

## **Appendix 37**

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# **Meadowbank and Whale Tail 2025 Noise Monitoring Report**

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MEADOWBANK COMPLEX

**2025 Noise Monitoring Report**

In Accordance with NIRB Project Certificates No.004 and No. 008

Prepared by:  
Agnico Eagle Mines Limited – Meadowbank Complex

March, 2026

## EXECUTIVE SUMMARY

The 2025 noise monitoring program at the Meadowbank Complex was conducted according to the Noise Monitoring and Abatement Plan (Version 4, December 2018). The objective of this program is to measure noise levels at 11 previously determined monitoring locations (R1 – R11) around the Meadowbank Complex, over at least two 24 h periods annually. One additional far-field station at the Whale Tail Mine Local Study Area boundary (R12) is also surveyed periodically. Since high winds in the area tend to substantially reduce the quantity of available valid data, Agnico Eagle aims to conduct a minimum of two monitoring events of two or more days per station to fulfill monitoring objectives.

In 2025, at least two surveys were successfully completed for all monitoring locations.

After data processing in keeping with standard methods (Alberta Energy Resource Conservation Board Directive 038), monitoring results collected under specified weather conditions were compared to the site's daytime and night-time target sound levels. Measured values were also compared to Final Environmental Impact Statement (FEIS) predictions for Project + background sound levels at the monitoring locations.

All 2025 valid noise survey results met daytime and nighttime design targets, permissible sound levels, and FEIS predictions (Table 1). For one of the two surveys at station R5, one hourly  $L_{eq}$  value (7 to 8 pm on August 20; 58.9 dBA) marginally exceeded the FEIS-predicted maximum (57 dBA). This was caused by a brief (<2 minute) aircraft fly-over. Aircraft were not included in FEIS noise models since they are an occasional occurrence, so this datapoint is not considered suitable for direct comparison to the FEIS prediction. Historical comparisons indicate no clear trends towards increasing ambient noise levels above predictions for any station.

No human receptors (e.g. cabins) are located in the vicinity of noise monitoring stations, and no noise-related complaints have been received to date. Mine-related disturbance to wildlife is examined separately through the Terrestrial Ecosystem Monitoring Plan (TEMP) and reported annually in the Wildlife Monitoring Summary Report.

Based on these results, no changes to noise abatement or mitigation measures are proposed at this time. Since the FEIS-modeled year of maximum noise emissions has passed (2022), the program will be reviewed in 2026 to evaluate current monitoring locations and frequency of noise surveys.

**Table 1. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring locations R1 – R12.**

Monitoring Station and Survey Start Date		$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	FEIS Prediction (dBA)	$L_{eq, 24h}$ (dBA)
		Design Target = 55 dBA	Design Target = 45 dBA		
R1	2025-07-24	33.8	30.0	58 - 63	32.2
	2025-08-02	37.9	29.5		34.7
R2	2025-07-20	48.2	28.8	58 - 63	46.5
	2025-07-29	50.9	34.3		48.0
R3	2025-08-06	47.5	34.6	49 - 53	45.0
	2025-08-16	29.7	26.1		32.9
R4	2025-07-17	44.0	44.6	58 - 63	44.2
	2025-08-07	38.1	38.2		38.2
	2025-08-19	40.7	39.7		40.4
R5	2025-07-24	31.8	30.4	57*	38.7*
	2025-08-19	46.4	34.4		(58.9)*^
R6	2025-07-17	34.7	27.9	40.5 - 42.5	32.3
	2025-08-16	33.9	37.6		35.5
R7	2025-06-29	37.4	39.5	36.2 - 40.4	38.3
	2025-08-12	39.7	35.5		38.7
R8a	2025-06-22	36.3	36.0	36.2 - 40.4	36.2
	2025-07-03	34.3	37.0		35.5
R9a	2025-06-22	37.9	38.3	40.4 - 45.1	38.0
	2025-07-03	-	-		-
	2025-08-12	32.6	25.3		31.2
R10a	2025-06-18	35.2	-	36.2 - 40.4	-
	2025-07-06	33.1	32.0		32.7
	2025-07-12	-	36.7		-
R11a	2025-06-18	43.6	-	45.1 - 50.0	-
	2025-06-25	37.6	36.1		37.1
	2025-07-12	42.3	27.1		39.7
Monitoring Station and Survey Start Date		$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	FEIS Prediction (dBA)	$L_{eq, 24h}$ (dBA)
		PSL = 50 dBA	PSL = 40 dBA		
R12	2025-06-14	IS	IS	<35	IS
	2025-06-25	34.5	32.9		34.0
	2025-07-06	31.1	29.8		30.6

PSL: Permissible Sound Level

(-) Monitoring period with insufficient valid data due to weather conditions outside targets.

\*R5 values are max. 1-h  $L_{eq}$ .

^ $L_{eq}$  elevated due to aircraft flyover; not suitable for direct comparison to FEIS prediction (see text).

IS = Invalid survey due to fallen microphone.

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## SECTION 1 • INTRODUCTION

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Since 2008, Agnico Eagle Mines Ltd. (Agnico Eagle) has conducted outdoor noise monitoring at the Meadowbank site, near Baker Lake, Nunavut, in accordance with NIRB Project Certificate No. 004. Monitoring stations for the Whale Tail site were added in 2018, in accordance with NIRB Project Certificate No. 008. The objective of this monitoring program is to measure representative ambient outdoor sound levels at the Meadowbank Complex and inform the implementation of noise mitigation measures.

### 1.1 MONITORING STATIONS

To fulfill monitoring objectives, the Noise Monitoring and Abatement Plan (the Plan) indicates that at least two 24-h surveys of ambient outdoor noise will be conducted annually at 11 representative locations site-wide. Due to a tendency towards sub-optimal weather conditions for noise monitoring (see Section 2.2), Agnico Eagle aims to conduct a minimum of two 48-h surveys for each location. In addition to the annual monitoring stations, noise surveys are to be conducted periodically at a far-field station (R12) to confirm impact assessment predictions for noise levels at the Whale Tail Mine Local Study Area boundary.

Survey dates in 2025 and UTM coordinates for the monitoring stations are provided in Table 2. Stations are shown in relation to mine site features in Figures 1 and 2. Photos of the monitoring locations in 2025 are provided in Appendix A.

Noise monitoring stations R1 – R5 for the Meadowbank site have been in place with minor adjustments since 2008. Stations R6 – R11 were added in 2018 in response to development of the Whale Tail Pit and Haul Road, and sited according to the Noise Monitoring and Abatement Plan (Version 3 – June, 2018). Stations R8 – R11 were ultimately moved according to the Noise Monitoring and Abatement Plan (Version 4 – December, 2018) to accommodate the Whale Tail Pit Expansion Project. For clarity, Version 4 locations are referred to here as R8a, R9a, R10a, and R11a, and monitoring at those locations began in 2021 (R11a) or 2022 (R8a, R9a, R10a). Both Version 3 and Version 4 locations are shown in Figure 2.

**Table 2. UTM coordinates and monitoring dates for the Meadowbank Complex noise monitoring locations in 2025.**

Monitoring Location	UTM Coordinates	Event #	Recording Start Time	Recording Stop Time
R1	14N 636151 7217333	1	2025-07-24 8:56	2025-07-26 17:23
		2	2025-08-02 15:10	2025-08-05 14:45
R2	14N 636795 7214435	1	2025-07-20 17:12	2025-07-22 7:32
		2	2025-07-29 9:33	2025-07-31 10:52
R3	14N 641121 7214417	1	2025-08-06 15:17	2025-08-10 11:56
		2	2025-08-16 11:17	2025-08-18 11:00
R4	14N 639441 7218750	1	2025-07-17 10:02	2025-07-19 10:02
		2	2025-08-07 15:10	2025-08-11 10:01
		3	2025-08-19 13:38	2025-08-22 9:07
R5	14N 633779 7214494	1	2025-07-24 8:09	2025-07-26 16:57
		2	2025-08-19 8:23	2025-08-22 8:01

<b>Monitoring Location</b>	<b>UTM Coordinates</b>	<b>Event #</b>	<b>Recording Start Time</b>	<b>Recording Stop Time</b>
R6	14N 640708 7221964	1	2025-07-17 8:44	2025-07-19 8:37
		2	2025-08-16 11:40	2025-08-18 14:06
R7	14N 620194 7239038	1	2025-06-29 11:37	2025-07-02 14:51
		2	2025-08-12 12:10	2025-08-15 11:54
R8a	14N 612414 7256890	1	2025-06-22 12:11	2025-06-24 9:40
		2	2025-07-03 9:22	2025-07-05 15:53
R9a	14N 603301 7256750	1	2025-06-22 11:41	2025-06-24 9:17
		2	2025-07-03 9:56	2025-07-05 16:07
		3	2025-08-12 12:44	2025-08-15 11:10
R10a	14N 608154 7250529	1	2025-06-18 11:26	2025-06-21 10:29
		2	2025-07-06 17:03	2025-07-09 9:52
		3	2025-07-12 7:23	2025-07-14 8:31
R11a	14N 606756 7258558	1	2025-06-18 10:58	2025-06-21 9:58
		2	2025-06-25 9:08	2025-06-26 6:50
		3	2025-07-12 7:49	2025-07-14 8:09
R12	14N 599641 7256320	1	2025-06-14 9:52	2025-06-17 11:03
		2	2025-06-25 8:44	2025-06-27 21:43
		3	2025-07-06 16:37	2025-07-09 10:10

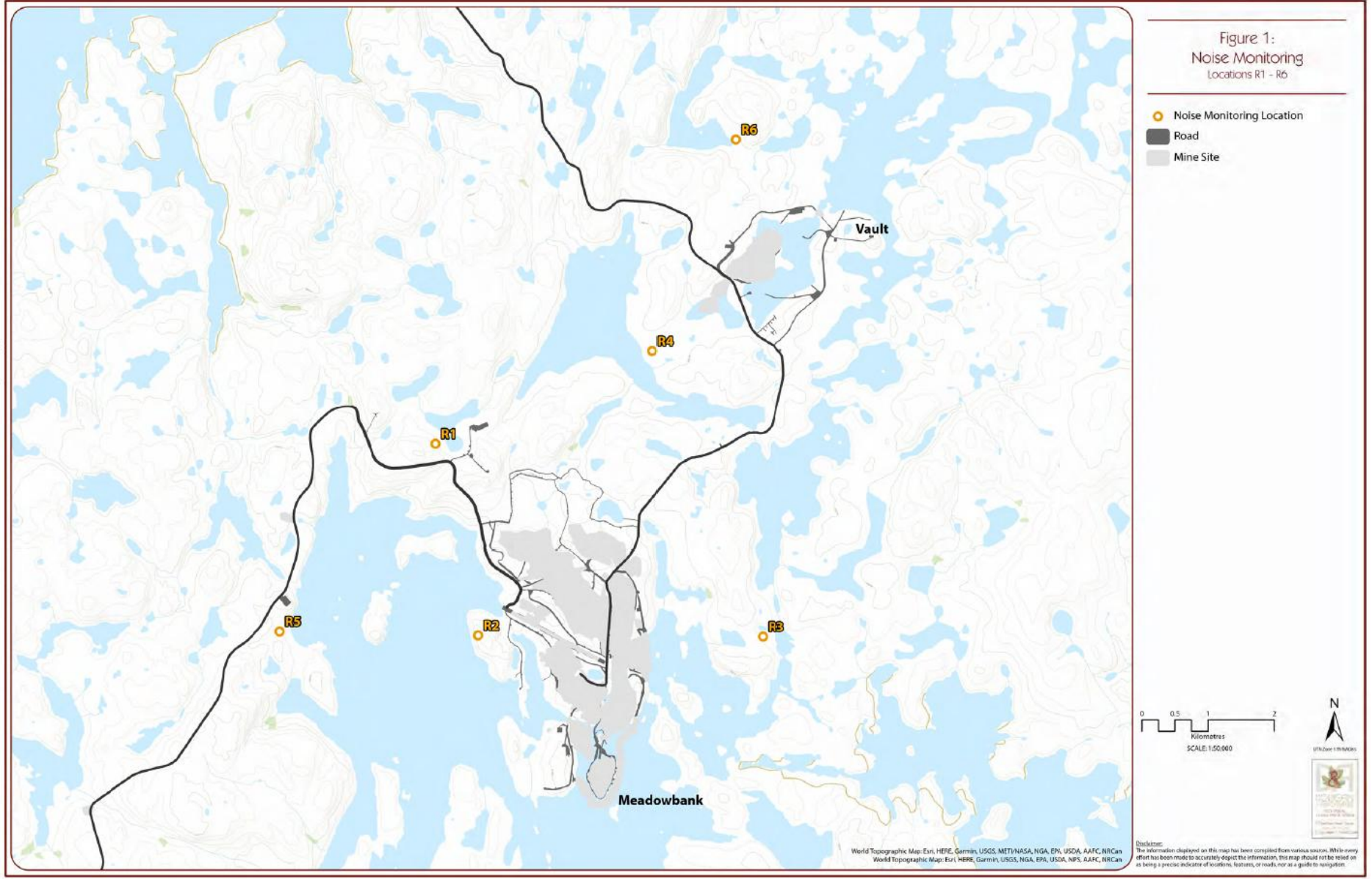


Figure 1. Noise monitoring locations at the Meadowbank Mine.

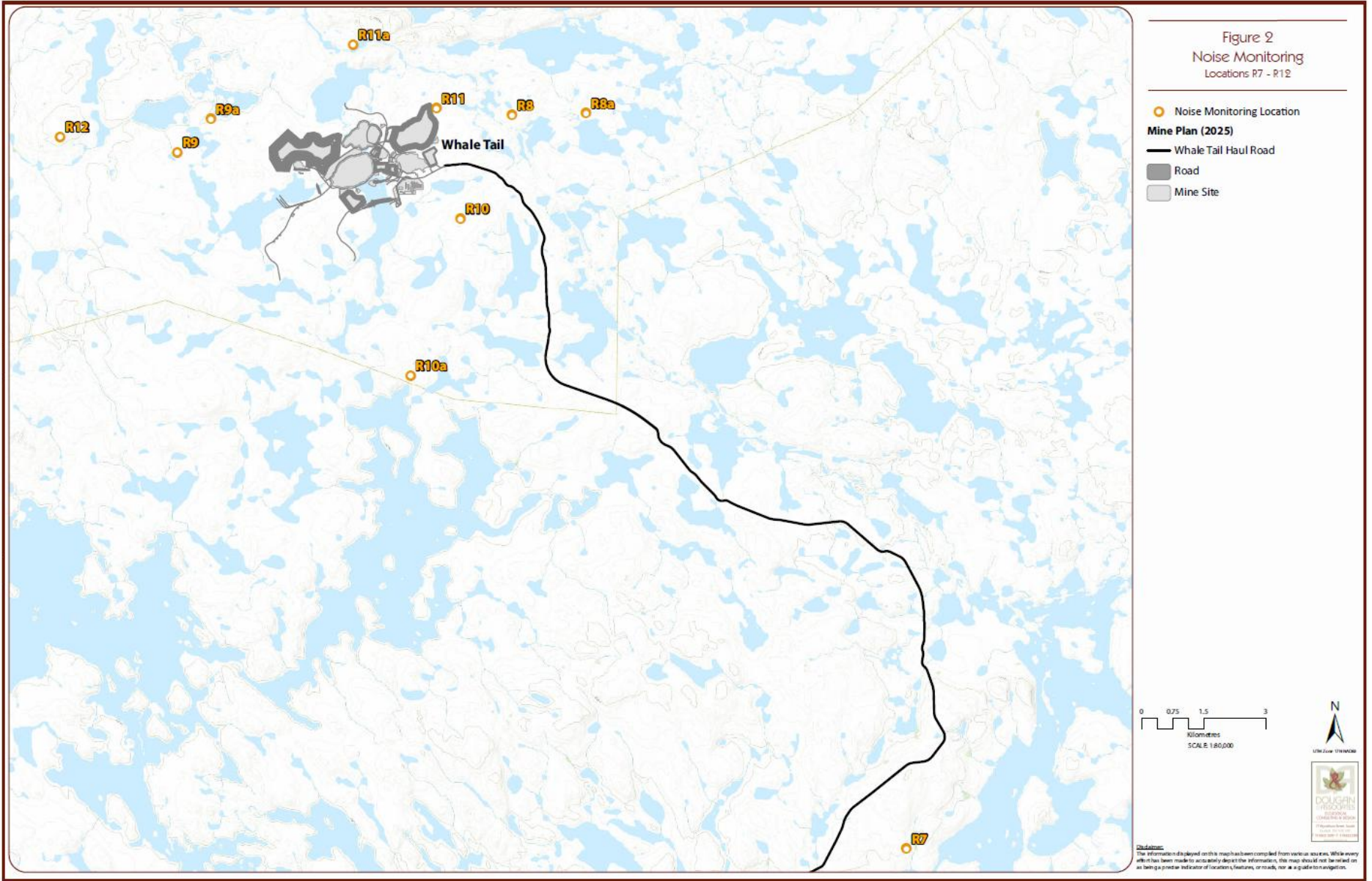


Figure 2. Noise monitoring locations at the Whale Tail Mine.

#### 1.1.1 R1

Monitoring station R1 was initially approximately 700 m south of the explosive storage area, and 400 m northeast of the All-Weather Access Road. A spur road and a storage area were constructed within 100 m of this location in 2011. As a result, in 2014 Agnico Eagle moved this station approximately 700 m northwest of the explosives storage area to better represent the originally intended orientation.

#### 1.1.2 R2

Monitoring station R2 is approximately 600 m west of the airstrip. Third Portage Lake is to the west and southwest and surrounding terrain is vegetated tundra with rocky outcrops.

#### 1.1.3 R3

Monitoring station R3 is approximately 1,800 m east of the East Dike. Second Portage Lake is to the west and east, and surrounding terrain is vegetated tundra with rocky outcrops.

#### 1.1.4 R4

Monitoring station R4 is approximately 1,500 m southwest of Vault Pit, 1,000 m from Phaser Pit, and less than 1 km from the Vault Haul Road. Turn Lake is to the west, and surrounding terrain is vegetated tundra with rocky outcrops.

#### 1.1.5 R5

Monitoring station R5 is approximately 500 m south of the exploration camp and 300 m east of the all-weather access road. Third Portage Lake is immediately to the east, and surrounding terrain away from the shoreline is vegetated tundra with rocky outcrops. This location is situated on a known caribou migration route.

#### 1.1.6 R6

Monitoring station R6 is located approximately 1,500 m east from the Whale Tail Haul Road and approximately 1,500 m north from the centre of Vault Pit. The terrain is relatively flat and covered by vegetation typical of tundra (i.e., low vegetation). In addition, the ground surface near the receptor is covered by scattered rocks. The waste rock storage area of the Vault Pit is located approximately 750 m south from the monitoring site.

#### 1.1.7 R7

Monitoring station R7 is located approximately 1,500 m east from the Whale Tail Haul Road. The ground surface around the monitoring site is generally covered by typical tundra vegetation and scattered rocks.

#### 1.1.8 R8 and R8a

From 2018 – 2021, station R8 was located on an elevated plateau approximately 1,500 m northeast from the Whale Tail site. The ground surface in that area is covered by typical tundra vegetation and scattered rocks. This monitoring station was 150 m east of the original baseline monitoring location due to ongoing quarrying activities.

Beginning in 2022, this station was moved to approximately 1,500 m east from the Whale Tail Expansion Project, in accordance with the Noise Monitoring and Abatement Plan, Version 4 (December, 2018). This location is referred to as R8a.

#### 1.1.9 R9 and R9a

From 2018 – 2021, station R9 was located approximately 1,500 m northwest from Whale Tail Pit. The ground surface in that area is covered by typical tundra vegetation and scattered rocks.

Beginning in 2022, this station was re-located to approximately 1,500 m west from the Whale Tail Expansion Project, in accordance with the Noise Monitoring and Abatement Plan, Version 4 (December, 2018). This location is referred to as R9a.

#### 1.1.10 R10 and R10a

From 2018 – 2021, station R10 was located approximately 1,000 m southeast from the Whale Tail site, on the east side of Whale Tail Lake.

Beginning in 2022, this station was re-located to approximately 1,500 m south from the Whale Tail Expansion Project, in accordance with the Noise Monitoring and Abatement Plan, Version 4 (December, 2018). This location is referred to as R10a.

#### 1.1.11 R11 and R11a

From 2018 – 2020, station R11 was located approximately 1,000 m north from the Whale Tail site, on the east side of Nemo Lake.

Beginning in 2021, station R11 was re-located to approximately 1,500 m north from the Whale Tail Expansion Project in accordance with the Noise Monitoring and Abatement Plan, Version 4 (December, 2018). This location is referred to as R11a.

#### 1.1.12 R12

R12 corresponds to the location on the Local Study Area boundary with the maximum predicted Project noise levels (Rmax in Agnico Eagle, 2018 – Section 4.4.3.1.1). This station is located approximately 5 km west from the Whale Tail Expansion Project site, and the surrounding terrain is a gently sloping tundra plateau with scattered small boulders. Monitoring for this location is required periodically, and was conducted in 2022, to correspond with the year of highest predicted noise impact. One survey was also conducted opportunistically in 2023. None were required in 2024. Two surveys were completed here in 2025.

## SECTION 2 • METHODS

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In 2025, Agnico Eagle technicians aimed to conduct two or more noise surveys at each of the locations described in Section 1.1. These surveys provide data on average noise levels during a typical day, as well as variability of noise levels within the day.

Two or more 24 h+ surveys were successfully completed for all stations in 2025.

### 2.1 SOUND LEVEL METER

For all stations a Bruel and Kjaer Model 2250 integrating sound level meter was used to conduct the noise survey. As in the past, the sound level logging rate was set at one-minute intervals.

The parameters logged each minute included:

- Equivalent continuous A-weighted sound level –  $L_{Aeq}$
- Absolute maximum sound level, in dBA –  $L_{max}$
- Absolute minimum sound level, in dBA –  $L_{min}$
- Statistical data – e.g.  $L_{10}$ ,  $L_{90}$

Sound recordings were also obtained for the complete duration of all monitoring events to facilitate data interpretation.

Calibration of the instrument was performed before and after each monitoring event using a Bruel and Kjaer Type 4231 Calibrator, to ensure variance was within 0.5 dB. Estimated uncertainty of the calibrator is  $\pm 0.12$  dB at a 99% confidence level.

### 2.2 WEATHER DATA

Weather data for the noise monitoring periods was collected using the mine site's permanent weather stations. The Meadowbank Mine weather station data was used for analysis of noise monitoring stations R1 – R6, and the Whale Tail Mine weather station data was used for analysis of noise monitoring stations R7 – R12. Hourly data for wind speed, wind direction, and temperature, was available from these stations in 2025. Relative humidity data was unavailable due to instrument malfunction. Precipitation events were recorded for each site using a rain gauge, read approximately daily.

The Alberta Energy Regulator Directive 038 (AER, 2023) identifies preferred weather conditions for data validity in noise complaint investigations, because wind and precipitation can affect sound levels. Based on these guidelines and the intent of the annual ambient noise monitoring program, recorded noise data was filtered to remove measurements when average measured wind speed exceeded 15 km/h (4.17 m/s). This is the highest acceptable wind speed over an extended period for use in noise monitoring complaint situations in AER (2023). Although this value is specified for sites located in closer proximity to noise sources than most Meadowbank Complex monitoring stations, and AER (2023) recommends different wind speed limits depending on wind direction, this screening approach is considered appropriate here for general comparison with site noise targets, since higher winds dominate in this area (e.g. summertime average typically 20+ km/h), no residential receptors (e.g. cabins) are located in the vicinity of the Project, and no noise-related complaints have been received.

This approach also facilitates comparison with historical values, which were screened in the same manner according to recommendations in the previous version of the guidance (AER, 2007).

Average hourly wind speed values from onsite weather stations were used since filtering based on maximum values has historically resulted in exclusion of nearly the entire noise dataset. As a result, the possibility for undocumented local gusts in excess of 15 km/h is noted. Data filtering for precipitation occurs on an as-needed basis, through review of field notes and sound recordings, and cross-referencing hourly humidity data with recorded precipitation events. Any data filtered out on this basis is described in the Results section, below.

Weather data (wind speed, wind direction, temperature, and humidity) for the monitoring periods are provided in Appendix B.

### **2.3 FIELD NOTES**

A pocket weather meter (Kestrel 3000) was used by field staff to record wind speed, direction, relative humidity, and temperature at the beginning and end of each monitoring period. Other observations included precipitation, cloud cover and observed noise sources during instrument set-up and take-down. Field observations are discussed in Section 3.

### **2.4 DATA ANALYSIS**

Since noise levels vary constantly over time, the monitoring instruments used at the Meadowbank Complex measure continuously and record a single-number value for each minute, representing the equivalent A-weighted sound level (referred to here as  $L_{eq}$ ).

Recorded one-minute  $L_{eq}$  values were used to calculate hourly equivalent noise levels ( $L_{eq, 1h}$ ). All datapoints associated with the first and last hour of measurement were filtered out to remove noise from technicians, and to ensure more than 30 min of data contributed to hourly averages. After filtering the remaining dataset based on weather considerations (Section 2.2), valid hourly  $L_{eq}$  values were energy-averaged across calendar days within a monitoring event (usually two sequential 24-h periods) and average values for each hour were used to calculate daytime (7am-11pm), night-time (11pm-7am) and 24-h  $L_{eq}$  values for each event. This approach was taken beginning in 2016 due to the frequency of high-wind conditions, in order to maximize the utility of the available data, and obtain day- and night-time  $L_{eq}$  values with at least 3 h of coverage.

When calculated  $L_{eq}$  values exceeded Final Environmental Impact Statement (FEIS) predictions or noise targets, sound recordings were reviewed to identify and if appropriate, remove noise data dominated by background noise sources unrelated to mine activity, and causing recorded  $L_{eq}$  values in excess of FEIS predictions or noise targets (e.g. wind gusts, ongoing animal disturbance in close proximity to the microphone, human interference, steady precipitation). Sounds from aircraft were not specifically removed at this stage, but sound peaks caused by aircraft are identified and a discussion of their impact on results is provided when necessary. Since these are occasional occurrences, often related to exploration rather than operational activities, they are not generally included in FEIS noise modelling considerations. After this second data filtering, hourly  $L_{eq}$  values with less than 30 min of valid data were excluded from calculations, in accordance with Directive 038. Similarly, day- and night-time, and 24-h  $L_{eq}$  values were only calculated when more than 180 valid minutes were available from each of the daytime and nighttime periods.

These final  $L_{eq}$  values were compared to FEIS predictions and the site's noise-related design targets (see Table 3).

## 2.5 AMBIENT NOISE TARGETS AND FEIS PREDICTIONS

Although no residential receptors are located nearby, Agnico Eagle aims to meet target sound levels identified in Environment Canada's "Environmental Code of Practice for Metal Mines" (2009) for all monitoring locations. These values are 55 dBA (daytime) and 45 dBA (night-time).

For all monitoring stations, results are also compared to predictions of sound levels made in the Project FEIS documents for the Meadowbank and Whale Tail Mines (Cumberland, 2005; Agnico Eagle, 2016; 2018) (Table 3). Table 3 identifies FEIS (Agnico Eagle, 2016) predictions for Phase 1 of the Whale Tail Project, which are applied to results obtained in 2018 and 2019, and FEIS Addendum (Agnico Eagle, 2018 – Whale Tail Pit Expansion Project) predictions for both *Noise Abatement and Monitoring Plan* Version 3 locations (R8 – R11) and Version 4 locations (R8a – R11a), which are applied to results obtained in 2020+, as indicated in the table.

Predictions for Whale Tail Mine sites R6 – R12 have been adjusted to include contributions from background sound levels (39 dBA for R6, 30 dBA for R7-R12), as measured in the impact assessment for that project (Agnico Eagle, 2018). For the initial Meadowbank EIS (sites R1 – R5; Cumberland, 2005), contributions from background noise were not measured and assumed to be negligible in comparison to project-related noise, and were not quantified, so no adjustment was made.

It is noted that noise modeling for EIS purposes determined a single sound pressure level produced by a specified combination of Project-related activities at a given location under certain assumed atmospheric conditions. In reality, measured noise levels vary over time, depending on contributions from background sources, wind direction, ongoing or punctual activities, etc. Thus while FEIS predictions are not specifically time-averaged, they are compared here to the 24-h  $L_{eq}$  calculated from monitoring results, which represents the average sound pressure level produced by all sources over the course of a day, under varying climatic conditions including wind speeds and direction. This evaluation is therefore considered a screening-level comparison for the purposes of noise management and trend-tracking, and not a comprehensive validation of those model predictions.

Finally, in the FEIS Addendum for the Whale Tail Pit (Agnico Eagle, 2018), noise impacts were assessed by comparing modeled Project sound levels at the noise local study area (LSA) boundary (5 km from the Project footprint) with Permissible Sound Levels (PSLs) from AER Directive 038 (40 dBA night-time, 50 dBA daytime). Since all regular monitoring locations for the Whale Tail Mine are located well within the noise LSA, closer to project infrastructure, annual monitoring results are not compared to the PSL at this time. In accordance with noise mitigation measures listed in the FEIS Addendum (Volume 3, Appendix 3-C, Table 3-C-1), periodic far-field monitoring is conducted at the LSA boundary to confirm adherence with the PSLs. This far-field monitoring at station R12 occurred for the first time in 2022, to coincide with the anticipated year of maximum production and maximum sound emissions, as indicated in the FEIS Addendum. One survey was also conducted opportunistically at this station in 2023. None were conducted in 2024, and two were conducted in 2025.

**Table 3. FEIS predictions and target sound levels for the Meadowbank Complex.**

Location	Monitoring Years	FEIS Prediction* (dBA)	Design Target	
			L <sub>eq</sub> -daytime (dBA)	L <sub>eq</sub> -night-time (dBA)
R1	2008+	58-63	55	45
R2	2008+	58-63	55	45
R3	2008+	49-53	55	45
R4	2008+	58-63	55	45
R5	2008+	(all 1 hr L <sub>eq</sub> < 57)	55	45
R6	2018 & 2019	46.0 - 50.3	55	45
	2020+	40.5 - 42.5	55	45
R7	2018 & 2019	45.1 - 50.0	55	45
	2020+	36.2 - 40.4	55	45
R8	2018 - 2021	40.4 - 45.1	55	45
R8a	2022+	36.2 - 40.4	55	45
R9	2018 & 2019	36.2 - 40.4	55	45
	2020 & 2021	40.4 - 45.1	55	45
R9a	2022+	40.4 - 45.1	55	45
R10	2018 - 2021	45.1 - 50.0	55	45
R10a	2022+	36.2 - 40.4	55	45
R11	2018 - 2020	45.1 - 50.0	55	45
R11a	2021+	45.1 - 50.0	55	45
Location	Monitoring Years	FEIS Prediction (dBA)	Permissible Sound Level	
			L <sub>eq</sub> -daytime (dBA)	L <sub>eq</sub> -night-time (dBA)
R12	2022, 2023, 2025	<35	50	40

\*R1 – R5 predictions from Cumberland (2005);  
 2018 & 2019 R6 – R11 predictions from Agnico Eagle (2016);  
 2020+ R6 - R12 predictions from Agnico Eagle (2018)

## SECTION 3 • RESULTS

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### 3.1 R1

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during the monitoring events 1 and 2 at R1 are shown in Figure 3 and 4. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $LA_{eq}$ -unfiltered).

For monitoring event 1 (July 24 – 26), 17 h of valid data were available after 41 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary data filtering was required.

For monitoring event 2 (August 2 – 5), 17 h of valid data were available after 55 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary data filtering was required.

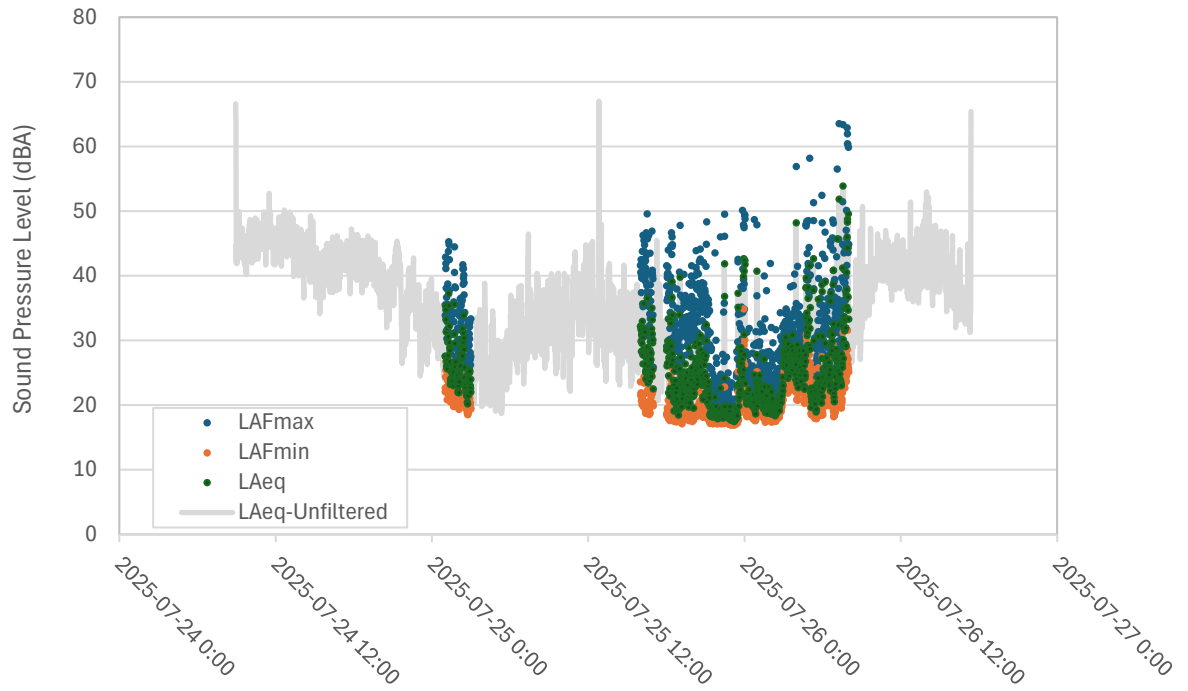
Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 4. Design targets and maximum FEIS predictions were met in all cases.

Weather data and hourly  $L_{eq}$  values are provided in Appendix B.

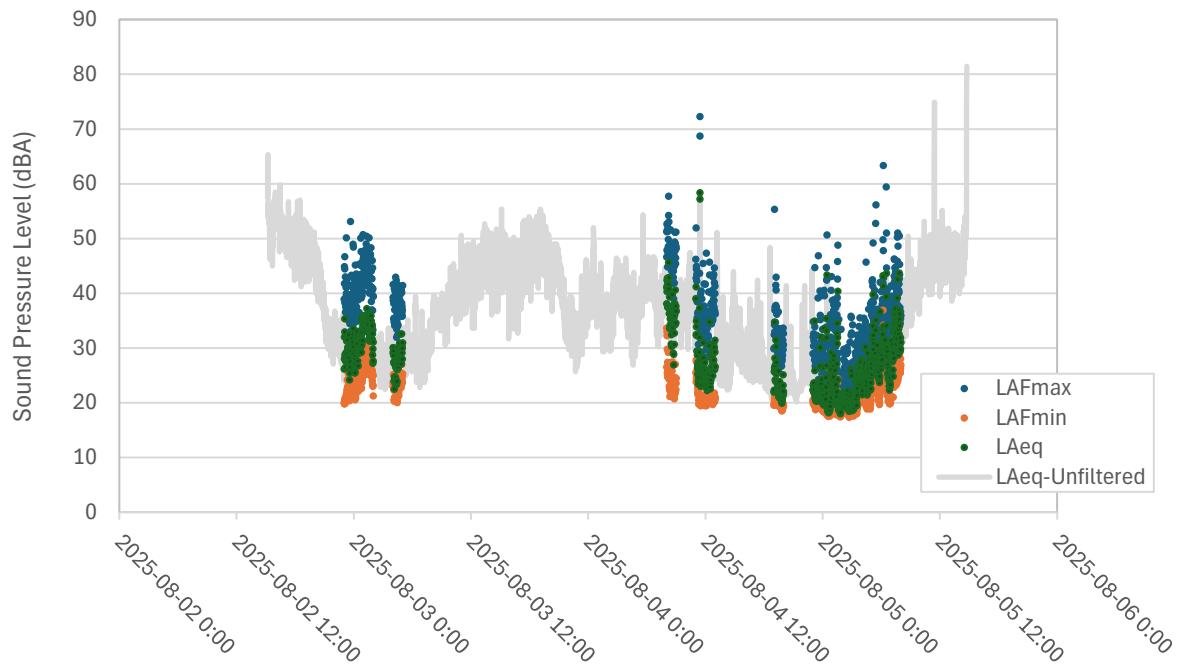
Noise sources noted in the field log at this location include birds and workers at the nearby emulsion plant.

**Table 4. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring locations R1.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 58 – 63 dBA</i>
2025-07-24	33.8	30.0	32.2
2025-08-02	37.9	29.5	34.7



**Figure 3. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R1 during monitoring event 1.**



**Figure 4. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R1 during monitoring event 2.**

### 3.2 R2

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during monitoring events 1 and 2 at R2 are shown in Figures 5 and 6. Invalid data points filtered out prior to data analyses (as described in Section 2.4) are indicated for reference ( $L_{Aeq-unfiltered}$ ).

For monitoring event 1 (July 20 – 22), 32 h of valid data were available after 7 h were filtered out due to recorded weather conditions or set up/take down. For event 2 (July 29 – 31), 28 h of valid data were available after 22 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

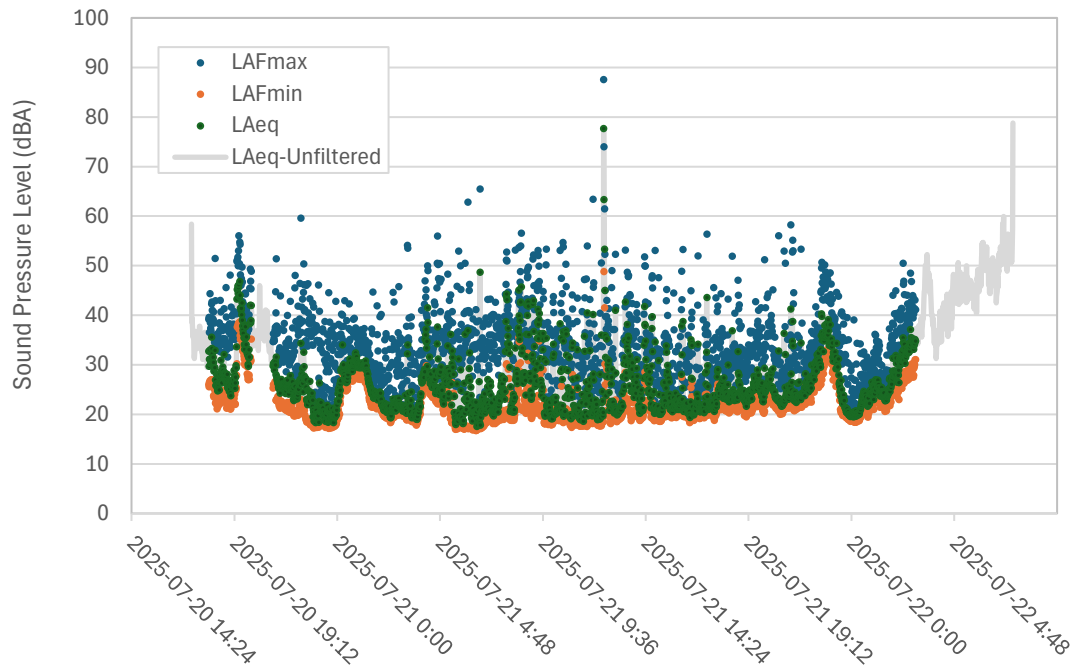
Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 5. In all cases, the design targets and maximum FEIS predictions were met.

Weather data and hourly  $L_{eq}$  values for all noise monitoring events are provided in Appendix B.

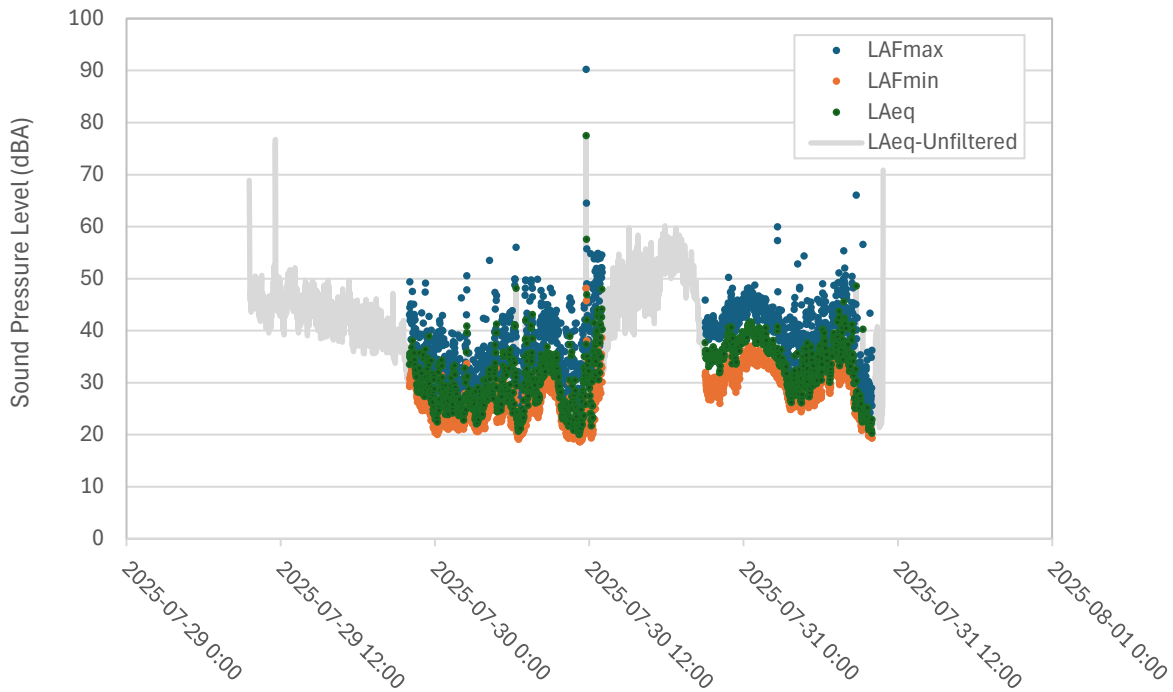
Noise sources noted in the field log at this location include wind and waves.

**Table 5. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R2.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 58 – 63 dBA</i>
2025-07-20	48.2	28.8	46.5
2025-07-29	50.9	34.3	48.0



**Figure 5. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R2 during monitoring event 1.**



**Figure 6. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R2 during monitoring event 2.**

### 3.3 R3

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during monitoring events 1 and 2 at R3 are shown in Figures 7 and 8. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $L_{Aeq}$ -unfiltered).

For monitoring event 1 (August 6 - 10), 35 h of valid data were available after 58 h were filtered out due to recorded weather conditions or set-up/take-down. For event 2 (August 16 - 18), 35 h of valid data were available after 14 h were filtered out. No secondary filtering was required.

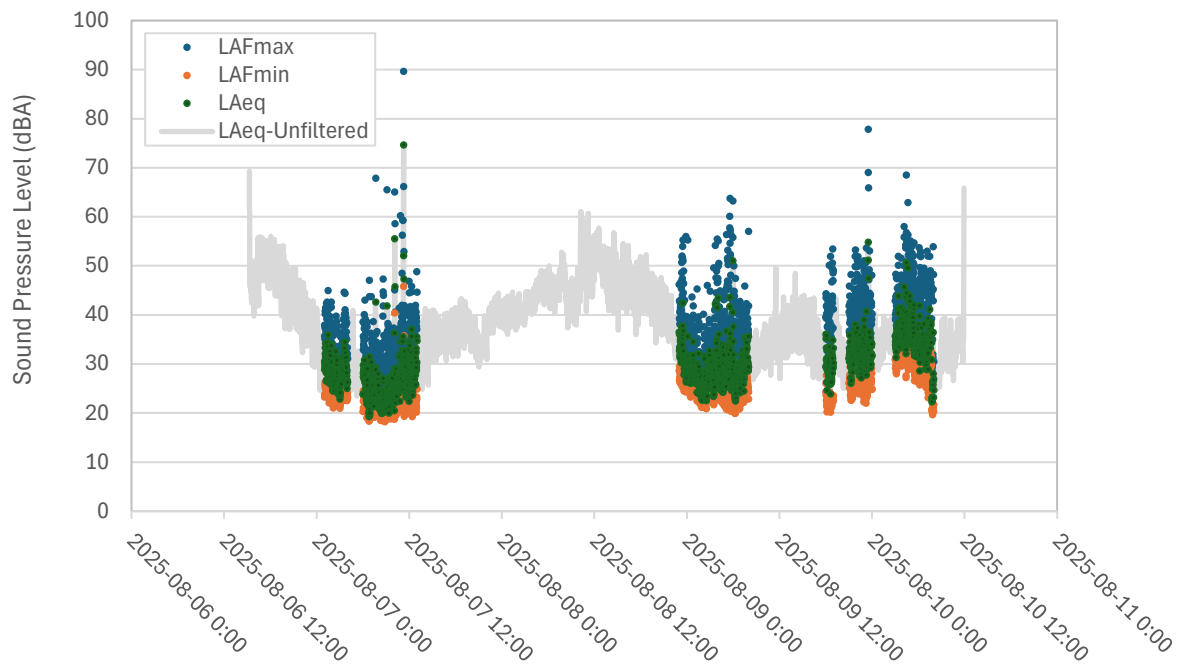
Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 6. In all cases, the design targets and maximum FEIS predictions were met.

Weather data and hourly  $L_{eq}$  values for both events are provided in Appendix B.

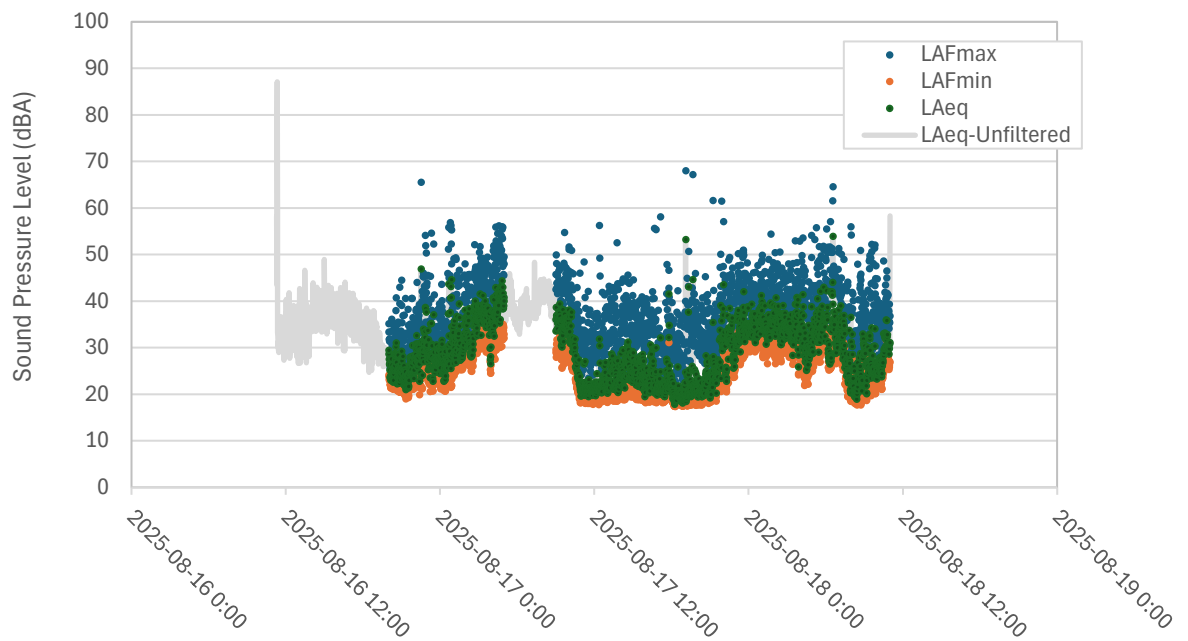
Noise sources noted in the field log for this location include animals and aircraft.

**Table 6. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R3.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 49 - 53 dBA</i>
2025-08-06	47.5	34.6	45.0
2025-08-16	29.7	26.1	32.9



**Figure 7. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R3 during monitoring event 1.**



**Figure 8. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R3 during monitoring event 2.**

### 3.4 R4

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during monitoring events 1, 2, and 3 at R4 are shown in Figures 9 to 11. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $LA_{eq-unfiltered}$ ).

For event 1 (July 17 - 19), 23 h of valid data were available after 26 h were filtered out due to recorded weather conditions or set-up/take-down. This includes two hours during which average hourly wind speeds were marginal (4.13 m/s; July 17, 9 - 10 pm and 11 pm – 12 am; Appendix B), but an ongoing wind event was evident in sound recordings and in the data profile (Figure 9)). For event 2 (August 7 - 11), 23 h of valid data were available after 69 h were filtered out due to recorded weather conditions or set-up/take-down. For event 3 (August 19 – 22), 43 h of valid data were available after 26 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 7. In all cases, the design targets and maximum FEIS predictions were met.

Weather data and hourly  $L_{eq}$  values for both events are provided in Appendix B.

Noise sources noted in the field log or identified in sound recordings for this location include wind, traffic, human activity, and animals.

**Table 7. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R4.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 58 – 63 dBA</i>
2025-07-17	44.0	44.6	44.2
2025-08-07	38.1	38.2	38.2
2025-08-19	40.7	39.7	40.4

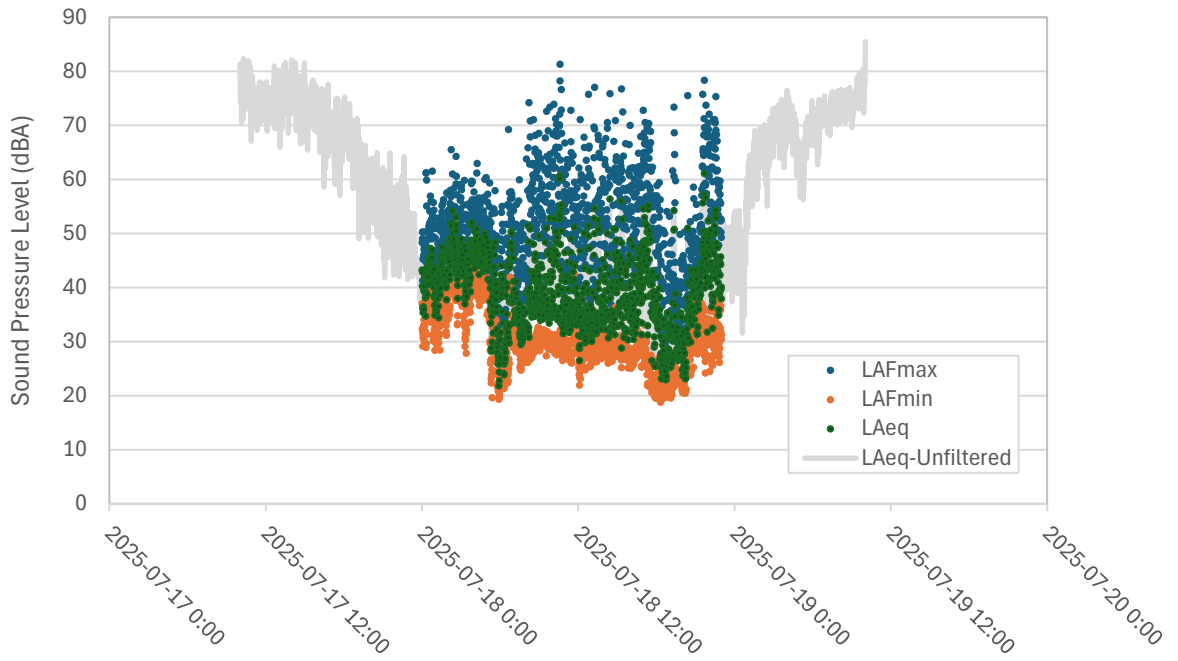


Figure 9. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R4 during monitoring event 1.

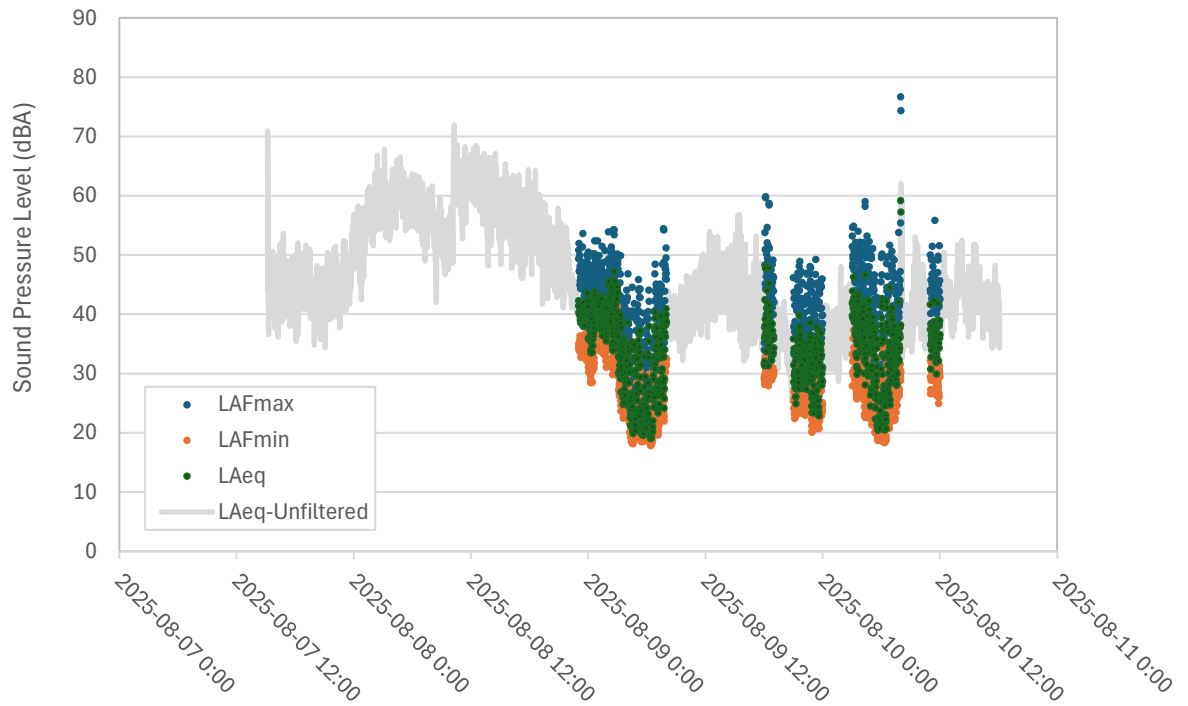
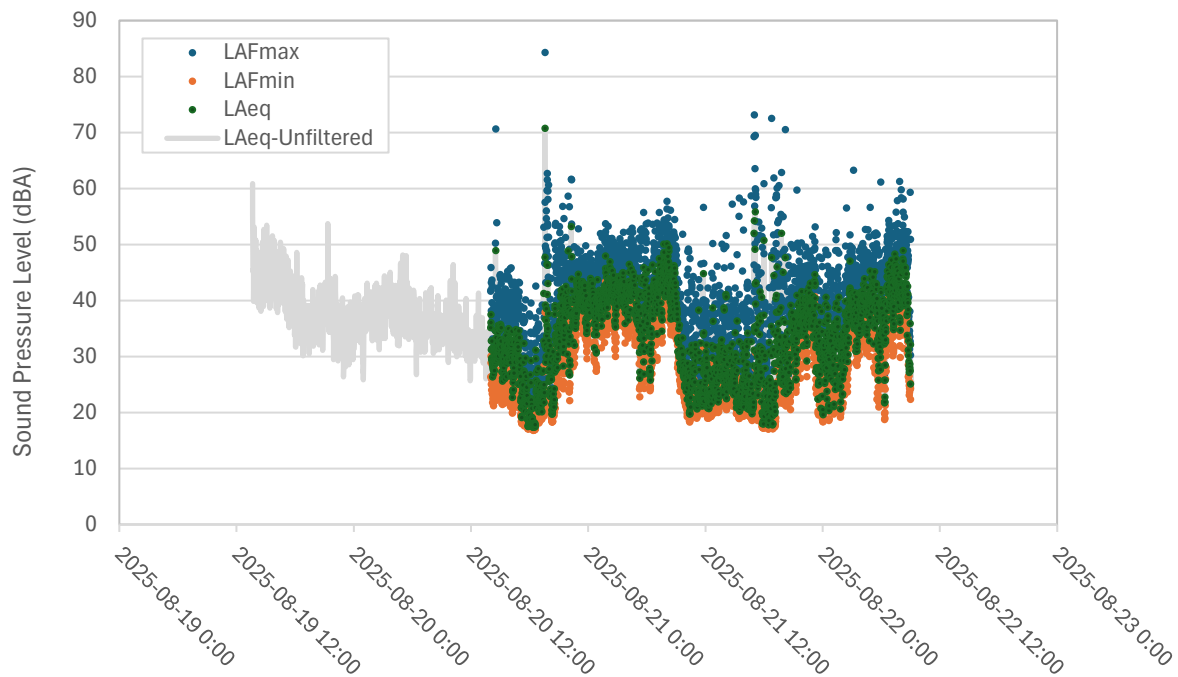


Figure 10. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R4 during monitoring event 2.



**Figure 11. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R4 during monitoring event 3.**

### 3.5 R5

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during the monitoring events at R5 are shown in Figures 12 and 13. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $L_{Aeq}$ -unfiltered).

For monitoring event 1 (July 24 – 26), 18 h of valid data were available after 39 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

For monitoring event 2 (August 19 – 22), 42 h of valid data were available after 31 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 8. In all cases, site design targets were met. In event 2, the maximum predicted 1 h  $L_{eq}$  value of 57 dBA was exceeded in one hour of the 31 h dataset (7 -8 pm on August 20). Review of the data and sound recordings indicated this was caused by an aircraft flyover, which lasted less than 2 minutes. Aircraft were not included in FEIS noise models because of their infrequent occurrence and short duration, so this datapoint is not considered suitable for direct comparison to the FEIS prediction. If the associated sound peak is filtered out, the FEIS prediction is not exceeded.

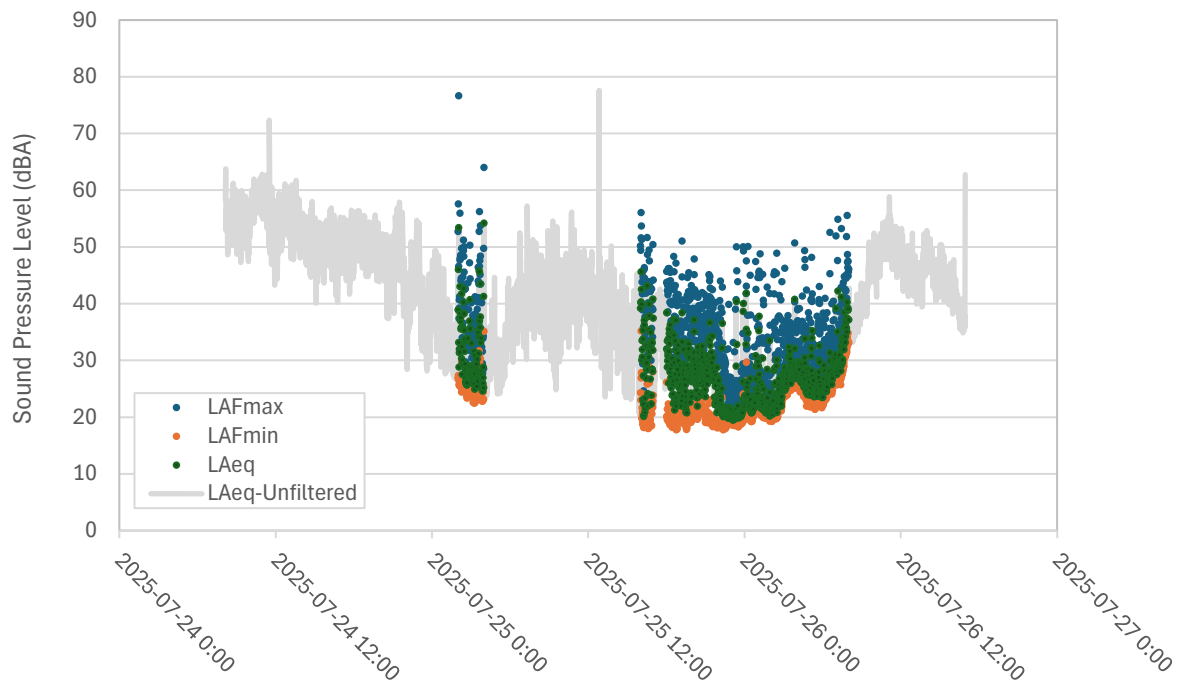
Weather data and hourly  $L_{eq}$  values for both events are provided in Appendix B.

Noise sources noted in the field log or identified in sound recordings for this location include aircraft, human activity, wildlife, and traffic.

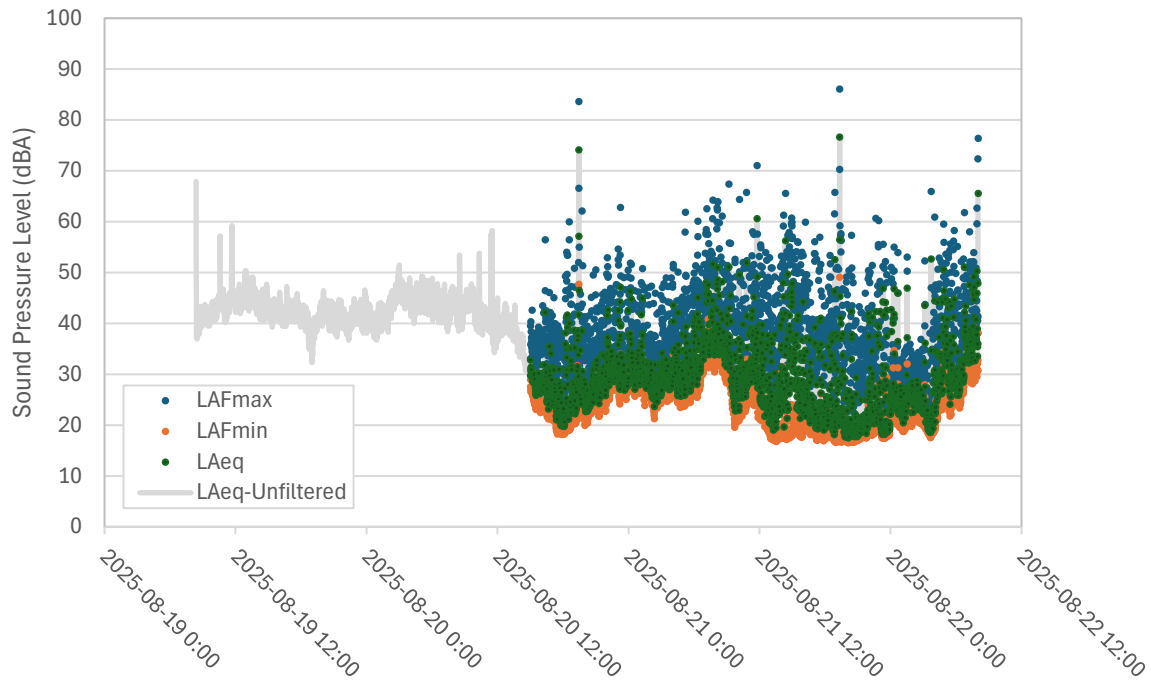
**Table 8. Daytime, night-time, and max 1-h  $L_{eq}$  values for monitoring location R5.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)	Max $L_{eq, 1h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	-	<i>FEIS Prediction: 57 dBA</i>
2025-07-24	31.8	30.4	31.2	38.7
2025-08-19	46.4	34.3	44.7	(58.9)^

^ $L_{eq}$  elevated due to helicopter flyovers; not suitable for direct comparison to FEIS prediction (see text).



**Figure 12. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R5 during monitoring event 1.**



**Figure 13. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R5 during monitoring event 2.**

### 3.6 R6

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during monitoring events 1 and 2 at R6 are shown in Figure 14 and 15. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $L_{Aeq}$ -unfiltered).

For event 1 (July 17 - 19), 27 h of valid data were available after 22 h were filtered out due to recorded weather conditions or set-up/take-down. For event 2 (August 16 - 18), 41 h of valid data were available after 11 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

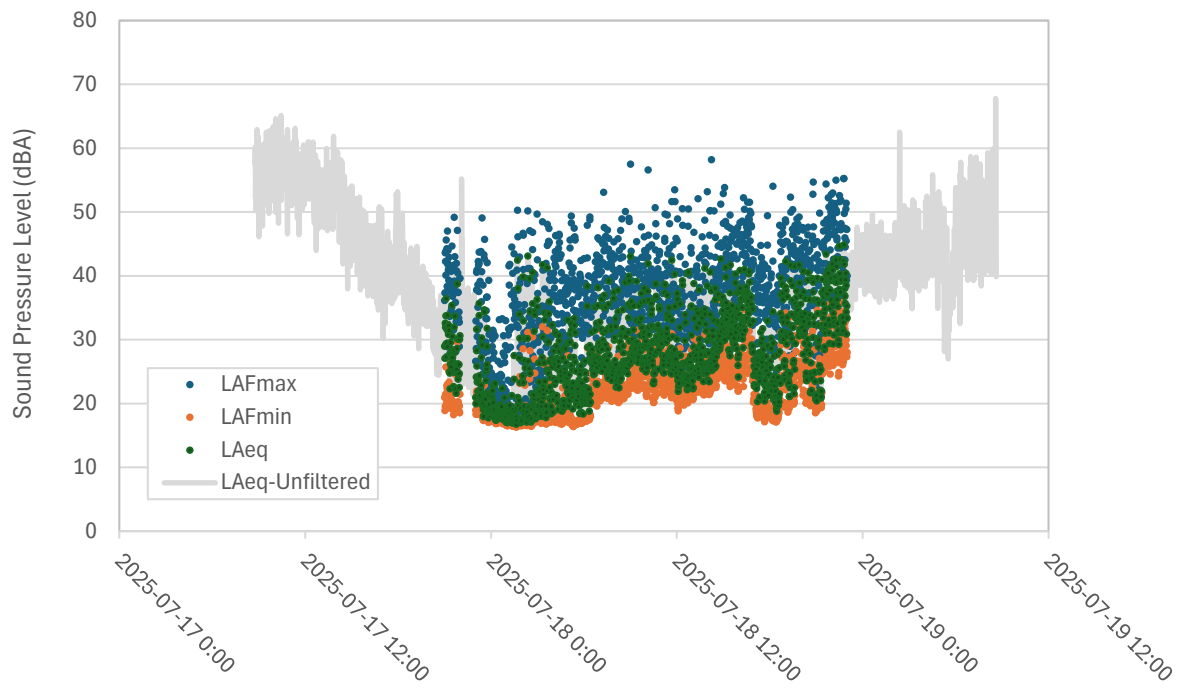
Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 9. In all cases, site design targets and maximum FEIS predictions were met.

Weather data and hourly  $L_{eq}$  values are provided in Appendix B.

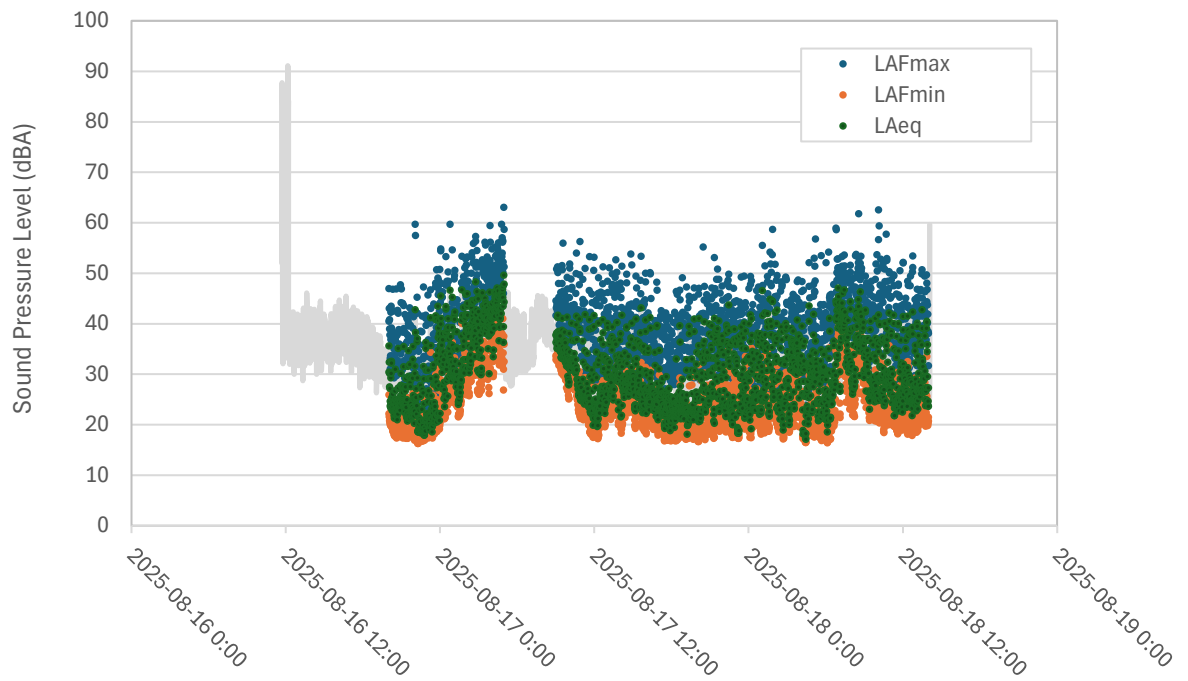
Noise sources noted in the field log at this location include traffic, wind, and animals.

**Table 9. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R6.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 40.5 - 42.5 dBA</i>
2025-07-17	34.7	27.9	32.3
2025-08-16	33.9	37.6	35.5



**Figure 14. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R6 during monitoring event 1.**



**Figure 15. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R6 during monitoring event 2.**

### 3.7 R7

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during monitoring events 1 and 2 at R7 are shown in Figures 16 and 17. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $LA_{eq-unfiltered}$ ).

For event 1 (June 29 – July 2), 43 h of valid data were initially available after 33 h were filtered out due to recorded weather conditions or set-up/take-down. The FEIS prediction (40.4 dBA) was initially exceeded (44.4 dBA) so recorded data and sound files were investigated further. For the time period of 9 pm June 30 – 9 am July 1, hourly  $L_{eq}$  values exceeded the FEIS prediction. During this time, wind interference was audible in sound recordings, with no mine-related noise. While the Whale Tail Mine weather station recorded wind speeds < 4.17 m/s during this period, the Meadowbank Mine weather station recorded elevated winds (6 - 7 m/s). Further, recorded  $L_{90}$  values during this period exceeded 30 dBA, the assumed background noise level, with recorded values up to 46 dBA. Therefore, on the basis of apparent localized elevated winds during this event, a further 12 h were filtered from the dataset (as indicated in in Appendix B). The remaining available data was used to calculate final daytime, night-time, and 24-h  $L_{eq}$  values.

For event 2 (August 12 - 15), 69 h of valid data were available after 3 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary data filtering was required.

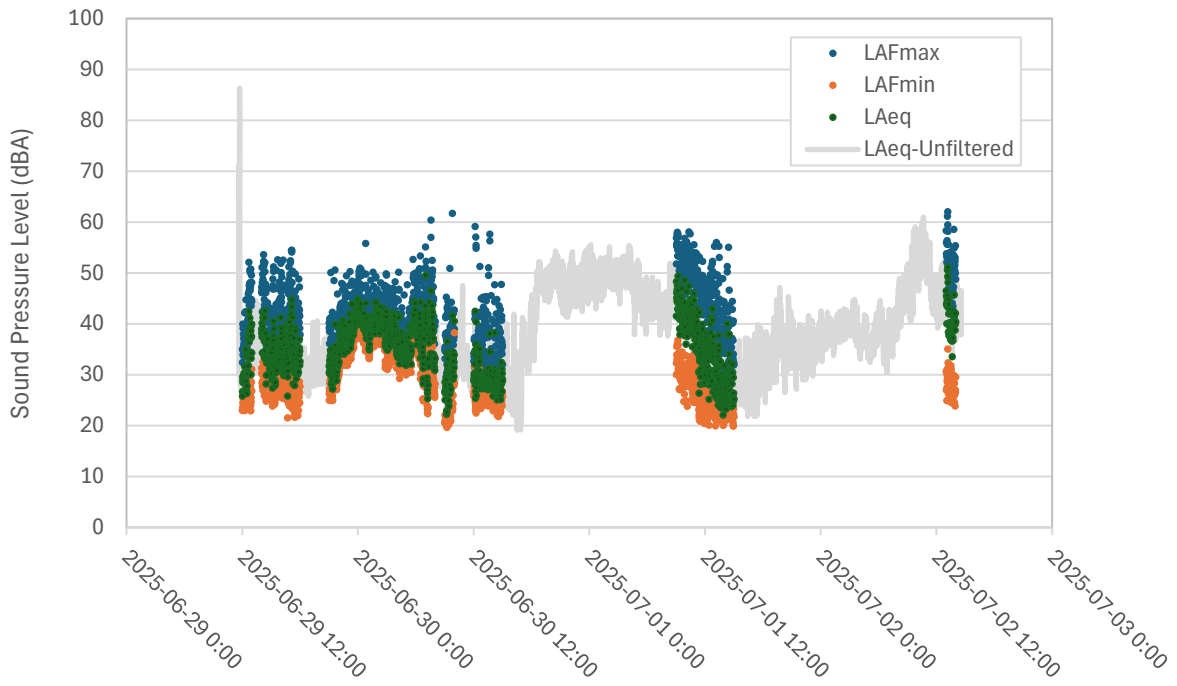
Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 10. In all cases, site design targets and maximum FEIS predictions were met.

Weather data and hourly  $L_{eq}$  values are provided in Appendix B.

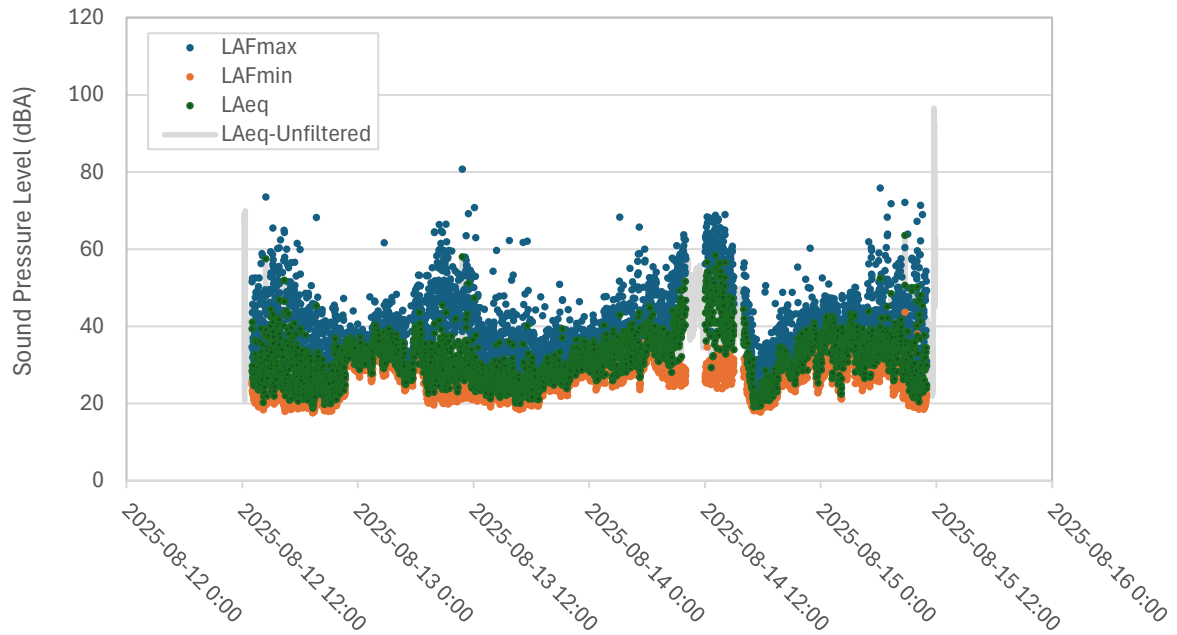
Noise sources noted in the field log or identified in sound recordings at this location include wind, insects, animals and traffic.

**Table 10. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R7.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 36.2 - 40.4 dBA</i>
2025-06-29	37.4	39.5	38.3
2025-08-12	39.7	35.5	38.7



**Figure 16. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R7 during monitoring event 1.**



**Figure 17. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R7 during monitoring event 2.**

### 3.8 R8A

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during monitoring events 1 and 2 at R8a are shown in Figures 18 and 19. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $LA_{eq}$ -unfiltered).

For monitoring event 1 (June 22 - 24), 44 h of valid data were available after 2 h were filtered out due to weather conditions or set-up/take-down. No secondary filtering was required.

For event 2 (July 3 - 5), 44 h of valid data were available after 11 h were filtered out due to recorded weather conditions or set-up/take-down. The FEIS prediction (40.4 dBA) was initially exceeded (47.9 dBA) so recorded data and sound files were investigated further. For the time period of 8 am on July 4 to 12 pm on July 5, hourly  $L_{eq}$  values exceeded the prediction. During this time, wind interference was audible in sound recordings, with no mine-related noise. While the Whale Tail Mine weather station recorded wind speeds < 4.17 m/s during this period, the Meadowbank Mine weather station recorded elevated winds (4.5 - 10 m/s). Further, recorded  $L_{90}$  values during this period exceeded 30 dBA, the assumed background noise level, with recorded 1-min values up to 47 dBA. Therefore, on the basis of apparent localized wind interference during this event, a further 23 h were filtered from the dataset (as indicated in in Appendix B). The remaining available data was used to calculate final daytime, night-time, and 24-h  $L_{eq}$  values.

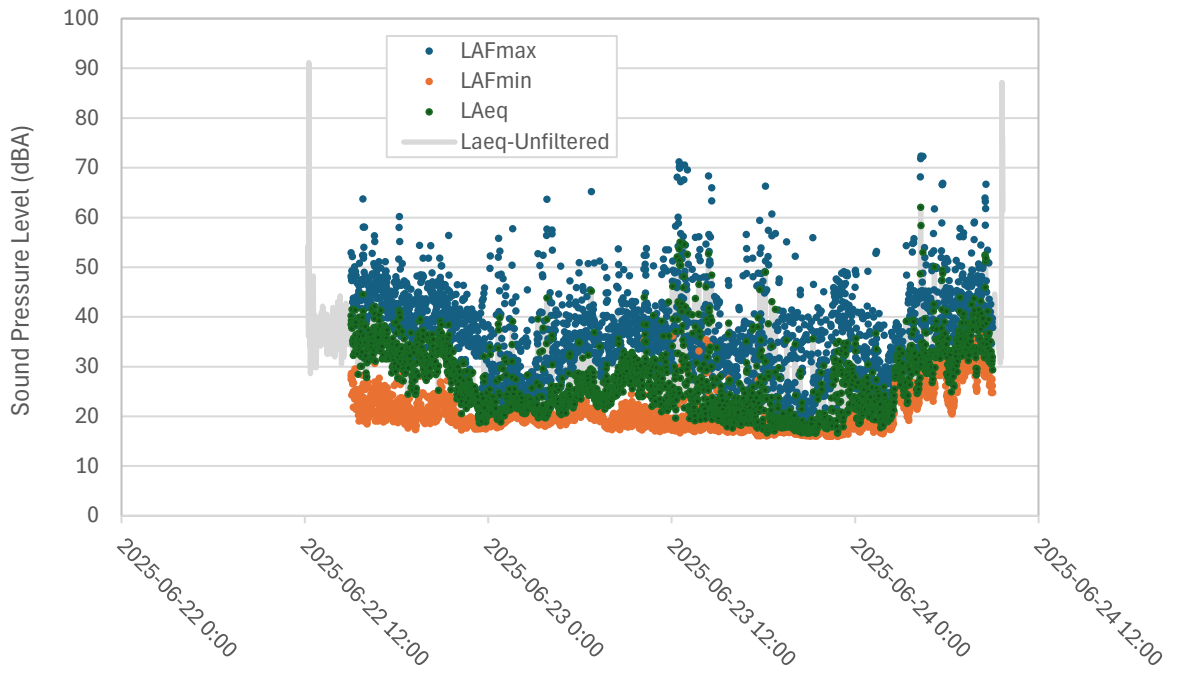
Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 11. Results did not exceed the site's day-time and night-time sound targets or the maximum FEIS prediction for this monitoring station.

Weather data and hourly  $L_{eq}$  values for both events are provided in Appendix B.

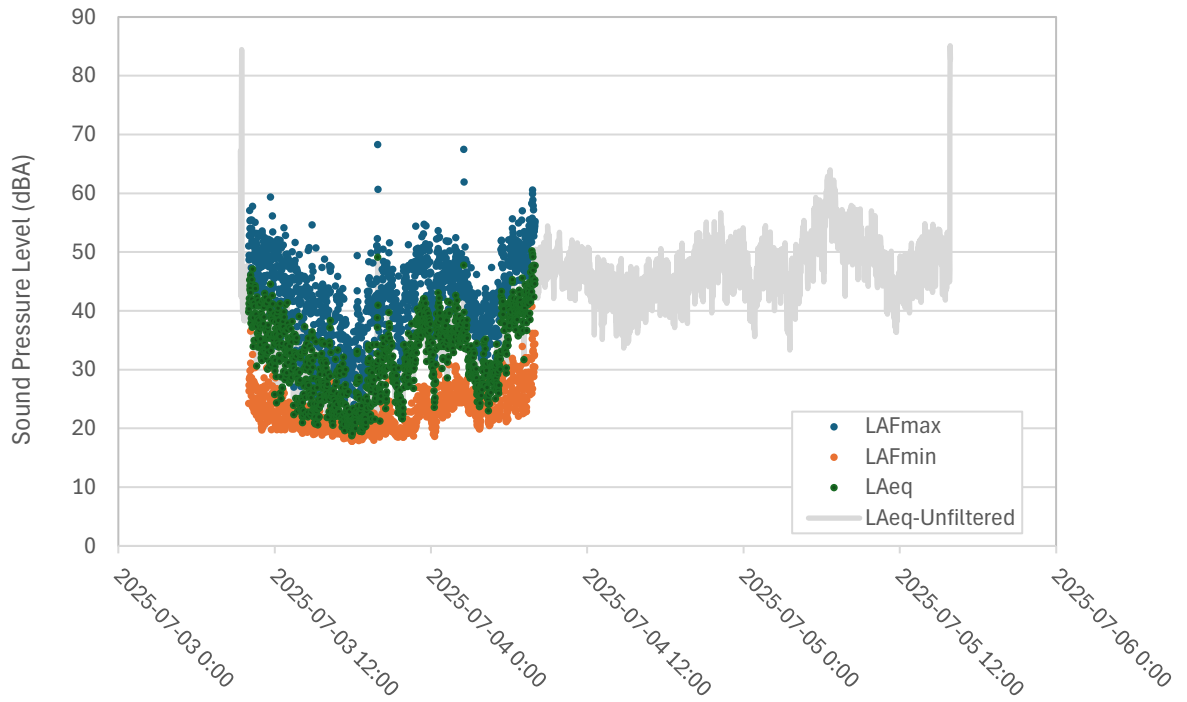
Noise sources noted in the field log or identified in sound recordings for this location include wind, traffic, animals, and helicopters.

**Table 11. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R8a.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 36.2 - 40.4 dBA</i>
2025-06-22	36.3	36.0	36.2
2025-07-03	34.3	37.0	35.5



**Figure 18. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R8a during monitoring event 1.**



**Figure 19. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R8a during monitoring event 2.**

### 3.9 R9A

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during monitoring events 1, 2, and 3 at R9a are shown in Figure 20 - 22. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $LA_{eq}$ -unfiltered).

For event 1 (June 22 - 24), 43 h of valid data were available after 4 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

For event 2 (July 3 - 5), 43 h of valid data were available after 13 h were filtered out due to recorded weather conditions or set-up/take-down. The FEIS prediction (45.1 dBA) was initially exceeded for all hours (up to 75 dBA) so recorded data and sound files were investigated further. Wind interference was audible in sound recordings, with no mine-related noise. While the Whale Tail Mine weather station recorded wind speeds < 4.17 m/s during this period, the Meadowbank Mine weather station recorded elevated winds up to 10 m/s during most of the monitoring event. Further,  $L_{90}$  values throughout the event also exceeded 30 dBA, the assumed background noise level, with recorded 1-min values up to 75 dBA. Therefore, on the basis of apparent localized wind interference throughout this event, all remaining datapoints were filtered out. A third monitoring event was therefore conducted.

For event 3 (August 12 – 15), 69 h of valid data were available after 3 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 12. All results were less than site noise targets and FEIS predictions.

Weather data and hourly  $L_{eq}$  values for the monitoring events are provided in Appendix B.

Noises noted in the field log or identified in sound recordings for this location include wind, animals and helicopters.

**Table 12. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R9a.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 40.4 - 45.1 dBA</i>
2025-06-22	37.9	38.3	38.0
2025-07-03	-	-	-
2025-08-12	32.6	25.3	31.2

Note: During the July 3 survey, all data was filtered out due to recorded weather conditions.

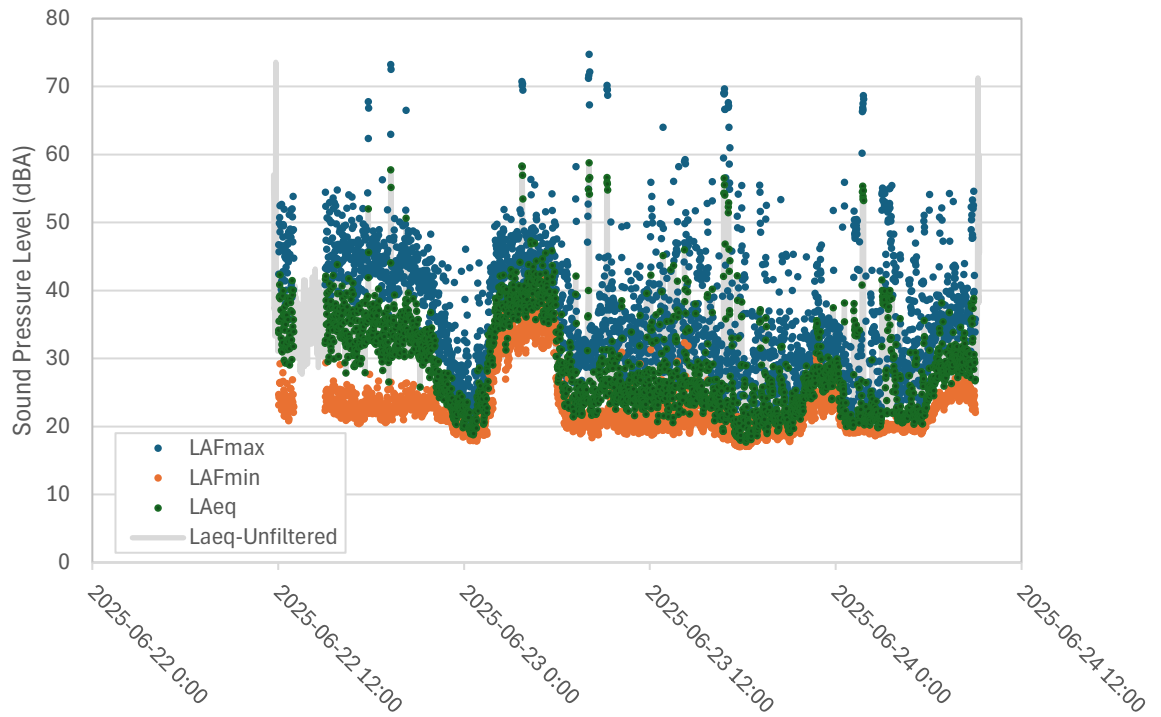


Figure 20. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R9a during monitoring event 1.

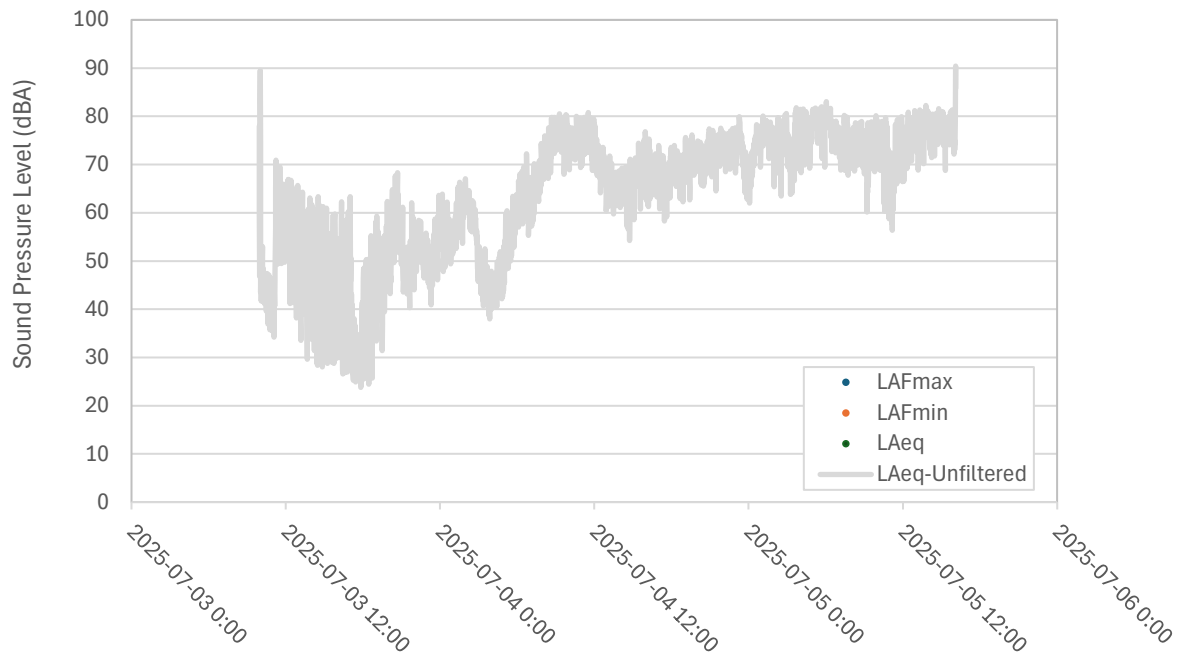
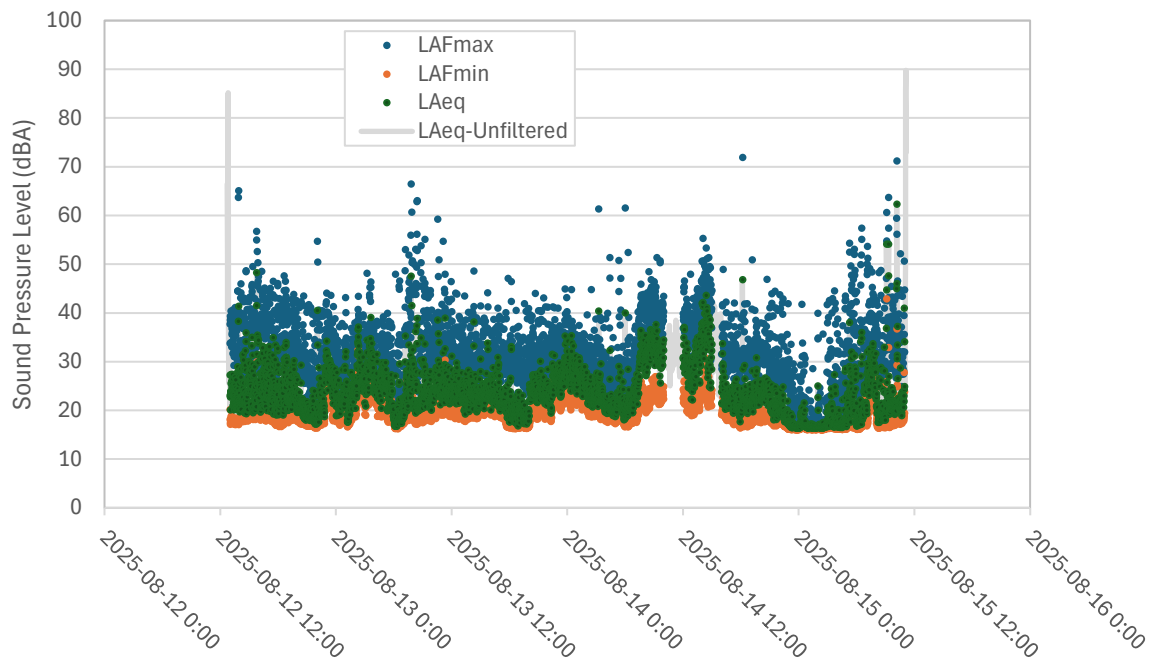


Figure 21. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R9a during monitoring event 2. All data was filtered out due to high winds.



**Figure 22. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R9a during monitoring event 3.**

### 3.10 R10A

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during monitoring events 1, 2, and 3 at R10a are shown in Figures 23 - 25. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $L_{Aeq}$ -unfiltered).

For event 1 (June 18 - 21), 59 h of valid data were initially available after 13 h were filtered out due to recorded weather conditions or set-up/take-down. For this event, the FEIS prediction (40.4 dBA) was initially exceeded (41.1 dBA) so recorded data and sound files were investigated further. Based on field logs and weather station data, a significant period of rain occurred, and 42 h were excluded from further analysis on this basis. In addition, for the time period of 10 am to 10 pm on June 20, hourly  $L_{eq}$  values exceeded the FEIS prediction, and wind interference was audible in sound recordings, with no mine-related noise. While the Whale Tail Mine weather station recorded wind speeds < 4.17 m/s during this period and data was not initially filtered out, the Meadowbank Mine weather station recorded elevated winds (4.4 – 9.6 m/s). Further, recorded  $L_{90}$  values throughout this period exceeded 30 dBA, the assumed background noise level. Therefore, on the basis of apparent localized elevated wind speeds during this event, a further 10 h were filtered from the dataset (as indicated in in Appendix B). The remaining available data (13 h) was used to calculate the final daytime  $L_{eq}$ . Insufficient valid data was available to calculate a night-time or 24 h  $L_{eq}$  so a third noise survey was conducted.

For event 2 (July 6 – 9), 36 h of valid data were available after 29 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

For event 3 (July 12 - 14), 22 h of valid data were available after 28 h were filtered out due to recorded weather conditions or set-up/take-down. For this event, the FEIS prediction (40.4 dBA) was initially exceeded (47.9 dBA) so recorded data and sound files were investigated further. When hourly  $L_{eq}$  values exceeded the FEIS prediction, and review of the data indicated wind interference (as described for event 1, above), results were excluded from further analysis. This included 9 h, primarily between 7

am to 5 pm on July 13, as indicated in in Appendix B. The remaining available data (13 h) was used to calculate the final night-time  $L_{eq}$ . Insufficient valid data was available to calculate a day-time or 24 h  $L_{eq}$ .

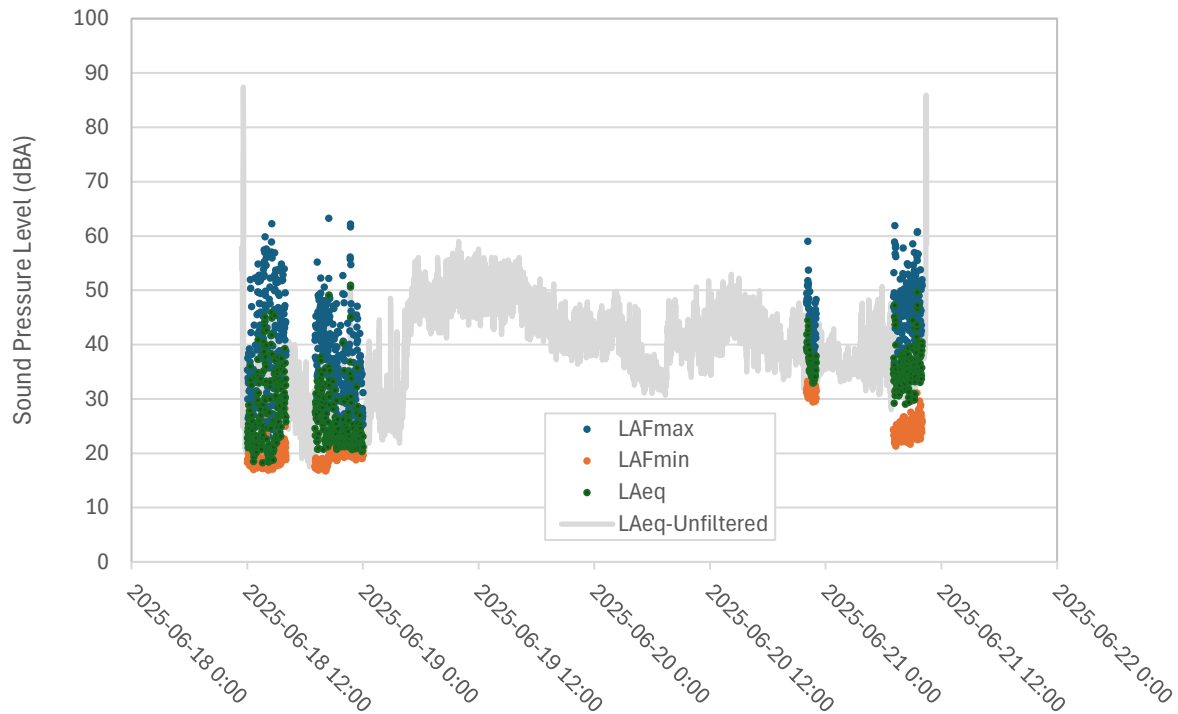
Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 13. In all cases the site noise targets and FEIS predictions were met.

Weather data and hourly  $L_{eq}$  values are provided in Appendix B.

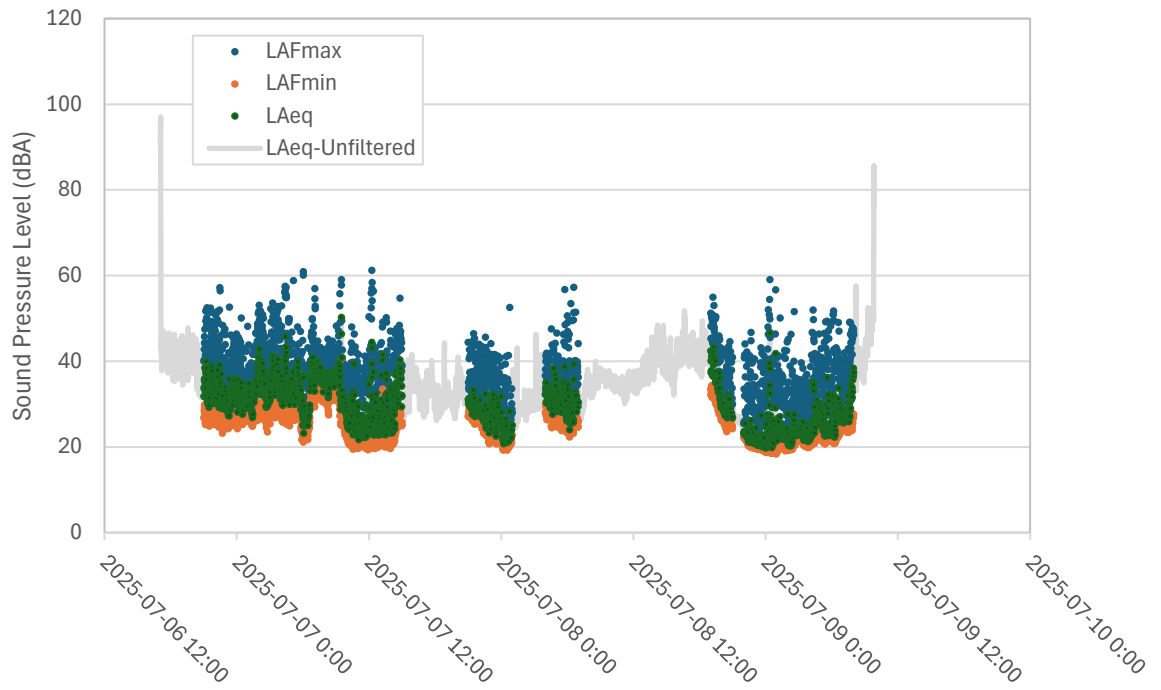
Noise sources noted in the field logs or identified in sound recordings for this location included wind, rain, water/waves, human activity, animals, and helicopters.

**Table 13. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R10a.**

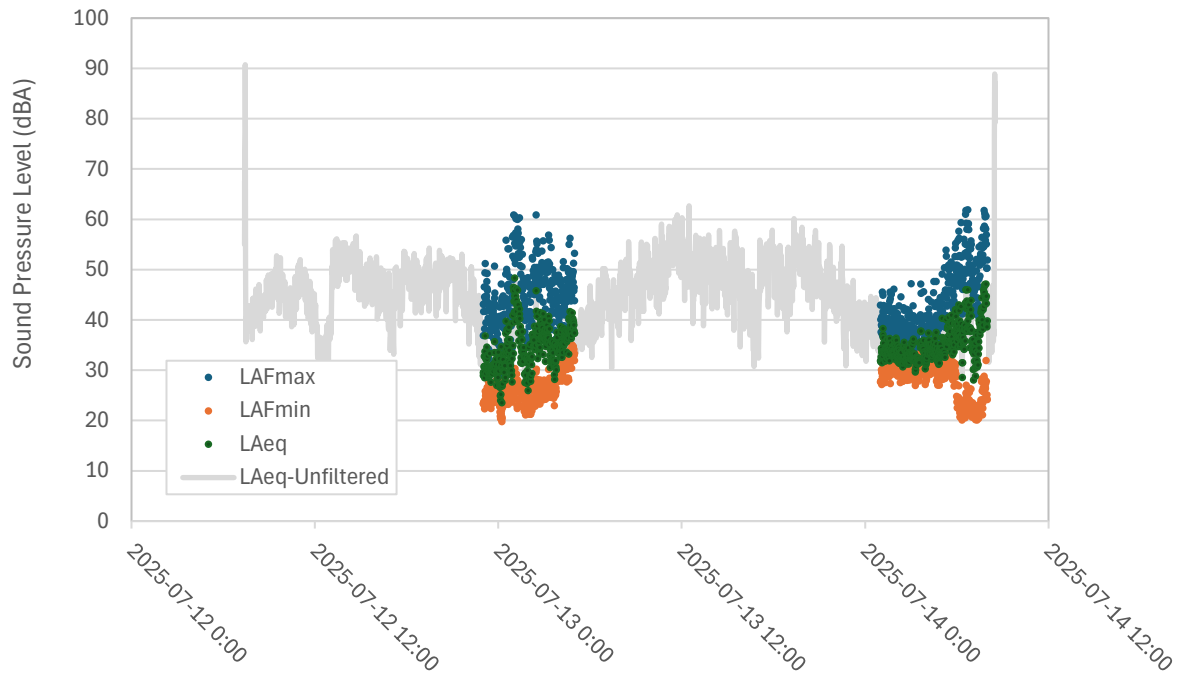
Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 36.2 – 40.4 dBA</i>
2025-06-18	35.2	-	-
2025-07-06	33.1	32.0	32.7
2025-07-12	-	36.7	-



**Figure 23. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R10a during monitoring event 1.**



**Figure 24. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R10a during monitoring event 2.**



**Figure 25. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R10a during monitoring event 3.**

### 3.11 R11A

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during the three monitoring events at R11a are shown in Figure 26 - 28. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $LA_{eq}$ -unfiltered).

For event 1 (June 18 - 21), 24 h of valid data were available after 48 h were filtered out due to recorded weather conditions or set-up/take-down. This includes a 34-h period of rain. No additional filtering was required. Insufficient valid data was available to calculate a night-time or 24-h  $L_{eq}$ , so a third monitoring event was conducted.

For event 2 (June 25 - 26), 19 h of valid data were available after 3 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

For event 3 (July 12 – 14), 22 h of valid data were available after 28 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

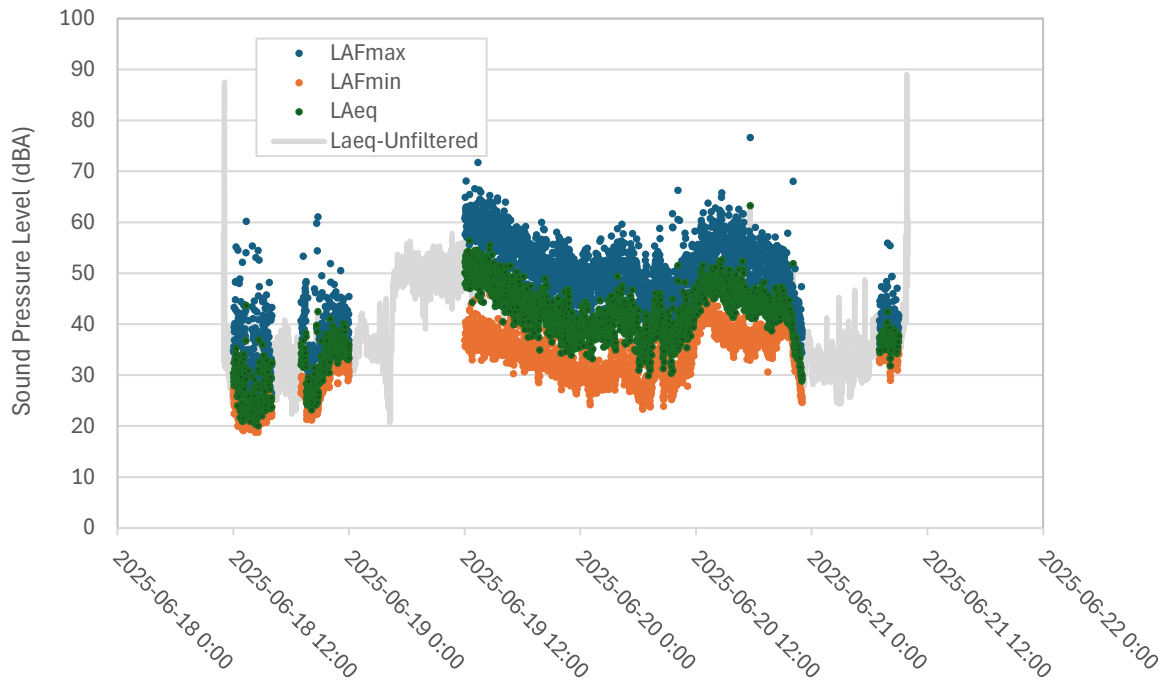
Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 14. In all cases the site noise targets and FEIS predictions were met.

Weather data and hourly  $L_{eq}$  values are provided in Appendix B.

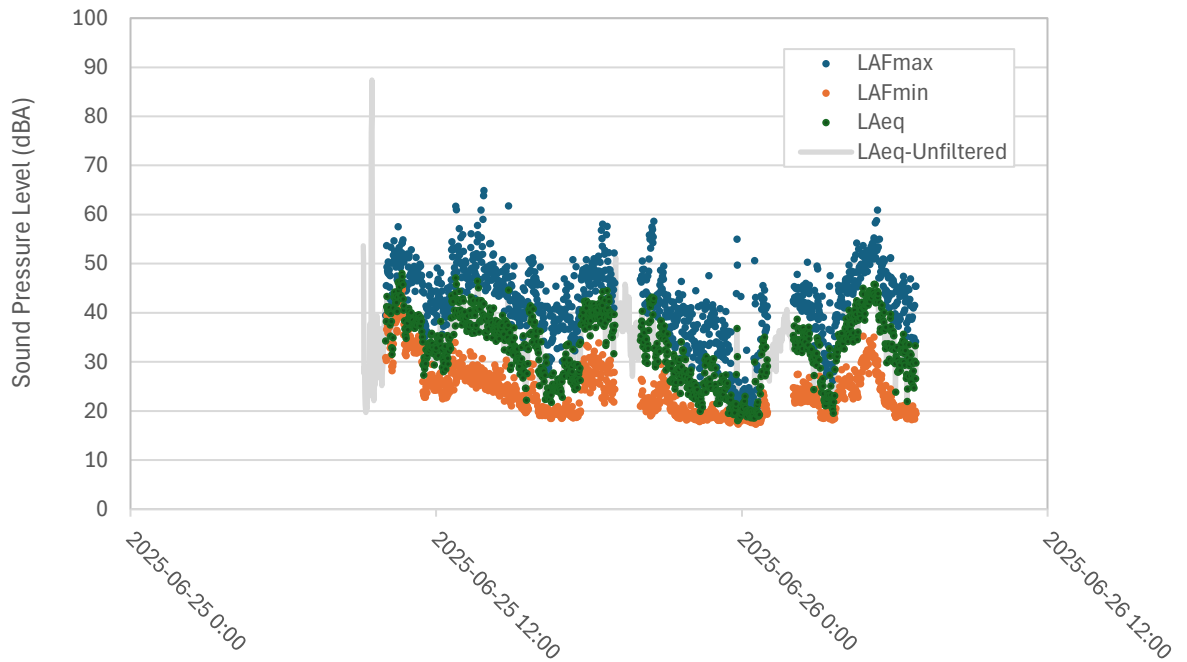
Noise sources noted in the field logs for this location include human activity, helicopters, and animals.

**Table 14. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R11a.**

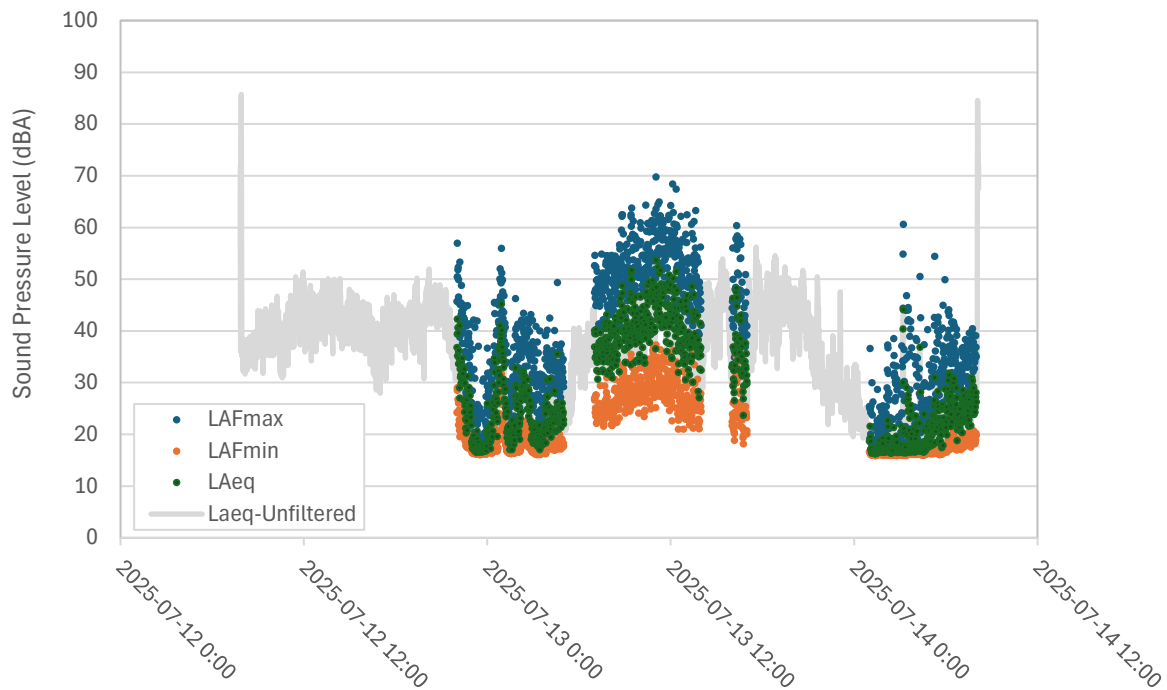
Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>Design Target: 55 dBA</i>	<i>Design Target: 45 dBA</i>	<i>FEIS Prediction: 45.1 – 50.0 dBA</i>
2025-06-18	43.6	-	-
2025-06-25	37.6	36.1	37.1
2025-07-12	42.3	27.1	39.7



**Figure 26. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R11a during monitoring event 1.**



**Figure 27. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R11a during monitoring event 2.**



**Figure 28. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R11a during monitoring event 3.**

### 3.12 R12

Recorded 1-min  $L_{eq}$  values, maximum sound levels ( $L_{max}$ ), and minimum sound levels ( $L_{min}$ ) during the two valid monitoring events at R12 are shown in Figure 29 and 30. One survey was invalidated due to a fallen microphone. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference ( $L_{Aeq}$ -unfiltered).

For event 1 (June 25 - 27), 56 h of valid data were available after 6 h were filtered out due to recorded weather conditions or set-up/take-down. This included 3 h of possible rain, as recorded in daily precipitation logs and cross-referenced with hourly data from the NavCan-operated Baker Lake A climate station.

For event 2 (July 6 - 9), 37 h of valid data were available after 30 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

Final calculated daytime, night-time, and 24-h  $L_{eq}$  values are provided in Table 15. In all cases, FEIS predictions and the permissible sound levels were met.

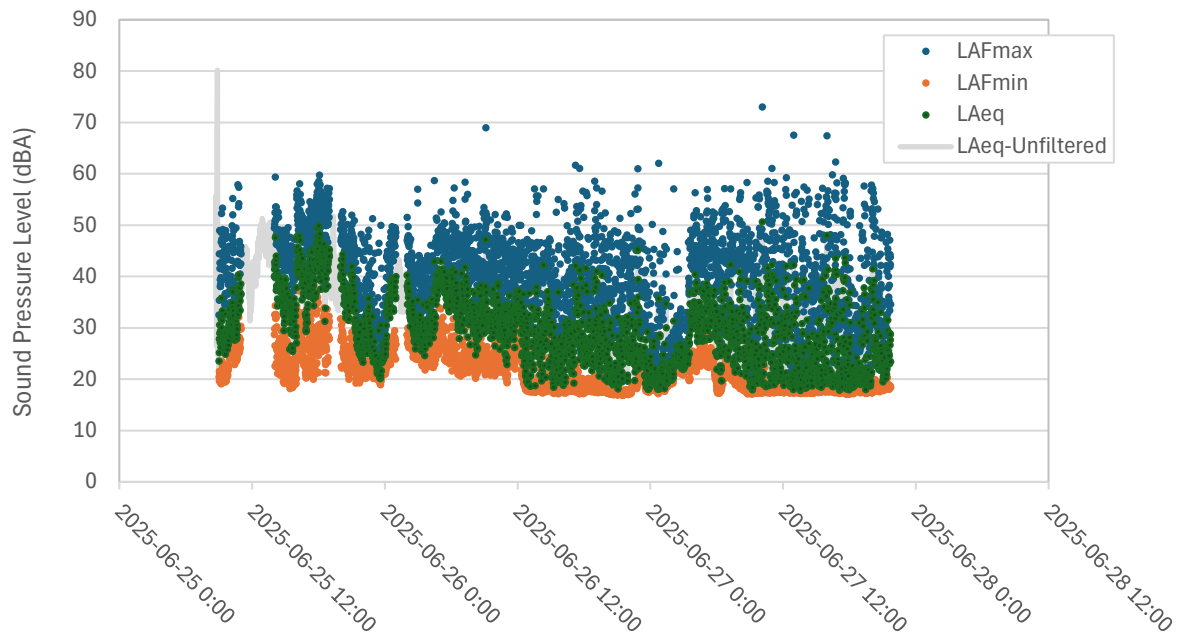
Weather data and hourly  $L_{eq}$  values are provided in Appendix B.

Noise sources noted in the field logs for this location include only animals.

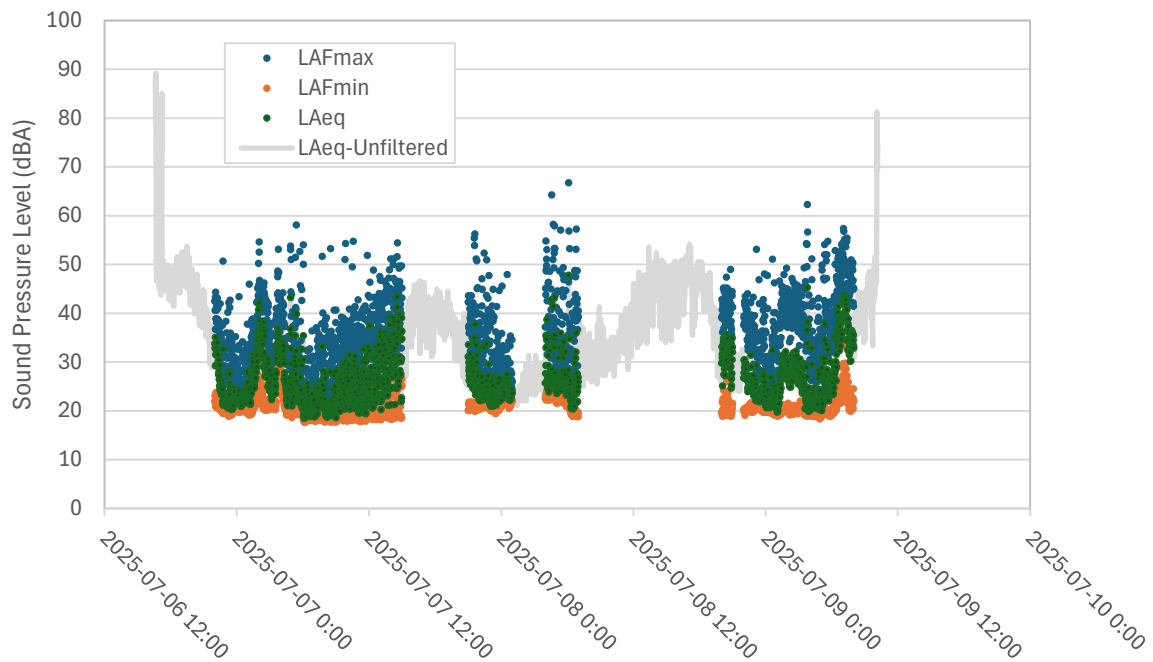
**Table 15. Daytime, night-time, and 24-h  $L_{eq}$  values for monitoring location R12.**

Start Date	$L_{eq, day}$ (dBA)	$L_{eq, night}$ (dBA)	$L_{eq, 24h}$ (dBA)
	<i>PSL: 50 dBA</i>	<i>PSL: 40 dBA</i>	<i>FEIS Prediction: &lt;35 dBA</i>
2025-06-14	-	-	-
2025-06-25	34.5	32.9	34.0
2025-07-06	31.1	29.8	30.6

Note: The June 14 survey was invalidated due to a fallen microphone.



**Figure 29. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R12 during monitoring event 1.**



**Figure 30. 1-min  $L_{eq}$ ,  $L_{max}$  and  $L_{min}$  values recorded at station R12 during monitoring event 2.**

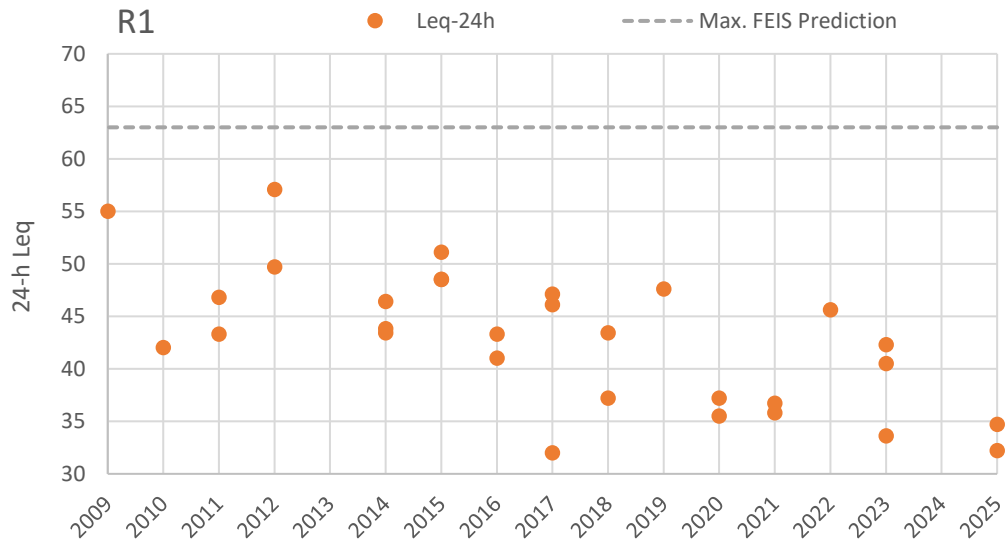
## SECTION 4 • HISTORICAL DATA

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### 4.1 MEADOWBANK SITE

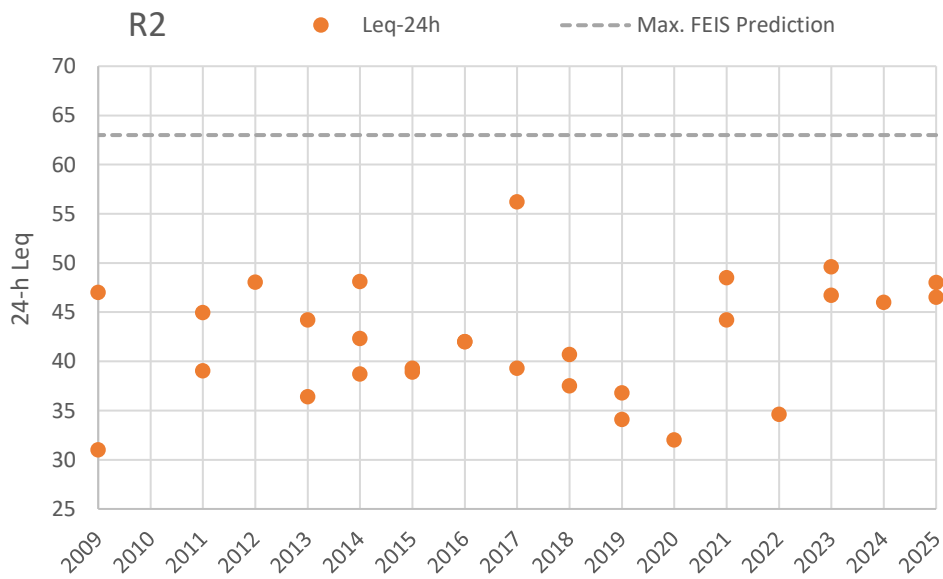
Historical 24-h  $L_{eq}$  measurements (2009 – 2025) for Meadowbank Mine monitoring stations R1 – R5 are shown in Figures 31 - 35 in relation to FEIS (Cumberland, 2005) predictions.

No clear trends towards increasing or unpredicted excess noise levels above FEIS predictions are evident. For all sites except one instance at R4 in 2018, measured 24-h  $L_{eq}$  values have remained below FEIS-modeled sound levels.



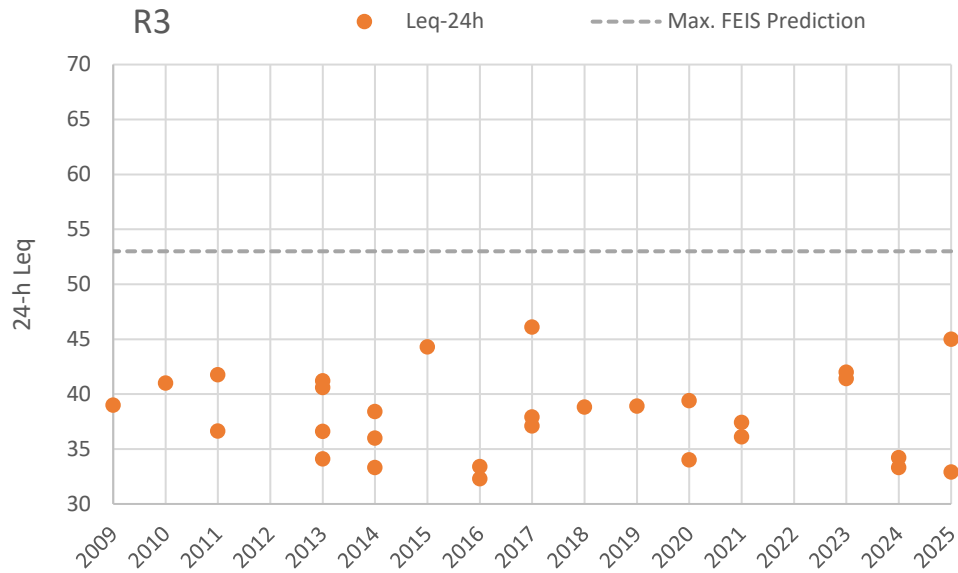
**Figure 31. Historical 24-h  $L_{eq}$  values for monitoring station R1 at the Meadowbank Mine.**

**Notes: No measurement was available for this station in 2013 or 2024.**

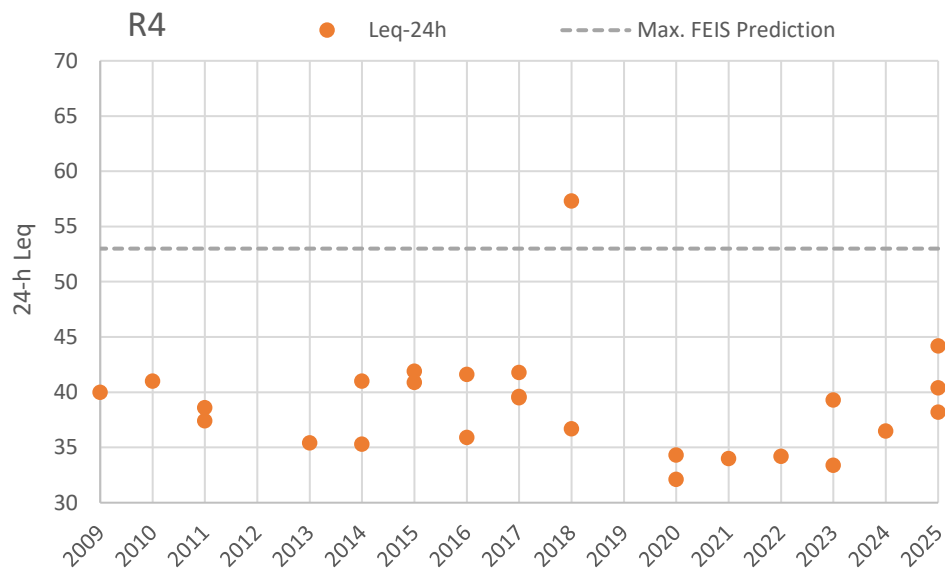


**Figure 32. Historical 24-h  $L_{eq}$  values for monitoring station R2 at the Meadowbank Mine.**

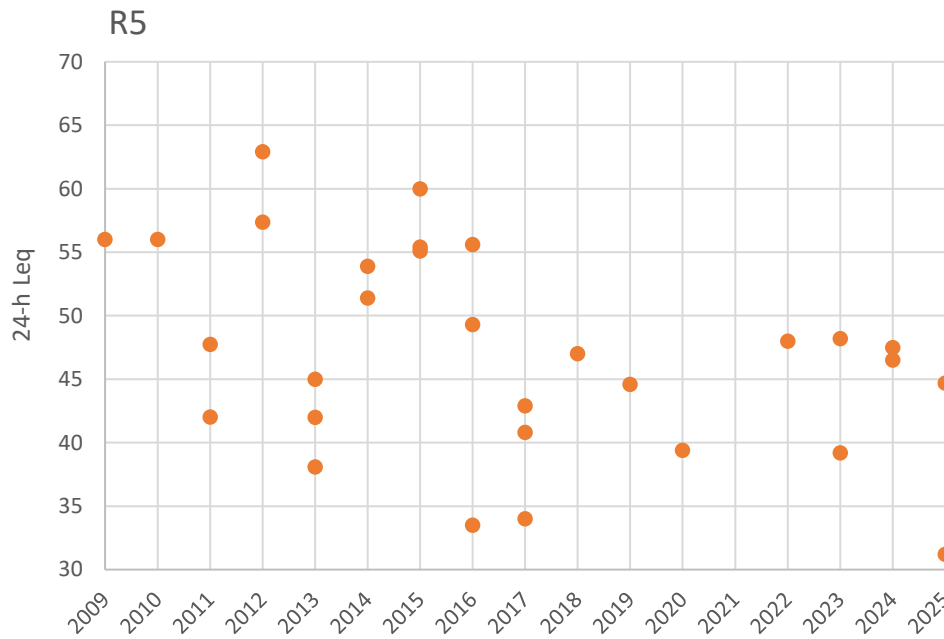
**Note: No measurement was available for this station in 2010.**



**Figure 33. Historical 24-h  $L_{eq}$  values for monitoring station R3 at the Meadowbank Mine.**  
**Note: No measurement was available for this station in 2012 or 2022.**



**Figure 34. Historical 24-h  $L_{eq}$  values for monitoring station R4 at the Meadowbank site.**  
**Note: No measurement was available for this station in 2012 or 2019.**



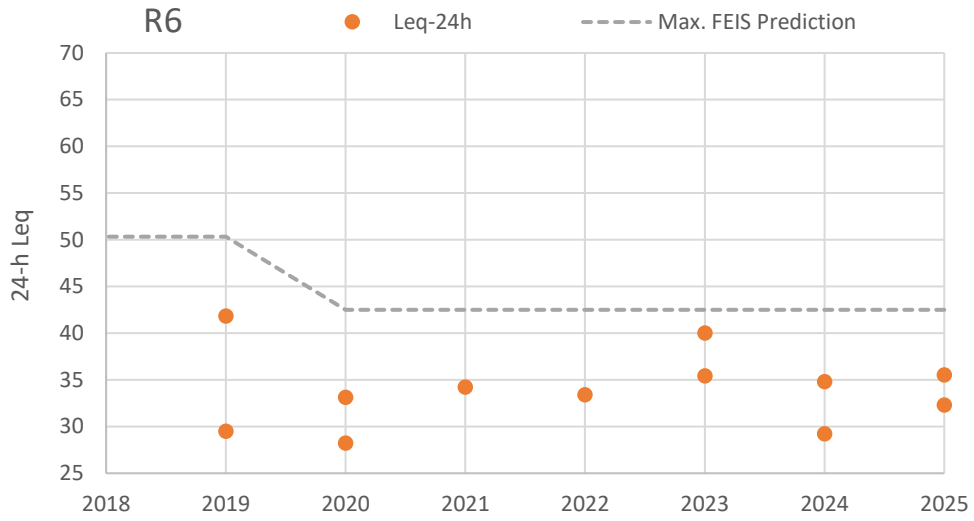
**Figure 35. Historical 24-h  $L_{eq}$  values for monitoring station R5 at the Meadowbank site.**

**Note: No FEIS prediction for the 24-h  $L_{eq}$  is available and no valid measurement was collected in 2021.**

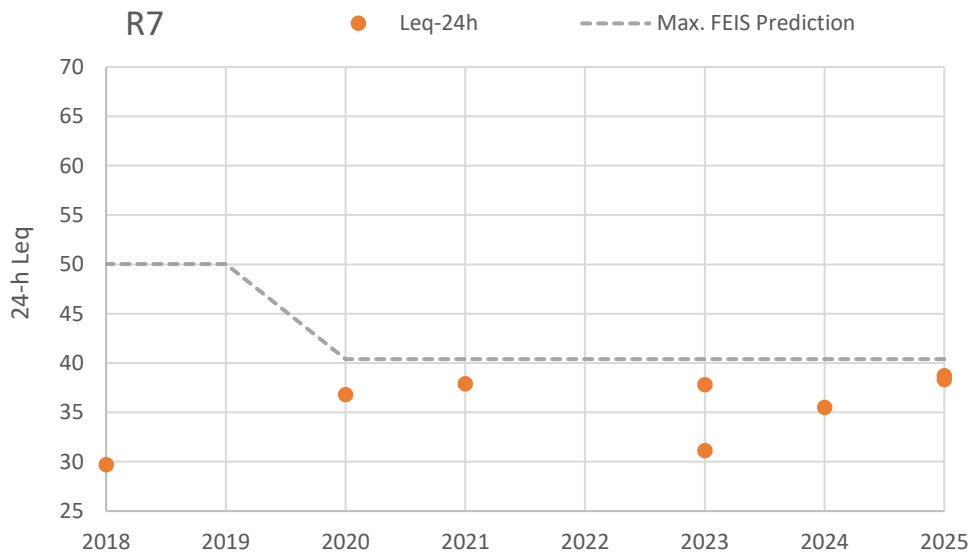
#### 4.2 WHALE TAIL SITE

For stations R6 – R12, available historical results are shown in Figures 36 - 42 along with maximum FEIS predictions for 2018/2019 (Agnico Eagle, 2016), and FEIS Addendum predictions for 2020 onwards (Agnico Eagle, 2018).

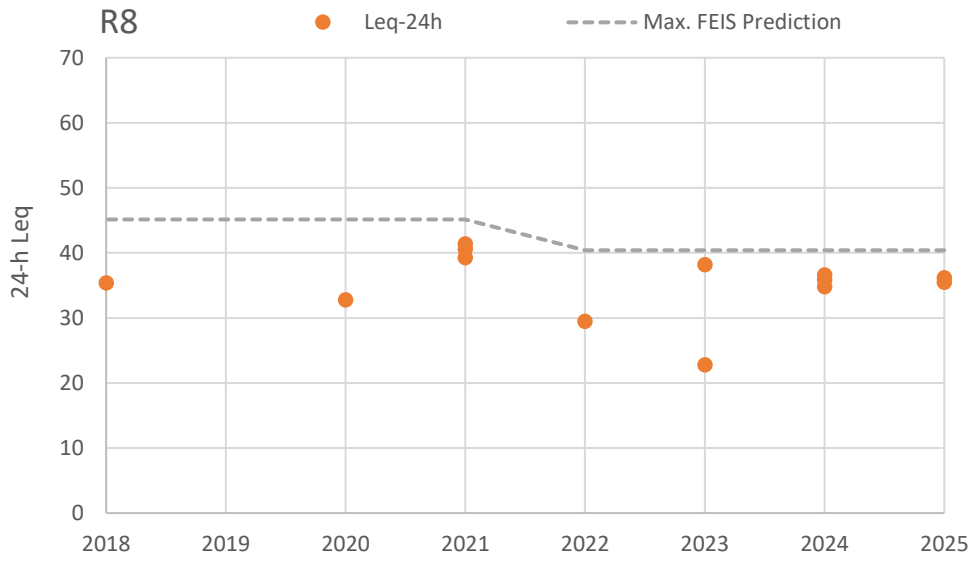
Overall, no clear trends towards unpredicted noise levels above FEIS predictions are evident at this time.



**Figure 36. Historical 24-h  $L_{eq}$  values for monitoring station R6 at the Meadowbank site.**  
**Note: No measurement was available for this station in 2018.**

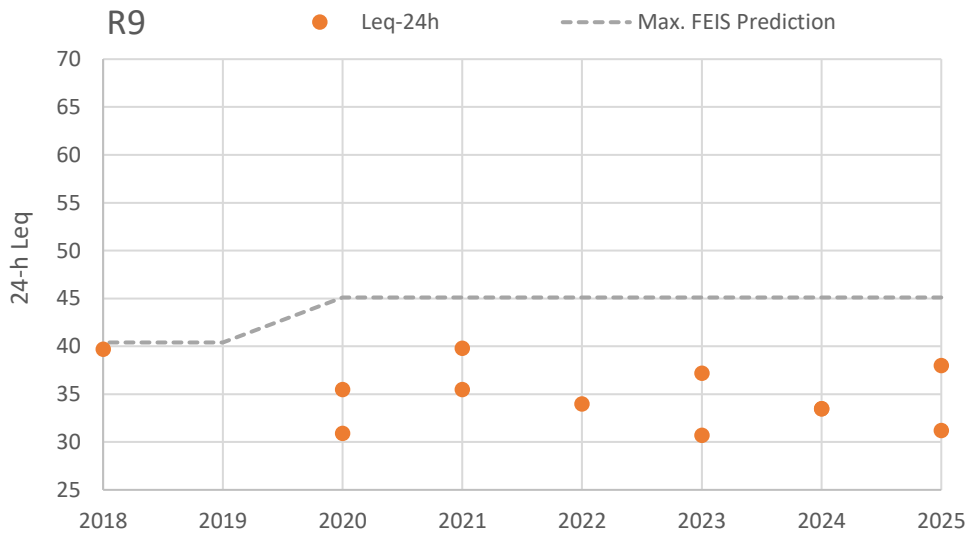


**Figure 37. Historical 24-h  $L_{eq}$  values for monitoring station R7 along the Whale Tail Haul Road.**  
**Note: No measurement was available for this station in 2019 or 2022.**



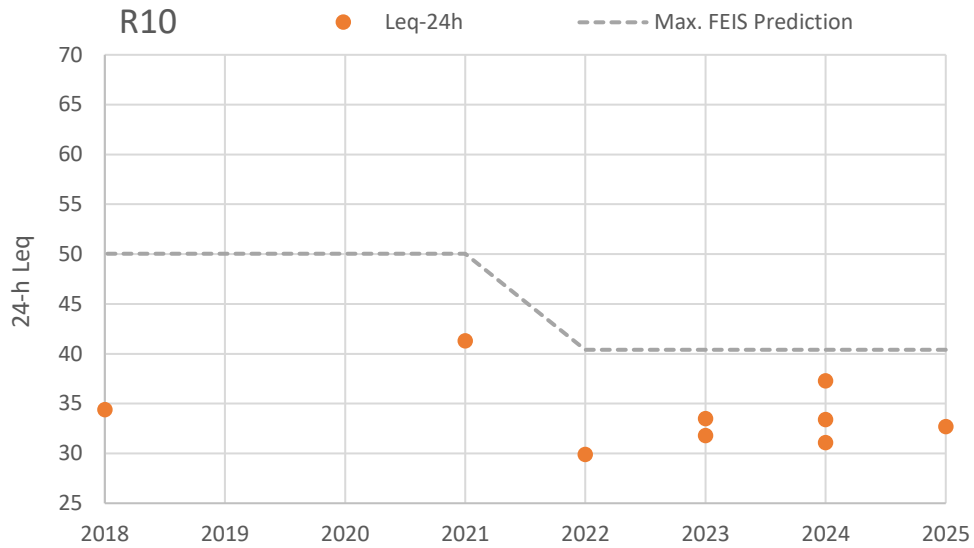
**Figure 38. Historical 24-h  $L_{eq}$  values for monitoring station R8 (2018 – 2021) and R8a (2022+) at the Whale Tail site.**

**Note: No measurement was available for this station in 2019.**



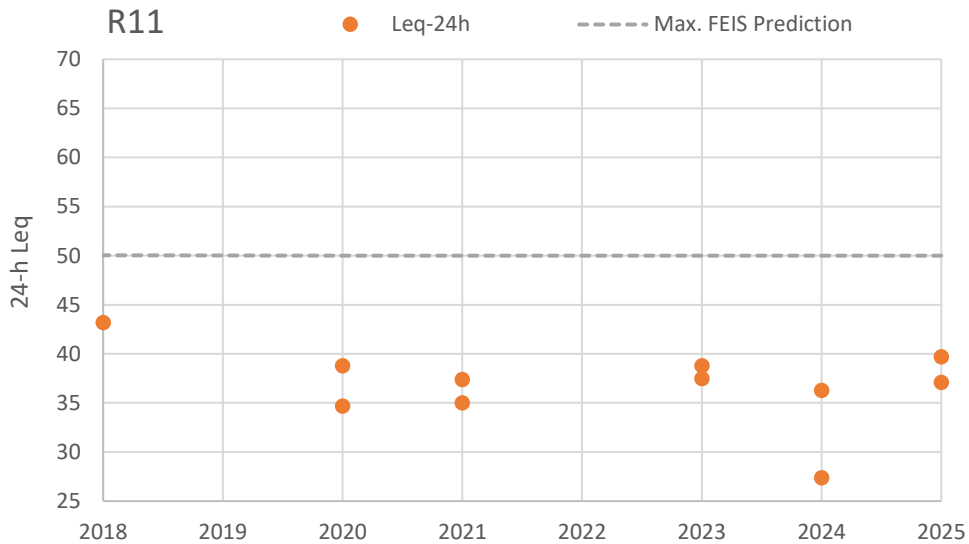
**Figure 39. Historical 24-h  $L_{eq}$  values for monitoring station R9 (2018 – 2021) and R9a (2022+) at the Whale Tail site.**

**Note: No measurement was available for this station in 2019.**



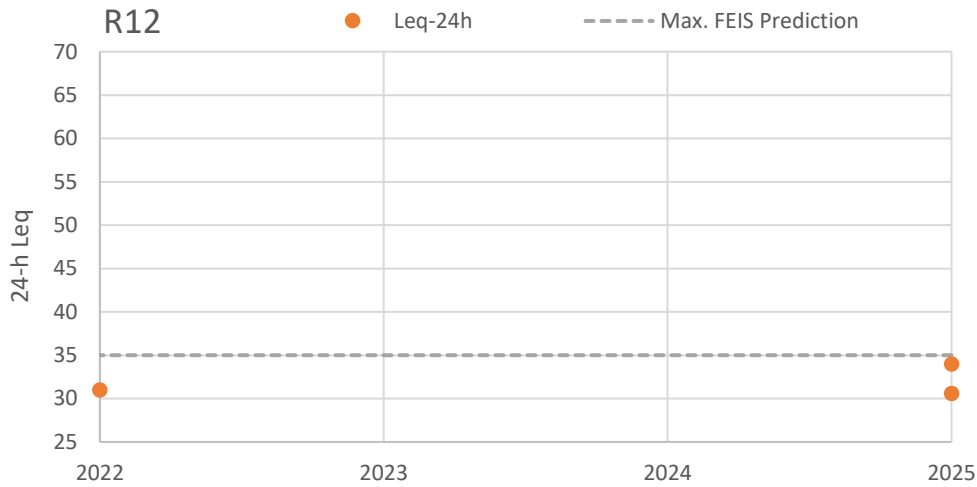
**Figure 40. Historical 24-h  $L_{eq}$  values for monitoring station R10 (2018 – 2021) and R10a (2022+) at the Whale Tail site.**

**Note: No measurement was available for this station in 2019 or 2020.**



**Figure 41. Historical 24-h  $L_{eq}$  values for monitoring station R11 (2018 – 2020) and R11a (2021+) at the Whale Tail Mine.**

**Note: No measurements were available for this station in 2019 or 2022.**



**Figure 42. Historical 24-h  $L_{eq}$  values for far-field monitoring station R12 at the Whale Tail Mine.**

**Note: No measurements were required for this station in 2023 and 2024. One survey was opportunistically conducted in 2023, but insufficient valid data was available to calculate the 24-h  $L_{eq}$ .**

## SECTION 5 • CONCLUSION

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The objective of the noise monitoring program at the Meadowbank Complex is to measure noise levels at 11 previously determined monitoring locations over at least two 24 h periods each year, and periodically at one additional far field monitoring station. To fulfill this objective, Agnico Eagle aims to conduct a minimum of two monitoring events of two or more days per station annually, since high winds in the area tend to substantially reduce the quantity of available valid data.

In 2025, two or three surveys were successfully completed at all 12 stations.

After data processing according to weather conditions, the site's daytime and night-time design targets, permissible sound levels, and FEIS predictions were met for all valid monitoring events. For one of the two surveys at station R5, one hourly  $L_{eq}$  value marginally exceeded the FEIS-predicted maximum (57 dBA). This was caused by a brief (<2 minute) aircraft fly-over. Aircraft were not included in FEIS noise models since they are an occasional occurrence, so this datapoint is not considered valid for direct comparison to the FEIS prediction. If this sound peak is excluded, the FEIS prediction is met. Historical comparisons indicate no clear trends towards increasing sound levels above FEIS predictions for any station.

Based on these results, no changes to noise abatement or mitigation measures are proposed at this time.

## **SECTION 6 • ACTIONS**

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For 2025, new microphone tripods and new batteries were purchased (end 2024) in an attempt to reduce invalidation of monitoring events due to battery failure or fallen tripods. Data handling procedures were also reviewed to reduce potential for data loss post-collection. These actions were successful in reducing the proportion of surveys that were invalidated due to technical difficulties to near zero in 2025.

No additional actions to improve data collection are proposed at this time. Since the FEIS-modeled year of maximum noise emissions has passed (2022), the program will be reviewed in 2026 to evaluate current monitoring locations and frequency of noise surveys.

## **SECTION 7 • REFERENCES**

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Cumberland, 2005. Meadowbank Gold Project Environmental Impact Statement. Cumberland Resources Ltd. October, 2005.

AER (Alberta Energy Regulator), 2023. Directive 038: Noise Control.

AER (Alberta Energy Regulator), 2007. Directive 038: Noise Control.

Agnico Eagle, 2018. Final Environment Impact Statement (FEIS) Addendum - Whale Tail Pit Expansion Project. Volume 4 – Atmospheric Environment. Agnico Eagle Mines Ltd. December, 2018.

Agnico Eagle, 2016. Final Environment Impact Statement (FEIS) for the Whale Tail Pit Project. Volume 4 – Atmospheric Environment. Agnico Eagle Mines Ltd. May, 2016.

## **APPENDIX A**

### **Site Photos**

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Figure -ApX 1: Monitoring location R1 (June 24, 2025).



Figure -ApX 2: Monitoring location R2 (June 20, 2025).



Figure -Apx 3: Monitoring location R3 (August 3, 2025).

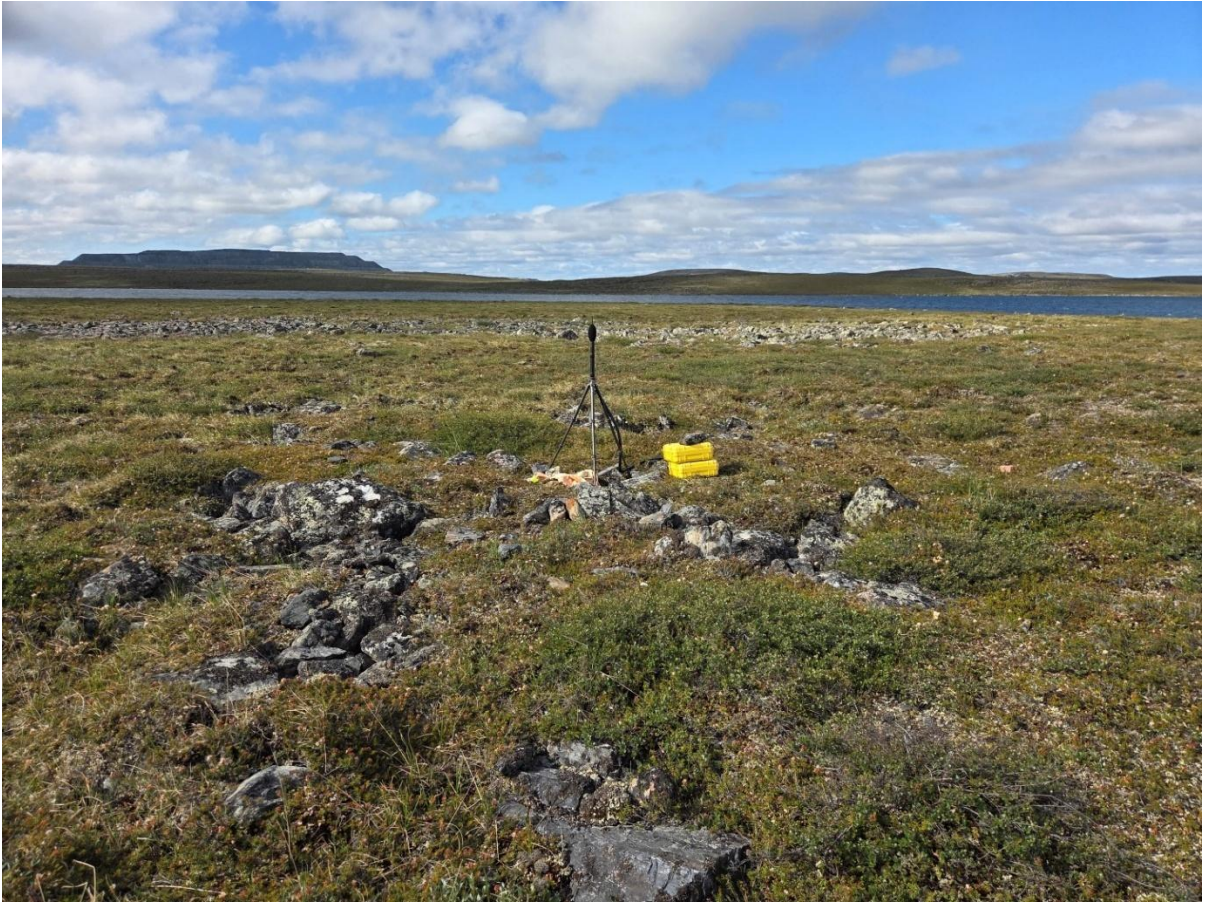


Figure -ApX 4: Monitoring location R4 (July 17, 2025).

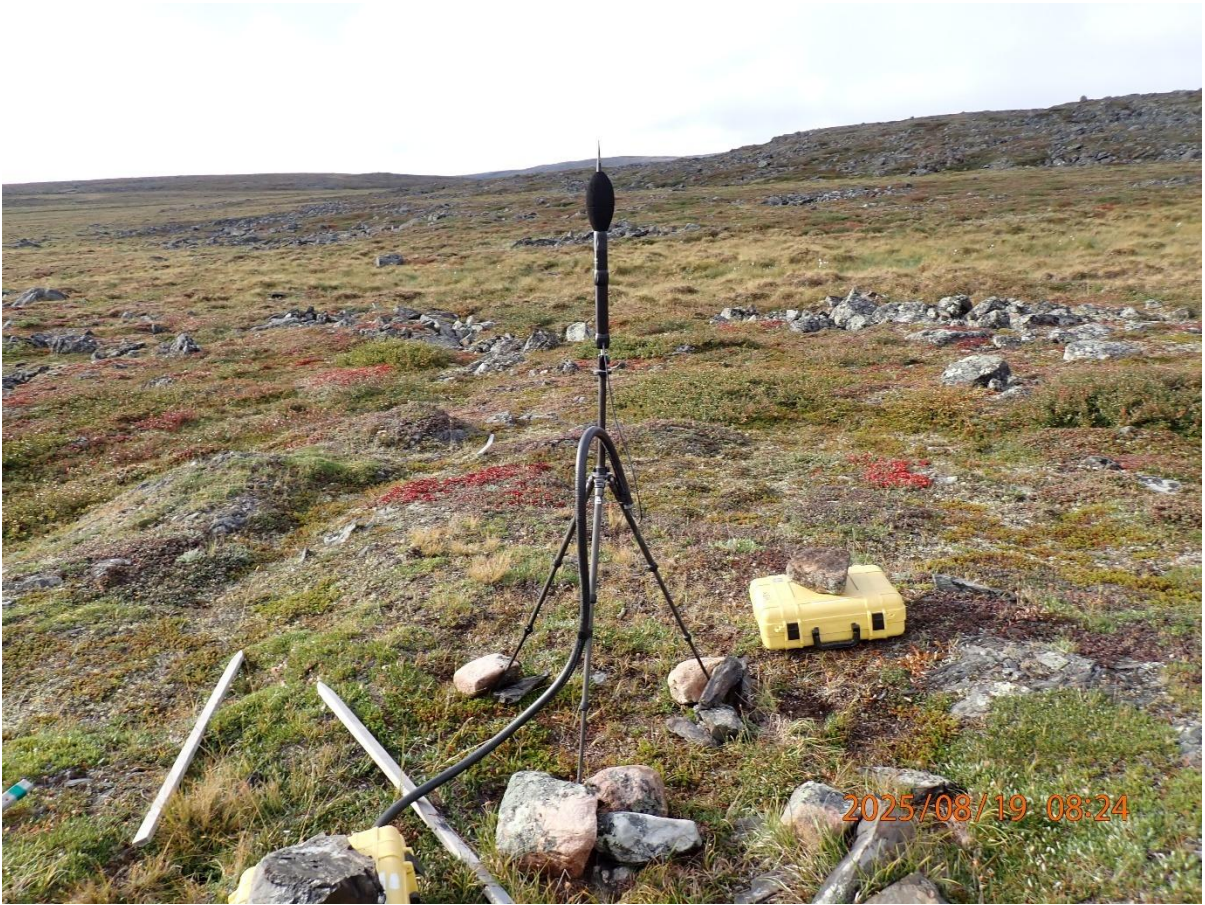


Figure -ApX 5: Monitoring location R5 (August 19, 2025).



Figure Apx 6: Monitoring location R6 (August 16, 2025).



Figure -Apx 7: Monitoring location R7 (August 12, 2025).



Figure Apx 8: Monitoring Location R9a (August 12, 2025).

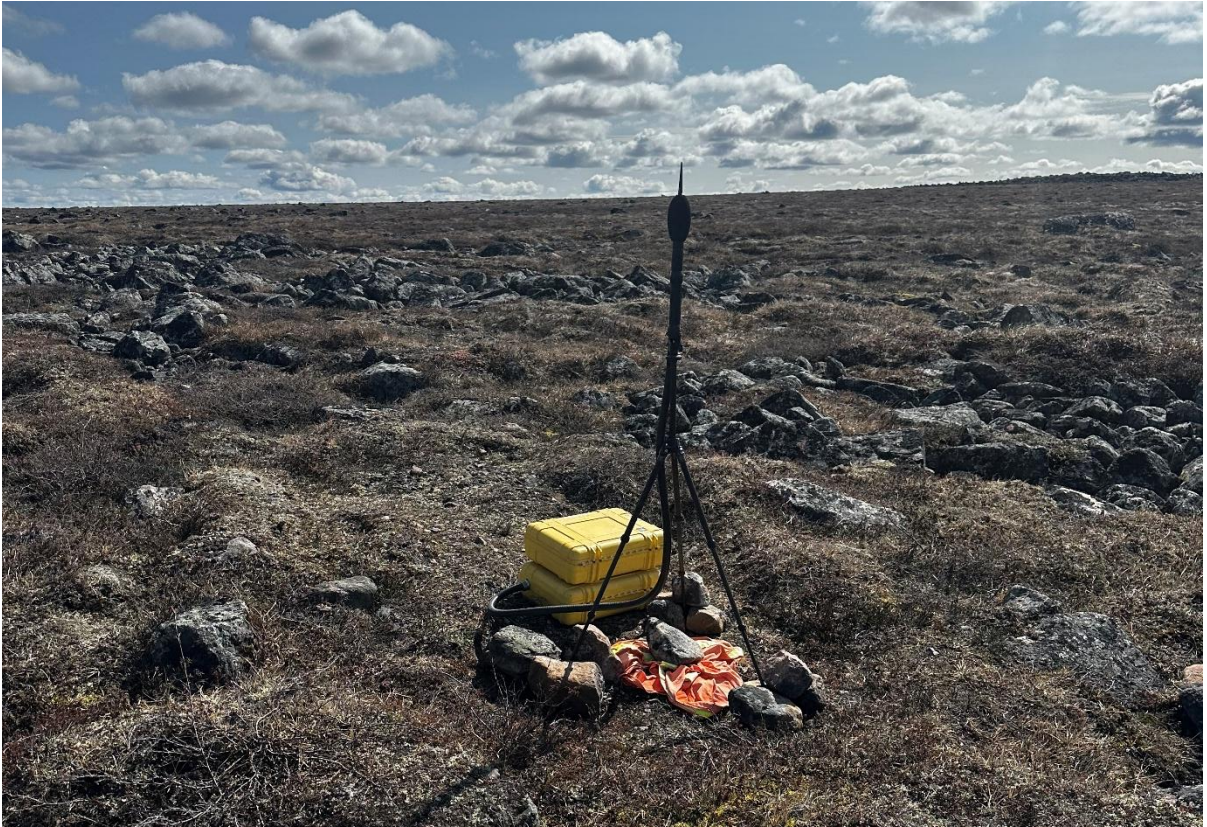
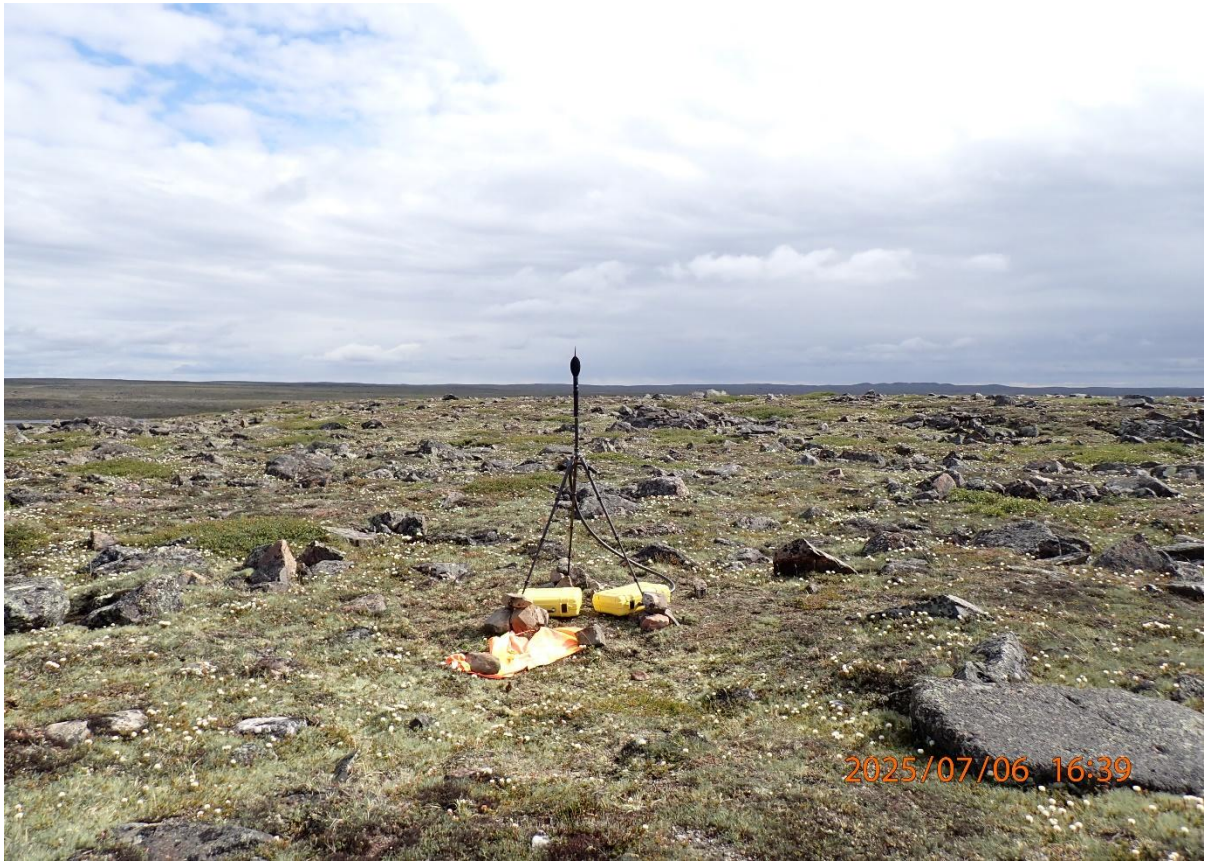


Figure Apx 9: Monitoring location R10a (June 18, 2025).



Figure Apx 10: Monitoring location R11a (June 18, 2025).



**Figure Apx 11: Monitoring location R12 (July 6, 2025).**

## **APPENDIX B**

### **Weather Data and 1-h $L_{eq}$ Values**

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**App. Table 1. Average hourly air temperature, wind speed, and wind direction for the Meadowbank Mine weather station and calculated 1-h  $L_{eq}$  values for Meadowbank stations R1 – R6.**

Note: Datapoints filtered out from analyses based on unacceptable weather conditions or set-up/take-down are excluded (-).

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-07-17 9:00	9.0	9.88	331						-
2025-07-17 10:00	10.2	9.84	339						-
2025-07-17 11:00	11.0	9.67	343				-		-
2025-07-17 12:00	11.3	9.37	340				-		-
2025-07-17 13:00	11.3	9.05	344				-		-
2025-07-17 14:00	11.6	8.23	347				-		-
2025-07-17 15:00	11.7	7.82	348				-		-
2025-07-17 16:00	11.7	7.20	3				-		-
2025-07-17 17:00	11.6	6.61	7				-		-
2025-07-17 18:00	12.4	6.02	7				-		-
2025-07-17 19:00	12.8	5.70	11				-		-
2025-07-17 20:00	13.1	5.08	13				-		-
2025-07-17 21:00	13.1	4.35	19				-		-
2025-07-17 22:00	12.7	4.13	27				-		30.1
2025-07-17 23:00	12.4	4.24	32				-		-
2025-07-18 0:00	11.8	4.13	32				-		26.4
2025-07-18 1:00	11.3	3.11	24				42.4		19.1
2025-07-18 2:00	10.2	2.32	14				42.5		27.4
2025-07-18 3:00	9.0	2.45	0				47.5		31.3
2025-07-18 4:00	8.7	2.69	5				45.6		29.7
2025-07-18 5:00	8.4	2.91	1				46.6		26.0
2025-07-18 6:00	8.8	2.59	351				41.4		25.8
2025-07-18 7:00	9.2	1.86	306				41.9		29.0
2025-07-18 8:00	10.8	1.74	344				35.8		30.7
2025-07-18 9:00	11.7	1.32	6				42.2		30.8
2025-07-18 10:00	12.1	1.78	27				42.1		32.4
2025-07-18 11:00	12.6	1.71	1				49.2		32.1
2025-07-18 12:00	13.4	1.92	51				40.1		32.2
2025-07-18 13:00	14.4	1.79	137				40.5		31.3
2025-07-18 14:00	14.8	2.28	121				43.4		31.3
2025-07-18 15:00	15.3	2.35	153				43.7		32.8
2025-07-18 16:00	15.9	2.61	135				43.5		34.2

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-07-18 17:00	16.5	2.56	110				42.3		35.4
2025-07-18 18:00	17.2	2.13	141				46.4		26.3
2025-07-18 19:00	17.3	1.54	124				32.6		30.0
2025-07-18 20:00	17.2	2.58	105				39.9		34.9
2025-07-18 21:00	16.8	2.80	100				38.4		33.7
2025-07-18 22:00	15.7	3.52	153				48.8		36.1
2025-07-18 23:00	14.9	3.91	156				46.3		38.5
2025-07-19 0:00	14.6	4.28	152				-		-
2025-07-19 1:00	14.1	4.71	153				-		-
2025-07-19 2:00	13.6	6.56	151				-		-
2025-07-19 3:00	13.1	6.95	155				-		-
2025-07-19 4:00	12.5	7.76	166				-		-
2025-07-19 5:00	11.6	6.26	155				-		-
2025-07-19 6:00	12.2	7.33	153				-		-
2025-07-19 7:00	12.0	7.87	151				-		-
2025-07-19 8:00	11.9	7.72	152				-		-
2025-07-19 9:00	12.5	8.80	159				-		-
2025-07-19 10:00	12.6	9.89	159				-		-
2025-07-19 11:00	12.3	9.40	153				-		-
2025-07-20 18:00	14.6	4.59	285		-				
2025-07-20 19:00	15.5	3.80	273		29.2				
2025-07-20 20:00	15.9	3.87	247		39.4				
2025-07-20 21:00	15.7	4.49	246		-				
2025-07-20 22:00	14.2	3.10	220		26.9				
2025-07-20 23:00	11.7	2.34	207		25.9				
2025-07-21 0:00	10.4	1.73	193		20.5				
2025-07-21 1:00	9.7	1.89	183		29.2				
2025-07-21 2:00	9.4	1.58	182		27.6				
2025-07-21 3:00	10.0	1.68	224		21.7				
2025-07-21 4:00	9.2	1.15	250		23.6				
2025-07-21 5:00	8.4	1.21	185		31.1				
2025-07-21 6:00	9.0	0.98	262		27.3				
2025-07-21 7:00	10.0	0.72	196		31.8				
2025-07-21 8:00	11.1	0.88	203		32.5				
2025-07-21 9:00	11.5	0.50	274		36.4				

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-07-21 10:00	12.5	1.05	180		33.5				
2025-07-21 11:00	13.2	1.23	221		29.3				
2025-07-21 12:00	13.8	2.23	235		28.4				
2025-07-21 13:00	14.2	1.54	198		60.1				
2025-07-21 14:00	14.3	1.79	204		30.5				
2025-07-21 15:00	14.6	1.12	174		30.6				
2025-07-21 16:00	15.0	0.93	154		24.8				
2025-07-21 17:00	15.3	0.67	303		27.7				
2025-07-21 18:00	14.7	1.52	194		28.3				
2025-07-21 19:00	13.5	2.74	107		26.0				
2025-07-21 20:00	13.2	3.05	146		25.2				
2025-07-21 21:00	12.7	2.27	142		26.2				
2025-07-21 22:00	12.5	1.89	98		28.8				
2025-07-21 23:00	11.7	3.85	113		34.0				
2025-07-22 0:00	10.7	2.79	134		29.6				
2025-07-22 1:00	10.8	0.90	145		22.4				
2025-07-22 2:00	10.8	1.82	55		25.6				
2025-07-22 3:00	10.9	3.53	57		32.8				
2025-07-22 4:00	10.8	4.24	51		-				
2025-07-22 5:00	10.7	5.69	37		-				
2025-07-22 6:00	10.8	6.51	30		-				
2025-07-22 7:00	10.9	7.37	41		-				
2025-07-22 8:00	10.3	7.64	53		-				
2025-07-24 9:00	6.4	8.11	331	-				-	
2025-07-24 10:00	7.4	7.90	331	-				-	
2025-07-24 11:00	8.1	8.04	330	-				-	
2025-07-24 12:00	8.9	7.87	326	-				-	
2025-07-24 13:00	9.2	7.29	320	-				-	
2025-07-24 14:00	9.8	7.52	325	-				-	
2025-07-24 15:00	10.5	6.97	315	-				-	
2025-07-24 16:00	11.8	6.70	323	-				-	
2025-07-24 17:00	12.5	7.25	320	-				-	
2025-07-24 18:00	12.2	7.30	320	-				-	
2025-07-24 19:00	11.8	7.26	320	-				-	
2025-07-24 20:00	10.8	6.82	325	-				-	

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-07-24 21:00	10.0	6.00	323	-				-	
2025-07-24 22:00	9.0	5.97	335	-				-	
2025-07-24 23:00	8.6	5.64	320	-				-	
2025-07-25 0:00	8.1	5.15	314	-				-	
2025-07-25 1:00	7.6	4.95	328	-				-	
2025-07-25 2:00	7.6	4.03	314	28.9				33.2	
2025-07-25 3:00	7.6	4.11	309	26.4				38.7	
2025-07-25 4:00	7.7	4.36	294	-				-	
2025-07-25 5:00	7.5	4.38	278	-				-	
2025-07-25 6:00	7.5	4.32	271	-				-	
2025-07-25 7:00	7.3	5.62	272	-				-	
2025-07-25 8:00	6.9	5.47	262	-				-	
2025-07-25 9:00	7.8	5.66	260	-				-	
2025-07-25 10:00	8.1	5.19	264	-				-	
2025-07-25 11:00	8.4	5.33	263	-				-	
2025-07-25 12:00	8.3	5.26	236	-				-	
2025-07-25 13:00	8.7	5.20	244	-				-	
2025-07-25 14:00	9.5	4.42	238	-				-	
2025-07-25 15:00	9.7	4.54	257	-				-	
2025-07-25 16:00	9.8	4.17	227	-				-	
2025-07-25 17:00	9.7	3.58	224	30.1				35.5	
2025-07-25 18:00	9.4	5.11	199	-				-	
2025-07-25 19:00	9.4	4.16	189	28.6				31.2	
2025-07-25 20:00	9.5	3.64	190	26.3				28.4	
2025-07-25 21:00	9.1	4.04	181	26.0				29.1	
2025-07-25 22:00	8.9	3.23	186	21.8				29.1	
2025-07-25 23:00	8.7	2.58	191	26.2				24.0	
2025-07-26 0:00	8.5	2.76	185	30.1				28.0	
2025-07-26 1:00	8.1	3.01	179	30.6				27.9	
2025-07-26 2:00	8.1	2.66	173	21.3				26.3	
2025-07-26 3:00	8.0	1.72	182	20.8				24.3	
2025-07-26 4:00	8.1	1.01	141	32.2				29.3	
2025-07-26 5:00	8.3	1.72	102	31.5				27.6	
2025-07-26 6:00	8.4	2.63	143	29.9				27.2	
2025-07-26 7:00	7.8	2.98	101	30.2				27.6	
2025-07-26 8:00	7.9	4.08	96	41.4				35.1	

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-07-26 9:00	8.0	4.27	80	-				-	
2025-07-26 10:00	8.2	4.91	63	-				-	
2025-07-26 11:00	8.3	5.49	60	-				-	
2025-07-26 12:00	8.7	5.61	66	-				-	
2025-07-26 13:00	9.3	5.90	82	-				-	
2025-07-26 14:00	9.8	6.42	91	-				-	
2025-07-26 15:00	9.9	6.67	93	-				-	
2025-07-26 16:00	9.9	5.95	90	-				-	
2025-07-26 17:00	10.1	5.05	87	-				-	
2025-07-26 18:00	10.2	4.19	100	-					
2025-07-29 10:00	6.2	6.49	326		-				
2025-07-29 11:00	6.9	6.08	320		-				
2025-07-29 12:00	7.5	6.27	318		-				
2025-07-29 13:00	8.8	6.77	321		-				
2025-07-29 14:00	9.8	6.44	322		-				
2025-07-29 15:00	10.7	6.65	323		-				
2025-07-29 16:00	11.4	6.14	314		-				
2025-07-29 17:00	11.9	6.10	312		-				
2025-07-29 18:00	12.3	6.17	322		-				
2025-07-29 19:00	12.7	6.07	323		-				
2025-07-29 20:00	12.7	6.01	321		-				
2025-07-29 21:00	12.2	5.80	313		-				
2025-07-29 22:00	11.4	5.36	309		-				
2025-07-29 23:00	10.0	3.88	299		33.3				
2025-07-30 0:00	8.8	3.85	308		31.0				
2025-07-30 1:00	8.5	2.80	296		28.8				
2025-07-30 2:00	8.0	2.44	292		27.8				
2025-07-30 3:00	7.7	1.86	290		29.6				
2025-07-30 4:00	7.1	1.15	260		26.3				
2025-07-30 5:00	7.0	2.45	298		31.3				
2025-07-30 6:00	7.1	2.64	285		30.5				
2025-07-30 7:00	8.0	2.53	281		33.6				
2025-07-30 8:00	9.6	2.72	282		34.1				
2025-07-30 9:00	11.1	3.94	297		33.3				
2025-07-30 10:00	12.5	4.12	297		31.9				

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-07-30 11:00	14.1	2.76	294		28.4				
2025-07-30 12:00	16.1	2.87	283		59.8				
2025-07-30 13:00	17.9	4.16	268		38.3				
2025-07-30 14:00	19.2	4.90	265		-				
2025-07-30 15:00	19.9	5.67	258		-				
2025-07-30 16:00	20.2	5.79	253		-				
2025-07-30 17:00	20.5	6.42	256		-				
2025-07-30 18:00	20.1	6.62	245		-				
2025-07-30 19:00	19.3	7.07	234		-				
2025-07-30 20:00	18.7	6.91	231		-				
2025-07-30 21:00	17.8	5.27	227		-				
2025-07-30 22:00	15.8	3.36	206		35.2				
2025-07-30 23:00	13.5	3.55	196		36.9				
2025-07-31 0:00	12.4	3.43	185		37.5				
2025-07-31 1:00	11.8	4.01	188		39.8				
2025-07-31 2:00	11.3	3.40	185		38.6				
2025-07-31 3:00	10.6	2.55	183		36.0				
2025-07-31 4:00	10.7	2.34	159		31.3				
2025-07-31 5:00	11.1	2.33	160		31.7				
2025-07-31 6:00	11.6	3.74	170		32.4				
2025-07-31 7:00	11.6	3.56	185		35.5				
2025-07-31 8:00	11.8	4.09	180		39.1				
2025-07-31 9:00	11.8	3.21	186		35.8				
2025-07-31 10:00	13.1	1.97	178		26.2				
2025-07-31 11:00	15.1	2.03	165		-				
2025-08-02 16:00	15.0	9.20	317	-					
2025-08-02 17:00	15.2	9.58	324	-					
2025-08-02 18:00	15.3	8.77	322	-					
2025-08-02 19:00	15.5	9.07	311	-					
2025-08-02 20:00	15.2	8.19	311	-					
2025-08-02 21:00	14.8	7.10	306	-					
2025-08-02 22:00	13.7	5.19	295	-					
2025-08-02 23:00	12.5	4.23	290	-					
2025-08-03 0:00	11.4	3.67	278	30.0					
2025-08-03 1:00	11.0	4.01	289	31.3					

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-08-03 2:00	10.4	3.63	283	34.2					
2025-08-03 3:00	10.4	4.89	286	-					
2025-08-03 4:00	10.1	4.74	291	-					
2025-08-03 5:00	9.7	3.93	288	28.2					
2025-08-03 6:00	9.7	4.26	281	-					
2025-08-03 7:00	10.3	4.84	274	-					
2025-08-03 8:00	11.4	5.34	283	-					
2025-08-03 9:00	12.6	5.40	285	-					
2025-08-03 10:00	13.6	6.60	281	-					
2025-08-03 11:00	15.2	5.95	286	-					
2025-08-03 12:00	16.6	6.58	281	-					
2025-08-03 13:00	17.9	6.84	282	-					
2025-08-03 14:00	18.6	7.08	279	-					
2025-08-03 15:00	19.7	7.26	263	-					
2025-08-03 16:00	20.0	7.02	258	-					
2025-08-03 17:00	20.3	7.04	258	-					
2025-08-03 18:00	19.9	7.82	243	-					
2025-08-03 19:00	19.2	8.96	230	-					
2025-08-03 20:00	18.9	8.29	232	-					
2025-08-03 21:00	18.4	7.50	228	-					
2025-08-03 22:00	17.1	6.74	225	-					
2025-08-03 23:00	15.6	6.06	218	-					
2025-08-04 0:00	14.7	6.11	222	-					
2025-08-04 1:00	13.9	5.60	222	-					
2025-08-04 2:00	13.9	6.10	229	-					
2025-08-04 3:00	13.7	7.02	229	-					
2025-08-04 4:00	13.9	6.77	232	-					
2025-08-04 5:00	13.8	5.86	230	-					
2025-08-04 6:00	13.7	6.45	226	-					
2025-08-04 7:00	13.3	4.59	199	-					
2025-08-04 8:00	14.0	4.41	207	-					
2025-08-04 9:00	15.0	3.64	213	38.1					
2025-08-04 10:00	15.4	5.21	226	-					
2025-08-04 11:00	15.5	6.46	229	-					
2025-08-04 12:00	14.6	3.46	191	43.3					
2025-08-04 13:00	15.7	3.93	192	27.1					

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-08-04 14:00	16.7	5.10	198	-					
2025-08-04 15:00	17.2	5.25	197	-					
2025-08-04 16:00	16.8	6.66	200	-					
2025-08-04 17:00	16.1	6.57	199	-					
2025-08-04 18:00	16.0	5.01	201	-					
2025-08-04 19:00	16.8	5.05	201	-					
2025-08-04 20:00	17.0	3.59	197	24.8					
2025-08-04 21:00	16.3	4.75	201	-					
2025-08-04 22:00	15.2	4.81	194	-					
2025-08-04 23:00	14.7	4.53	190	-					
2025-08-05 0:00	14.2	3.06	183	24.1					
2025-08-05 1:00	14.1	2.09	156	28.4					
2025-08-05 2:00	14.2	2.58	174	26.7					
2025-08-05 3:00	13.8	2.22	190	20.8					
2025-08-05 4:00	13.4	1.12	170	23.3					
2025-08-05 5:00	13.8	1.80	93	25.4					
2025-08-05 6:00	13.5	3.38	93	29.7					
2025-08-05 7:00	13.7	3.85	93	33.5					
2025-08-05 8:00	13.8	4.10	102	34.1					
2025-08-05 9:00	14.6	4.61	107	-					
2025-08-05 10:00	15.1	5.02	104	-					
2025-08-05 11:00	15.0	5.81	98	-					
2025-08-05 12:00	15.7	6.64	105	-					
2025-08-05 13:00	16.0	7.08	115	-					
2025-08-05 14:00	16.3	7.08	114	-					
2025-08-05 15:00	16.6	7.74	114	-					
2025-08-06 16:00	10.1	8.43	316			-			
2025-08-06 17:00	10.0	9.30	323			-			
2025-08-06 18:00	9.2	10.20	324			-			
2025-08-06 19:00	8.4	9.81	321			-			
2025-08-06 20:00	8.4	9.37	331			-			
2025-08-06 21:00	8.2	7.98	336			-			
2025-08-06 22:00	7.3	7.27	347			-			
2025-08-06 23:00	6.9	5.84	352			-			
2025-08-07 0:00	6.7	5.85	343			-			

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-08-07 1:00	6.6	4.35	347			-			
2025-08-07 2:00	6.4	3.89	350			31.0			
2025-08-07 3:00	6.3	4.05	311			27.6			
2025-08-07 4:00	6.1	3.57	325			29.3			
2025-08-07 5:00	6.1	4.17	311			-			
2025-08-07 6:00	6.0	4.51	317			-			
2025-08-07 7:00	5.7	3.55	317			26.3			
2025-08-07 8:00	5.8	2.55	299			28.6			
2025-08-07 9:00	6.8	0.99	276			22.3			
2025-08-07 10:00	7.0	2.40	214			27.0			
2025-08-07 11:00	7.4	3.00	186			38.5			
2025-08-07 12:00	8.3	3.89	188			56.9			
2025-08-07 13:00	9.0	3.98	188			30.4			
2025-08-07 14:00	10.1	4.22	185			-			
2025-08-07 15:00	11.2	5.46	194			-			
2025-08-07 16:00	12.4	5.84	200			-	-		
2025-08-07 17:00	13.3	5.59	211			-	-		
2025-08-07 18:00	13.7	5.61	210			-	-		
2025-08-07 19:00	13.7	6.27	199			-	-		
2025-08-07 20:00	13.7	6.39	197			-	-		
2025-08-07 21:00	13.4	6.33	198			-	-		
2025-08-07 22:00	12.9	5.19	183			-	-		
2025-08-07 23:00	11.7	6.69	171			-	-		
2025-08-08 0:00	11.1	6.68	173			-	-		
2025-08-08 1:00	10.7	6.30	183			-	-		
2025-08-08 2:00	10.5	6.59	183			-	-		
2025-08-08 3:00	10.7	7.28	186			-	-		
2025-08-08 4:00	10.9	8.35	190			-	-		
2025-08-08 5:00	10.9	8.60	187			-	-		
2025-08-08 6:00	11.1	8.20	187			-	-		
2025-08-08 7:00	11.5	7.77	186			-	-		
2025-08-08 8:00	12.7	8.58	202			-	-		
2025-08-08 9:00	13.5	8.12	223			-	-		
2025-08-08 10:00	13.3	7.93	247			-	-		
2025-08-08 11:00	11.1	10.14	319			-	-		
2025-08-08 12:00	10.1	10.30	330			-	-		

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-08-08 13:00	10.3	9.80	324			-	-		
2025-08-08 14:00	9.7	9.50	326			-	-		
2025-08-08 15:00	9.0	9.17	334			-	-		
2025-08-08 16:00	9.6	8.89	334			-	-		
2025-08-08 17:00	9.9	8.36	335			-	-		
2025-08-08 18:00	10.1	8.27	330			-	-		
2025-08-08 19:00	9.7	8.41	334			-	-		
2025-08-08 20:00	9.4	7.85	336			-	-		
2025-08-08 21:00	8.6	7.00	347			-	-		
2025-08-08 22:00	7.3	6.79	345			-	-		
2025-08-08 23:00	6.3	6.15	344			-	-		
2025-08-09 0:00	5.5	3.94	345			33.6	40.3		
2025-08-09 1:00	5.0	2.43	345			29.8	39.5		
2025-08-09 2:00	4.6	2.18	352			27.0	39.9		
2025-08-09 3:00	4.4	1.37	5			27.7	41.8		
2025-08-09 4:00	4.6	0.80	292			31.4	34.8		
2025-08-09 5:00	4.9	2.12	252			30.8	29.3		
2025-08-09 6:00	5.1	2.24	259			36.0	29.4		
2025-08-09 7:00	5.6	2.51	250			27.9	31.4		
2025-08-09 8:00	6.3	3.94	256			30.9	34.5		
2025-08-09 9:00	7.3	4.54	252			-	-		
2025-08-09 10:00	8.6	4.40	240			-	-		
2025-08-09 11:00	9.8	4.75	254			-	-		
2025-08-09 12:00	10.8	5.21	253			-	-		
2025-08-09 13:00	10.9	5.48	253			-	-		
2025-08-09 14:00	11.3	5.87	246			-	-		
2025-08-09 15:00	11.8	5.59	255			-	-		
2025-08-09 16:00	12.3	5.38	254			-	-		
2025-08-09 17:00	12.5	5.02	250			-	-		
2025-08-09 18:00	12.8	4.71	255			-	-		
2025-08-09 19:00	12.7	4.05	238			30.4	39.6		
2025-08-09 20:00	12.6	4.73	224			-	-		
2025-08-09 21:00	12.0	4.24	217			-	-		
2025-08-09 22:00	11.0	3.51	207			33.0	33.0		
2025-08-09 23:00	10.3	3.10	208			33.2	31.7		
2025-08-10 0:00	9.4	3.43	199			40.1	32.4		



Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-08-16 12:00	11.1	4.40	325			-			-
2025-08-16 13:00	12.1	4.77	322			-			-
2025-08-16 14:00	12.8	4.63	314			-			-
2025-08-16 15:00	13.7	4.44	311			-			-
2025-08-16 16:00	14.7	4.41	320			-			-
2025-08-16 17:00	15.2	5.05	325			-			-
2025-08-16 18:00	15.4	5.28	333			-			-
2025-08-16 19:00	15.5	4.91	328			-			-
2025-08-16 20:00	15.5	4.19	329			-			-
2025-08-16 21:00	14.9	2.15	344			25.9			27.4
2025-08-16 22:00	13.5	1.02	343			25.2			27.4
2025-08-16 23:00	11.5	0.52	185			33.1			29.9
2025-08-17 0:00	10.7	1.15	168			29.0			33.8
2025-08-17 1:00	10.1	1.68	176			33.9			37.4
2025-08-17 2:00	9.6	1.10	176			32.5			37.1
2025-08-17 3:00	9.9	1.74	199			35.0			40.9
2025-08-17 4:00	9.9	2.32	182			37.2			40.9
2025-08-17 5:00	8.8	1.48	170			39.7			44.1
2025-08-17 6:00	10.6	4.75	248			-			-
2025-08-17 7:00	11.1	5.49	253			-			-
2025-08-17 8:00	11.5	4.18	298			-			-
2025-08-17 9:00	13.3	4.45	272			-			-
2025-08-17 10:00	14.3	3.52	255			35.4			36.3
2025-08-17 11:00	16.1	2.85	253			30.6			33.7
2025-08-17 12:00	17.9	1.90	260			21.5			32.2
2025-08-17 13:00	19.1	1.73	239			23.2			31.0
2025-08-17 14:00	19.3	2.49	250			24.1			33.4
2025-08-17 15:00	19.0	3.44	274			26.4			32.5
2025-08-17 16:00	20.0	2.81	259			25.3			33.2
2025-08-17 17:00	20.6	2.20	227			24.6			30.7
2025-08-17 18:00	20.4	1.93	254			27.1			25.3
2025-08-17 19:00	20.5	1.47	277			20.0			26.9
2025-08-17 20:00	20.4	0.60	205			36.6			29.9
2025-08-17 21:00	18.7	1.22	188			22.5			31.8
2025-08-17 22:00	16.1	1.18	189			28.7			34.2
2025-08-17 23:00	14.7	0.64	207			33.0			33.8

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-08-18 0:00	14.3	0.27	181			35.0			32.6
2025-08-18 1:00	14.1	0.49	145			35.4			33.1
2025-08-18 2:00	12.8	0.98	175			35.8			37.0
2025-08-18 3:00	13.3	1.27	274			35.5			34.3
2025-08-18 4:00	12.2	0.78	332			34.9			33.6
2025-08-18 5:00	11.5	0.56	134			33.0			32.3
2025-08-18 6:00	10.7	0.37	154			35.6			31.0
2025-08-18 7:00	11.2	0.65	142			39.0			36.8
2025-08-18 8:00	11.9	1.31	146			32.0			39.8
2025-08-18 9:00	12.9	1.38	187			26.0			38.4
2025-08-18 10:00	14.8	1.28	145			28.1			34.1
2025-08-18 11:00	15.4	2.31	146			29.9			34.8
2025-08-18 12:00	16.0	1.75	141			-			32.4
2025-08-18 13:00	17.3	2.16	159						33.6
2025-08-18 14:00	17.3	2.31	132						33.9
2025-08-18 15:00	18.2	3.37	148						-
2025-08-19 9:00	10.0	4.82	110					-	
2025-08-19 10:00	10.8	5.06	111					-	
2025-08-19 11:00	11.3	5.98	107					-	
2025-08-19 12:00	11.8	6.08	113					-	
2025-08-19 13:00	12.4	6.19	119					-	
2025-08-19 14:00	12.5	6.51	118				-	-	
2025-08-19 15:00	12.6	6.26	113				-	-	
2025-08-19 16:00	13.0	6.06	115				-	-	
2025-08-19 17:00	13.0	6.06	115				-	-	
2025-08-19 18:00	12.8	6.18	116				-	-	
2025-08-19 19:00	12.5	5.71	116				-	-	
2025-08-19 20:00	11.9	4.96	121				-	-	
2025-08-19 21:00	11.6	5.37	116				-	-	
2025-08-19 22:00	11.3	5.45	112				-	-	
2025-08-19 23:00	11.3	5.13	109				-	-	
2025-08-20 0:00	11.3	5.02	108				-	-	
2025-08-20 1:00	11.2	4.98	111				-	-	
2025-08-20 2:00	11.2	5.23	108				-	-	
2025-08-20 3:00	11.0	5.43	113				-	-	

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-08-20 4:00	10.8	5.42	110				-	-	
2025-08-20 5:00	10.8	5.51	105				-	-	
2025-08-20 6:00	10.6	6.10	113				-	-	
2025-08-20 7:00	10.6	6.01	110				-	-	
2025-08-20 8:00	10.7	5.51	100				-	-	
2025-08-20 9:00	10.7	5.37	99				-	-	
2025-08-20 10:00	11.0	5.29	93				-	-	
2025-08-20 11:00	11.4	5.30	93				-	-	
2025-08-20 12:00	11.9	4.71	102				-	-	
2025-08-20 13:00	12.5	4.70	103				-	-	
2025-08-20 14:00	12.5	4.52	103				-	-	
2025-08-20 15:00	12.7	3.80	101				34.7	33.6	
2025-08-20 16:00	13.2	3.10	100				31.4	28.7	
2025-08-20 17:00	13.5	2.60	112				30.8	30.0	
2025-08-20 18:00	13.8	1.87	107				24.4	25.8	
2025-08-20 19:00	14.0	1.31	103				23.3	31.8	
2025-08-20 20:00	14.3	0.90	187				53.1	56.5	
2025-08-20 21:00	13.5	1.37	271				31.3	26.6	
2025-08-20 22:00	12.6	1.43	310				38.7	29.1	
2025-08-20 23:00	11.5	0.96	303				41.0	33.1	
2025-08-21 0:00	10.7	1.43	296				40.4	35.4	
2025-08-21 1:00	10.7	1.61	305				39.8	34.3	
2025-08-21 2:00	10.1	1.66	294				41.0	33.1	
2025-08-21 3:00	9.7	1.98	322				42.2	28.3	
2025-08-21 4:00	9.7	1.52	335				42.0	29.8	
2025-08-21 5:00	9.7	0.79	26				41.5	33.2	
2025-08-21 6:00	9.4	0.28	143				39.8	32.2	
2025-08-21 7:00	9.8	0.22	91				39.9	36.4	
2025-08-21 8:00	10.3	0.92	298				43.9	41.7	
2025-08-21 9:00	11.8	1.26	343				43.9	40.4	
2025-08-21 10:00	13.8	1.54	41				32.4	37.0	
2025-08-21 11:00	14.8	1.39	101				26.9	37.4	
2025-08-21 12:00	16.0	1.35	154				30.1	43.9	
2025-08-21 13:00	16.7	1.66	177				28.1	31.1	
2025-08-21 14:00	17.2	1.76	229				29.3	29.7	
2025-08-21 15:00	17.8	1.62	248				29.8	42.3	

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R1	R2	R3	R4	R5	R6
2025-08-21 16:00	18.2	1.59	212				26.9	33.6	
2025-08-21 17:00	18.6	1.41	198				34.9	30.6	
2025-08-21 18:00	18.5	1.80	218				42.3	30.3	
2025-08-21 19:00	18.0	2.17	214				32.6	36.6	
2025-08-21 20:00	16.5	3.71	201				37.5	(58.9)	
2025-08-21 21:00	14.7	2.92	227				34.5	28.1	
2025-08-21 22:00	13.8	1.54	287				36.6	28.0	
2025-08-21 23:00	13.0	0.56	178				38.3	32.6	
2025-08-22 0:00	11.8	1.83	222				35.8	35.0	
2025-08-22 1:00	12.5	2.29	261				32.7	34.6	
2025-08-22 2:00	12.5	1.73	292				33.0	30.9	
2025-08-22 3:00	11.9	1.45	304				37.8	25.4	
2025-08-22 4:00	11.8	1.27	300				37.9	35.8	
2025-08-22 5:00	11.2	1.37	237				40.0	37.8	
2025-08-22 6:00	10.9	0.79	252				39.5	36.4	
2025-08-22 7:00	10.6	0.38	316				40.4	36.6	
2025-08-22 8:00	11.6	0.98	310				43.1	40.5	
2025-08-22 9:00	13.3	0.92	335				42.2	-	
2025-08-22 10:00	15.6	0.37	95				-		

**App. Table 2. Average hourly air temperature, wind speed, and wind direction for the Whale Tail Mine weather station and valid calculated 1-h  $L_{eq}$  values for Whale Tail Mine stations R7 – R12.**

Note: Those filtered out from analyses based on unacceptable weather conditions and set up/take down are excluded (-). Values excluded from subsequent calculations after secondary filtering, as explained in Section 2.4, are in italics.

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-06-18 11:00	9.4	2.97	308					-	
2025-06-18 12:00	10.1	2.74	313				-	-	
2025-06-18 13:00	10.8	2.17	304				26.1	30.0	
2025-06-18 14:00	11.4	1.82	259				35.9	29.5	
2025-06-18 15:00	11.1	2.43	272				34.7	26.4	
2025-06-18 16:00	12.1	3.68	252				32.3	29.9	
2025-06-18 17:00	12.2	4.43	253				-	-	
2025-06-18 18:00	12.6	4.46	256				-	-	
2025-06-18 19:00	12.5	4.38	252				-	-	
2025-06-18 20:00	11.7	3.74	227				30.5	32.3	
2025-06-18 21:00	11.1	3.34	196				32.8	30.5	
2025-06-18 22:00	9.8	3.50	193				26.3	33.5	
2025-06-18 23:00	9.0	2.68	202				37.0	36.4	
2025-06-19 0:00	8.2	2.64	206				24.9	35.8	
2025-06-19 1:00	7.1	1.91	223				29.7	34.7	
2025-06-19 2:00	6.7	1.49	171				35.1	38.5	
2025-06-19 3:00	6.4	2.06	168				33.2	35.6	
2025-06-19 4:00	5.8	3.46	185				29.6	36.3	
2025-06-19 5:00	5.0	4.73	277				-	-	
2025-06-19 6:00	3.9	6.15	305				-	-	
2025-06-19 7:00	3.0	6.48	309				-	-	
2025-06-19 8:00	2.4	7.29	308				-	-	
2025-06-19 9:00	2.2	5.68	303				-	-	
2025-06-19 10:00	2.0	5.69	302				-	-	
2025-06-19 11:00	2.0	6.40	305				-	-	
2025-06-19 12:00	2.1	5.34	304				-	-	
2025-06-19 13:00	2.6	3.95	301				52.0	51.2	
2025-06-19 14:00	2.9	3.21	297				51.3	51.2	
2025-06-19 15:00	3.2	4.02	298				50.9	50.4	
2025-06-19 16:00	3.4	2.86	294				52.3	48.2	
2025-06-19 17:00	3.3	2.54	289				50.3	47.4	
2025-06-19 18:00	3.5	1.86	288				46.9	45.8	

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-06-19 19:00	3.5	1.56	283				46.4	44.5	
2025-06-19 20:00	3.4	1.63	278				45.7	43.2	
2025-06-19 21:00	3.1	1.28	165				43.7	43.5	
2025-06-19 22:00	2.7	1.24	277				42.1	41.2	
2025-06-19 23:00	2.3	1.49	278				43.0	41.1	
2025-06-20 0:00	2.1	2.27	290				42.4	38.5	
2025-06-20 1:00	2.0	2.58	294				42.7	40.5	
2025-06-20 2:00	1.8	3.33	305				42.7	39.2	
2025-06-20 3:00	1.6	2.60	298				45.6	39.9	
2025-06-20 4:00	1.5	1.84	285				40.1	42.5	
2025-06-20 5:00	1.5	2.82	299				39.5	42.3	
2025-06-20 6:00	1.5	3.53	304				34.6	41.3	
2025-06-20 7:00	1.7	2.63	300				34.5	37.4	
2025-06-20 8:00	2.0	3.16	310				40.1	39.3	
2025-06-20 9:00	3.5	3.45	309				43.2	40.7	
2025-06-20 10:00	6.7	1.84	319				40.0	38.3	
2025-06-20 11:00	8.8	2.25	61				43.1	42.4	
2025-06-20 12:00	9.9	1.98	61				43.0	42.3	
2025-06-20 13:00	10.2	2.36	63				43.6	46.9	
2025-06-20 14:00	9.8	2.45	39				46.2	47.8	
2025-06-20 15:00	9.7	2.99	299				47.4	48.6	
2025-06-20 16:00	9.1	3.82	304				44.5	46.4	
2025-06-20 17:00	8.9	3.96	305				44.0	47.3	
2025-06-20 18:00	8.9	3.32	301				42.8	48.1	
2025-06-20 19:00	8.9	3.27	302				40.8	44.5	
2025-06-20 20:00	8.2	3.73	304				39.3	43.2	
2025-06-20 21:00	8.1	1.69	299				41.1	43.7	
2025-06-20 22:00	7.3	1.40	106				41.2	42.8	
2025-06-20 23:00	5.9	1.32	276				37.6	37.6	
2025-06-21 0:00	5.1	2.10	290				37.3	34.1	
2025-06-21 1:00	4.5	2.10	292				38.9	32.4	
2025-06-21 2:00	3.7	2.93	309				36.6	32.3	
2025-06-21 3:00	3.2	3.35	315				35.9	32.3	
2025-06-21 4:00	3.2	3.23	318				39.6	32.9	
2025-06-21 5:00	3.5	3.10	322				40.1	36.2	
2025-06-21 6:00	4.5	1.87	321				42.4	34.5	

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-06-21 7:00	6.4	1.67	28				38.9	35.6	
2025-06-21 8:00	8.3	2.06	55				37.2	37.6	
2025-06-21 9:00	7.6	1.46	47				35.5	36.7	
2025-06-21 10:00	8.3	2.86	57				39.8	-	
2025-06-21 11:00	8.7	3.13	60				-		
2025-06-22 12:00	8.8	4.02	310			-			
2025-06-22 13:00	9.8	4.00	310		-	36.5			
2025-06-22 14:00	10.6	4.37	310		-	-			
2025-06-22 15:00	11.5	4.25	310		-	-			
2025-06-22 16:00	12.3	3.64	304		37.2	37.3			
2025-06-22 17:00	12.5	3.58	304		36.4	35.9			
2025-06-22 18:00	12.7	2.76	300		34.8	38.2			
2025-06-22 19:00	12.5	2.49	303		33.9	34.9			
2025-06-22 20:00	12.1	2.05	294		32.9	42.6			
2025-06-22 21:00	11.5	2.12	294		33.7	37.2			
2025-06-22 22:00	10.3	1.19	270		32.1	32.2			
2025-06-22 23:00	8.9	0.95	243		26.4	27.4			
2025-06-23 0:00	7.7	0.82	179		23.3	23.1			
2025-06-23 1:00	6.4	1.92	291		28.2	22.2			
2025-06-23 2:00	4.8	2.44	296		26.4	30.0			
2025-06-23 3:00	3.6	2.53	294		22.5	38.1			
2025-06-23 4:00	3.0	2.54	300		30.3	46.3			
2025-06-23 5:00	3.0	2.03	303		25.7	41.2			
2025-06-23 6:00	5.2	1.05	306		26.5	39.7			
2025-06-23 7:00	7.9	1.66	308		30.5	29.3			
2025-06-23 8:00	9.7	2.00	304		25.2	29.2			
2025-06-23 9:00	9.8	2.65	309		28.9	45.8			
2025-06-23 10:00	10.8	2.36	305		29.7	44.2			
2025-06-23 11:00	12.3	2.88	307		32.1	28.1			
2025-06-23 12:00	13.3	2.39	313		30.5	27.9			
2025-06-23 13:00	14.3	1.96	305		44.5	32.6			
2025-06-23 14:00	14.2	1.84	321		37.3	32.6			
2025-06-23 15:00	13.9	1.78	58		38.2	33.6			
2025-06-23 16:00	14.8	1.68	11		25.6	28.5			
2025-06-23 17:00	14.8	1.38	34		23.6	44.5			

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-06-23 18:00	15.0	1.86	323		31.4	40.4			
2025-06-23 19:00	15.3	1.58	316		33.5	22.3			
2025-06-23 20:00	15.4	1.41	313		21.9	28.3			
2025-06-23 21:00	14.5	1.38	61		21.3	24.4			
2025-06-23 22:00	13.8	1.24	141		22.7	23.1			
2025-06-23 23:00	12.8	0.71	187		26.0	29.1			
2025-06-24 0:00	11.9	0.37	203		28.6	28.5			
2025-06-24 1:00	11.3	0.62	200		25.7	26.7			
2025-06-24 2:00	10.0	1.18	247		24.5	44.4			
2025-06-24 3:00	9.9	0.99	258		27.3	26.3			
2025-06-24 4:00	9.6	1.40	257		31.7	35.0			
2025-06-24 5:00	9.5	0.68	234		46.5	24.4			
2025-06-24 6:00	9.7	0.65	158		39.4	26.4			
2025-06-24 7:00	10.5	1.40	139		34.3	29.4			
2025-06-24 8:00	12.2	2.52	156		36.9	29.9			
2025-06-24 9:00	12.8	3.09	168		41.9	32.4			
2025-06-24 10:00	15.5	4.43	170		-	-			
2025-06-25 9:00	11.5	1.52	299						-
2025-06-25 10:00	10.7	3.66	298					-	29.6
2025-06-25 11:00	9.5	3.22	319					42.0	34.0
2025-06-25 12:00	9.5	1.72	11					36.1	41.3
2025-06-25 13:00	10.5	1.75	307					39.1	45.8
2025-06-25 14:00	11.8	2.55	298					40.2	47.2
2025-06-25 15:00	13.4	3.77	305					37.5	39.2
2025-06-25 16:00	13.5	3.46	311					35.0	33.9
2025-06-25 17:00	13.4	2.44	307					27.3	41.9
2025-06-25 18:00	13.3	3.48	305					35.8	42.3
2025-06-25 19:00	14.2	3.53	308					40.1	43.7
2025-06-25 20:00	14.2	4.41	308					-	-
2025-06-25 21:00	12.9	2.69	297					37.4	38.2
2025-06-25 22:00	12.3	2.70	298					29.4	33.4
2025-06-25 23:00	11.2	2.12	296					26.5	28.9
2025-06-26 0:00	9.7	2.67	298					24.7	24.1
2025-06-26 1:00	8.8	4.09	300					27.1	36.1
2025-06-26 2:00	8.3	4.69	297					-	-

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-06-26 3:00	7.2	3.98	300					34.2	33.7
2025-06-26 4:00	6.5	3.99	306					30.4	29.8
2025-06-26 5:00	6.0	3.50	308					40.1	36.4
2025-06-26 6:00	6.1	3.12	314					41.0	38.3
2025-06-26 7:00	6.3	3.74	313					30.6	36.5
2025-06-26 8:00	6.8	3.84	313						35.4
2025-06-26 9:00	7.3	3.87	316						32.8
2025-06-26 10:00	8.4	3.54	311						34.7
2025-06-26 11:00	9.8	2.95	317						32.4
2025-06-26 12:00	12.8	2.11	322						32.2
2025-06-26 13:00	14.4	1.80	313						31.3
2025-06-26 14:00	13.9	2.09	55						30.3
2025-06-26 15:00	14.6	1.49	38						31.1
2025-06-26 16:00	15.4	1.66	71						26.5
2025-06-26 17:00	16.2	1.49	2						26.8
2025-06-26 18:00	17.1	1.82	20						33.2
2025-06-26 19:00	16.2	1.67	44						30.8
2025-06-26 20:00	16.2	1.37	38						31.1
2025-06-26 21:00	16.0	1.09	19						25.2
2025-06-26 22:00	15.3	0.92	29						27.6
2025-06-26 23:00	14.5	0.34	338						32.9
2025-06-27 0:00	14.2	1.64	8						24.4
2025-06-27 1:00	13.9	1.67	26						23.1
2025-06-27 2:00	13.5	2.12	20						23.2
2025-06-27 3:00	11.1	0.35	353						24.2
2025-06-27 4:00	9.9	0.00	93						30.7
2025-06-27 5:00	9.6	0.20	69						33.5
2025-06-27 6:00	12.9	0.23	260						33.8
2025-06-27 7:00	14.3	0.29	128						31.0
2025-06-27 8:00	17.4	0.63	304						30.8
2025-06-27 9:00	19.2	0.89	288						30.9
2025-06-27 10:00	16.5	1.78	93						29.1
2025-06-27 11:00	17.8	1.56	84						36.2
2025-06-27 12:00	18.2	1.68	95						30.9
2025-06-27 13:00	19.1	1.44	185						31.0
2025-06-27 14:00	20.1	1.54	209						30.3

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-06-27 15:00	19.5	2.01	154						26.1
2025-06-27 16:00	19.8	2.25	102						33.4
2025-06-27 17:00	19.6	1.61	58						33.6
2025-06-27 18:00	19.4	1.59	79						32.6
2025-06-27 19:00	19.7	1.07	337						24.8
2025-06-27 20:00	19.0	2.24	198						28.4
2025-06-27 21:00	18.1	3.07	183						31.1
2025-06-27 22:00	16.5	2.93	178						25.3
2025-06-29 12:00	20.6	2.18	204	-					
2025-06-29 13:00	22.4	2.96	226	34.9					
2025-06-29 14:00	22.6	4.54	273	-					
2025-06-29 15:00	21.7	4.15	264	36.8					
2025-06-29 16:00	20.0	1.64	276	34.1					
2025-06-29 17:00	19.7	1.76	104	35.7					
2025-06-29 18:00	19.3	3.16	74	36.0					
2025-06-29 19:00	18.6	5.06	78	-					
2025-06-29 20:00	18.7	5.08	87	-					
2025-06-29 21:00	18.5	5.19	85	-					
2025-06-29 22:00	17.3	4.06	79	32.5					
2025-06-29 23:00	16.7	2.23	83	37.1					
2025-06-30 0:00	16.1	0.91	174	40.3					
2025-06-30 1:00	14.7	0.58	213	41.1					
2025-06-30 2:00	13.7	1.72	188	40.2					
2025-06-30 3:00	12.9	1.78	176	40.5					
2025-06-30 4:00	12.4	0.95	139	39.0					
2025-06-30 5:00	13.1	1.35	122	35.6					
2025-06-30 6:00	13.4	1.57	85	38.3					
2025-06-30 7:00	14.6	2.02	98	38.7					
2025-06-30 8:00	14.5	3.40	96	40.0					
2025-06-30 9:00	15.3	4.35	88	-					
2025-06-30 10:00	16.4	3.67	122	31.8					
2025-06-30 11:00	16.9	4.33	115	-					
2025-06-30 12:00	16.9	4.28	117	-					
2025-06-30 13:00	17.8	3.04	142	32.4					
2025-06-30 14:00	18.9	2.72	150	29.6					

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-06-30 15:00	18.8	1.65	131	29.0					
2025-06-30 16:00	17.2	4.50	56	-					
2025-06-30 17:00	16.9	5.45	56	-					
2025-06-30 18:00	15.9	5.81	56	-					
2025-06-30 19:00	14.8	5.66	54	-					
2025-06-30 20:00	14.2	4.67	58	-					
2025-06-30 21:00	14.3	4.56	59	-					
2025-06-30 22:00	13.2	3.09	67	47.5					
2025-06-30 23:00	11.7	2.56	67	49.0					
2025-07-01 0:00	10.8	3.53	68	50.7					
2025-07-01 1:00	9.7	3.88	72	50.3					
2025-07-01 2:00	8.7	3.36	69	50.5					
2025-07-01 3:00	7.7	2.32	64	50.2					
2025-07-01 4:00	7.4	2.11	56	50.0					
2025-07-01 5:00	7.0	1.59	64	50.2					
2025-07-01 6:00	7.5	2.13	59	46.5					
2025-07-01 7:00	9.1	3.13	70	44.4					
2025-07-01 8:00	10.6	3.00	68	43.5					
2025-07-01 9:00	11.7	3.76	65	46.5					
2025-07-01 10:00	12.9	2.61	57	44.0					
2025-07-01 11:00	14.3	2.61	52	42.0					
2025-07-01 12:00	15.0	2.47	37	37.2					
2025-07-01 13:00	15.6	2.20	31	35.6					
2025-07-01 14:00	16.5	1.98	335	30.4					
2025-07-01 15:00	17.9	2.11	300	30.3					
2025-07-01 16:00	18.3	2.67	309	29.0					
2025-07-01 17:00	18.6	3.11	301	30.3					
2025-07-01 18:00	18.8	4.20	292	-					
2025-07-01 19:00	18.9	4.80	265	-					
2025-07-01 20:00	18.6	5.82	262	-					
2025-07-01 21:00	18.1	7.25	262	-					
2025-07-01 22:00	17.3	6.50	263	-					
2025-07-01 23:00	16.4	5.86	260	-					
2025-07-02 0:00	15.4	5.67	247	-					
2025-07-02 1:00	14.4	6.77	250	-					
2025-07-02 2:00	14.3	7.57	255	-					

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-07-02 3:00	13.3	7.82	255	-					
2025-07-02 4:00	12.4	6.85	255	-					
2025-07-02 5:00	11.8	6.91	256	-					
2025-07-02 6:00	12.7	6.81	251	-					
2025-07-02 7:00	14.3	6.94	252	-					
2025-07-02 8:00	15.8	6.81	247	-					
2025-07-02 9:00	17.5	7.28	254	-					
2025-07-02 10:00	18.4	9.01	267	-					
2025-07-02 11:00	17.9	7.42	272	-					
2025-07-02 12:00	15.3	5.37	291	-					
2025-07-02 13:00	15.9	6.81	298	-					
2025-07-02 14:00	14.1	3.51	307	-					
2025-07-02 15:00	13.7	2.96	302	-					
2025-07-03 10:00	10.6	1.88	18		-	-			
2025-07-03 11:00	11.4	2.41	50		40.7	-			
2025-07-03 12:00	12.4	2.20	32		38.2	61.2			
2025-07-03 13:00	13.0	2.20	28		36.2	59.8			
2025-07-03 14:00	13.4	2.13	23		32.8	55.4			
2025-07-03 15:00	13.7	2.07	23		30.4	54.4			
2025-07-03 16:00	14.5	2.28	11		28.6	51.5			
2025-07-03 17:00	14.8	2.20	19		28.6	51.3			
2025-07-03 18:00	14.8	1.77	360		24.5	46.4			
2025-07-03 19:00	14.6	1.45	5		24.3	45.4			
2025-07-03 20:00	14.9	2.36	314		34.2	51.9			
2025-07-03 21:00	14.5	3.04	305		32.2	59.6			
2025-07-03 22:00	13.5	2.05	296		28.1	52.1			
2025-07-03 23:00	12.8	1.42	10		33.5	53.2			
2025-07-04 0:00	11.9	1.57	67		38.2	53.5			
2025-07-04 1:00	10.8	1.06	45		36.2	56.9			
2025-07-04 2:00	10.0	1.77	53		37.7	61.3			
2025-07-04 3:00	9.0	2.33	50		37.0	60.2			
2025-07-04 4:00	8.4	2.92	31		29.4	46.3			
2025-07-04 5:00	7.8	2.94	23		29.7	46.4			
2025-07-04 6:00	8.5	2.64	41		36.8	57.7			
2025-07-04 7:00	9.9	2.72	62		40.6	64.8			

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-07-04 8:00	11.2	2.34	52		44.0	67.4			
2025-07-04 9:00	10.4	4.41	66		-	-			
2025-07-04 10:00	9.5	3.96	67		49.3	76.8			
2025-07-04 11:00	10.3	4.61	59		-	-			
2025-07-04 12:00	10.3	5.34	59		-	-			
2025-07-04 13:00	11.0	4.79	58		-	-			
2025-07-04 14:00	13.0	4.64	62		-	-			
2025-07-04 15:00	13.9	3.45	62		42.2	65.6			
2025-07-04 16:00	14.6	3.55	65		42.7	69.8			
2025-07-04 17:00	14.9	3.09	63		44.1	69.3			
2025-07-04 18:00	15.0	2.95	57		46.2	68.6			
2025-07-04 19:00	14.8	2.57	49		44.5	69.9			
2025-07-04 20:00	14.1	2.42	47		45.3	71.1			
2025-07-04 21:00	13.0	2.63	57		48.5	72.0			
2025-07-04 22:00	11.5	2.62	54		50.1	74.0			
2025-07-04 23:00	9.6	2.28	67		49.9	74.6			
2025-07-05 0:00	7.7	2.52	66		49.7	74.3			
2025-07-05 1:00	6.5	2.47	70		45.6	73.6			
2025-07-05 2:00	6.0	2.41	308		49.8	76.0			
2025-07-05 3:00	5.7	1.99	274		47.3	75.8			
2025-07-05 4:00	6.1	2.65	292		45.7	75.4			
2025-07-05 5:00	6.3	3.43	299		49.9	77.5			
2025-07-05 6:00	6.2	3.88	296		54.2	79.0			
2025-07-05 7:00	6.0	2.48	278		58.4	78.2			
2025-07-05 8:00	5.8	2.57	287		54.4	75.2			
2025-07-05 9:00	6.9	3.06	297		53.7	75.1			
2025-07-05 10:00	8.3	2.49	290		51.5	74.8			
2025-07-05 11:00	10.3	3.14	295		49.2	73.3			
2025-07-05 12:00	12.5	5.19	308		-	-			
2025-07-05 13:00	13.3	6.28	310		-	-			
2025-07-05 14:00	13.7	6.79	304		-	-			
2025-07-05 15:00	14.1	7.01	306		-	-			
2025-07-05 16:00	13.0	6.25	307		-	-			
2025-07-05 17:00	13.2	6.71	305			-			
2025-07-06 18:00	14.3	6.94	297				-		-

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-07-06 19:00	14.1	6.85	296				-		-
2025-07-06 20:00	14.0	6.10	303				-		-
2025-07-06 21:00	13.8	6.10	309				-		-
2025-07-06 22:00	13.2	3.31	298				34.9		37.7
2025-07-06 23:00	12.1	1.97	288				33.1		28.8
2025-07-07 0:00	10.9	1.79	288				31.9		22.8
2025-07-07 1:00	9.5	1.73	283				31.8		23.0
2025-07-07 2:00	8.1	2.40	291				33.8		30.2
2025-07-07 3:00	6.1	1.52	309				35.7		34.1
2025-07-07 4:00	4.7	1.17	272				36.5		30.9
2025-07-07 5:00	4.3	1.41	294				36.2		31.0
2025-07-07 6:00	4.8	1.47	311				34.1		27.9
2025-07-07 7:00	6.8	1.91	308				33.9		23.1
2025-07-07 8:00	8.0	2.32	316				36.9		23.6
2025-07-07 9:00	10.7	2.14	304				36.0		22.0
2025-07-07 10:00	11.3	2.59	314				37.1		24.8
2025-07-07 11:00	13.6	2.73	300				29.0		25.8
2025-07-07 12:00	16.1	2.77	296				26.0		26.0
2025-07-07 13:00	17.6	3.13	296				32.3		28.7
2025-07-07 14:00	18.6	3.63	289				30.9		31.0
2025-07-07 15:00	19.9	4.16	264				33.9		34.4
2025-07-07 16:00	20.5	5.08	257				-		-
2025-07-07 17:00	21.4	5.47	263				-		-
2025-07-07 18:00	21.9	5.45	260				-		-
2025-07-07 19:00	22.3	5.33	262				-		-
2025-07-07 20:00	21.7	5.36	240				-		-
2025-07-07 21:00	20.5	5.39	232				-		-
2025-07-07 22:00	18.7	3.83	230				29.7		29.1
2025-07-07 23:00	17.1	2.65	245				27.8		25.4
2025-07-08 0:00	16.8	3.29	241				28.2		23.3
2025-07-08 1:00	15.7	3.20	251				24.0		24.6
2025-07-08 2:00	15.9	4.52	257				-		-
2025-07-08 3:00	15.2	4.79	256				-		-
2025-07-08 4:00	14.2	4.42	256				-		-
2025-07-08 5:00	14.0	2.21	255				32.8		32.8
2025-07-08 6:00	15.1	1.47	247				31.9		27.6

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-07-08 7:00	17.2	3.47	224				30.5		31.8
2025-07-08 8:00	19.1	4.64	233				-		-
2025-07-08 9:00	20.6	5.84	236				-		-
2025-07-08 10:00	21.6	5.35	240				-		-
2025-07-08 11:00	23.9	5.18	238				-		-
2025-07-08 12:00	25.0	5.76	236				-		-
2025-07-08 13:00	25.1	6.34	233				-		-
2025-07-08 14:00	25.7	7.25	236				-		-
2025-07-08 15:00	25.8	8.10	240				-		-
2025-07-08 16:00	25.1	7.24	240				-		-
2025-07-08 17:00	25.1	8.20	234				-		-
2025-07-08 18:00	24.4	7.17	246				-		-
2025-07-08 19:00	24.3	6.97	230				-		-
2025-07-08 20:00	23.6	5.99	236				-		-
2025-07-08 21:00	22.1	3.99	220				28.9		31.8
2025-07-08 22:00	21.0	4.29	206				-		29.2
2025-07-08 23:00	19.4	3.19	198				22.7		27.1
2025-07-09 0:00	17.6	2.47	198				21.5		24.1
2025-07-09 1:00	16.5	2.24	194				32.0		23.3
2025-07-09 2:00	15.6	1.98	182				23.8		27.9
2025-07-09 3:00	15.0	2.22	174				23.2		28.8
2025-07-09 4:00	14.6	1.00	165				23.5		30.8
2025-07-09 5:00	14.7	1.63	123				27.7		23.6
2025-07-09 6:00	15.4	1.93	100				26.8		27.7
2025-07-09 7:00	16.2	2.88	120				28.3		35.4
2025-07-09 8:00	17.4	4.12	137				31.3		38.4
2025-07-09 9:00	18.7	5.04	159				-		-
2025-07-09 10:00	20.4	7.32	164				-		-
2025-07-09 11:00	22.3	7.26	181						-
2025-07-12 8:00	12.6	6.82	238				-	-	
2025-07-12 9:00	13.4	7.37	241				-	-	
2025-07-12 10:00	14.5	7.61	247				-	-	
2025-07-12 11:00	15.6	7.05	258				-	-	
2025-07-12 12:00	16.1	8.02	263				-	-	
2025-07-12 13:00	15.7	6.52	279				-	-	

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-07-12 14:00	13.2	6.34	308				-	-	
2025-07-12 15:00	12.8	5.63	307				-	-	
2025-07-12 16:00	12.3	5.73	310				-	-	
2025-07-12 17:00	11.3	5.19	308				-	-	
2025-07-12 18:00	11.2	5.41	310				-	-	
2025-07-12 19:00	10.5	5.92	308				-	-	
2025-07-12 20:00	9.9	5.89	310				-	-	
2025-07-12 21:00	8.7	6.42	307				-	-	
2025-07-12 22:00	7.5	5.33	303				-	-	
2025-07-12 23:00	6.6	1.88	287				43.0	33.1	
2025-07-13 0:00	5.8	1.29	291				31.2	17.6	
2025-07-13 1:00	5.8	3.84	304				34.8	33.4	
2025-07-13 2:00	5.6	2.71	298				40.2	26.7	
2025-07-13 3:00	5.4	3.96	307				37.2	27.2	
2025-07-13 4:00	4.7	3.53	300				35.5	21.9	
2025-07-13 5:00	4.7	3.58	303				37.6	25.1	
2025-07-13 6:00	5.1	4.31	303				-	-	
2025-07-13 7:00	6.6	4.74	308				-	-	
2025-07-13 8:00	7.8	3.83	301				44.6	37.6	
2025-07-13 9:00	7.9	2.90	298				47.8	41.0	
2025-07-13 10:00	8.4	3.13	291				49.9	43.0	
2025-07-13 11:00	9.1	2.51	295				51.5	44.3	
2025-07-13 12:00	10.5	2.79	287				55.2	46.6	
2025-07-13 13:00	10.5	3.77	296				52.8	43.7	
2025-07-13 14:00	9.9	4.07	301				51.4	40.4	
2025-07-13 15:00	10.1	4.47	308				-	-	
2025-07-13 16:00	9.8	6.40	304				-	-	
2025-07-13 17:00	9.7	3.75	304				43.8	39.3	
2025-07-13 18:00	9.8	5.57	309				-	-	
2025-07-13 19:00	9.6	6.19	310				-	-	
2025-07-13 20:00	9.0	5.89	307				-	-	
2025-07-13 21:00	8.7	6.39	308				-	-	
2025-07-13 22:00	7.6	4.87	305				-	-	
2025-07-13 23:00	6.4	4.60	301				-	-	
2025-07-14 0:00	5.6	4.24	304				-	-	
2025-07-14 1:00	4.6	4.40	306				-	-	

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-07-14 2:00	4.2	3.88	304				34.2	17.3	
2025-07-14 3:00	3.8	3.92	304				33.1	17.9	
2025-07-14 4:00	3.8	3.64	299				33.6	28.8	
2025-07-14 5:00	4.0	3.27	296				34.2	22.3	
2025-07-14 6:00	4.3	3.58	303				37.3	23.2	
2025-07-14 7:00	5.4	1.51	290				40.2	26.3	
2025-07-14 8:00	6.3	1.10	308				40.8	26.2	
2025-07-14 9:00	7.7	2.85	298				-	-	
2025-08-12 13:00	5.7	2.68	304	-		-			
2025-08-12 14:00	6.8	2.31	301	31.3		27.9			
2025-08-12 15:00	6.8	2.05	311	40.8		26.8			
2025-08-12 16:00	6.7	1.79	357	36.5		33.3			
2025-08-12 17:00	7.8	2.11	322	39.5		27.3			
2025-08-12 18:00	7.6	1.39	17	32.5		27.4			
2025-08-12 19:00	7.8	1.30	2	29.9		26.7			
2025-08-12 20:00	7.7	1.26	335	30.4		24.8			
2025-08-12 21:00	7.2	1.01	316	25.5		21.5			
2025-08-12 22:00	6.4	0.70	48	29.5		19.6			
2025-08-12 23:00	5.9	0.20	53	31.3		26.8			
2025-08-13 0:00	5.6	0.14	32	34.2		28.2			
2025-08-13 1:00	5.5	0.72	30	32.6		23.3			
2025-08-13 2:00	5.2	1.28	37	35.3		24.3			
2025-08-13 3:00	5.1	0.84	42	34.5		29.3			
2025-08-13 4:00	4.3	0.07	61	34.9		30.1			
2025-08-13 5:00	3.5	0.07	62	31.3		26.2			
2025-08-13 6:00	4.1	1.67	67	32.7		24.6			
2025-08-13 7:00	5.5	2.20	74	36.1		20.3			
2025-08-13 8:00	6.9	2.06	89	30.8		32.3			
2025-08-13 9:00	7.1	2.54	125	33.6		28.1			
2025-08-13 10:00	8.4	2.43	141	32.1		25.4			
2025-08-13 11:00	10.0	2.81	154	40.9		27.5			
2025-08-13 12:00	10.1	2.27	143	36.2		26.9			
2025-08-13 13:00	11.1	2.07	158	32.0		25.0			
2025-08-13 14:00	11.2	1.99	149	26.2		23.7			
2025-08-13 15:00	11.8	1.82	159	27.6		25.8			

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-08-13 16:00	12.3	1.35	162	27.0		25.0			
2025-08-13 17:00	12.7	1.48	177	25.6		24.9			
2025-08-13 18:00	12.7	2.04	195	28.3		21.7			
2025-08-13 19:00	12.5	2.52	199	25.9		22.6			
2025-08-13 20:00	11.7	2.47	174	27.8		19.6			
2025-08-13 21:00	10.4	2.21	140	28.5		24.1			
2025-08-13 22:00	9.5	1.90	141	28.9		24.8			
2025-08-13 23:00	8.7	1.94	124	31.8		26.0			
2025-08-14 0:00	8.5	2.05	113	32.7		28.3			
2025-08-14 1:00	8.2	1.89	110	32.3		29.0			
2025-08-14 2:00	7.6	1.96	102	33.3		27.1			
2025-08-14 3:00	7.2	2.21	94	33.5		23.5			
2025-08-14 4:00	6.4	2.32	93	34.8		26.3			
2025-08-14 5:00	6.0	2.47	102	35.5		21.7			
2025-08-14 6:00	6.0	2.47	101	36.0		25.3			
2025-08-14 7:00	6.8	2.34	99	38.7		21.8			
2025-08-14 8:00	8.2	3.15	108	35.4		30.6			
2025-08-14 9:00	9.7	3.94	141	36.9		32.9			
2025-08-14 10:00	10.7	3.81	136	43.9		32.5			
2025-08-14 11:00	12.2	4.20	154	-		-			
2025-08-14 12:00	13.9	4.18	159	-		-			
2025-08-14 13:00	14.4	3.67	169	49.4		30.3			
2025-08-14 14:00	14.3	3.80	181	50.1		32.6			
2025-08-14 15:00	15.1	3.79	193	44.4		36.4			
2025-08-14 16:00	15.2	4.25	204	-		-			
2025-08-14 17:00	14.9	2.62	204	35.0		24.5			
2025-08-14 18:00	14.4	2.20	213	21.3		22.5			
2025-08-14 19:00	14.0	2.66	182	24.3		30.0			
2025-08-14 20:00	13.7	2.56	178	28.7		24.0			
2025-08-14 21:00	13.4	2.81	174	31.0		23.9			
2025-08-14 22:00	11.8	1.62	166	32.0		21.4			
2025-08-14 23:00	10.7	1.42	169	35.0		20.2			
2025-08-15 0:00	10.0	0.54	194	35.9		16.8			
2025-08-15 1:00	10.8	0.95	29	37.8		17.7			
2025-08-15 2:00	10.3	0.06	136	37.1		17.2			
2025-08-15 3:00	10.5	0.06	43	35.3		16.9			

Date and Time (hour ending)	Avg. Air Temperature (°C)	Avg. Wind Speed (m/s)	Avg. Wind Direction (°)	Leq 1 h (dBA)					
				R7	R8	R9	R10	R11	R12
2025-08-15 4:00	9.4	0.13	125	37.9		19.7			
2025-08-15 5:00	9.1	0.01	150	34.4		19.5			
2025-08-15 6:00	9.1	0.17	89	34.3		26.3			
2025-08-15 7:00	11.3	0.00	74	39.2		25.0			
2025-08-15 8:00	12.0	0.09	118	35.9		28.7			
2025-08-15 9:00	11.8	0.08	258	46.4		22.5			
2025-08-15 10:00	13.1	0.17	293	37.3		40.2			
2025-08-15 11:00	16.0	0.68	318	37.5		44.8			
2025-08-15 12:00	16.2	1.53	315	-		-			