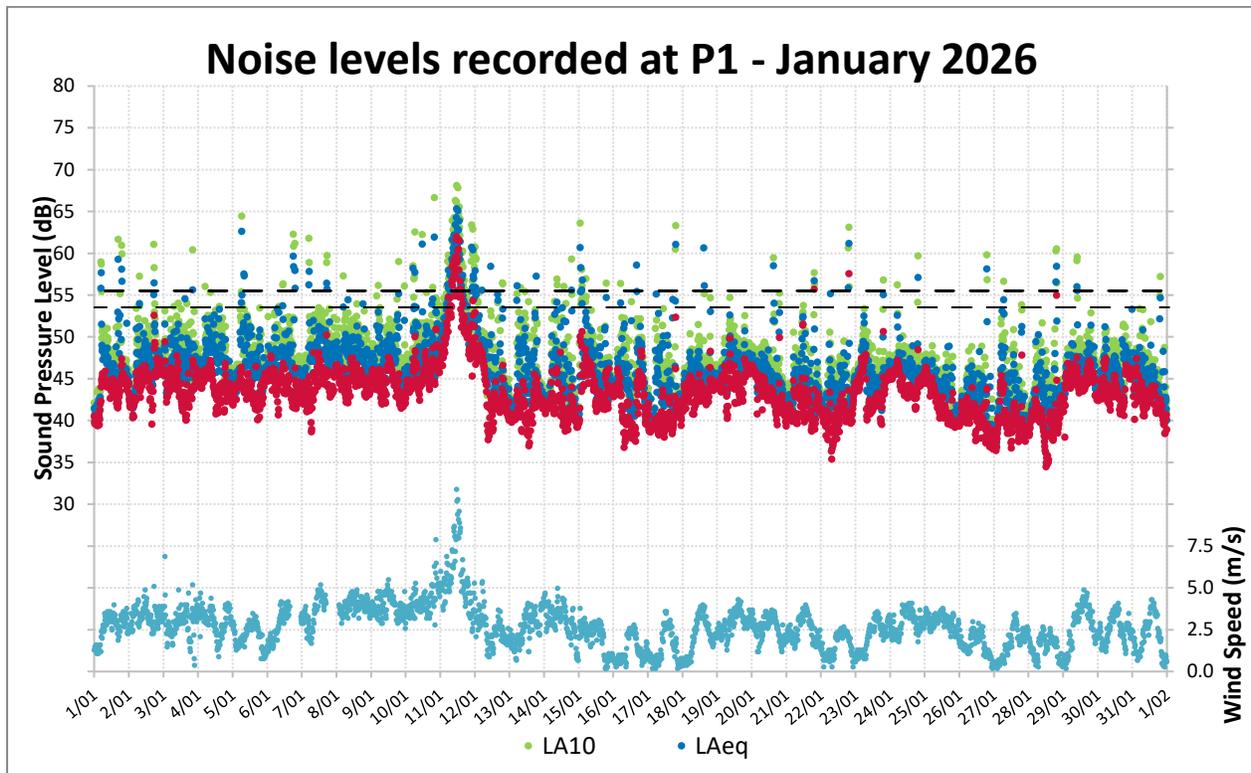


Figure 7: Noise Levels Recorded at P1 for January 2026

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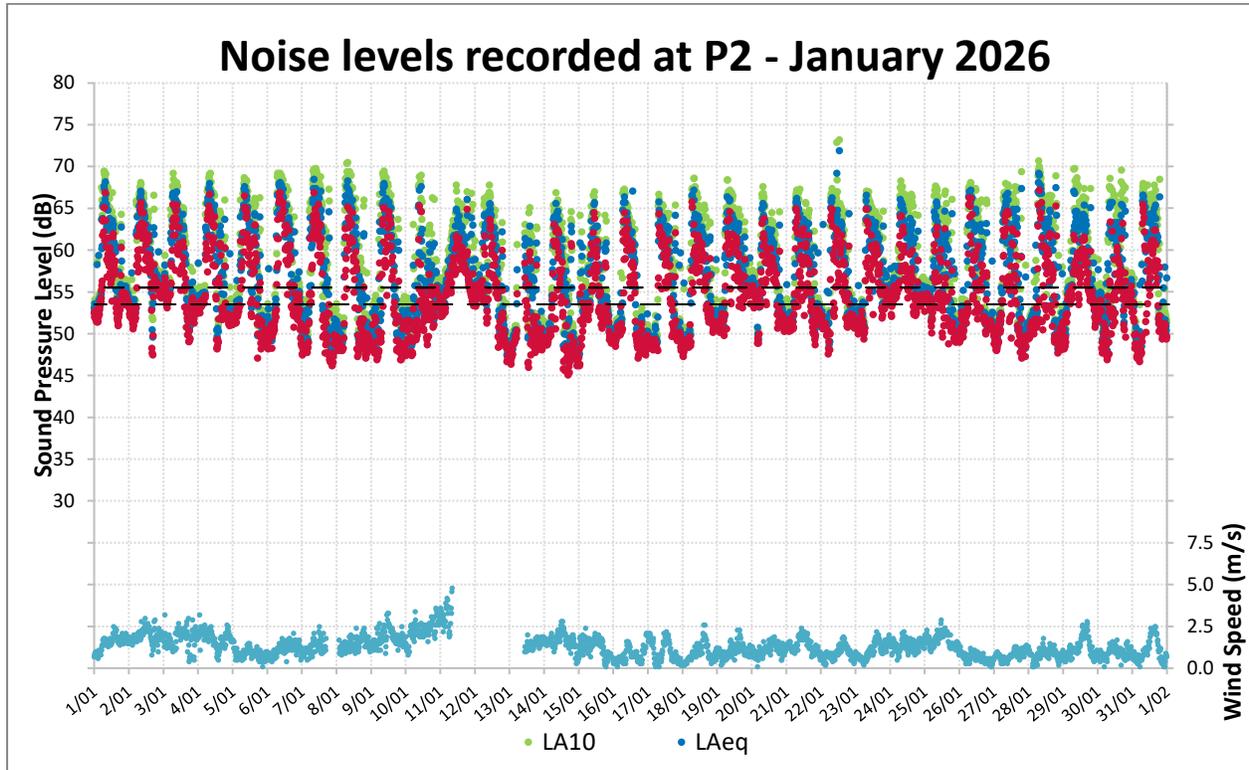


Figure 8: Noise Levels Recorded at P2 for January 2026

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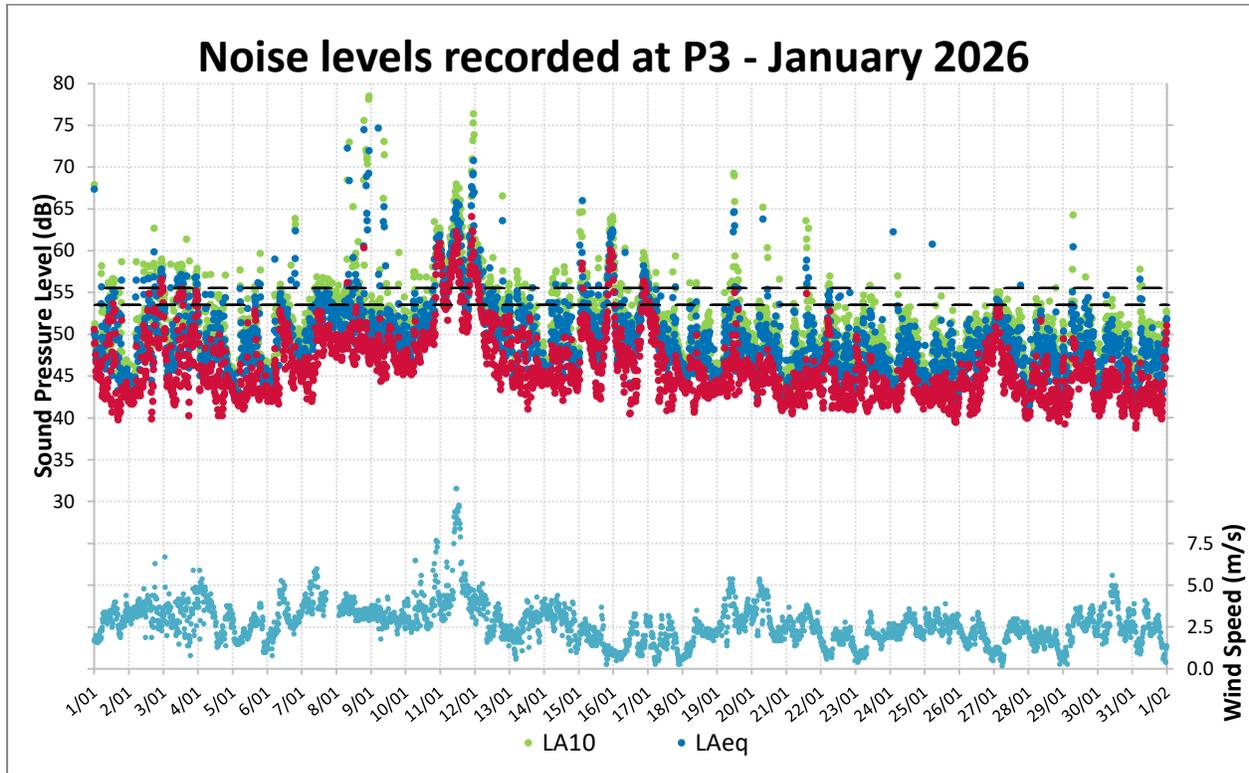


Figure 9: Noise Levels Recorded at P3 for January 2026

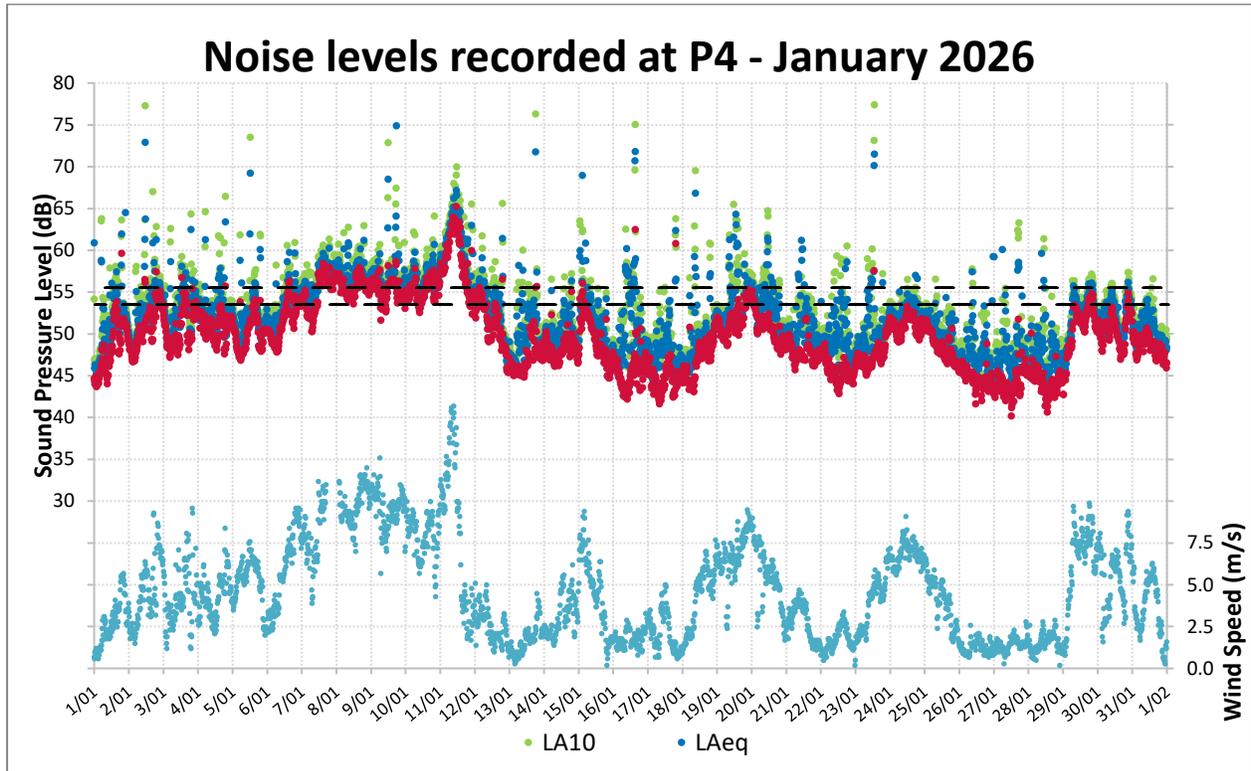


Figure 10: Noise Levels Recorded at P4 for January 2026

Residential and Control Monitoring Stations

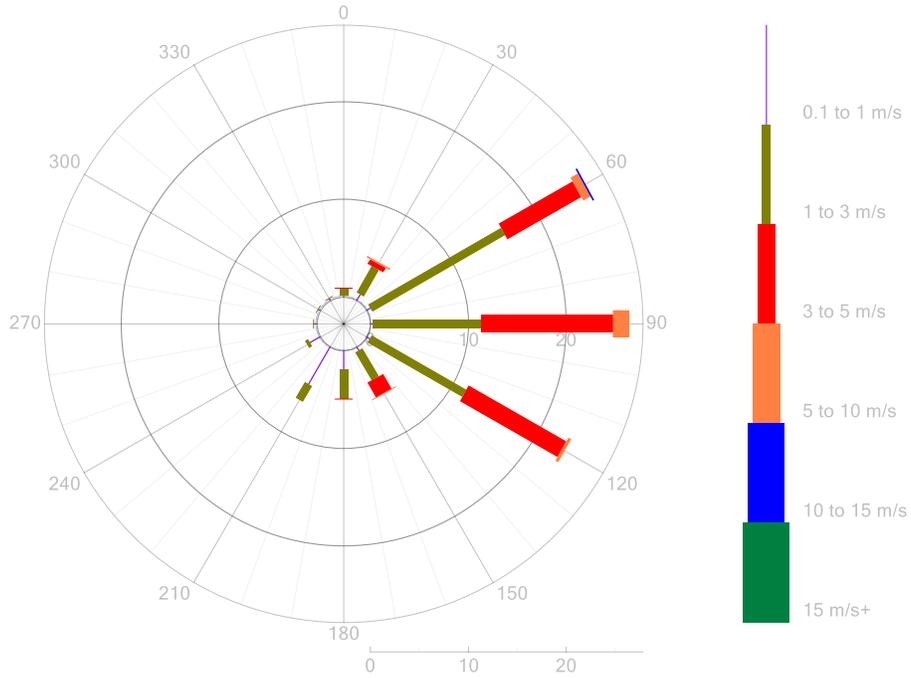
Report No: DAT23852

Port of Hay Point

Wind Rose - P1 Louisa Creek Edmund Ave North

Wind Rose

January 2026



0.1% calm
97.8% valid data present

Figure 11: P1 Wind Rose 5-Minute Data for January 2026

Residential and Control Monitoring Stations

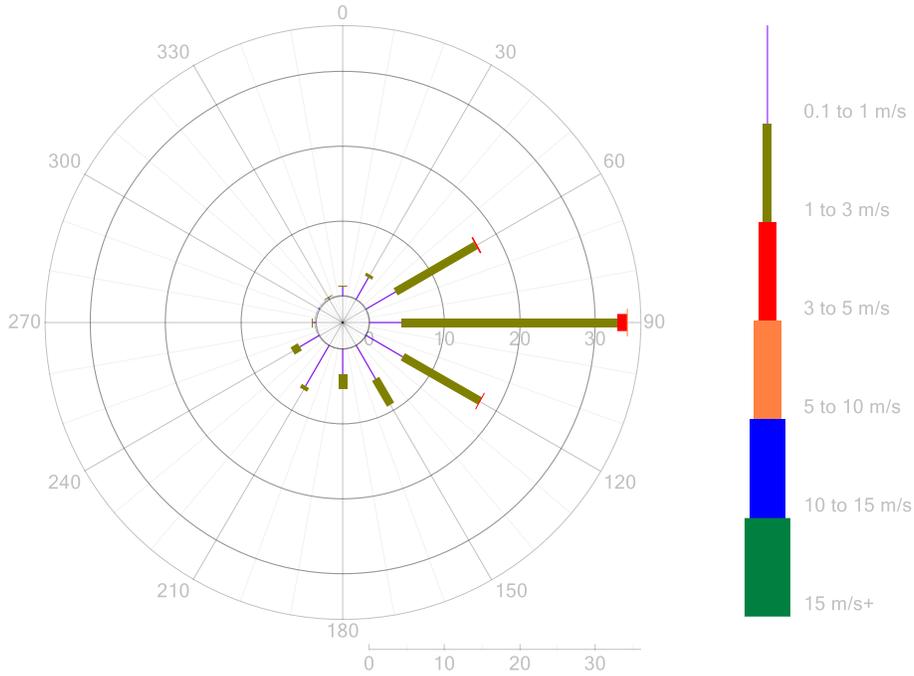
Report No: DAT23852

Port of Hay Point

Wind Rose - P2 Louisa Creek Edmund Ave South

Wind Rose

January 2026



0.2% calm
92.1% valid data present

Figure 12: P2 Wind Rose 5-Minute Data for January 2026

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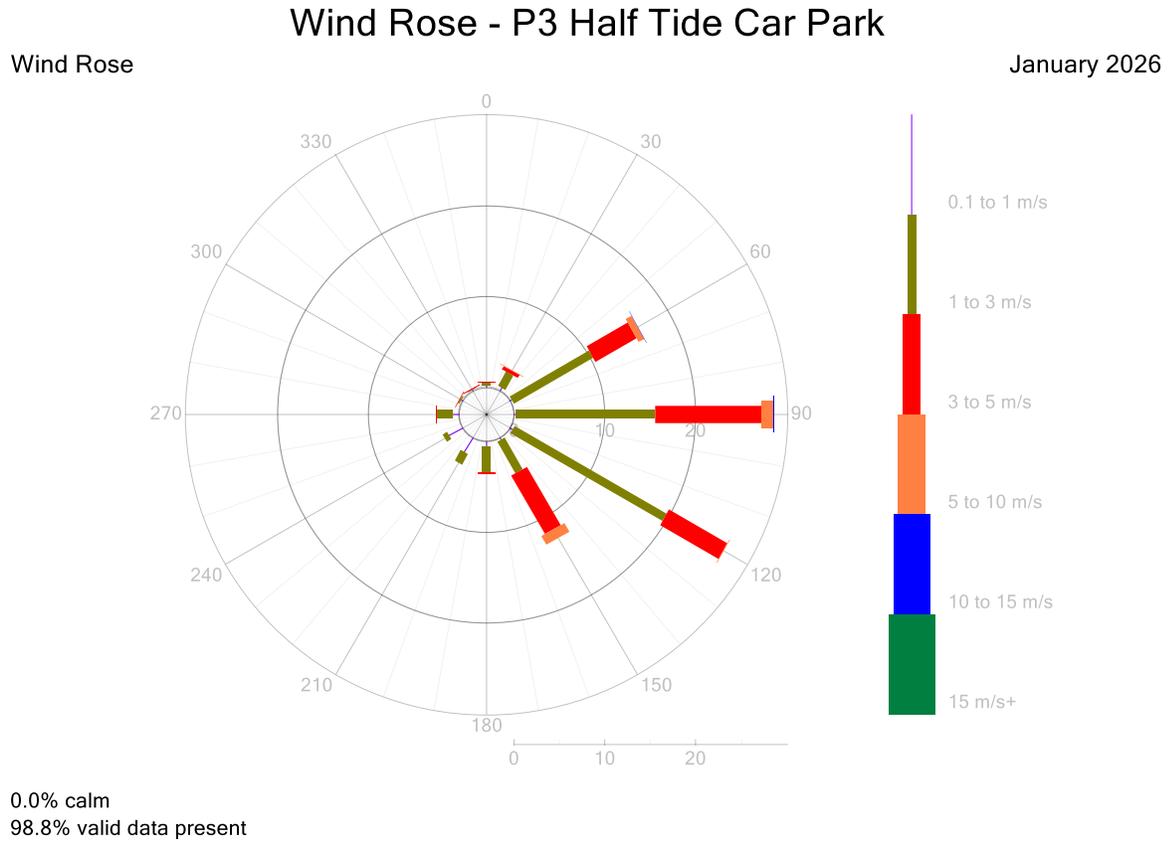


Figure 13: P3 Wind Rose 5-Minute Data for January 2026

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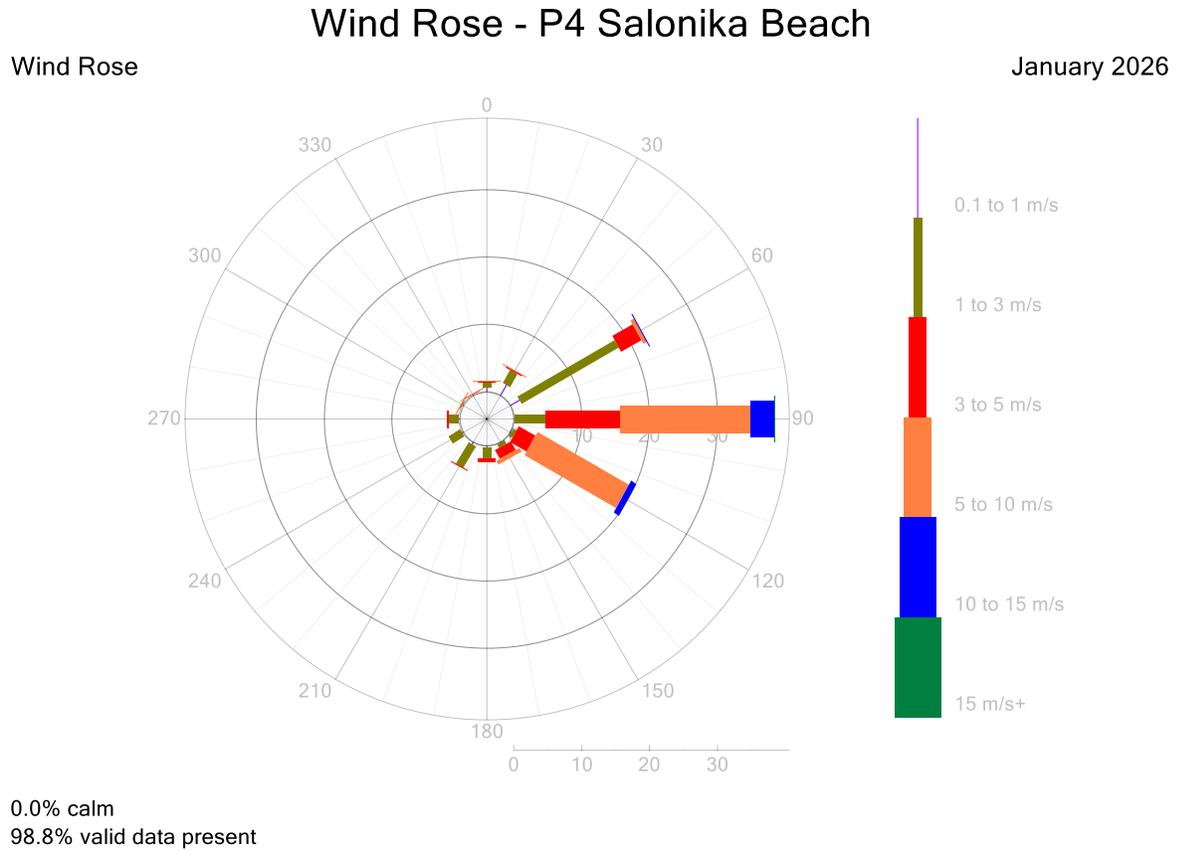


Figure 14: P4 Wind Rose 5-Minute Data for January 2026

Residential and Control Monitoring Stations

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Port of Hay Point

Ambient Temperature 5-Minute Averages - P3 Half Tide Car Park
January 2026

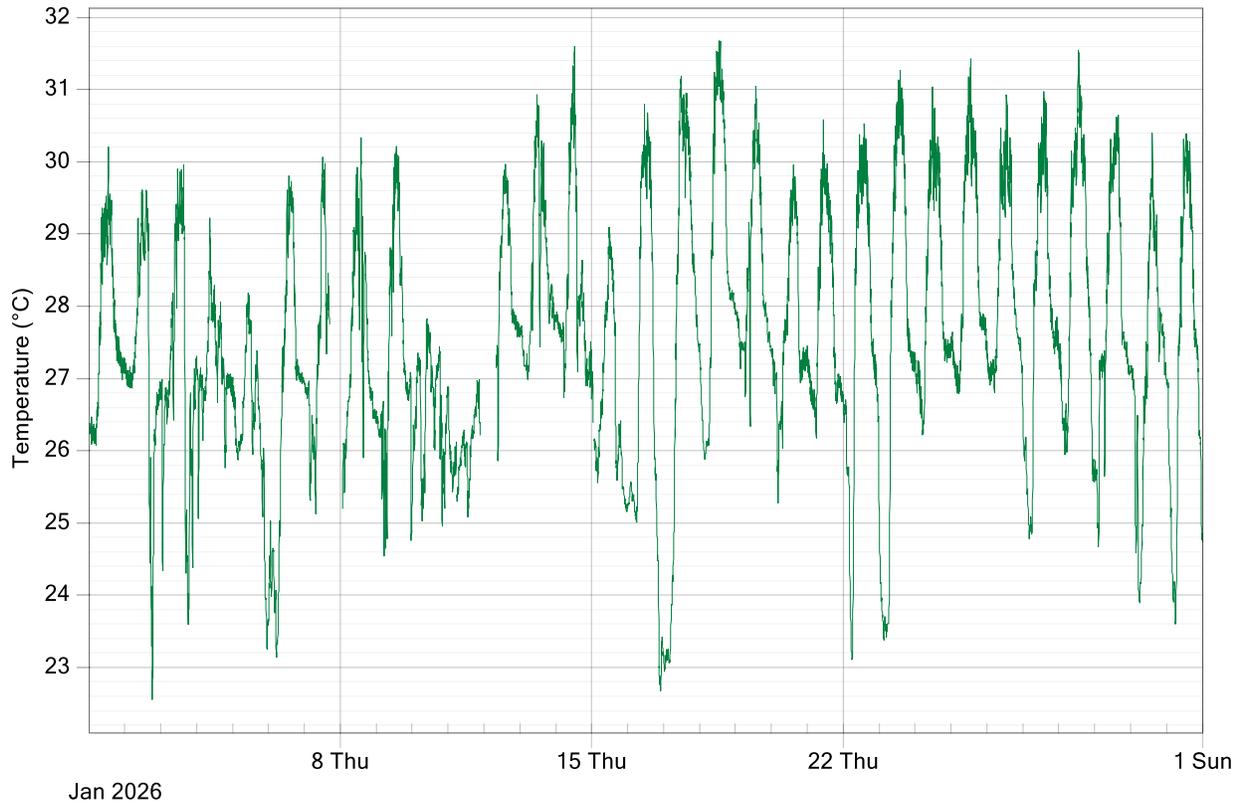


Figure 15: Port of Hay Point AT 5-Minute Averages Data for January 2026

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Port of Hay Point

Relative Humidity 5-Minute Averages - P3 Half Tide Car Park
January 2026

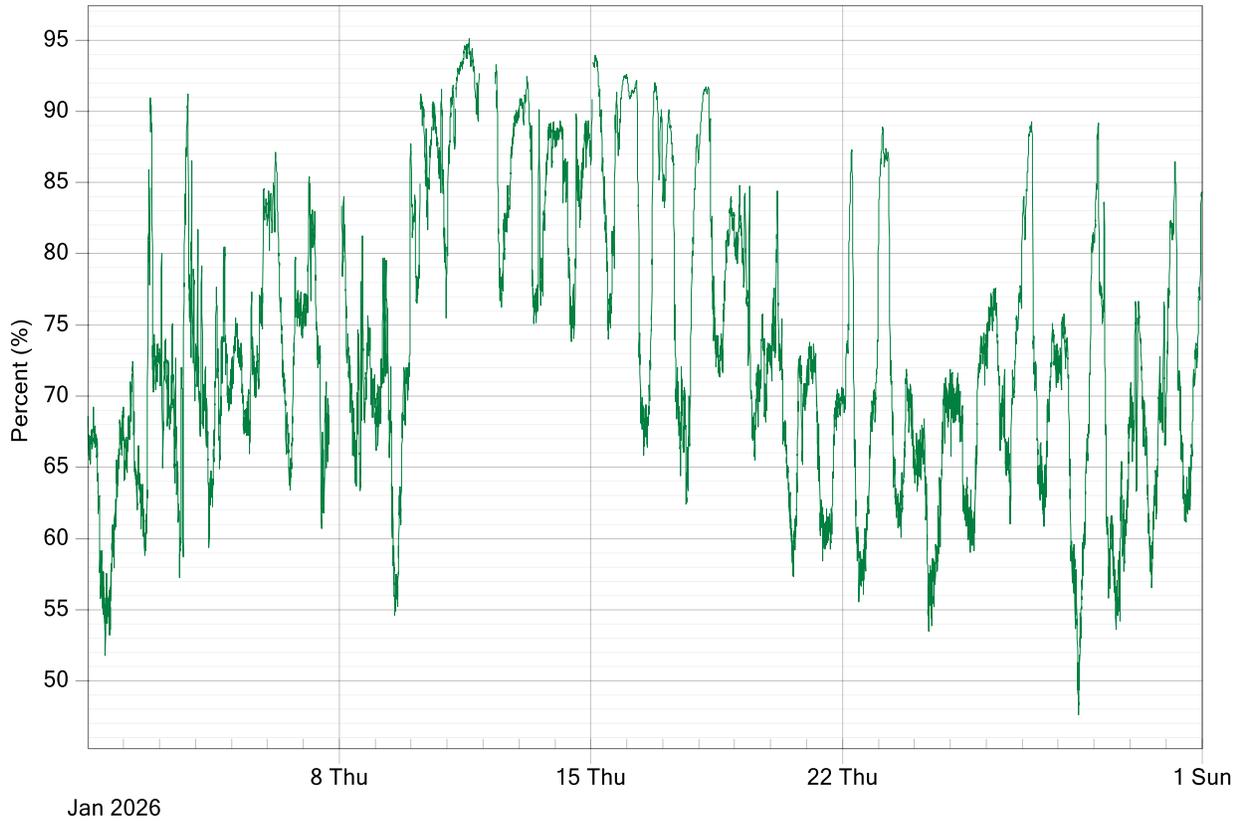


Figure 16: Port of Hay Point RH 5-Minute Averages Data for January 2026

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Port of Hay Point

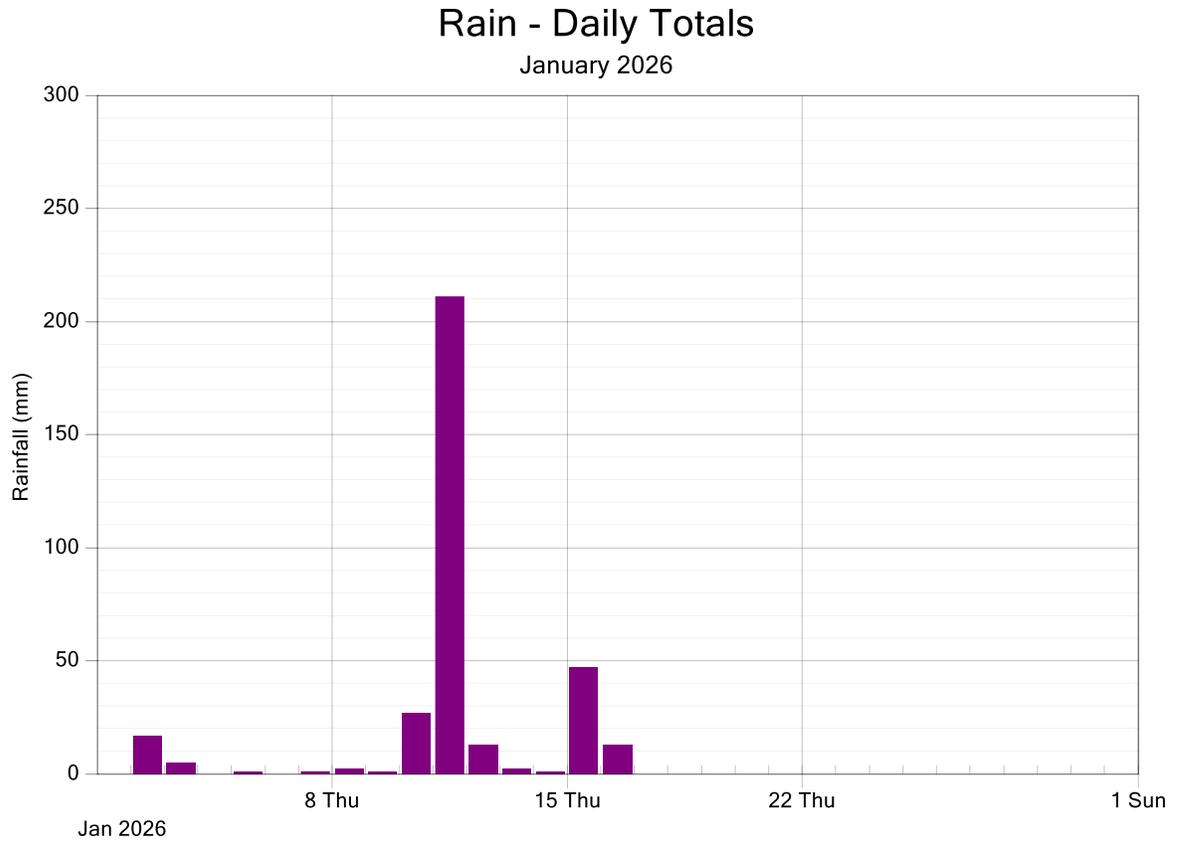


Figure 17: Port of Hay Point Rain Daily Totals for January 2026

-----END OF REPORT-----

Residential and Control Monitoring Stations

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Port of Hay Point

Appendix 1 - Definitions & Abbreviations

°C	Degrees Celsius
µg/m ³	Micrograms per cubic meter at standard temperature and pressure (0°C and 101.3 kPa)
AT	Ambient Temperature
atm	Atmosphere
calm	Wind conditions where the wind speed is below the operating range of the wind sensor
dBa	A-weighted decibels
deg	Degrees (True North)
m/s	Meters per second
mg/m ²	Milligrams per square meter
PM ₁₀	Particulate less than 10 microns in equivalent aerodynamic diameter
RH	Relative Humidity
TSP	Total suspended particulates
WD	Vector Wind Direction
WS	Vector Wind Speed