



MULTICOM
RESOURCES

SAINT ELMO PROJECT

ANNUAL NOISE QUALITY MONITORING REPORT

1 January 2025– 31 December 2025

Reference: SEP-RPT-EV-00027

Date	Description	Originator	Reviewer	Approver
30/01/2026	Version 1	K. Evans	N.Higgins	A.Napier

The information contained in this document is solely for the use by Multicom and approved contractors for the purpose for which it has been prepared and Multicom undertakes no duty to or accepts any responsibility to any third party who may rely upon this document. All rights reserved. No section or element of this document may be removed from this document, reproduced, electronically stored or transmitted in any form without the written permission of Multicom.

Contents

1	EXECUTIVE SUMMARY	6
2	INTRODUCTION	7
3	METHODOLOGY	7
4	AUSTRALIAN AND NEW ZEALAND STANDARDS	8
5	CURRENT REPORTING PERIOD	9
6	LOCATION	10
7	NOISE CRITERIA	15
7	EXCEEDANCE MONITORING	16
8	METEOROLOGICAL DATA AND NOISE MONITORING RESULTS	18
8.1	JANUARY 2025 MONITORING	18
8.1.1	January Monitoring Results Summary	21
8.2	FEBRUARY 2025 MONITORING	22
8.2.1	February Monitoring Results Summary	25
8.3	MARCH 2025 MONITORING	26
8.3.1	March Monitoring Results Summary	29
8.4	APRIL 2025 MONITORING	30
8.4.1	April Monitoring Results Summary	33
8.5	MAY 2025 MONITORING	34
8.5.1	May Monitoring Results Summary	37
8.6	JUNE 2025 MONITORING	38
8.6.1	June Monitoring Results Summary	41
8.7	JULY 2025 MONITORING	42
8.7.1	July Monitoring Results Summary	45
8.8	AUGUST 2025 MONITORING	46
8.8.1	August Monitoring Results Summary	49
8.9	SEPTEMBER 2025 MONITORING	50
8.9.1	September Monitoring Results Summary	51
8.10	OCTOBER 2025 MONITORING	52
8.10.1	October Monitoring Results Summary	55
8.11	NOVEMBER 2025 MONITORING	56
8.11.1	November Monitoring Results Summary	59
8.12	DECEMBER 2025 MONITORING	60
8.12.1	December Monitoring Results Summary	63
9	COMPLAINTS	64
10	CONCLUSION	64
11	APPENDIX A - GLOSSARY	65

List of Tables

Table 1 - List of Sensitive Receptors with Coordinates12

Table 2 - Relevant Noise Criteria at the Sensitive Place or Commercial Place15

Table 3 - Noise Category Definitions16

Table 4 - January 2025 Hourly Exceedance Percentages20

Table 5 - February 2025 Hourly Exceedance Percentages24

Table 6 - March 2025 Hourly Exceedance Percentages28

Table 7 - April 2025 Hourly Exceedance Percentages32

Table 8 - May 2025 Hourly Exceedance Percentages36

Table 9 - June 2025 Hourly Exceedance Percentages40

Table 10 - July 2025 Hourly Exceedance Percentages44

Table 11 - August 2025 Hourly Exceedance Percentages48

Table 12 - October 2025 Hourly Exceedance Percentages54

Table 13 - November 2025 Hourly Exceedance Percentages58

Table 14 - December 2025 Hourly Exceedance Percentages.....62

List of Figures

Figure 1 - Noise Monitoring Device	10
Figure 2 - Noise Monitoring Station Location	11
Figure 3 - Saint Elmo Weather Station	11
Figure 4 - Location of Sensitive Receptors and Noise Monitor	13
Figure 5 - Location of Mine Pits	14
Figure 6 - Percentage of Exceedances by Noise Category	17
Figure 7 - Percentage of Exceedances by Period	17
Figure 8 - January 2025 Weather Station Data	18
Figure 9 - January 2025 Wind Speed and Direction	18
Figure 10 - January 2025 Noise Data	19
Figure 11 - February 2025 Weather Station Data	22
Figure 12 - February 2025 Wind Speed and Direction	22
Figure 13 - February 2025 Noise Data	23
Figure 14 - March 2025 Weather Station Data	26
Figure 15 - March 2025 Wind Speed and Direction	26
Figure 16 - March 2025 Noise Data	27
Figure 17 - April 2025 Weather Station Data	30
Figure 18 - April 2025 Wind Speed and Direction	30
Figure 19 - April 2025 Noise Data	31
Figure 20 - May 2025 Weather Station Data	34
Figure 21 - May 2025 Wind Speed and Direction	34
Figure 22 - May 2025 Noise Data	35
Figure 23 - June 2025 Weather Station Data	38
Figure 24 - June 2025 Wind Speed and Direction	38
Figure 25 - June 2025 Noise Data	39
Figure 26 - July 2025 Weather Station Data	42
Figure 27 - July 2025 Wind Speed and Direction	42
Figure 28 - July 2025 Noise Data	43
Figure 29 - August 2025 Weather Station Data	46
Figure 30 - August 2025 Wind Speed and Direction	46
Figure 31 - August 2025 Noise Data	47

Figure 32 - September 2025 Weather Station Data.....	50
Figure 33 - September 2025 Wind Speed and Direction	50
Figure 34 - October 2025 Weather Station Data	52
Figure 35 - October 2025 Wind Speed and Direction	52
Figure 36 - October 2025 Noise Data.....	53
Figure 37 - November 2025 Weather Station Data	56
Figure 38 - November 2025 Wind Speed and Direction	56
Figure 39 - November 2025 Noise Data.....	57
Figure 40 - December 2025 Weather Station Data.....	60
Figure 41 - December 2025 Wind Speed and Direction	60
Figure 42 - December 2025 Noise Data	61

1 EXECUTIVE SUMMARY

The Annual Noise Quality Monitoring Report for the Saint Elmo Mine, covering the period from 1 January 2025 to 31 December 2025, details the findings of noise monitoring conducted in accordance with the Environmental Authority (EA) Permit P-EA-100119386, Schedule D. The monitoring system, utilizing a Class 1 noise monitoring station compliant with Australian Standards, recorded environmental noise levels over 15-minute intervals. Alongside meteorological data the information was used to assess compliance with the specified noise criteria. Throughout the reporting period some equipment challenges were endured, including sporadic network failures and machine faults, the monitoring system was not operational from August 7 to October 22 due to a mic collar connection failure. The machine remained operational outside this period with any data gaps being identified within the data.

The first preclearance survey was undertaken on the mine pit and haul road at the Southern edge of the mining lease in November 2025. The Saint Elmo homestead had not been occupied for an extended period prior to August 2025. While the minimal clearing activity limited the potential for noise impacts from operations, the monitoring results consistently showed exceedances of the established noise criteria, primarily due to natural factors such as weather and wildlife, with background noise levels regularly surpassing the limits. The frequency of these exceedances indicates that the current noise limits may not fully account for the consistently high background noise levels in the area.

The continued occurrence of noise exceedances highlights the importance of reviewing the current noise limits and considering adjustments to more accurately reflect the naturally high ambient noise levels. Revising the limits would help reduce routine exceedances caused by background conditions outside the control of mining operations. Ongoing monitoring and refinement of noise management measures remain essential to ensure compliance and to mitigate the environmental impact of noise at the Saint Elmo Mine.

2 INTRODUCTION

Multicom Resources Noise Management Plan includes a commitment to develop Annual Noise Quality Monitoring Reports to determine compliance against the conditions set out in Schedule D of the Environmental Authority (EA) Permit P-EA-100119386.

Multicom Resources is dedicated to maintaining high environmental standards, particularly in noise quality management. As part of the Noise Management Plan (NMP), this report is designed to assess our compliance with the conditions specified in Schedule D of our Environmental Authority (EA) P-EA-100119386 and to provide a comprehensive overview of our noise monitoring efforts in 2025. Multicom Resources is committed to ensuring that the mining activities does not cause limits to be exceeded at sensitive or commercial place as specified in the EA.

It is important to note that all environmental data collected during the period January 1 to November 20 is representative of background environmental levels, as no mining activities occurred. Mining activities commenced on November 21 with topsoil clearing of the northern mine pit.

The Annual Noise Quality Monitoring Report includes detailed data evaluation of monitoring results, plus a summary of hourly exceedances or missed sampling events. By systematically analysing this information, we aim to ensure that our operations not only comply with regulatory requirements but also contribute positively to the environment.

3 METHODOLOGY

Monitoring is conducted using a Class 1 noise monitoring station with 1/3 octave band analysis, compliant with Australian and New Zealand Standards and holds current National Association of Testing Authorities (NATA) and manufacturer calibration certificates. The monitor performs automatic system checks and can enable calibration factors, periodically verified by a built-in speaker.

The real-time noise monitoring system records one-third octave band noise levels with A-weighting (including LAeq, LA1, LA10, and LA90) over 15-minute intervals. The noise monitoring device is installed in free-field conditions with a microphone height of 1.8 meters (m) above the ground, is connected to mains power and the network via a modem with an embedded SIM card.

Calibration of the noise monitoring device and acoustic calibrator occurred prior to installation in April 2023 and on 12 June 2024. Monthly calibrations occurred throughout the reporting period using the acoustic calibrator, an external calibration along with routine maintenance was conducted in October 2025.

Meteorological data is captured over 1-hour intervals identifying weather conditions during the monitoring period.

4 AUSTRALIAN AND NEW ZEALAND STANDARDS

All sampling, analysis, and reporting of noise monitoring conditions have been carried out in compliance with legislative requirements and applicable Australian Standards or their equivalents. The standards applied are as follows:

- AS1055:2018 *Acoustics – Description and measurement of environmental noise.*
- AS/NZS IEC 61672.1:2019 *Electroacoustics – Sound Level Meters Specifications*

5 CURRENT REPORTING PERIOD

This report presents the noise logging data for the period of:

- 1 January 2025 – 31 December 2025

It should be noted that there was no mining activity until November 2025.

6 LOCATION

The Saint Elmo Mine is located on rural, agricultural land. The predominant existing land use within the mine site and surrounding area is cattle grazing with several homesteads interspersed on the surrounding properties.

Immediately to the south of the mining boundary is the Flinders Highway. The Offsite Water Storage Facility (OWSF) and associated infrastructure are located near the Flinders River north-east of the mine. The planned pipeline from the OWSF to the Construction Infrastructure Area on Saint Elmo Station will be located along Punchbowl Road. The Julia Creek township is located approximately 15 kilometres (km) from the western boundary of the mining lease and consequently very unlikely to be impacted by any noise generated from mining activities. The noise monitoring device installed on site is shown in **Figure 1** and its location is shown in **Figure 2**.



Figure 1 - Noise Monitoring Device

Monthly weather data has been included within the noise monitoring results to provide context and help assess how weather conditions may have influenced noise levels during the monitoring period. The weather station is located near the noise monitoring equipment at the homestead and is shown in **Figure 3**.

NOTE: Any rainfall data below 1mm will not appear on graphs.

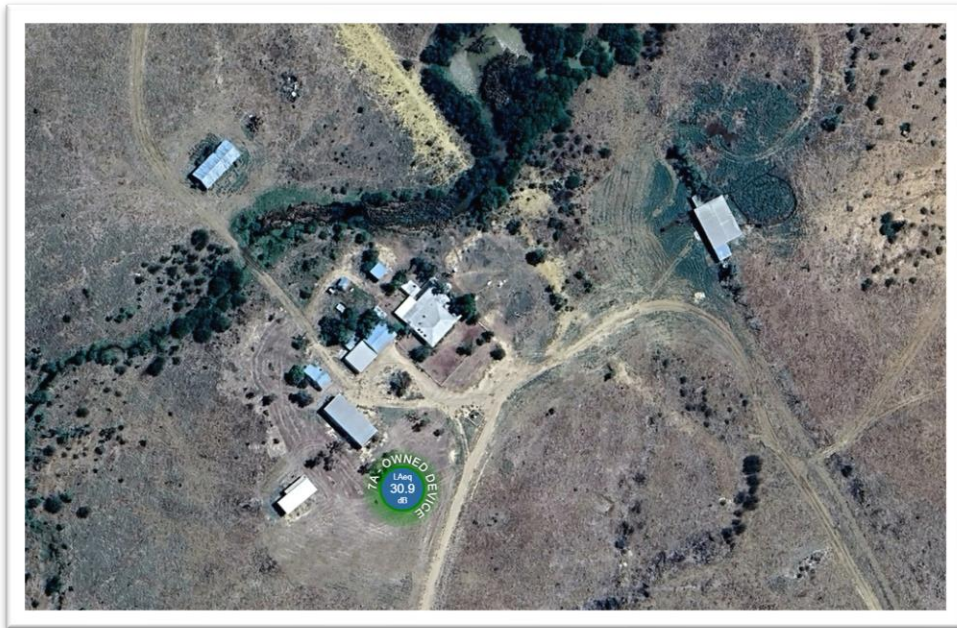


Figure 2 - Noise Monitoring Station Location



Figure 3 - Saint Elmo Weather Station

The nearest existing sensitive receptors are summarised in **Table 1** and shown in **Figure 4**, with the closest receptor (A) being the Saint Elmo Homestead. The homestead is located approximately 270m west of the mining lease boundary and is the location at which the noise

monitoring device has been installed. The Universal Transverse Mercator (UTM) coordinates for the device are 590163E, 7722911N. All receptors listed in **Table 1** are residences.

The initial preclearance survey was undertaken on the first mine pit and haul road at the Southern edge of the mining lease in November 2025 which enabled mine clearing activities to commence (**Figure 5**). Initial clearing for mining purposes occurred in late November 2025 and was limited to the removal of approximately 4–6 inches of topsoil from the mine pit area. No further disturbance activities occurred following this initial clearing.

Table 1 - List of Sensitive Receptors with Coordinates

ID	Real Property Description	Approximate Distance and Direction from Site Boundary	Easting (m)	Northing (m)	Latitude (°)	Longitude (°)
A	Lot 13 EN89	270m west	590175	7722971	-20.5901	141.8653
B	Lot 4 EN30	4.2km west	584451	7724151	-20.5798	141.8104
C	Lot 4 MF16	6.8km north	588714	7739955	-20.4369	141.8503
D	Lot 2 MF3	10km north-east	598316	7739202	-20.4431	141.9424
E	Lot 11 EN105	6.2km south-west	591181	7709990	-20.7074	141.8756

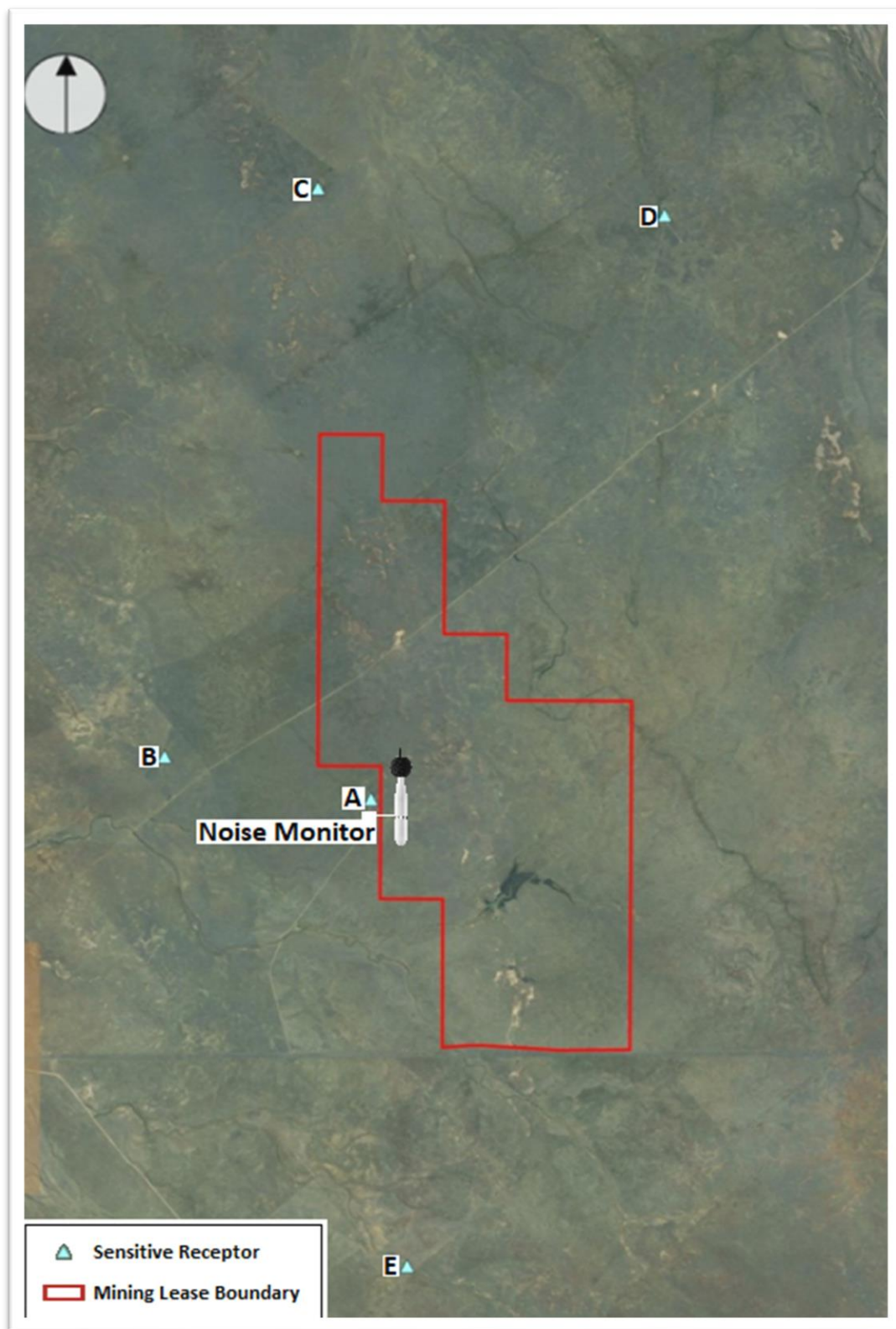


Figure 4 - Location of Sensitive Receptors and Noise Monitor

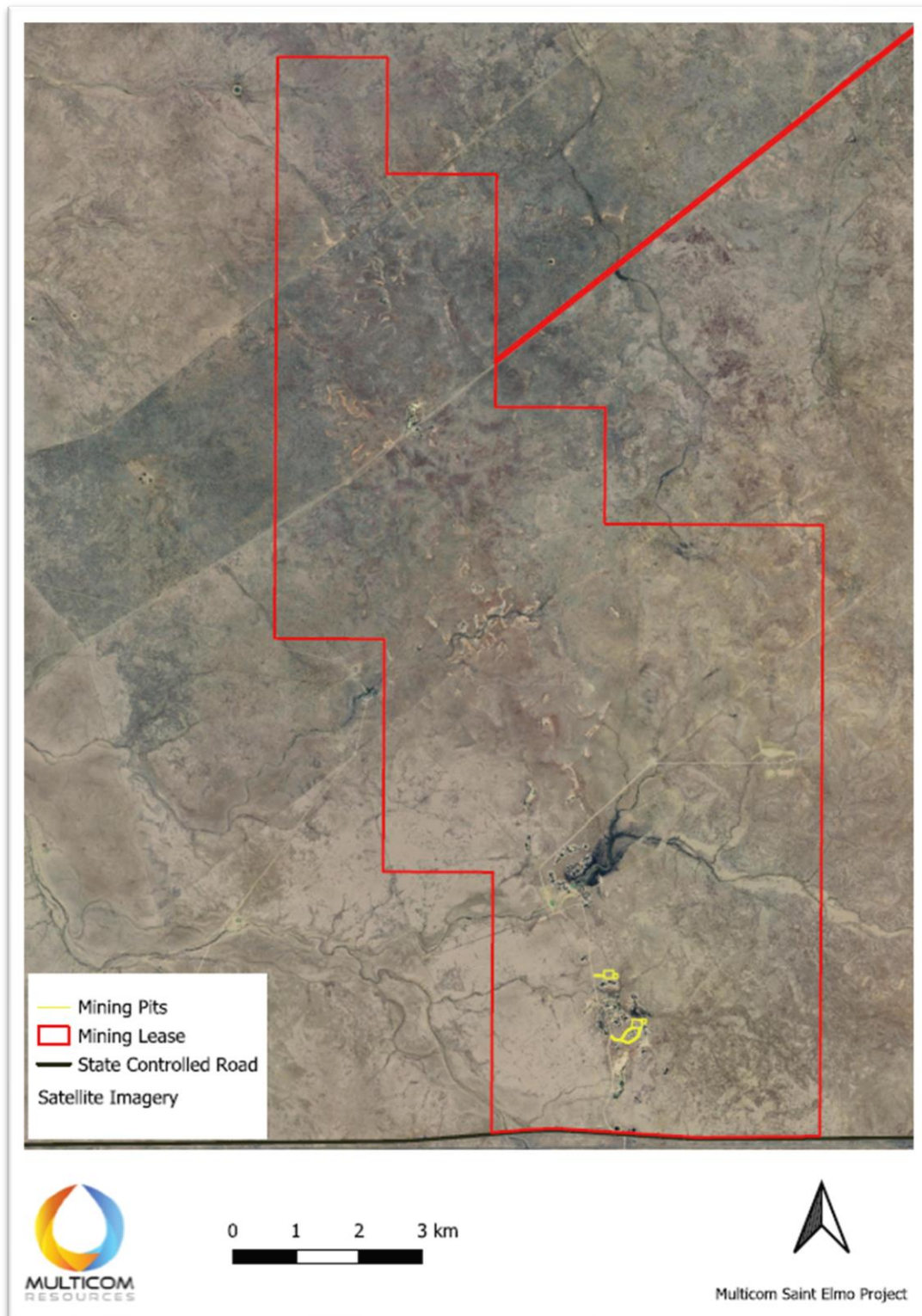


Figure 5 - Location of Mine Pits

7 NOISE CRITERIA

Condition D of the EA specifies the maximum noise limits, which is outline in **Table 2** that should not be exceeded at the nearest sensitive place or commercial place.

Further information regarding the management and mitigation measures to be implemented as part of the Saint Elmo Project are outlined in the Noise Management Plan. These measures are in place to ensure impacts to environmental noise levels due to mining activities comply with the conditions detailed in Schedule D of the EA.

Table 2 - Relevant Noise Criteria at the Sensitive Place or Commercial Place

Period	Noise Limits $L_{Aeq, adj, 1 \text{ hour}}$ dBA Outdoor
Day (7:00am – 6:00pm)	45
Evening (6:00pm – 10:00pm)	40
Night (10:00pm – 7:00am)	35

7 EXCEEDANCE MONITORING

Noise monitoring event recording software enables remote monitoring of noise exceedances and determines causation. This software allows for the gathering of audio recordings of all noise events. All exceedance definitions are categorized in **Table 3**.

Table 3 - Noise Category Definitions

Noise Category	Description
Wildlife	Native Wildlife (particularly: Insects, frogs, and birds), livestock and pest animals
Weather	Rain, storms, wind, hail, etc.
Speech	Human speech, music, communications, etc.
Non-Mining Ground	All Non-Mining Ground Vehicles and Equipment such as, trains, homestead machinery, cold-rooms, generators, pumps, power tools, farm vehicles cars, trucks, motorbikes, mowers, emergency services, farm labour etc.
Non-Mining Air	All Non-Mining Air Vehicles and Equipment such as, drones, aeroplanes, helicopters, fireworks, etc.
Construction/Mining Activities	Activities authorized under a mining tenement, including excavation or deposition of earth or materials, surface disturbance, construction, shaft sinking, mining equipment, machinery, power tools, operations, etc.
Other	Other noises unrelated to mining that are not specified above or cannot be determined with accuracy.

Due to the high frequency of noise exceedance events, monitoring is conducted for seven seconds every hour only when a trigger value (noise limit) is exceeded on four consecutive measurements. This approach allows understanding of the underlying causes without overloading the data management process[NH1][KE2].

The following data has been presented for the period of 1 January 2025 to 31 December 2025, which details the exceedances percentages by category (**Figure 6**) and for the period (**Figure 7**).

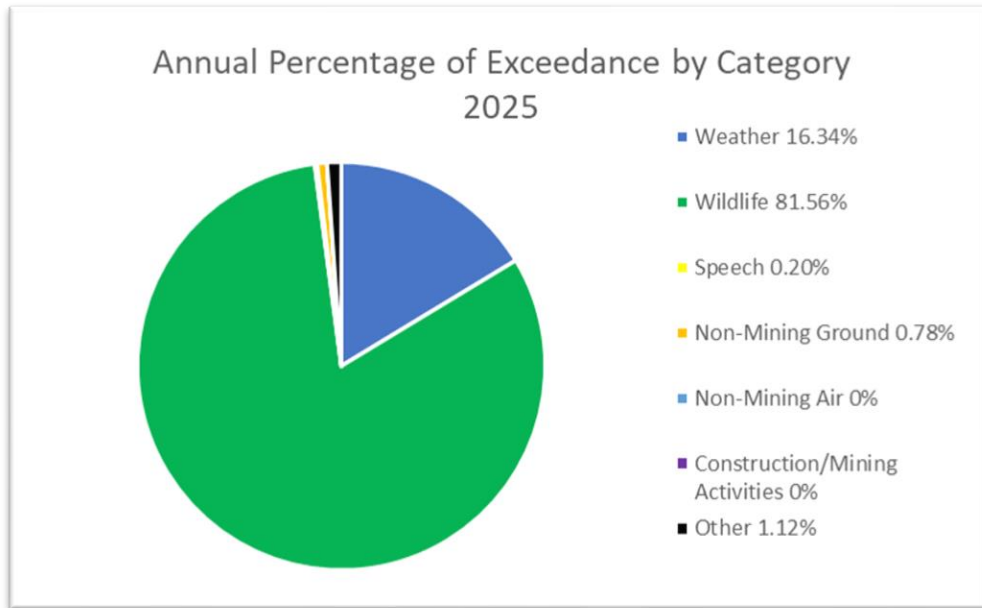


Figure 6 - Percentage of Exceedances by Noise Category

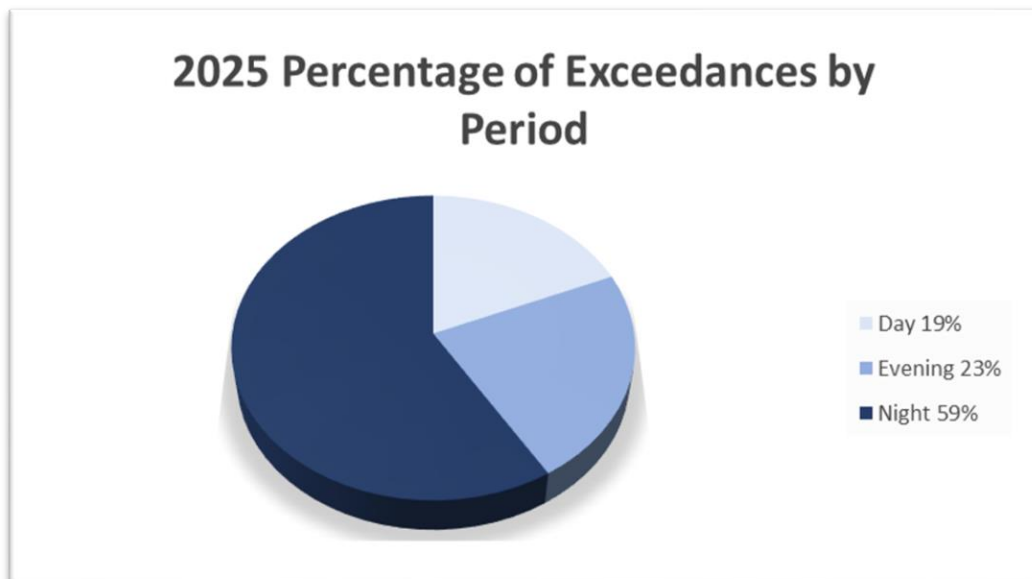


Figure 7 - Percentage of Exceedances by Period

8 METEOROLOGICAL DATA AND NOISE MONITORING RESULTS

8.1 JANUARY 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 8** as well as wind speed and direction in **Figure 9**. Continuous noise logging in 1-hour intervals occurred over the monitoring period. The monitoring data output for 1 January 2025 through 31 January 2025 is presented in **Figure 10**. No mining or construction occurred during this period, and the homestead remained unoccupied. The percentage of hourly noise limit exceedances is shown in **Table 4**.

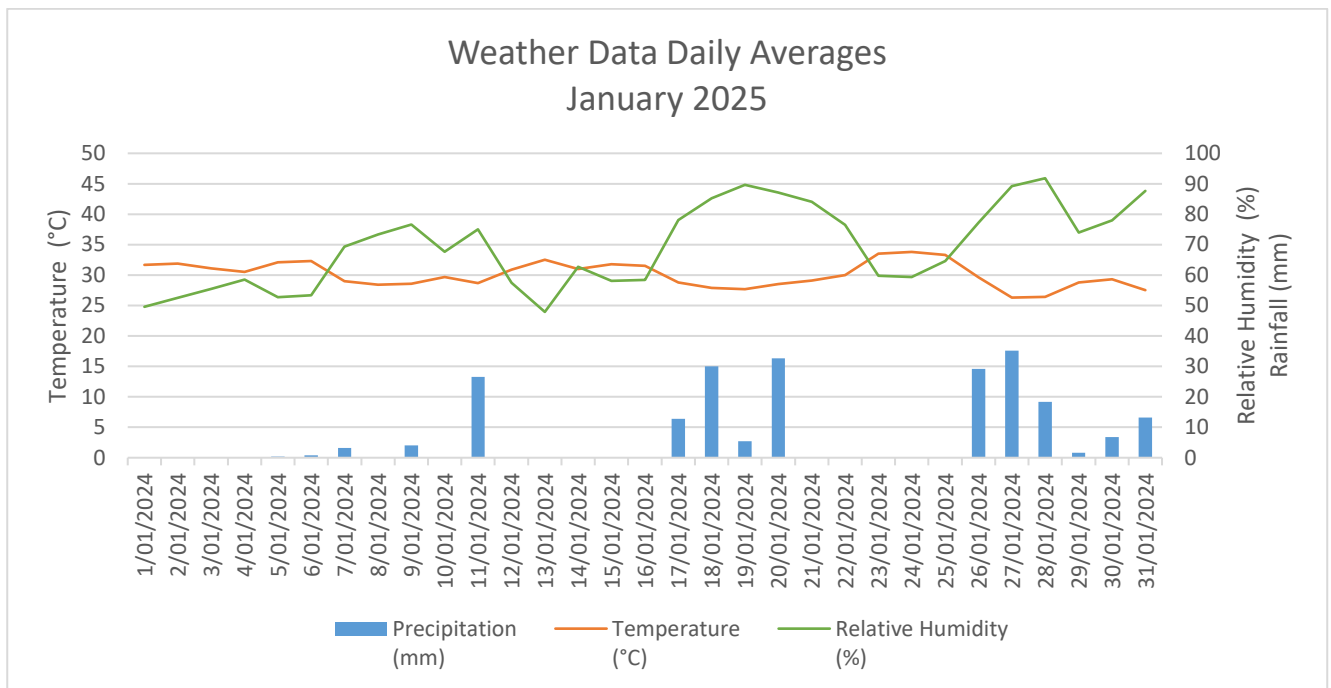


Figure 8 - January 2025 Weather Station Data

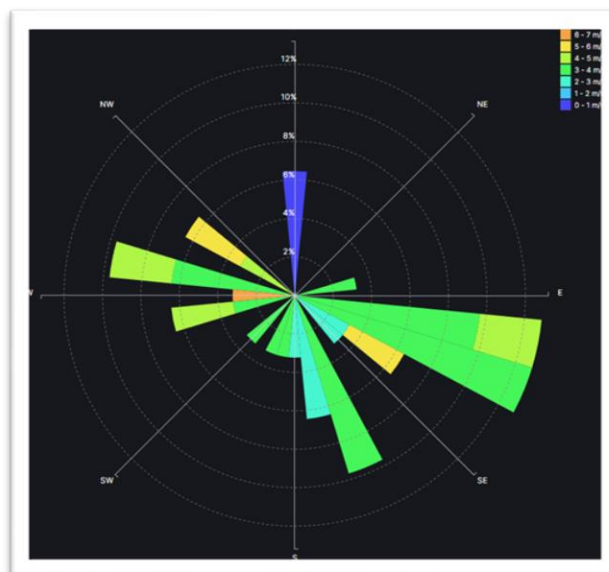


Figure 9 - January 2025 Wind Speed and Direction

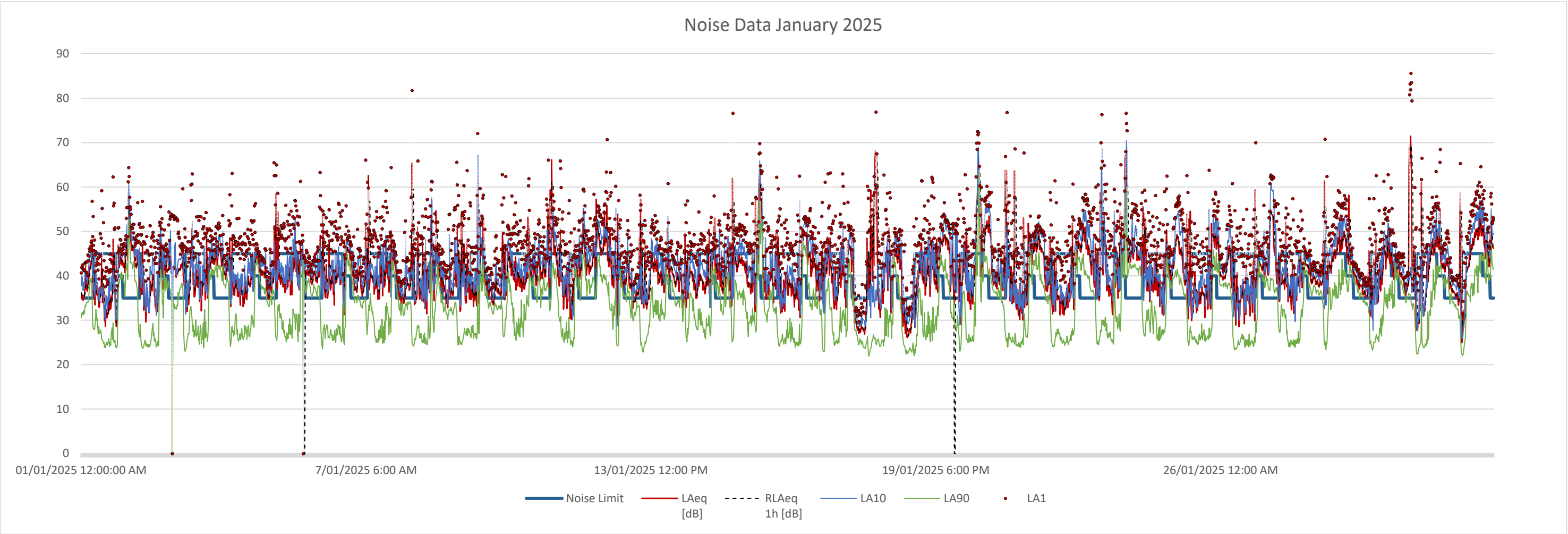


Figure 10 - January 2025 Noise Data

Table 4 - January 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/01/2025	0%	63%	100%
2/01/2025	2%	100%	100%
3/01/2025	11%	88%	100%
4/01/2025	0%	75%	100%
5/01/2025	23%	94%	100%
6/01/2025	9%	81%	100%
7/01/2025	14%	69%	100%
8/01/2025	25%	69%	94%
9/01/2025	20%	88%	86%
10/01/2025	0%	88%	89%
11/01/2025	43%	63%	100%
12/01/2025	75%	69%	100%
13/01/2025	5%	56%	83%
14/01/2025	0%	88%	100%
15/01/2025	11%	81%	100%
16/01/2025	2%	88%	100%
17/01/2025	20%	75%	97%
18/01/2025	41%	75%	36%
19/01/2025	14%	88%	36%
20/01/2025	27%	100%	100%
21/01/2025	30%	81%	100%
22/01/2025	0%	94%	100%
23/01/2025	39%	88%	100%
24/01/2025	23%	75%	100%
25/01/2025	20%	88%	100%
26/01/2025	0%	88%	100%
27/01/2025	9%	94%	100%
28/01/2025	59%	100%	100%
29/01/2025	20%	100%	100%
30/01/2025	39%	100%	100%
31/01/2025	59%	100%	94%
Totals *	20.67%	84%	94%
*includes data gaps			

8.1.1 JANUARY MONITORING RESULTS SUMMARY

- Weather during the monitoring period consisted of frequent heavy rainfall and frequent periods of high humidity particularly in the second half of the month.
 - Total rainfall for the month of January was 220.6mm.
- Average wind speeds were above 3m/s (approximately 11km/h). Winds were mostly Easterly to Westerly
- Temperature: Highest Daily Average (HAD) 33.8°C, Lowest Daily Average (LDA) 26.3°C, Monthly Average (MA) 30.1°C.
- Humidity: HDA 91.8%, LDA 47.9%, MA 69.4%.
- Noise exceedances most often occurred during the evening and nighttime periods.
 - Daily Exceedance 21%
 - Evening Exceedance 84%
 - Night Exceedance 94%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.2 FEBRUARY 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 11** as well as wind speed and direction in **Figure 12**. Continuous noise logging in 15-minute intervals occurred over the monitoring period. The monitoring data output for 1 February 2025 through 28 February 2025 is presented in **Figure 13**. No mining or construction occurred during this period, and the homestead remained unoccupied. The percentage of hourly noise limit exceedances is shown in **Table 5**.

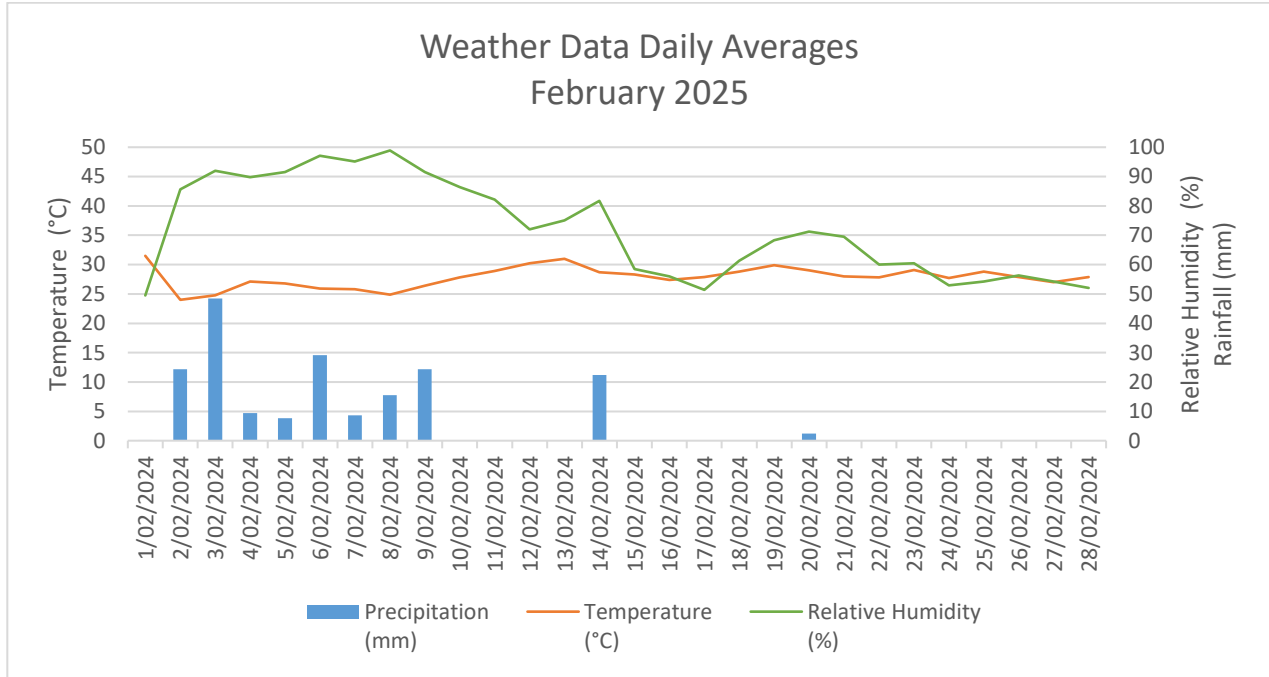


Figure 11 - February 2025 Weather Station Data

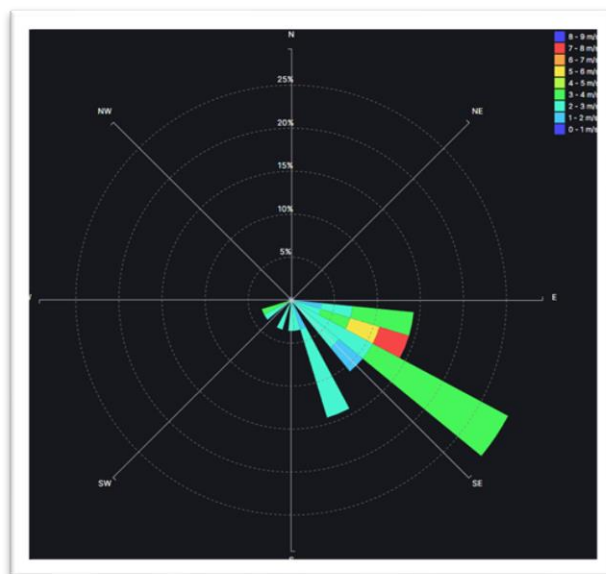


Figure 12 - February 2025 Wind Speed and Direction

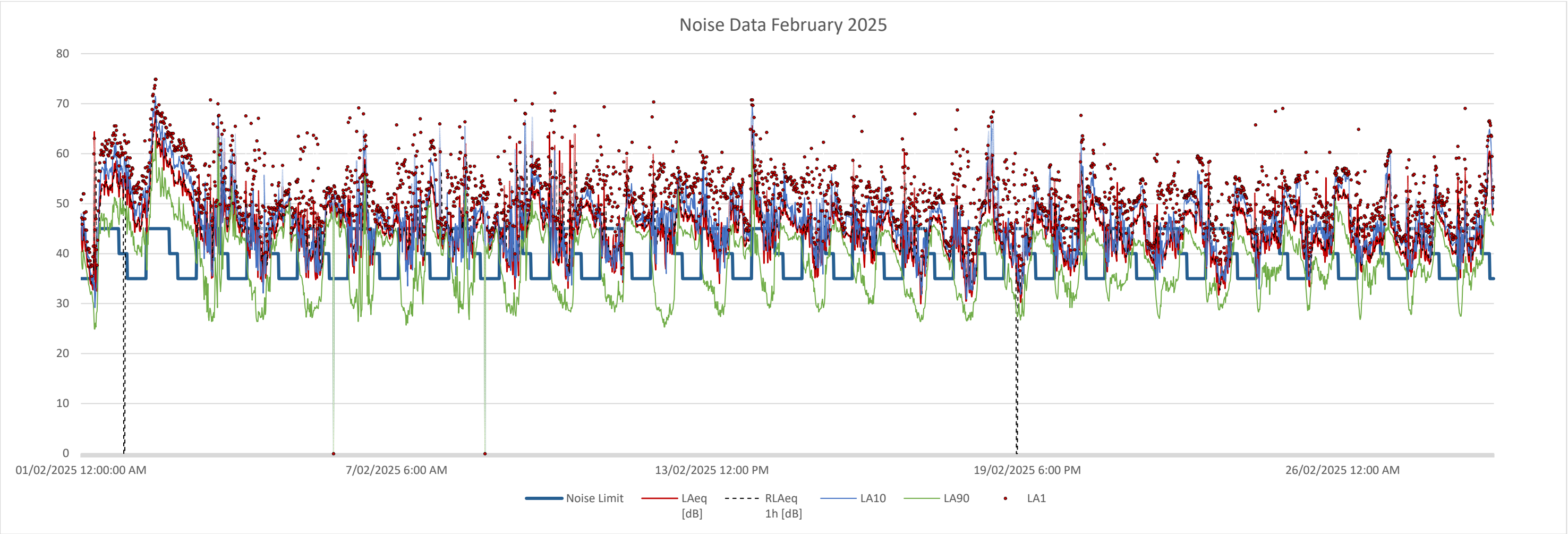


Figure 13 - February 2025 Noise Data

Table 5 - February 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/02/2025	89%	100%	86%
2/02/2025	100%	100%	100%
3/02/2025	66%	100%	100%
4/02/2025	50%	100%	100%
5/02/2025	32%	69%	100%
6/02/2025	66%	94%	100%
7/02/2025	39%	88%	100%
8/02/2025	36%	100%	100%
9/02/2025	48%	100%	100%
10/02/2025	57%	100%	100%
11/02/2025	23%	100%	100%
12/02/2025	39%	100%	100%
13/02/2025	30%	100%	100%
14/02/2025	59%	100%	100%
15/02/2025	41%	100%	100%
16/02/2025	20%	100%	100%
17/02/2025	23%	88%	100%
18/02/2025	16%	94%	100%
19/02/2025	11%	100%	100%
20/02/2025	14%	94%	100%
21/02/2025	14%	100%	100%
22/02/2025	11%	100%	100%
23/02/2025	9%	75%	100%
24/02/2025	20%	100%	100%
25/02/2025	16%	100%	100%
26/02/2025	9%	100%	100%
27/02/2025	9%	88%	100%
28/02/2025	20%	100%	100%
Totals *	33.31%	93%	96%

*includes data gaps

8.2.1 FEBRUARY MONITORING RESULTS SUMMARY

- Weather during the monitoring period consisted of several periods of rainfall and high humidity particularly in the early part of the month.
 - Total rainfall for the month of February was 192.5mm.
- Average wind speeds were above 3m/s (approximately 11km/h). Winds were mostly South Easterly.
- Temperature: HDA 31.5°C, LDA 24.0°C, MA 27.8°C.
- Humidity: HDA 98.9%, LDA 49.5%, MA 72.0%
- Noise exceedances most often occurred during the evening and nighttime periods.
 - Daily Exceedance 33%
 - Evening Exceedance 93%
 - Night Exceedance 96%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.3 MARCH 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 14** as well as wind speed and direction in **Figure 15**. Continuous noise logging in 15-minute intervals occurred over the monitoring period. The monitoring data output for 1 March 2025 through 31 March 2025 is presented in **Figure 16**. No mining or construction occurred during this period, and the homestead remained unoccupied. The percentage of hourly noise limit exceedances is shown in **Table 6**.

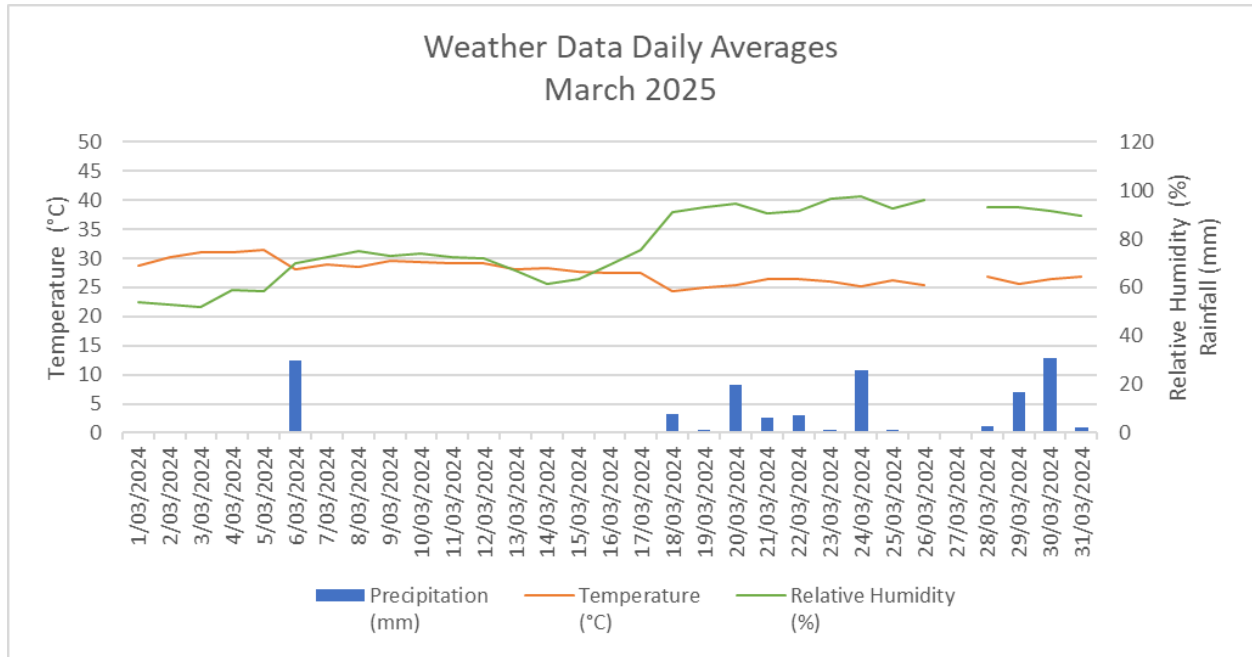


Figure 14 - March 2025 Weather Station Data

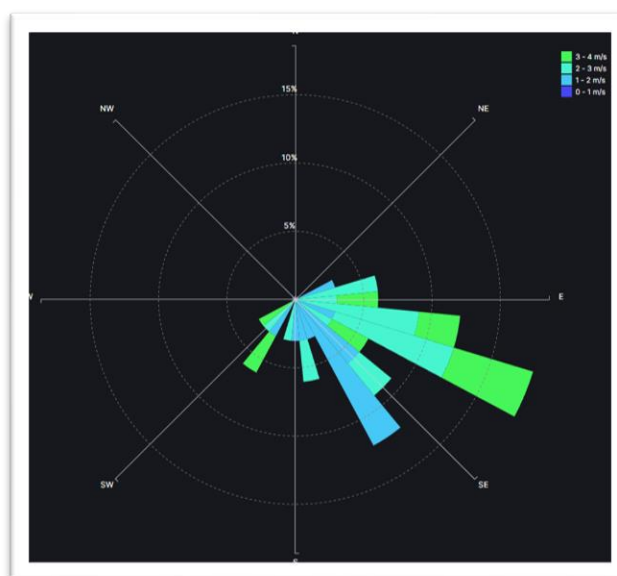


Figure 15 - March 2025 Wind Speed and Direction

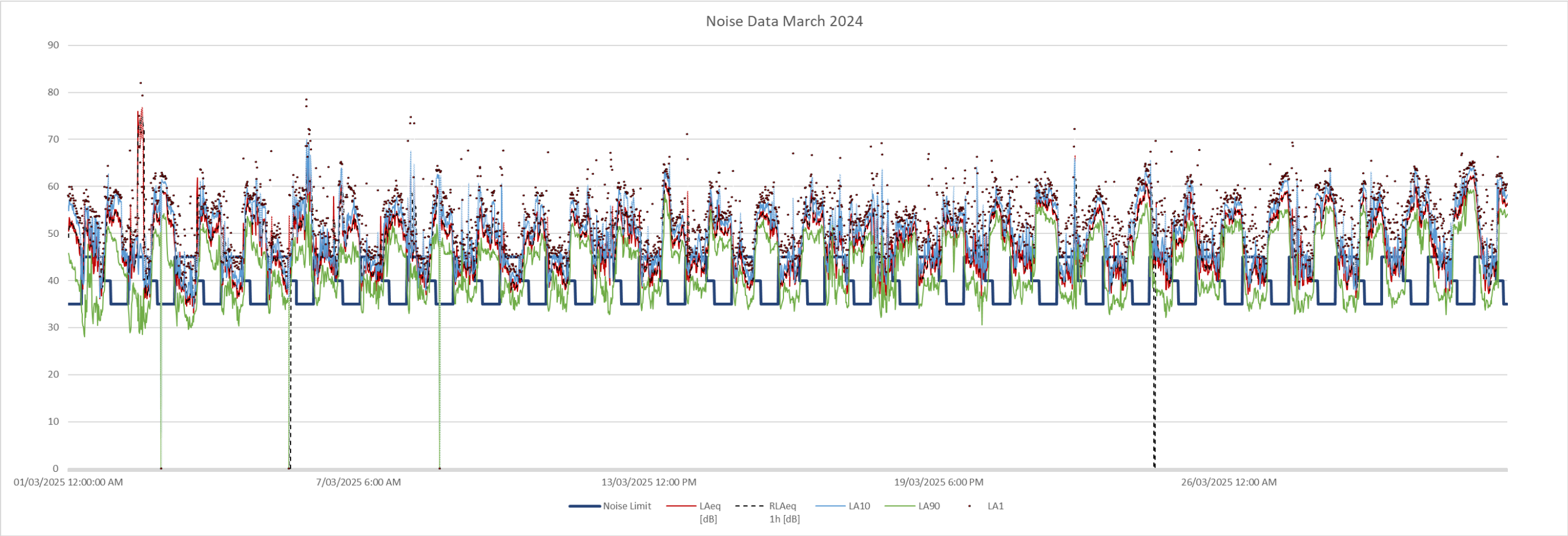


Figure 16 - March 2025 Noise Data

Table 6 - March 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/03/2025	68%	100%	100%
2/03/2025	50%	81%	100%
3/03/2025	7%	88%	100%
4/03/2025	18%	100%	100%
5/03/2025	20%	94%	100%
6/03/2025	70%	100%	100%
7/03/2025	18%	100%	100%
8/03/2025	45%	100%	100%
9/03/2025	34%	100%	100%
10/03/2025	25%	100%	100%
11/03/2025	16%	94%	100%
12/03/2025	80%	100%	100%
13/03/2025	14%	100%	100%
14/03/2025	25%	100%	100%
15/03/2025	30%	100%	100%
16/03/2025	20%	100%	100%
17/03/2025	77%	94%	100%
18/03/2025	66%	100%	100%
19/03/2025	25%	100%	100%
20/03/2025	66%	100%	100%
21/03/2025	64%	100%	100%
22/03/2025	34%	100%	100%
23/03/2025	25%	69%	100%
24/03/2025	57%	100%	100%
25/03/2025	36%	100%	100%
26/03/2025	18%	81%	100%
27/03/2025	55%	100%	100%
28/03/2025	30%	81%	100%
29/03/2025	41%	100%	100%
30/03/2025	52%	100%	100%
31/03/2025	52%	100%	100%
Totals *	39.96%	96%	100%

*includes data gaps

8.3.1 MARCH MONITORING RESULTS SUMMARY

- Weather during the monitoring period consisted of several periods of rainfall and frequent high humidity.
 - Total rainfall for the month of March was 153.4mm.
- Average wind speeds were above 2m/s (approximately 7km/h). Winds were mostly South to South Easterly.
- Temperature: HDA 31.5°C, LDA 24.4°C, MA 27.7°C.
- Humidity: HDA 97.8%, LDA 52.0%, MA 77.8%
- Weather data loss occurred on March 27 due to a power failure connection.
- Noise exceedances most often occurred during the evening and nighttime periods.
 - Daily Exceedance 40%
 - Evening Exceedance 96%
 - Night Exceedance 100%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.4 APRIL 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 17** as well as wind speed and direction in **Figure 18**. Continuous noise logging in 15-minute intervals occurred over the monitoring period. The monitoring data output for 1 April 2025 through 30 April 2025 is presented in **Figure 19**. No mining or construction occurred during this period, and the homestead remained unoccupied. The percentage of hourly noise limit exceedances is shown in **Table 7**.

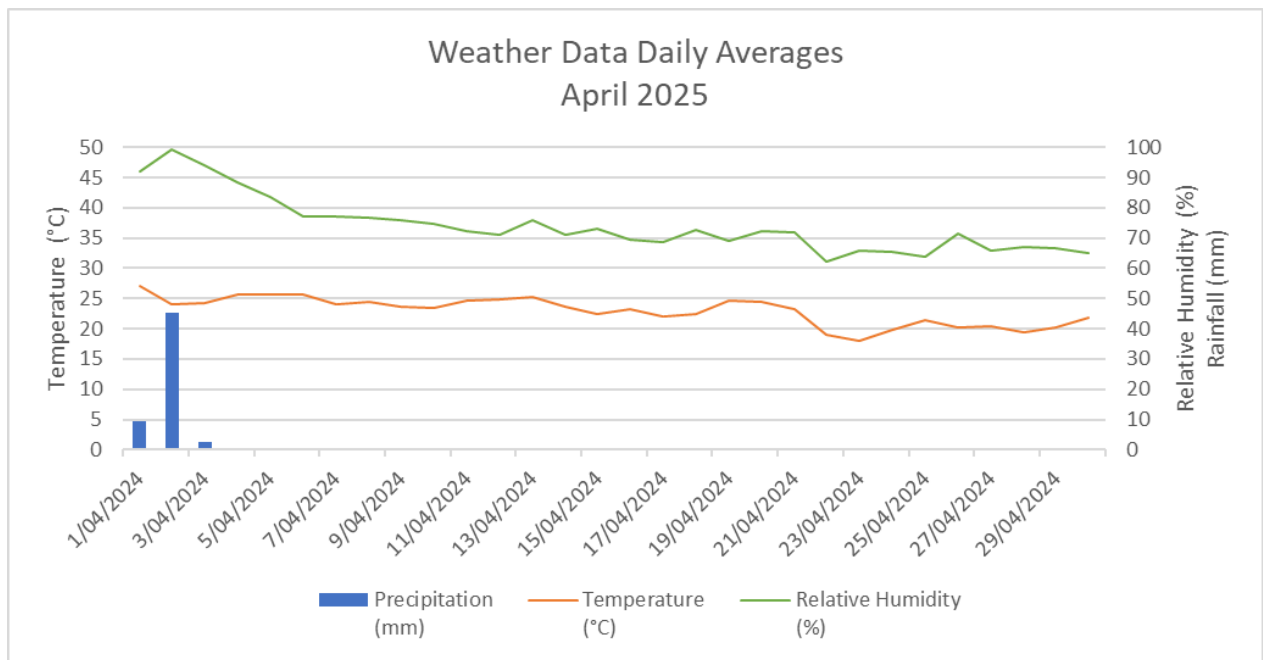


Figure 17 - April 2025 Weather Station Data

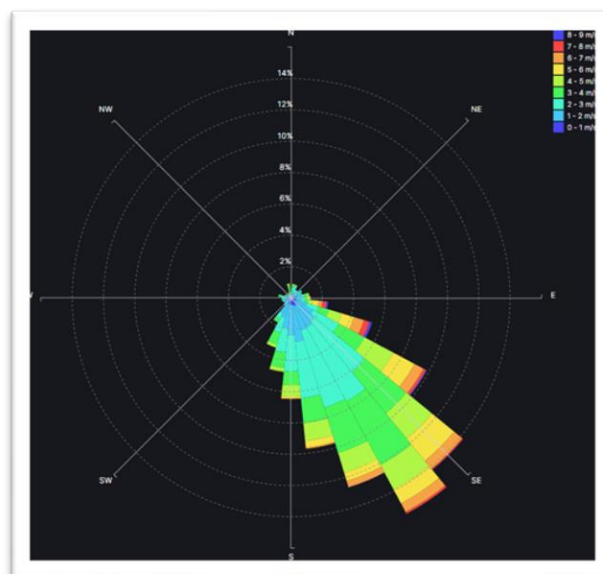


Figure 18 - April 2025 Wind Speed and Direction

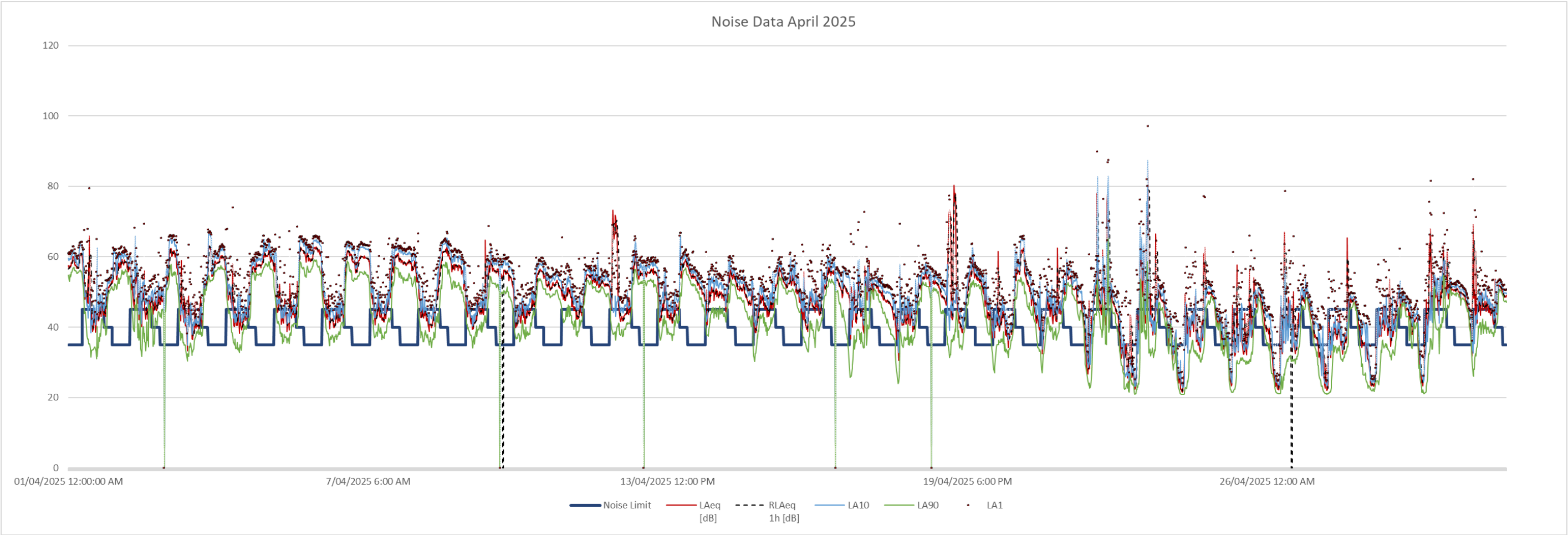


Figure 19 - April 2025 Noise Data

Table 7 - April 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/04/2025	64%	100%	100%
2/04/2025	89%	100%	100%
3/04/2025	39%	100%	100%
4/04/2025	39%	100%	100%
5/04/2025	55%	100%	100%
6/04/2025	34%	100%	100%
7/04/2025	52%	100%	100%
8/04/2025	36%	100%	100%
9/04/2025	52%	100%	100%
10/04/2025	34%	100%	100%
11/04/2025	77%	100%	100%
12/04/2025	64%	100%	100%
13/04/2025	61%	100%	100%
14/04/2025	98%	100%	100%
15/04/2025	70%	100%	100%
16/04/2025	75%	100%	100%
17/04/2025	75%	100%	100%
18/04/2025	30%	100%	100%
19/04/2025	64%	100%	100%
20/04/2025	14%	100%	100%
21/04/2025	55%	100%	100%
22/04/2025	80%	100%	81%
23/04/2025	73%	100%	39%
24/04/2025	25%	100%	47%
25/04/2025	25%	100%	72%
26/04/2025	39%	100%	50%
27/04/2025	14%	100%	47%
28/04/2025	16%	100%	36%
29/04/2025	82%	100%	69%
30/04/2025	77%	100%	100%
Totals *	51.76%	97%	85%

*includes data gaps

8.4.1 APRIL MONITORING RESULTS SUMMARY

- Weather during the monitoring period was generally fine and dry with the following exceptions:
 - Rainfall events occurred between 1 and 3 April totaling 57.4mm.
- Average wind speeds were above 2m/s (approximately 7km/h) and were mostly South Easterly.
- Temperature: HDA 27.0°C, LDA 18.1°C, MA 23.0°C.
- Humidity: HAD 99.1%, LDA 62.2%, MA 74.0%
- Noise exceedances most often occurred during the evening and nighttime periods.
 - Daily Exceedance 52%
 - Evening Exceedance 97%
 - Night Exceedance 85%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.5 MAY 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 20** as well as wind speed and direction in **Figure 21**. Continuous noise logging occurred in 15-minute intervals over the monitoring period. The monitoring data output for 1 May 2025 through 31 May 2025 is presented in **Figure 22**. No mining or construction occurred during this period, and the homestead remained unoccupied. The percentage of hourly noise limit exceedances is shown in **Table 8**.

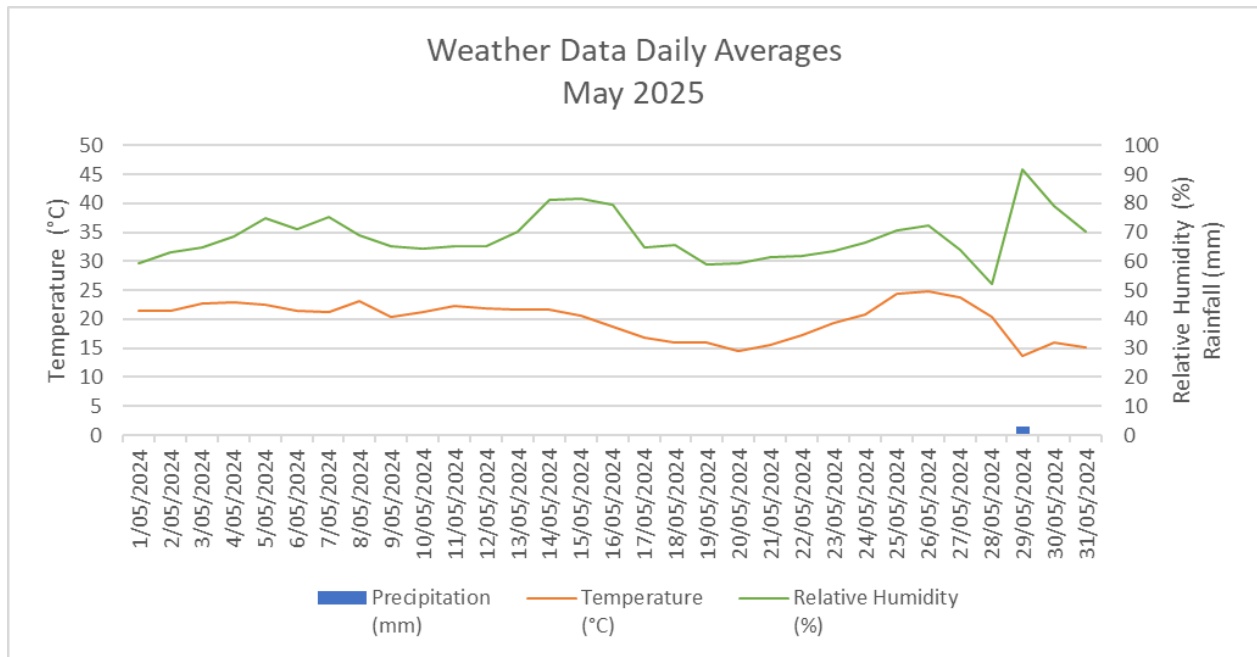


Figure 20 - May 2025 Weather Station Data

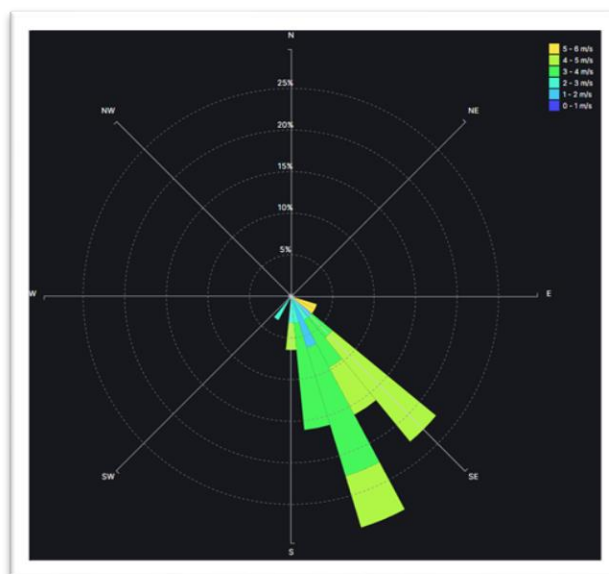


Figure 21 - May 2025 Wind Speed and Direction

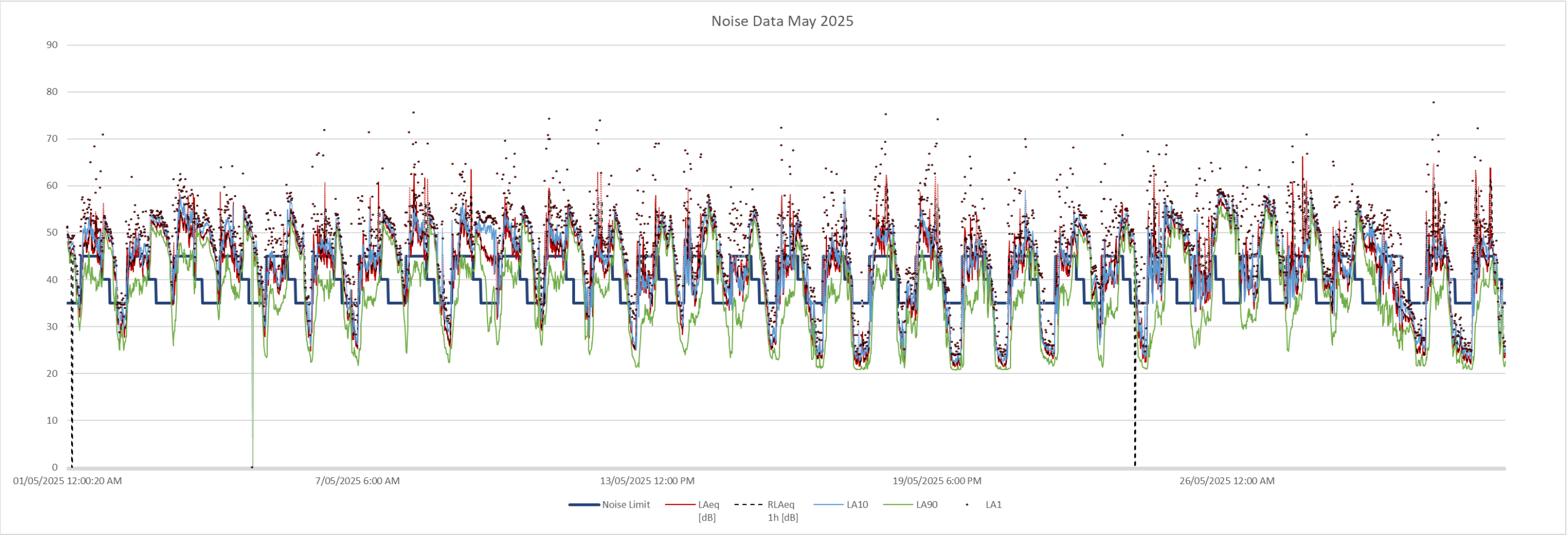


Figure 22 - May 2025 Noise Data

Table 8 - May 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/05/2025	82%	100%	94%
2/05/2025	36%	100%	53%
3/05/2025	84%	100%	100%
4/05/2025	73%	100%	100%
5/05/2025	11%	100%	86%
6/05/2025	66%	100%	69%
7/05/2025	30%	100%	44%
8/05/2025	80%	100%	100%
9/05/2025	70%	100%	56%
10/05/2025	80%	100%	100%
11/05/2025	93%	100%	81%
12/05/2025	61%	100%	78%
13/05/2025	30%	100%	61%
14/05/2025	52%	100%	75%
15/05/2025	11%	100%	100%
16/05/2025	55%	88%	47%
17/05/2025	45%	94%	0%
18/05/2025	75%	88%	0%
19/05/2025	86%	81%	25%
20/05/2025	59%	75%	17%
21/05/2025	45%	100%	17%
22/05/2025	43%	100%	22%
23/05/2025	30%	100%	81%
24/05/2025	68%	100%	44%
25/05/2025	48%	100%	100%
26/05/2025	27%	100%	100%
27/05/2025	48%	100%	97%
28/05/2025	36%	100%	94%
29/05/2025	9%	0%	78%
30/05/2025	61%	25%	3%
31/05/2025	66%	44%	3%
Totals *	50.95%	87%	59%

*includes data gaps

8.5.1 MAY MONITORING RESULTS SUMMARY

- Weather during the monitoring period was generally fine and dry with the following exceptions:
 - Rainfall events occurred between 29 and 30 May totaling 3mm.
- Average wind speeds were above 3m/s (approximately 11km/h) and were mostly South Easterly.
- Temperature: HDA 24.9°C, LDA 13.6°C, MA 20.0°C.
- Humidity: HAD 91.5%, LDA 13.6%, MA 20.0%
- Noise exceedances most often occurred during the evening periods.
 - Daily Exceedance 51%
 - Evening Exceedance 87%
 - Night Exceedance 59%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.6 JUNE 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 23** as well as wind speed and direction in **Figure 24**. Continuous noise logging in 15-minute intervals occurred over the monitoring period. The monitoring data output for 1 June 2025 through 30 June 2025 is presented in **Figure 25**. No mining or construction occurred during this period, and the homestead remained unoccupied. The percentage of hourly noise limit exceedances is shown in **Table 9**.

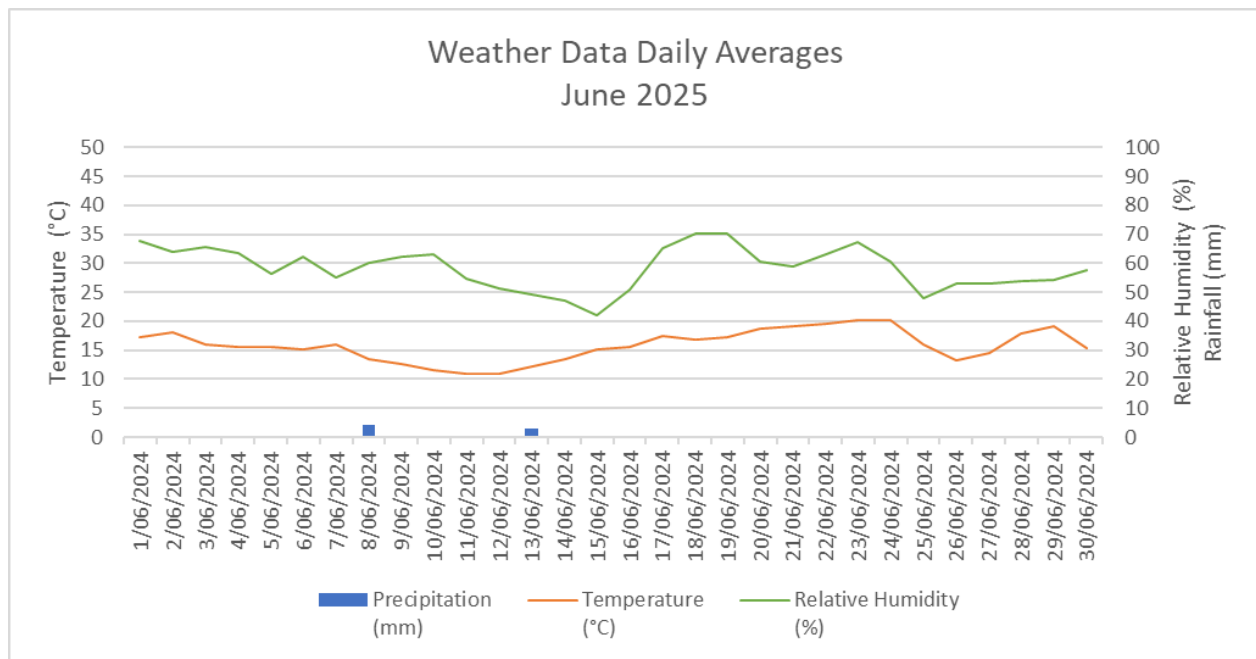


Figure 23 - June 2025 Weather Station Data

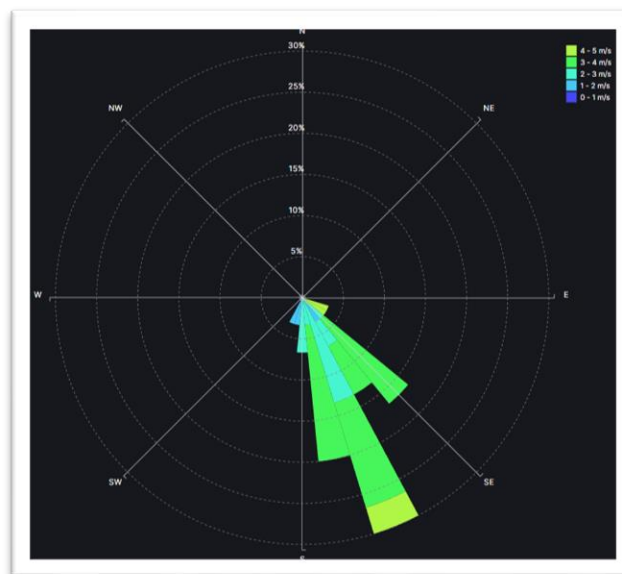


Figure 24 - June 2025 Wind Speed and Direction

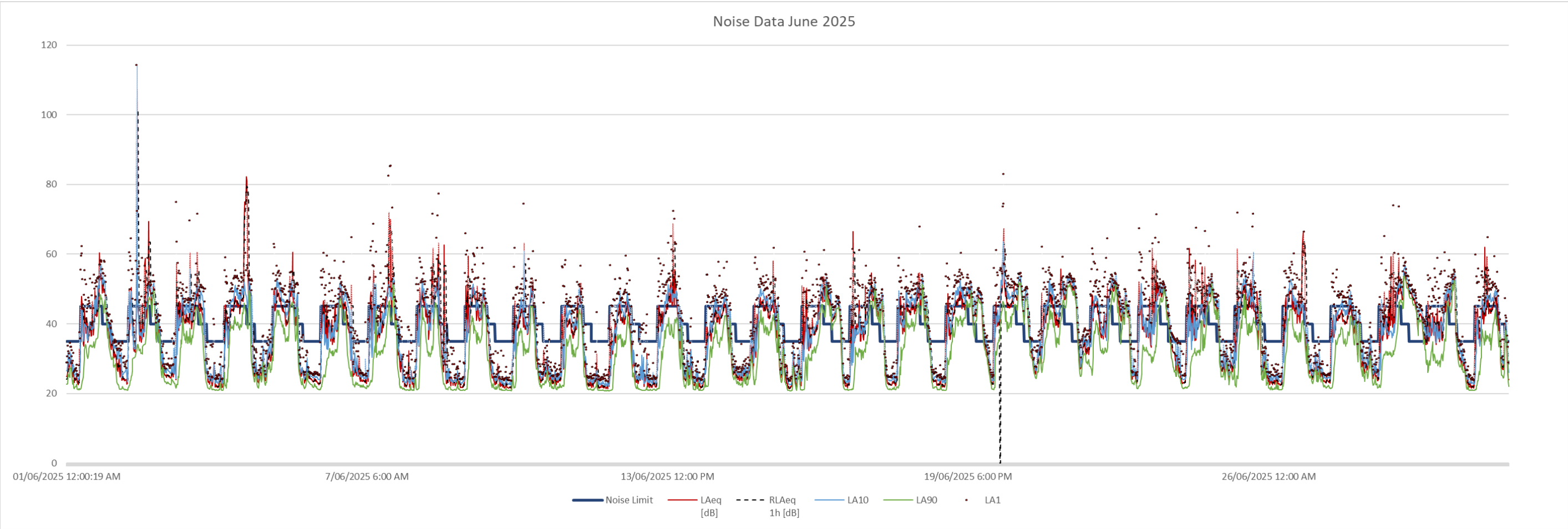










































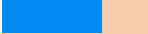
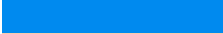

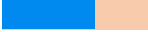
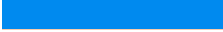
















































Figure 25 - June 2025 Noise Data

Table 9 - June 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/06/2025	 32%	 75%	 3%
2/06/2025	 50%	 88%	 14%
3/06/2025	 15%	 13%	 1%
4/06/2025	 52%	 75%	 0%
5/06/2025	 59%	 56%	 0%
6/06/2025	 18%	 75%	 11%
7/06/2025	 50%	 81%	 0%
8/06/2025	 61%	 56%	 0%
9/06/2025	 75%	 13%	 0%
10/06/2025	 30%	 6%	 0%
11/06/2025	 20%	 0%	 0%
12/06/2025	 9%	 0%	 0%
13/06/2025	 48%	 0%	 0%
14/06/2025	 9%	 38%	 0%
15/06/2025	 45%	 50%	 0%
16/06/2025	 34%	 100%	 22%
17/06/2025	 32%	 100%	 58%
18/06/2025	 25%	 100%	 19%
19/06/2025	 57%	 100%	 22%
20/06/2025	 68%	 100%	 53%
21/06/2025	 43%	 100%	 39%
22/06/2025	 45%	 100%	 36%
23/06/2025	 52%	 100%	 56%
24/06/2025	 48%	 100%	 19%
25/06/2025	 64%	 69%	 0%
26/06/2025	 55%	 25%	 0%
27/06/2025	 7%	 50%	 3%
28/06/2025	 45%	 100%	 22%
29/06/2025	 20%	 100%	 75%
30/06/2025	 34%	 31%	 14%
Totals *	 39%	 61%	 15%
*includes data gaps			

8.6.1 JUNE MONITORING RESULTS SUMMARY

- Weather during the monitoring period was generally fine and dry with the following exceptions:
 - Rainfall events occurred on 8 and 13 June totalling 7mm.
- Average wind speeds were above 3m/s (approximately 11km/h) and were mostly South Easterly.
- Temperature: HDA 20.1°C, LDA 11°C, MA 15.8°C.
- Humidity: HAD 70.2%, LDA 42.1%, MA 58.4%
- Noise exceedances most often occurred during the evening periods.
 - Daily Exceedance 39%
 - Evening Exceedance 61%
 - Night Exceedance 15%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.7 JULY 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 26** as well as wind speed and direction in **Figure 27**. Continuous noise logging in 15-minute intervals over the monitoring period occurred. The monitoring data output for 1 July 2025 through 31 July 2025 is presented in **Figure 28**. No mining or construction occurred during this period, and the homestead remained unoccupied. The percentage of hourly noise limit exceedances is shown in **Table 10**.

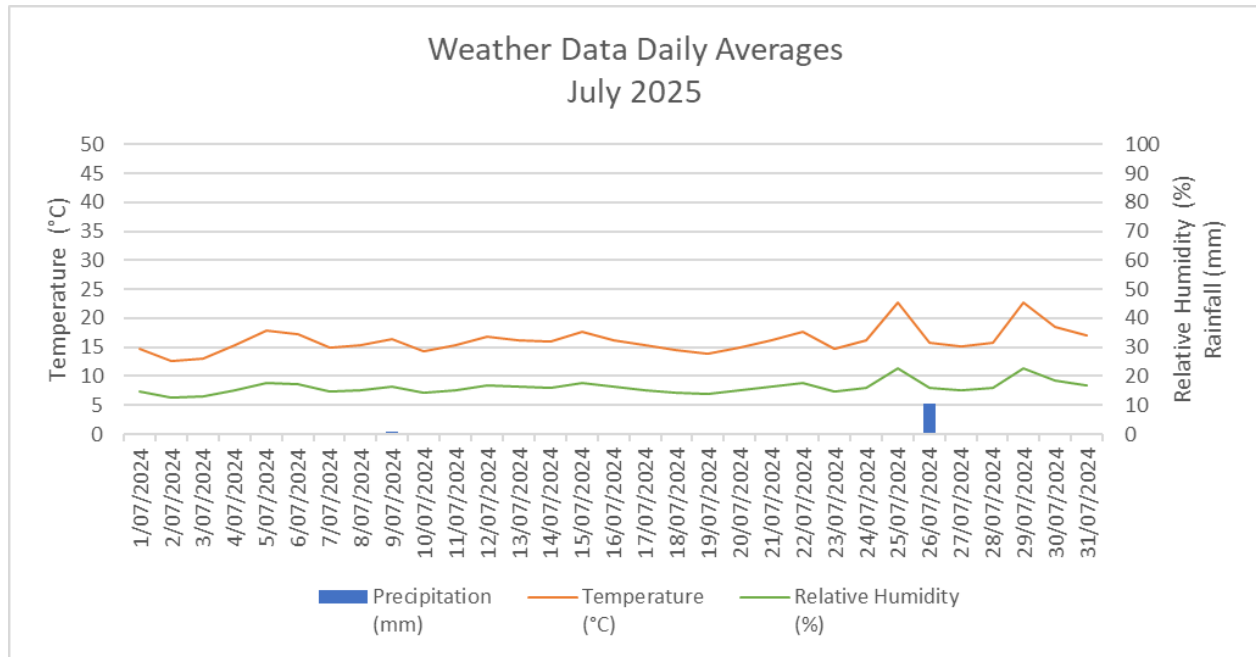


Figure 26 - July 2025 Weather Station Data

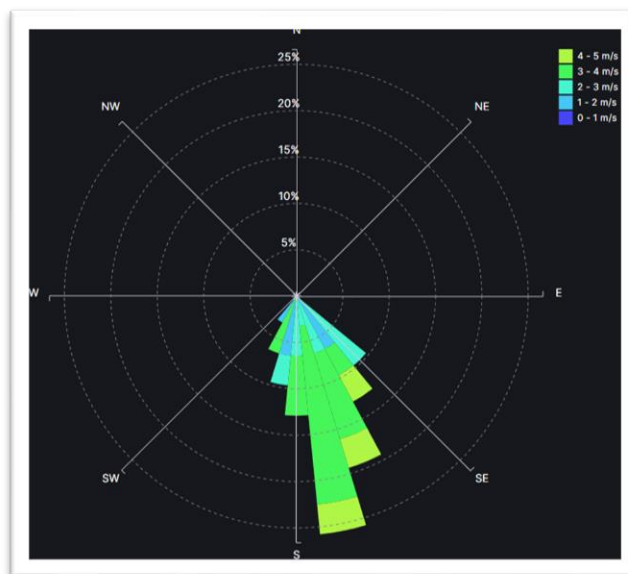


Figure 27 - July 2025 Wind Speed and Direction

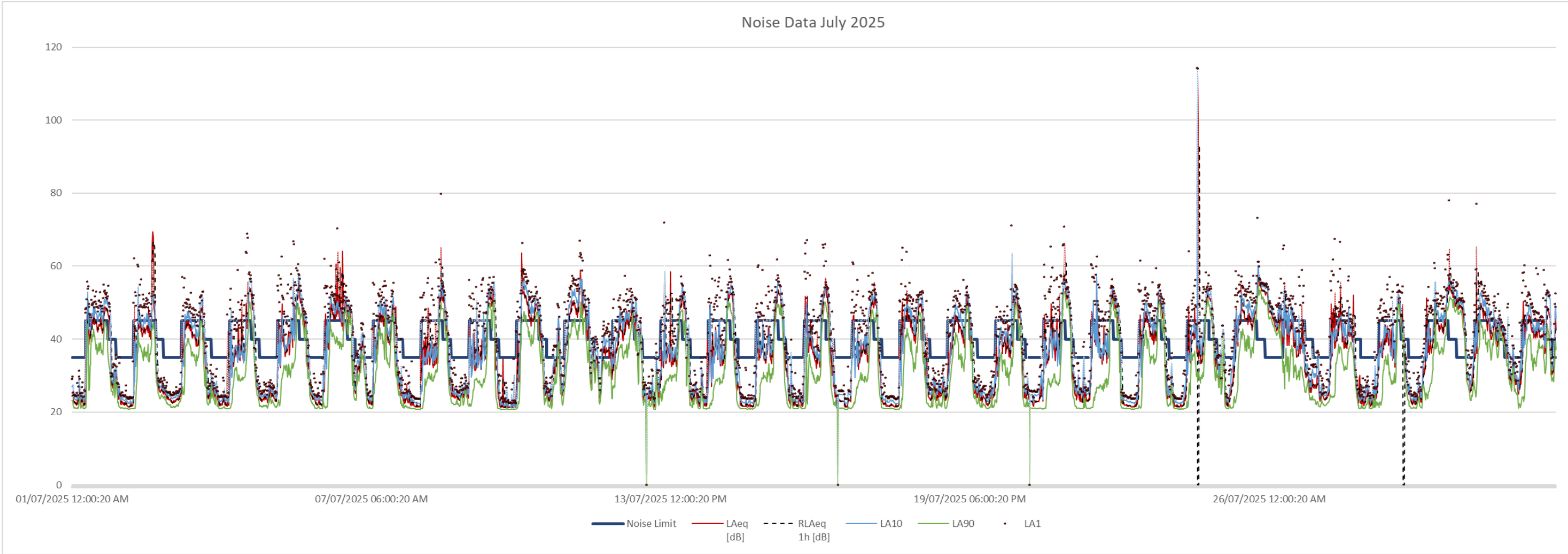


Figure 28 - July 2025 Noise Data

Table 10 - July 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/07/2025	36%	44%	0%
2/07/2025	27%	13%	0%
3/07/2025	14%	19%	0%
4/07/2025	23%	50%	11%
5/07/2025	32%	100%	6%
6/07/2025	77%	75%	3%
7/07/2025	45%	25%	22%
8/07/2025	25%	75%	0%
9/07/2025	14%	69%	0%
10/07/2025	77%	38%	0%
11/07/2025	80%	50%	22%
12/07/2025	25%	69%	50%
13/07/2025	32%	56%	0%
14/07/2025	20%	69%	0%
15/07/2025	14%	94%	0%
16/07/2025	36%	63%	0%
17/07/2025	20%	56%	0%
18/07/2025	55%	38%	0%
19/07/2025	30%	38%	0%
20/07/2025	25%	63%	0%
21/07/2025	32%	88%	0%
22/07/2025	34%	94%	0%
23/07/2025	30%	63%	0%
24/07/2025	27%	69%	0%
25/07/2025	59%	100%	36%
26/07/2025	14%	0%	78%
27/07/2025	30%	25%	0%
28/07/2025	14%	50%	0%
29/07/2025	34%	100%	22%
30/07/2025	45%	88%	58%
31/07/2025	18%	94%	17%
Totals *	32%	59%	10%

*includes data gaps

8.7.1 JULY MONITORING RESULTS SUMMARY

- Weather during the monitoring period was generally fine and dry with the following exceptions:
 - Rainfall events occurred on 26, 27, and 31 July totalling 12mm.
- Average wind speeds were above 3m/s (approximately 11km/h) and were mostly South-South Easterly.
- Temperature: HDA 22.8°C, LDA 12.6°C, MA 16.2°C.
- Humidity: HDA 22.8%, LDA 12.6%, MA 16.2%
- Noise exceedances most often occurred during the evening periods.
 - Daily Exceedance 32%
 - Evening Exceedance 59%
 - Night Exceedance 10%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.8 AUGUST 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 29** as well as wind speed and direction in **Figure 30**. Continuous noise logging in 15-minute intervals occurred over the monitoring period. The monitoring data output for 1 August 2025 through 31 August 2025 is presented in **Figure 31**. No mining or construction occurred during this period. The Saint Elmo homestead is now currently tenanted. The percentage of hourly noise limit exceedances is shown in **Table 11**.

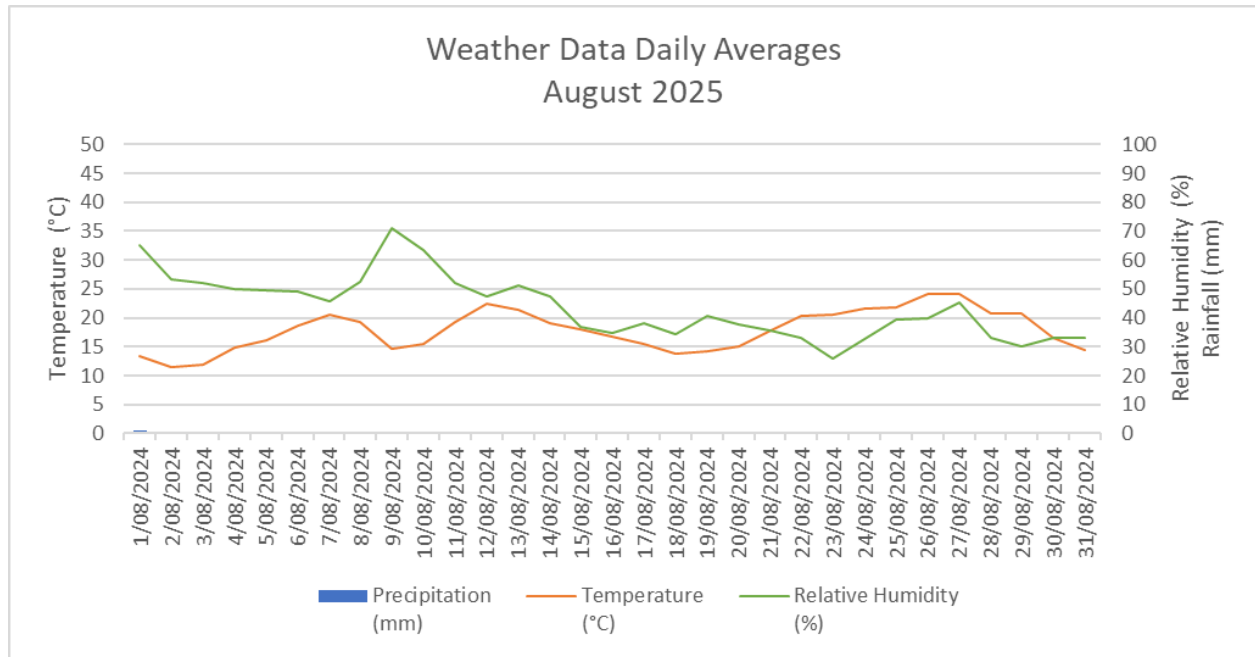


Figure 29 - August 2025 Weather Station Data

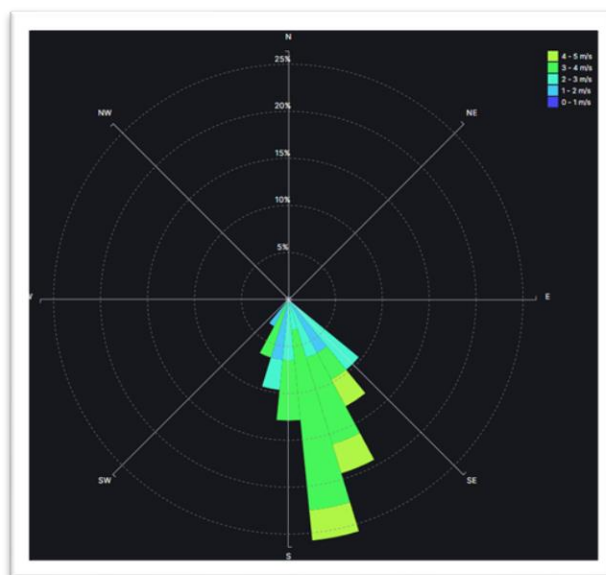


Figure 30 - August 2025 Wind Speed and Direction

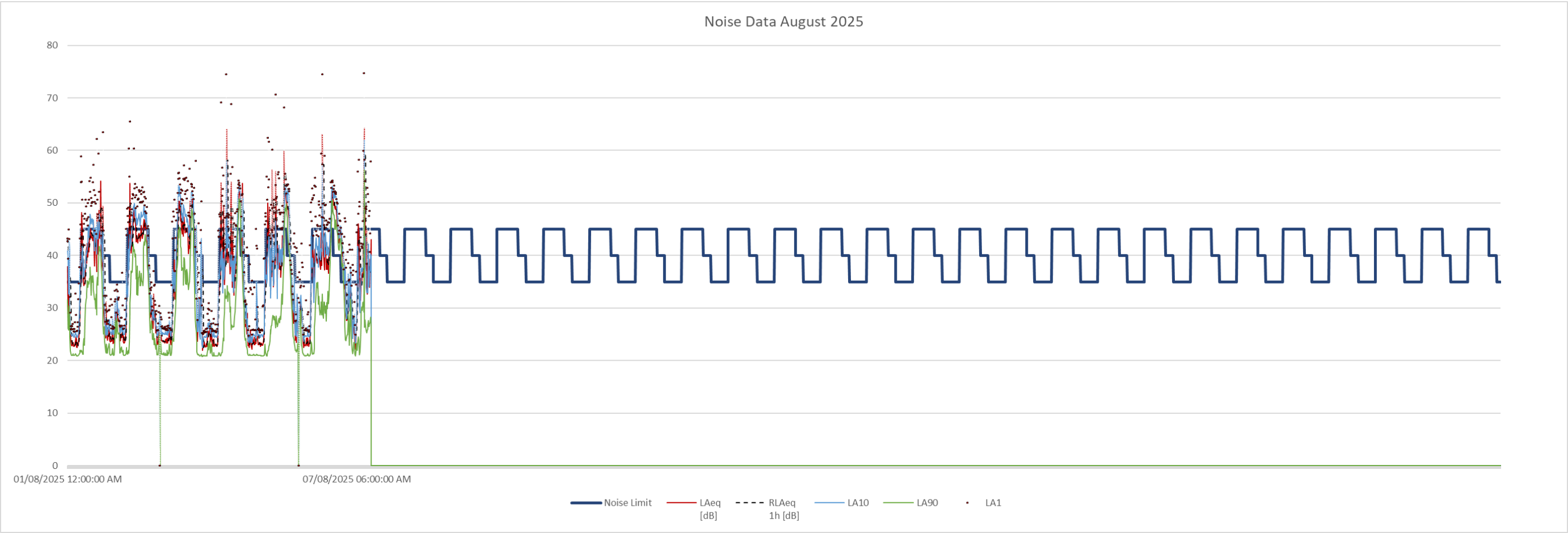






















Figure 31 - August 2025 Noise Data

Table 11 - August 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/08/2025	 14%	 31%	 19%
2/08/2025	 36%	 6%	0%
3/08/2025	 57%	 25%	 6%
4/08/2025	 41%	 44%	0%
5/08/2025	 41%	 56%	0%
6/08/2025	 18%	 100%	 28%
7/08/2025	 11%	0%	 6%
8/08/2025	0%	0%	0%
9/08/2025	0%	0%	0%
10/08/2025	0%	0%	0%
11/08/2025	0%	0%	0%
12/08/2025	0%	0%	0%
13/08/2025	0%	0%	0%
14/08/2025	0%	0%	0%
15/08/2025	0%	0%	0%
16/08/2025	0%	0%	0%
17/08/2025	0%	0%	0%
18/08/2025	0%	0%	0%
19/08/2025	0%	0%	0%
20/08/2025	0%	0%	0%
21/08/2025	0%	0%	0%
22/08/2025	0%	0%	0%
23/08/2025	0%	0%	0%
24/08/2025	0%	0%	0%
25/08/2025	0%	0%	0%
26/08/2025	0%	0%	0%
27/08/2025	0%	0%	0%
28/08/2025	0%	0%	0%
29/08/2025	0%	0%	0%
30/08/2025	0%	0%	0%
Totals *	 7%	 8%	 2%

*includes data gaps

8.8.1 AUGUST MONITORING RESULTS SUMMARY

- Weather during the monitoring period was generally fine and dry with the following exceptions:
 - Rainfall events occurred on August 1 totalling 0.8mm.
- Average wind speeds were above 3.2m/s (approximately 12km/h) and were mostly South - South Easterly.
- Temperature: HDA 24.1°C, LDA 11.5°C, MA 17.9°C.
- Humidity: HAD 70.8%, LDA 25.9%, MA 43.6%
- Noise monitor data losses occurred from the 7th of August due to mic collar connection issues resulting in the machine being sent for repair.
- Noise exceedances up to August 7 most often occurred during the daytime and evening time periods.
 - Daily Exceedance 7%
 - Evening Exceedance 8%
 - Night Exceedance 2%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.9 SEPTEMBER 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 32** as well as wind speed and direction in **Figure 33**. Continuous noise logging did not occur throughout September due to the machine being decommissioned and sent for maintenance and calibration. No mining or construction occurred during this period. The Saint Elmo homestead is currently tenanted.

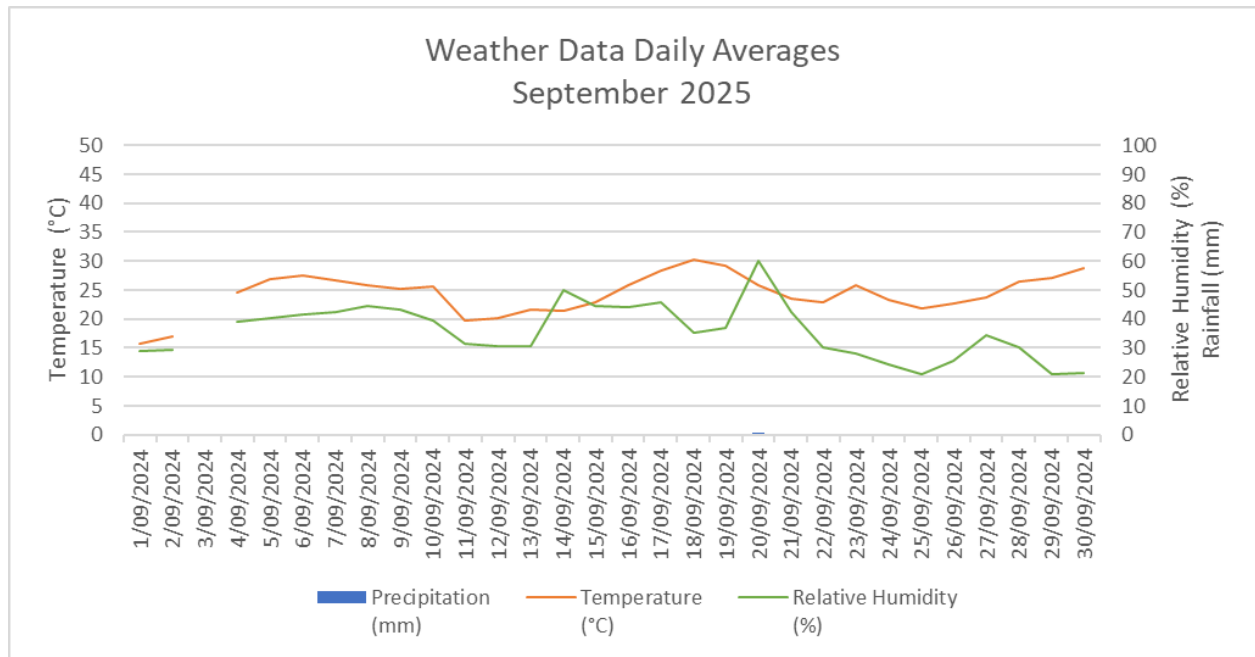


Figure 32 - September 2025 Weather Station Data

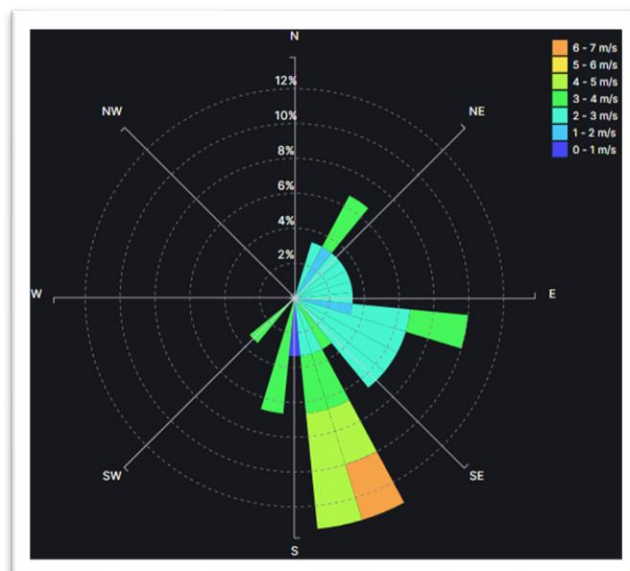


Figure 33 - September 2025 Wind Speed and Direction

8.9.1 SEPTEMBER MONITORING RESULTS SUMMARY

- Weather during the monitoring period was generally fine and dry with the following exception:
 - Rainfall event occurred September 20 totalling 0.8mm.
- Average wind speeds were above 3m/s (approximately 11km/h) and were mostly South Easterly.
- Temperature: HDA 30.2°C, LDA 15.8°C, MA 24.4°C.
- Humidity: HAD 60.3%%, LDA 20.8%%, MA 35.8%
- Weather data loss occurred on September 3 due to a power failure connection.
- The noise monitor was decommissioned due to a mic collar connection issue requiring maintenance, no data was collected during this period.

8.10 OCTOBER 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 34** as well as wind speed and direction in **Figure 35**. Continuous noise logging in 15-minute intervals occurred over the monitoring period. The monitoring data output for 1 October 2025 through 31 October 2025 is presented in **Figure 36**. No mining or construction occurred during this period, however the first Preclearance Survey to detect the presence of the Julia Creek Dunnart (JCD) was undertaken prior to mining activities scheduled in November 2025. The Saint Elmo homestead is currently tenanted. The Saint Elmo homestead is now currently tenanted. The percentage of hourly noise limit exceedances is shown in **Table 12**.

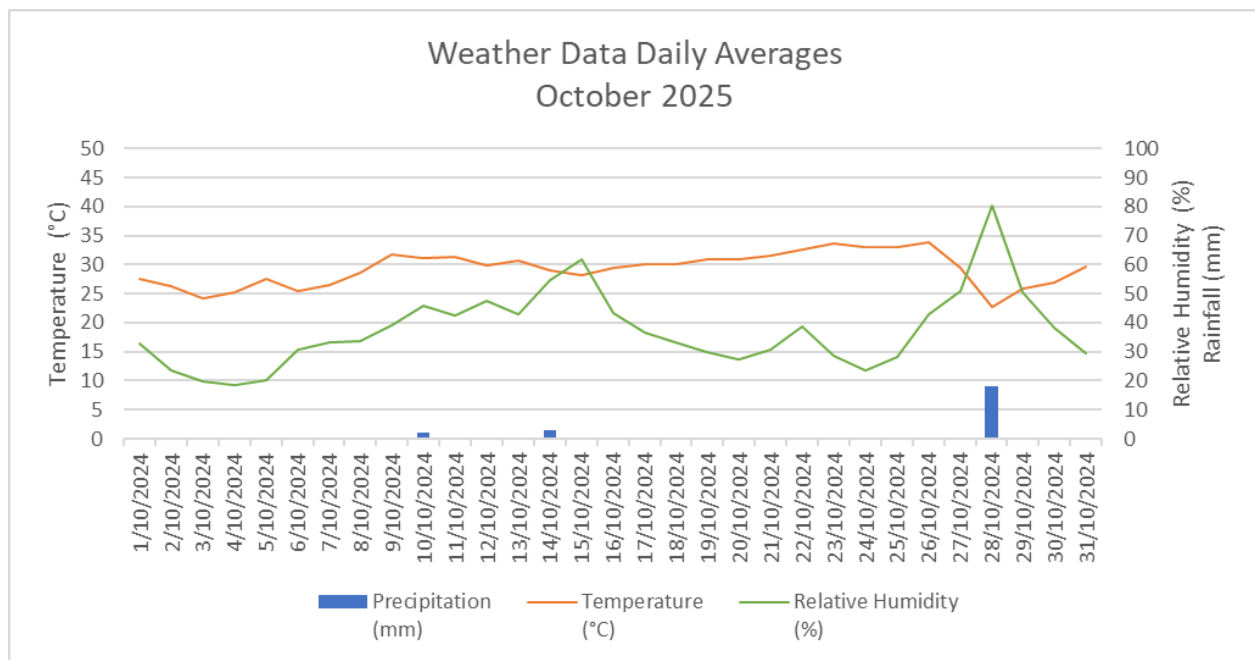


Figure 34 - October 2025 Weather Station Data

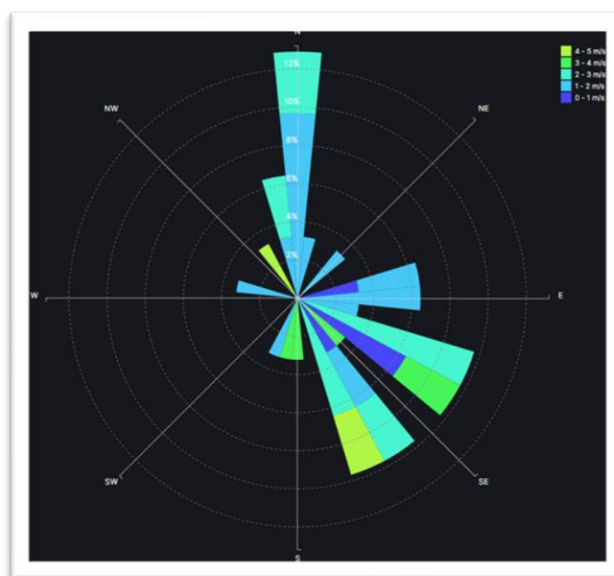


Figure 35 - October 2025 Wind Speed and Direction

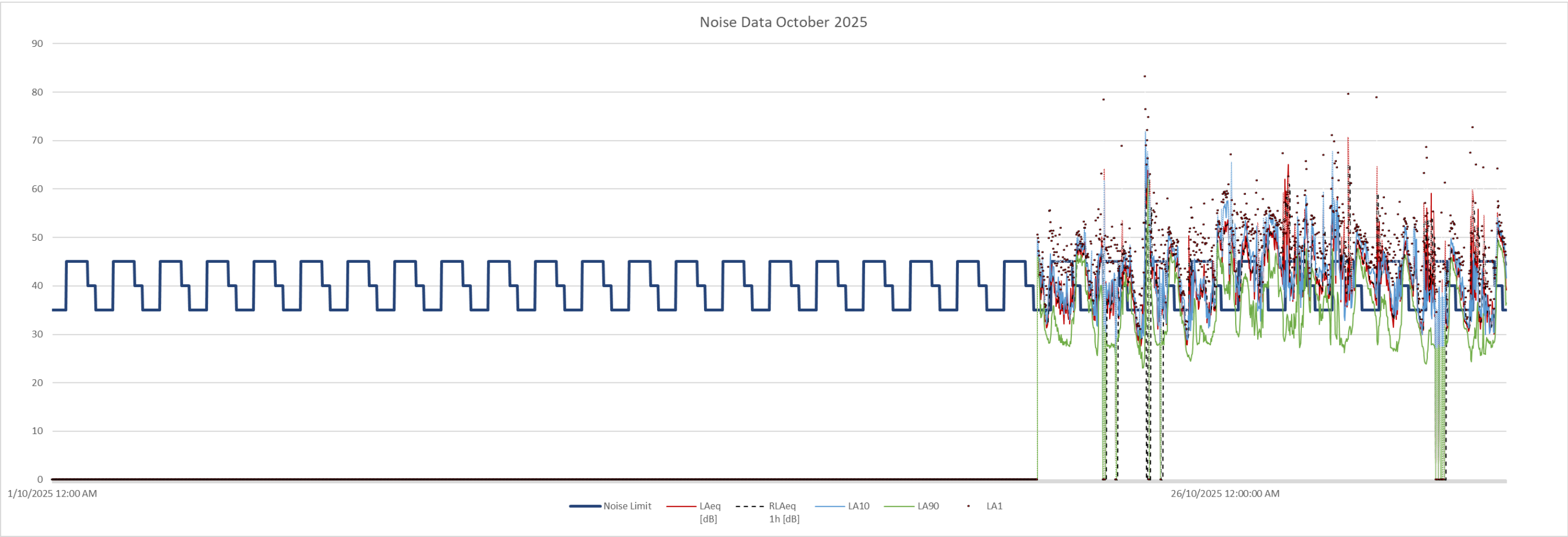


Figure 36 - October 2025 Noise Data

Table 12 - October 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/10/2025	0%	0%	0%
2/10/2025	0%	0%	0%
3/10/2025	0%	0%	0%
4/10/2025	0%	0%	0%
5/10/2025	0%	0%	0%
6/10/2025	0%	0%	0%
7/10/2025	0%	0%	0%
8/10/2025	0%	0%	0%
9/10/2025	0%	0%	0%
10/10/2025	0%	0%	0%
11/10/2025	0%	0%	0%
12/10/2025	0%	0%	0%
13/10/2025	0%	0%	0%
14/10/2025	0%	0%	0%
15/10/2025	0%	0%	0%
16/10/2025	0%	0%	0%
17/10/2025	0%	0%	0%
18/10/2025	0%	0%	0%
19/10/2025	0%	0%	0%
20/10/2025	0%	0%	0%
21/10/2025	0%	0%	0%
22/10/2025	0%	56%	83%
23/10/2025	30%	88%	89%
24/10/2025	34%	100%	53%
25/10/2025	0%	75%	75%
26/10/2025	48%	100%	100%
27/10/2025	52%	94%	100%
28/10/2025	57%	100%	100%
29/10/2025	18%	100%	100%
30/10/2025	68%	100%	75%
31/10/2025	27%	88%	47%
Totals *	11%	29%	27%

*includes data gaps

8.10.1 OCTOBER MONITORING RESULTS SUMMARY

- Weather during the monitoring period was generally fine.
 - Total rainfall for the month of October was 23.4mm.
- Average wind speeds were above 2m/s (approximately 8km/h) with a mixture of South Easterly to Northerly wind directions.
- Temperature: HDA 33.9°C, LDA 22.7°C, MA 29.3°C.
- Humidity: HDA 80.5%, LDA 18.4%, MA 37.4%.
- Noise monitoring machine was still under repairs for most of the month and was not operational until the 22/10.
- Noise exceedances data from October 22 onwards most often occurred during the evening and nighttime periods.
 - Daily Exceedance 11%
 - Evening Exceedance 29%
 - Night Exceedance 27%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.11 NOVEMBER 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 37** as well as wind speed and direction in **Figure 38**. Continuous noise logging in 15-minute intervals occurred over the monitoring period. The monitoring data output for 1 November 2025 through 30 November 2025 is presented in **Figure 39**. No mining or construction occurred during this period, and the homestead remained unoccupied. The first Mining activities commenced in November 2025 with the removal of 4-6 inches of topsoil from the first mine pit and haul road at the southern edge of the mining lease. The Saint Elmo homestead is now currently tenanted. The percentage of hourly noise limit exceedances is shown in **Table 13**.

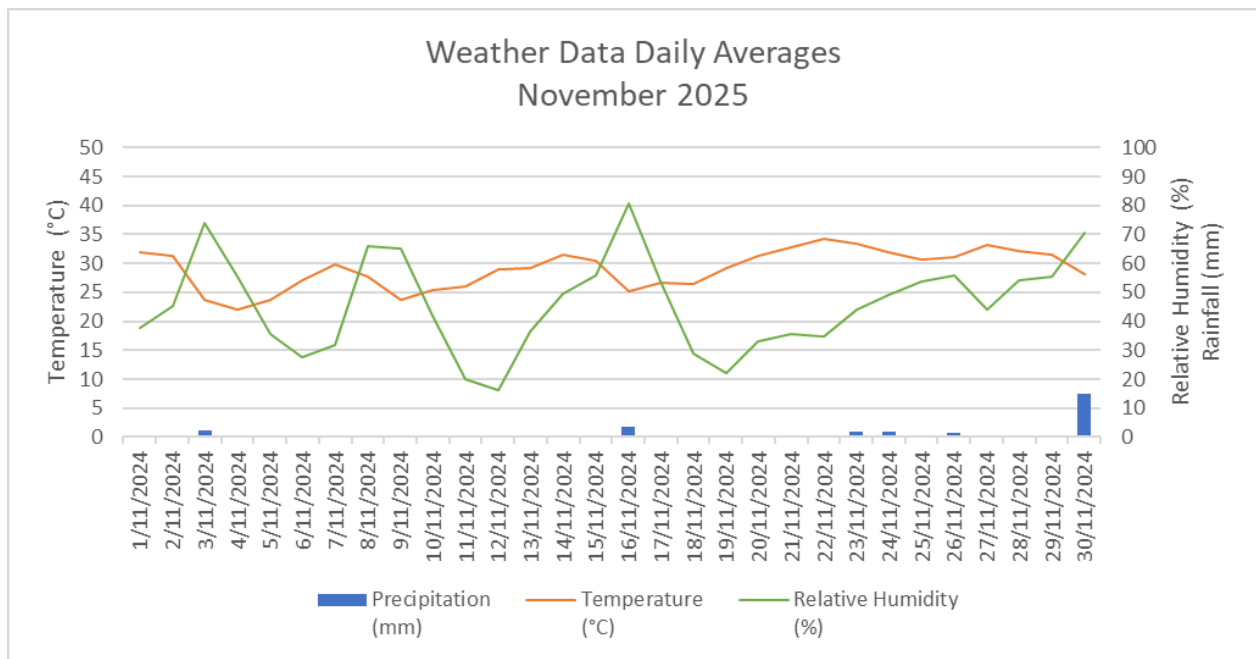


Figure 37 - November 2025 Weather Station Data

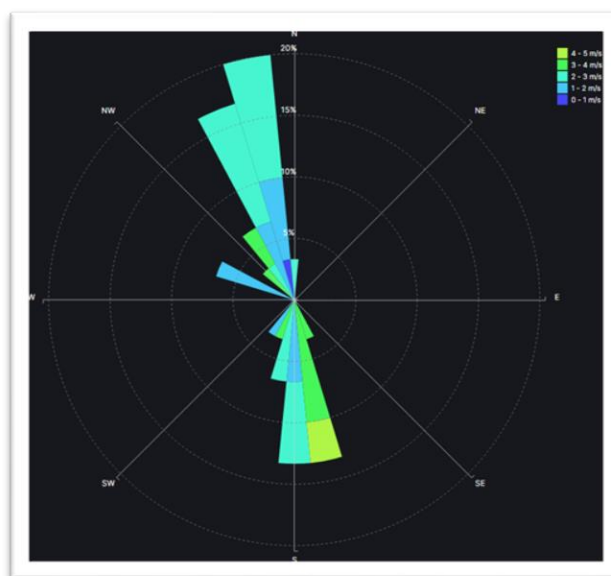


Figure 38 - November 2025 Wind Speed and Direction

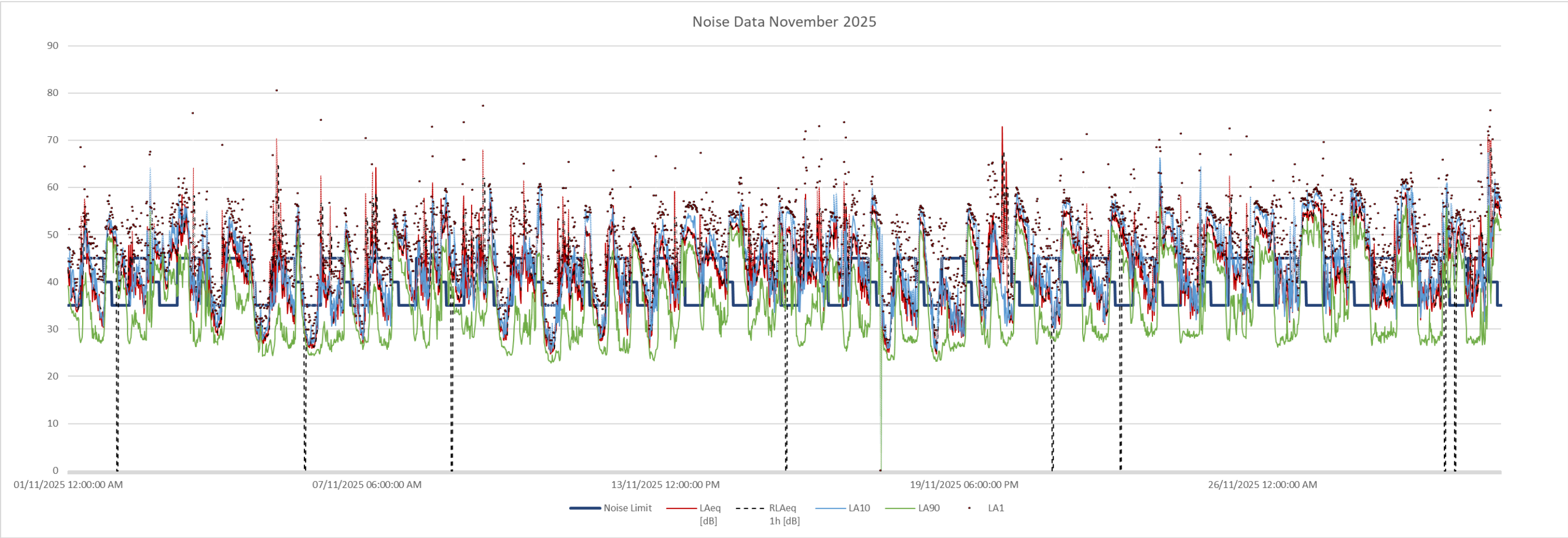































































































Figure 39 - November 2025 Noise Data

Table 13 - November 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/11/2025	 30%	 75%	 86%
2/11/2025	 32%	 100%	 100%
3/11/2025	 70%	 94%	 100%
4/11/2025	 59%	 81%	 25%
5/11/2025	 36%	 75%	 36%
6/11/2025	 18%	 81%	 39%
7/11/2025	 25%	 75%	 64%
8/11/2025	 45%	 81%	 100%
9/11/2025	 50%	 75%	 100%
10/11/2025	 23%	 75%	 33%
11/11/2025	 30%	 75%	 33%
12/11/2025	 34%	 100%	 39%
13/11/2025	 50%	 81%	 75%
14/11/2025	 34%	 88%	 100%
15/11/2025	 18%	 81%	 100%
16/11/2025	 50%	 88%	 100%
17/11/2025	 50%	 69%	 100%
18/11/2025	 7%	 69%	 53%
19/11/2025	 0%	 69%	 61%
20/11/2025	 70%	 69%	 81%
21/11/2025	 7%	 88%	 100%
22/11/2025	 9%	 88%	 100%
23/11/2025	 25%	 81%	 100%
24/11/2025	 30%	 88%	 100%
25/11/2025	 27%	 94%	 100%
26/11/2025	 16%	 88%	 100%
27/11/2025	 34%	 94%	 100%
28/11/2025	 0%	 94%	 100%
29/11/2025	 9%	 100%	 100%
30/11/2025	 41%	 100%	 100%
Totals *	 30%	 81%	 78%

*includes data gaps

8.11.1 NOVEMBER MONITORING RESULTS SUMMARY

- Weather during the monitoring period was generally fine.
 - Total rainfall for the month of November was 27mm.
- Average wind speeds were above 2m/s (approximately 8km/h) and were of a Northerly or Southerly direction.
- Temperature: HDA 34.2°C, LDA 22.1°C, MA 29.0°C.
- Humidity: HDA 80.8%, LDA 16.2%, MA 45.8%.
- Noise exceedances most often occurred during the evening and nighttime periods.
 - Daily Exceedance 30%
 - Evening Exceedance 81%
 - Night Exceedance 78%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

8.12 DECEMBER 2025 MONITORING

Data from the Saint Elmo Weather Station presents daily averages for temperature, precipitation, and relative humidity in **Figure 40** as well as wind speed and direction in **Figure 41**. Continuous noise logging in 15-minute intervals occurred over the monitoring period. The monitoring data output for 1 December 2025 through 31 December 2025 is presented in **Figure 42**. The first Mining activities commenced in November 2025; no further mining activities occurred during December 2025. The Saint Elmo homestead is now currently tenanted. The percentage of hourly noise limit exceedances is shown in **Table 14**.

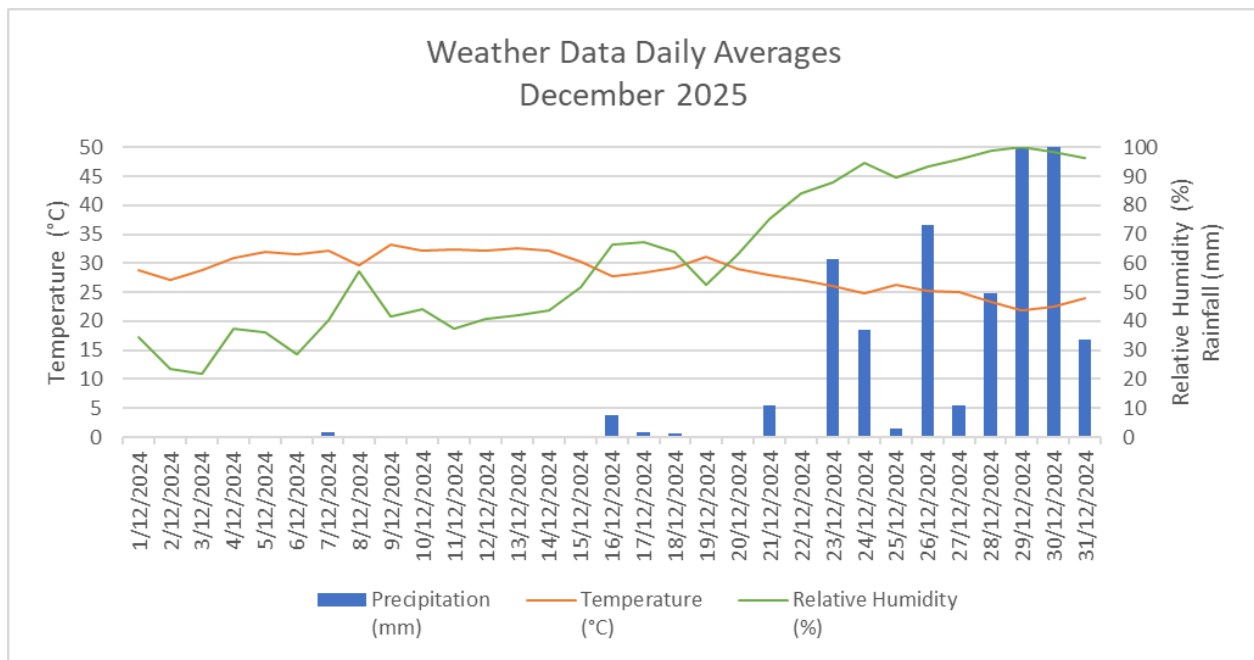


Figure 40 - December 2025 Weather Station Data

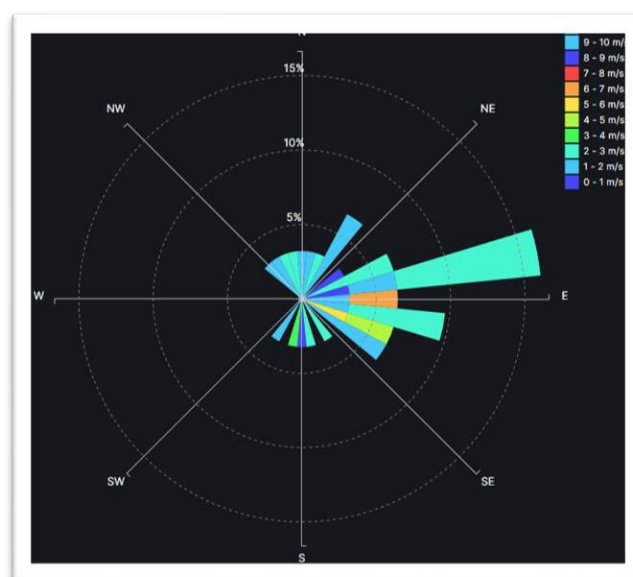


Figure 41 - December 2025 Wind Speed and Direction

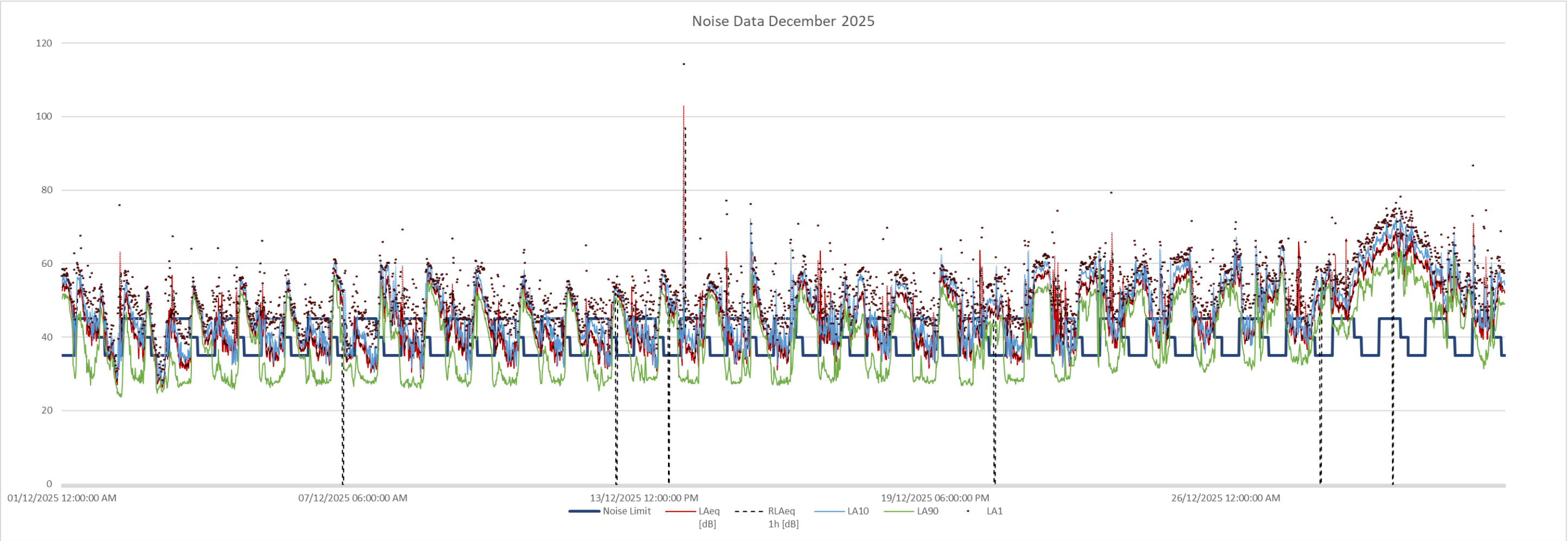


Figure 42 - December 2025 Noise Data

Table 14 - December 2025 Hourly Exceedance Percentages

Date	Day % OL	Evening % OL	Night % OL
1/12/2025	41%	100%	100%
2/12/2025	30%	75%	61%
3/12/2025	25%	81%	47%
4/12/2025	20%	100%	100%
5/12/2025	18%	88%	100%
6/12/2025	0%	75%	100%
7/12/2025	0%	63%	81%
8/12/2025	14%	81%	100%
9/12/2025	20%	63%	100%
10/12/2025	9%	63%	100%
11/12/2025	0%	94%	100%
12/12/2025	0%	69%	100%
13/12/2025	9%	63%	100%
14/12/2025	18%	88%	100%
15/12/2025	16%	88%	100%
16/12/2025	23%	100%	100%
17/12/2025	32%	100%	100%
18/12/2025	16%	94%	100%
19/12/2025	7%	69%	100%
20/12/2025	32%	100%	100%
21/12/2025	25%	100%	100%
22/12/2025	50%	69%	100%
23/12/2025	66%	100%	100%
24/12/2025	64%	94%	100%
25/12/2025	25%	100%	100%
26/12/2025	43%	100%	100%
27/12/2025	39%	100%	100%
28/12/2025	100%	100%	100%
29/12/2025	100%	100%	100%
30/12/2025	100%	100%	100%
31/12/2025	66%	100%	100%
Totals *	31%	84%	93%

*includes data gaps

8.12.1 DECEMBER MONITORING RESULTS SUMMARY

- Weather in December saw a monsoonal trough slowly move across the region causing significant flooding.
 - Total rainfall for the month of December was 795mm.
- Average wind speeds were above 2.4m/s (approximately 9km/h) and were mostly Easterly.
- Temperature: HDA 33.3°C, LDA 21.8°C, MA 28.6°C.
- Humidity: HAD 100.0%, LDA 21.9%, MA 61.6%.
- Noise exceedances most often occurred during the evening and nighttime periods.
 - Daily Exceedance 31%
 - Evening Exceedance 84%
 - Night Exceedance 93%
- Event trigger recording has confirmed that exceedances were primarily caused by wildlife and weather.

9 COMPLAINTS

No noise complaints were received within this reporting period.

10 CONCLUSION

The Annual Noise Quality Monitoring Report for the period from 1 January 2025 to 31 December 2025 demonstrates that the noise monitoring system at the Saint Elmo Mine effectively recorded environmental noise levels in accordance with relevant standards. For most of the reporting period, no mining or construction activities were undertaken. Mining operations commenced in November 2025 with the removal of topsoil from the first mine pit and haul road at the southern edge of the mining lease.

In August 2025, the Saint Elmo Homestead became tenanted. Prior to their occupancy in July 2025, the tenants requested the relocation of the air quality monitoring equipment. As a result, the equipment was moved approximately 1 km away. Importantly, no complaints related to mining noise were received during the reporting period.

Monitoring results indicated that exceedances of noise criteria were primarily due to natural sources, such as weather, wildlife, and non-mining ground activities (e.g., farm works). Notably, background noise levels consistently exceeded the established limits, suggesting that the current noise thresholds may not fully reflect the natural ambient conditions in the area.

Data Gaps

Some data gaps were recorded during the monitoring period caused by equipment issues, including intermittent network failures and one major technical malfunction, the mic collar connection failed requiring maintenance. The device was decommissioned from August 7 to October 22.

Overall Compliance Summary

Although noise levels frequently exceeded the established criteria, no complaints were received during the reporting period, demonstrating that the existing noise management measures continue to effectively minimise potential impacts. The recurring exceedances, however, highlight the need to reassess the current noise limits, which may require adjustment to better reflect naturally high background levels. Overall, the monitoring results remain largely consistent with the conditions of the Environmental Authority Permit, while also underscoring the importance of ongoing monitoring and potential future EA Amendments. Updating the noise thresholds would help account for elevated ambient noise and ensure the Saint Elmo Mine continues to operate within acceptable limits. Maintaining regular evaluation and refinement of noise management strategies will be critical to sustaining compliance and mitigating environmental noise impacts.

11 APPENDIX A - GLOSSARY

Parameter or Term	Description
Day	The period between 7am and 6pm.
dB	The decibel (dB) is the unit measure of sound. Most noises occur in a range of 20 dB (quiet rural area at night) to 120 dB (nightclub dance floor or concert).
dBA	Noise levels are most commonly expressed in terms of the 'A' weighted decibel scale, dBA. This scale closely approximates the response of the human ear, thus providing a measure of the subjective loudness of noise and enabling the intensity of noises with different frequency characteristics (e.g. pitch and tone) to be compared.
EA	Environmental Approval
Evening	The period between 6pm and 10pm.
Free-field	The description of a noise receiver or source location which is away from any significantly reflective objects (e.g. buildings, walls).
HDA	Highest Daily Average
km/h	Kilometers per hour
L ₁	The noise level exceeded for 1% of the measurement period.
L ₁₀	The noise level exceeded for 10% of the measurement period. It is sometimes referred to as the average maximum noise level.
L ₉₀	The noise level exceeded for 90% of the measurement period. This is commonly referred to as the background noise level.
L _{eq}	The equivalent continuous sound level, which is the constant sound level over a given period, which is equivalent in total sound energy to the time-varying sound level, measured over the same time period.
L _{eq,1hour}	As for L _{eq} except the measurement intervals are defined as 1 hour duration.
L _{max}	Maximum A-weighted sound pressure level.
L _{eq} (24 hour)	The average L _{eq} noise level over the 24-hour period from midnight to midnight.
L ₁₀ (18 hour)	The arithmetic average of the one-hour L ₁₀ values between 6am and midnight. This parameter is used in the assessment of road traffic noise.
LDA	Lowest Daily Average
MA	Monthly Average
m/s	Meters per second
NATA	National Association of Testing Authorities

Night	The period between 10pm and 7am.
OWSF	Offsite Water Storage Facility
UTM	The Universal Transverse Mercator
%OL	Percentage Over Limit