



Stratford Mining Complex

Monthly Compliance Noise Monitoring – March 2025

Stratford Coal Pty Ltd

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Basis of Report

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Stratford Coal Pty Ltd (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

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1.0 Introduction

Stratford Coal Pty Limited (SCPL), a wholly owned subsidiary of Yancoal Australia Limited (Yancoal), has commissioned SLR Consulting Australia Pty Ltd (SLR) to conduct monthly noise monitoring for the Stratford Mining Complex (SMC) operations guided by the requirements of the Stratford Mining Complex (Stratford Extension Project) Noise Management Plan (NMP), Document No. NMP-R04-A, dated January 2022 and approved on 4 October 2022. This report presents the results and findings from the operator-attended noise surveys conducted across Thursday 27 March 2025 and Friday 28 March 2025.

Current operations at the SMC are now focused on the progressive rehandling of waste material to achieve the final landform design, following completion of active mining in April 2024.

The objectives of the noise monitoring programme for this operating period were as follows:

- Conduct three rounds of external operator-attended noise measurements at the eight nominated locations in the NMP as well as additional locations, representative of receivers in the area surrounding the SMC. The eight external operator-attended noise measurement locations are:
 - o Atkins Off Wenhams Cox Road, Stratford
 - o Clarke Off Wenhams Cox Road, Stratford
 - Wadland Off Wenhams Cox Road, Stratford
 - Hall Upper Avon Road, Craven
 - Lowrey Off Crowthers Road, Stratford
 - Pryce Jones The Bucketts Way, Craven
 - o Van der Drift Wood Street, Stratford
 - Greenwood Off Glen Road, Craven

Monitoring will align with the latest NMP (January 2022) once access to the proposed new monitoring site "Williams" has been granted and agreed upon. Monitoring at "Williams" will replace monitoring at "Clarke" and "Atkins" to better represent and determine compliance with receivers to the North-West. It is noted that monitoring locations "Clarke" and "Atkins" are currently being used, and will continue to be used until access to monitoring location "Williams" is granted.

Noise monitoring will occur for a day, evening and night period. The day, evening and night periods being those defined in the NSW Industrial Noise Policy (EPA 2000).

- The operator will quantify and characterise the maximum (LAmax) and the intrusive (LAeq and LCeq) noise level contributions from SMC operations over a 15 minute measurement period. In addition, the operator will quantify and characterise the overall levels of ambient noise (i.e. LAmax, LA1, LA10, LA50, LA90, and LAeq) over the 15 minute measurement interval.
- Assess the noise emissions of SMC and determine compliance with respect to the limits contained in the NMP.

In addition to monthly noise monitoring at the nominated residential receivers, the NMP requires quarterly verification monitoring of the Real Time Noise Monitor (RTNM) network.

Prior to transitioning into mine closure in July 2024, attended noise monitoring also required quarterly noise monitoring of rail activity. The last train railed from the SMC was in July 2024,



hence no rail noise monitoring has been undertaken. The decommissioning of the SMC CHPP and associated rail infrastructure has commenced.

The following report uses specialist acoustic terminology. An explanation of common terms is provided in **Appendix A**.

2.0 SMC Noise Criteria

The figures presented in this Section are extracts from the *Stratford Extension Project* (SSD-4966) Development Consent (as modified) dated 14 January 2021.

2.1 Project Approval Schedule 3 Environmental Performance Conditions

ACQUISITION UPON REQUEST

 Upon receiving a written request for acquisition from an owner of the land listed in Table 1, the Applicant shall acquire the land in accordance with the procedures in conditions 5-6 of Schedule 4.

Table 1: Land subject to acquisition upon request

Property ID							
40/51/Cr1 – L. Blanch	42 - D. Blanch						
Cr7 – Pryce-Jones	Cr 2 – Boorer						

Note: To interpret the location referred to in Table 1 see the applicable figure in Appendix 5.

However, the obligation to acquire a property does not apply if the Applicant has a negotiated agreement with the owner/s of the relevant land that sets aside acquisition under the terms of this consent, and the Applicant has advised the Department in writing of the terms of this agreement.

ADDITIONAL MITIGATION UPON REQUEST

2. Upon receiving a written request from the owner of any residence on the land listed in Tables 1 and 2, the Applicant shall implement additional noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner. These measures must be reasonable and feasible and directed towards reducing the noise impacts of the development on the residence.

If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

Table 2: Land subject to additional noise mitigation upon request

Property ID	Property ID		
31(1) - Isaac	60 – Healy / Greenwood		
44 – Cross / Jane	36 – Wallace		
37 – Worth	29 – Ward		
15(3) – Falla			

Note: To interpret the locations referred to in Table 2 see the applicable figure in Appendix 5.

However, the obligation to implement noise mitigation measures does not apply if the Applicant has a negotiated agreement with the owner/s of the relevant residence or land that sets aside noise mitigation measures under the terms of this consent, and the Applicant has advised the Department in writing of the terms of this agreement.



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Hours of Operation

3. The Applicant shall comply with the operating hours in Table 3.

Table 3: Operating hours

Activity	Operating Hours		
 Open cut mining operations in the Bowens Road North and Roseville West Extension pits Recovery and transport of CHPP rejects for re-processing Construction of the noise mitigation bunds on the western side of the Avon North, Roseville West Extension and Stratford East pits 	7 am to 6 pm, 7 days per week		
 Open cut mining operations in the Avon North and Stratford East pits Coal processing, loading and dispatch of product coal trains 	24 hours a day, 7 days per		
Maintenance activities	week		

Noise Criteria

 The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 4 at any residence on privately-owned land.

Table 4: Noise criteria dB(A)

Land	Day L _{Aeq(15 min)}	Evening L _{Aeq(15 min)}	Night L _{Aeq(15 min)}	Night L _{A1 (1 min)}	
40/51/Cr1 – L. Blanch	43	43	43	50	
Cr7 – Pryce-Jones	43	43	43	49	
42 - D. Blanch	42	42	42	50	
Cr 2 – Boorer	41	41	41	49	
31(1) - Isaac	40	40	40	48	
36 – Wallace	39	39	39	47	
44 - Cross / Jane					
60 – Healy / Greenwood	39	39	39	45	
37 – Worth	38	38 38		46	
29 – Ward	38	38	37	45	
23 – Bagnall	37	37	37	45	
31(2) - Isaac					
296 – Watson					
297 – Bosma					
298 – Yates	36	36	36	45	
15(3) - Falla	39	35	35	45	
15(2) – Falla	36	35	35	45	
Stratford Village	37	36	35	45	
All other privately- owned residences 35		35	35	45	

To interpret the locations referred to in Table 4 see the applicable figure(s) in Appendix 5.



Stratford village is shown on the figure(s) in Appendix 5.

Noise generated by the development is to be measured in accordance with the relevant requirements of the *NSW Industrial Noise Policy*. Appendix 6 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

However, these criteria do not apply if the Applicant has a negotiated agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.

2.2 Project Approval Appendix 6: Noise Compliance Assessment

Applicable Meteorological Conditions

- 1. The noise criteria in Table 4 in Schedule 3 are to apply to a receiver under all meteorological conditions except under:
 - (a) wind speeds greater than 3 m/s at 10 m above ground level; or
 - (b) temperature inversion conditions between 1.5°C and 3°C/100 m and wind speed greater than 2 m/s at 10 m above ground level; or
 - (c) temperature inversion conditions greater than 3°C/100 m.

Determination of Meteorological Conditions

2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station required under condition 25 of Schedule 3.

Compliance Monitoring

- 3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.
- 4. This monitoring must be carried out at least 12 times in each calendar year (ie at least once in every calendar month), unless the Secretary directs otherwise.
- 5. Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time), in particular the requirements relating to:
 - (a) monitoring locations for the collection of representative noise data;
 - (b) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment;
 - (c) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration; and
 - (d) the use of an appropriate modifying factor for low frequency noise to be applied during compliance testing at any individual residence if low frequency noise is present (in accordance with the INP) and before comparison with the specified noise levels in the consent.

The implementation and transitional arrangements for the NSW Noise Policy for Industry (NPfI) notes the following:

The NSW Industrial Noise Policy (2000) will continue to apply where it is referenced in existing statutory instruments (such as consents and licences), except for the NSW Industrial Noise Policy Section 4 modifying factors, which will be transitioned to the Noise Policy for Industry (2017) Fact Sheet C through a NSW Industrial Noise Policy application note. This approach has been taken because the Noise Policy for Industry (2017) modification factor approach reflects more recent understanding of the impact of tonal and low-frequency noise on the community.

As such appropriate modifying factors such as low frequency noise have been assessed against NPfI requirements.



2.3 **EPL Noise Limits – SMC Operations**

The noise limits specified in EPL 5161 are consistent with the noise criteria specified in SSD-4966

2.4 **Noise Limits at the Nominated Attended Noise Monitoring** Locations

The site-specific noise limits for the eight nominated attended noise monitoring locations are summarised in Table 1.

Table 1 **Noise Limits for the Nominated Noise Monitoring Locations**

Locality		siveness Cr LAeq(15minute		Night Criterion LA1(1minute)		
	Day	Evening	Night	Night		
Atkins ^{1,2}	35	35	35	45		
Clarke ^{1,2}	37	37	37	45		
Wadland ^{1,2}	37	37	37	45		
Hall	35	35	35	45		
Lowrey	35	35	35	45		
Pryce Jones ³	43	43	43	49		
Van der Drift	37	36	35	45		
Greenwood	35	35	35	45		

Note 1: Owned by Stratford Coal Pty Ltd

2.5 Rail Noise Goals

The NMP has adopted ARTC's EPL 3142 noise goals as criteria for the assessment of SMC rail transport noise. The noise objectives specified in ARTC's EPL 3142 apply at 1 m from the façade of affected residential properties and are provided in Table 2.

Table 2 **ARTC EPL 3142 Noise Objectives**

Descriptor	Rail Traffic Goal dBA
Daytime/Evening LAeq(15hour)	65
Night-time LAeq(9hour)	60
Maximum Pass-by LAmax	85

The SMC is no longer actively mining and all rail movements to and from the site have been suspended. As such there is no current requirement to measure SMC related rail movements.



Criteria adopted from Bagnall as a guide only and are not definitive at this location. Note 2:

Note 3: Land subject to acquisition upon request.

3.0 Operational Noise Monitoring Methodology

3.1 NMP Monitoring Requirements

Noise monitoring will occur for a day, evening and night period. The day, evening and night periods being those defined in the NSW *Industrial Noise Policy* (EPA 2000).

- The operator will quantify and characterise the maximum (LAmax) and the intrusive (LAeq and LCeq) noise level contributions from SMC operations over a 15 minute measurement period. In addition, the operator will quantify and characterise the overall levels of ambient noise (i.e. LAmax, LA1, LA10, LA50, LA90, and LAeq) over the 15 minute measurement interval.
- Assess the noise emissions of SMC and determine compliance with respect to the limits contained in the NMP.

Relevant modifying factors are assessed by analysis of the measured SMC Leq spectrum where applicable.

3.2 General Requirements

All acoustic instrumentation employed throughout the monitoring programme has been designed to comply with the requirements of AS IEC 61672.1 – 2019 *Electroacoustics – Sound level meters*, AS IEC 60942 2017 *Electroacoustics – Sound calibrators* and carried current NATA or manufacturer calibration certificates. Instrument calibration was checked before and after each measurement survey, with the variation in calibrated levels not exceeding ±0.5 dBA.

All operator-attended noise measurements were conducted using a one-third octave integrating Brüel & Kjær Type 2250L (s/n 3003389) together with a Svantek SV30A acoustical calibrator (s/n 39462).

3.3 Operator-attended Noise Monitoring Locations

Noise monitoring was conducted in accordance with the requirements of the NMP.

Operator-attended noise measurements were conducted during the day, evening and night-time period for a minimum of 15 minutes per period at each of the eight noise monitoring locations. Additional noise monitoring at Wadland has been implemented to enable a robust acoustic relationship between the Clarke and Wadland monitoring locations and the Bagnall residence to the east.

The details of the operator-attended SMC operational noise monitoring locations are contained within **Table 3** and shown generally in **Figure 1**. During the operator-attended noise measurements, the character and relative contribution of ambient noise sources and SMC contributions were determined by observations on site.



Table 3 SMC Operational Noise Monitoring Locations

Monitoring Location	Receiver Type	Resident /	Monitoring Location - MGA Zone 56			
Location		Owner	Easting (m)	Northing (m)		
Atkins	Mine owned Residence	SCPL	401544	6447134		
Clarke	Mine owned Residence	SCPL	404406	6445783		
Wadland	Intermediate Monitoring Location	SCPL	404739	6445272		
Hall	Residence	Hall	398269	6443709		
Lowrey	Residence	Lowrey	399193	6445879		
Pryce Jones	Residence	Pryce Jones	400807	6441846		
Van der Drift	Residence	SCPL	400171	6445775		
Greenwood	Residence	Greenwood	402617	6440457		

3.4 Extrapolation Methodology for Intermediate Monitoring Locations

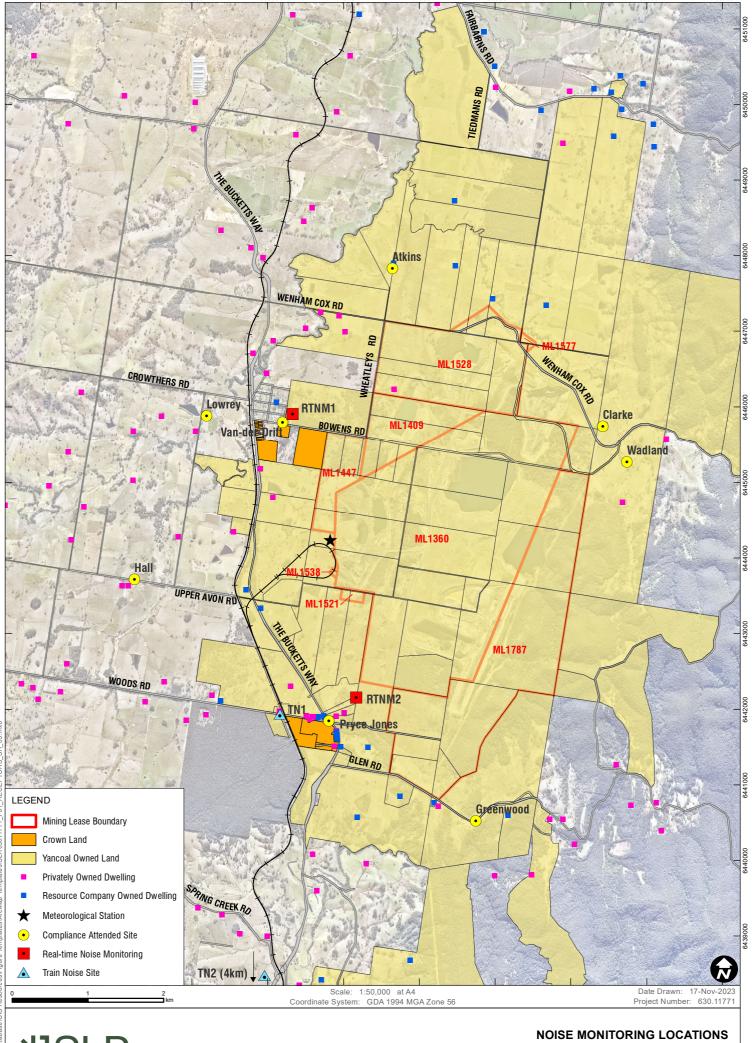
The NPfI provides the most contemporary advice on compliance assessment techniques for industrial noise assessment. The NPfI provides a direct commentary on the use of 'alternative or intermediate' locations to determine compliance as follows:

Direct measurement at alternative or intermediate location/s

Where direct measurement of noise at a compliance location is not practical because of poor signal-to-noise ratios (that is, extraneous noise is louder than the noise under investigation), or where access to the location has been denied or is unavailable, measurements at intermediate locations between the source and the receiver location, where signal-to-noise ratios are higher, may be a viable option. For this approach to be effective there needs to be well-established theoretical and/or empirical relationships between the intermediate location and the receiver location in terms of noise exposure. Noise modelling may be one option to establish this relationship. The techniques under the above section 'Direct measurement at a receiver location' would also be relevant in terms of quantifying the level of noise from the source at the intermediate location(s). Where this technique is relied upon, it is the responsibility of the proponent to demonstrate a robust acoustic relationship between the compliance location and the intermediate location.

As such an ENM noise model of typical site operations is used to predict noise levels at the Bagnall residence for all monitoring periods. The noise model is calibrated using the operator attended noise monitoring results (where available) and weather conditions at the time of the Clarke and Wadland noise monitoring.





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3.5 Compliance Assessment Protocol

In accordance with the NMP the results of noise monitoring at the compliance attended monitoring sites will be compared against the relevant noise criteria. The comparison will be undertaken following the exclusion of data where meteorological conditions are outside those provided in Appendix 6 of SSD-4966 and extraneous noise sources.

If SMC related noise contributions exceed the noise criteria under applicable meteorological conditions, then in accordance with the NMP:

- The exceedance will be reported to the Operations Manager;
- A second reading will be undertaken at the location within 75 minutes; and
- The exceedance will be reported in the Monthly Environmental Monitoring Report and Annual Review.

If the second reading is also confirmed to exceed the relevant criteria, then:

- The sustained exceedance will be deemed to be a noise incident:
- The noise incident will be reported to DPHI and EPA as a non-compliance in accordance with Section 10 of the NMP;
- Follow up monitoring will be conducted at the location within one week of the recorded non-compliance; and
- The non-compliance and the outcome of the follow-up monitoring will be reported in the Monthly Environmental Monitoring Report and Annual Review.

A confirmed noise incident (i.e. sustained exceedance and non-compliance) as determined by attended noise monitoring will be deemed to be a breach of the noise criteria.

4.0 Results

4.1 Operator-attended Noise Monitoring – SMC Operational Activity

Operator-attended noise measurements were conducted across Thursday 27 March 2025 and Friday 28 March 2025. Results of the operator-attended noise surveys at residential locations are provided in **Sections 4.1.1 to 4.1.7.**

A summary of the results for the attended noise monitoring are displayed graphically in **Appendix B** showing LAmax, LAeq, and LAeq(<1.25kHz) in 1-second intervals throughout the monitoring survey.

Ambient noise levels presented include all noise sources such as transport (roads, rail and aircraft), fauna (insects, frogs, birds, and bats), farm animals (cows, bulls), the natural environment (wind, wind in trees), domestic noises, other industrial operations as well as SMC noise emissions. Weather data during the monitoring period has been obtained from the weather station located on the SMC site.

The tables below provide the following information on operator-attended noise surveys:

- Date and start time, operator and equipment details.
- Monitoring location.
- Wind velocity (m/s) and temperature (°C) at the measurement location.
- Typical maximum (LAmax) and contributed LAeq(15minute) noise levels.



4.1.1 Operator-attended Noise Survey Results – 'Atkins'

Results of the operator-attended noise surveys at 'Atkins' are provided in **Table 4**. Monitoring location 'Atkins' represents residential receptors located to the north of the site.

Table 4 Operator-attended Noise Survey Results – 'Atkins'

Period	Date/ Start Time/	(15minute) (dBA)						Modifying Factors	Description of Noise Emissions and Typical
	Weather	LAmax	L _A 1	LA10	LA90	LAeq (≤1.25kHz) Applicable		Applicable	Maximum Noise Levels (dBA)
Day	28/03/2025 10:21 19°C 0.5m/s NW	77	56	38	29	48	47	N/A	Site related noise events: SMC: Audible SMC ops 23-36 LAeq(15minute) contribution 28 dBA Other noise events: Insect noise 28-30 Birdsong 38-56 Traffic noise 70-77
Evening	27/03/2025 21:10 20°C 0.6m/s SSE	63	62	61	59	61	40	N/A	Site related noise events: SMC: Barely audible SMC ops 21-26 LAeq(15minute) contribution 23 dBA Other noise events: Insect/frog noise 53-63
Night	27/03/2025 22:57 19°C 0.3m/s SSE	45	42	40	38	39	33	No	Site related noise events: SMC: Audible SMC ops 28-45 LAeq(15minute) contribution 33 dBA LAmax 45 dBA Other noise events: Insect/frog noise 38-43

Note: N/A = Not Applicable due to non-compliant weather conditions and/or SMC being inaudible or 5 dB or more below the noise criteria.

SMC operations were audible during all periods of the operator attended noise surveys at this location. During the day, evening, and night operator attended noise surveys, SMC operations generated an LAeq(15minute) noise contribution of 28 dBA, 23 dBA, and 33 dBA respectively. During the night-time, SMC generated an LAmax noise level of up to 45 dBA.

Given that noise levels were within the adopted noise criteria at Atkins, noise levels at Williams would also be within the noise criteria of 35 dBA LAeq(15minute) and 45 dBA LA1(1minute).



4.1.2 Operator-attended Noise Survey Results – 'Clarke' and 'Wadland'

Results of the operator-attended noise surveys at 'Clarke' and 'Wadland' are provided in **Table 5**. These monitoring locations represent residential receptors located to the east of the site and are SMC owned properties. The monitoring results at 'Clarke' and 'Wadland', under appropriate meteorological conditions, are used to determine SMC contributions at the 'Bagnall' residence located further to the east.

Table 5 Operator-attended Noise Survey Results – 'Clarke' and 'Wadland'

Period	Date/ Start Time/		y Nois lute) (d	e Desc BA)	riptor			Modifying Factors	Description of Noise Emissions and Typical
. 00	Weather	LAmax	La1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Applicable	Maximum Noise Levels (dBA)
Day -	28/03/2025	56	54	54	39	50	32	N/A	Site related noise events:
Clarke	09:39								SMC: Audible
	19°C								SMC ops 25-33
	0.3m/s NW								LAeq(15minute) contribution 28 dBA
									Other noise events:
									Insect noise 38-56
									Birdsong 45-55
									Traffic noise 33
Day - Wadland	28/03/2025 09:59 19°C	63	53	45	37	43	36	N/A	Site related noise events: SMC: Inaudible Other noise events:
	0.7m/s NNW								Insect noise 38-42
									Birdsong 42-63
									Aeroplane 50
Evening - Clarke	27/03/2025 21:38	56	54	52	43	48	23	N/A	Site related noise events:
Clarke	21.30								SMC: Barely audible
	20°C 0.3m/s SSE								SMC ops 18-28 LAeq(15minute) contribution 21 dBA
									Other noise events: Insect/frog noise 43-56
									Wind in trees <40
_									
Evening - Wadland	27/03/2025 21:57	60	58	57	52	55	25	N/A	Site related noise events:
vvaulaliu	21.57								SMC: Barely audible
	20°C								SMC ops 17-19
	0.6m/s SSE								LAeq(15minute) contribution 18 dBA
									Other noise events:
									Insect/frog noise 50-60
									Aeroplane 25-37



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Period	Date/ Start Time/		ry Nois nute) (d	e Desc BA)	riptor			Modifying Factors	Description of No Emissions and Ty	ypical
. 51154	Weather	LAmax	L _A 1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Applicable	Maximum Noise I (dBA)	_evels
Night - Clarke	27/03/2025 22:33 19°C 0.8m/s SE	62	46	41	38	41	34	N/A	Site related noise of SMC: Inaudible Other noise events Insect/frog noise Traffic noise Aeroplane Livestock Wind in trees Extraneous	
Night - Wadland	27/03/2025 22:13 19°C 0.6m/s SSE	58	56	56	52	54	24	N/A	Site related noise of SMC: Inaudible Other noise events Insect/frog noise Aeroplane Wind in trees	

Note:

N/A = Not Applicable due to non-compliant weather conditions and/or SMC being inaudible or 5 dB or more below the noise criteria.

At 'Clarke', SMC operations were audible during the day, and evening periods of the operator attended noise surveys. During the day, and evening operator attended noise surveys, SMC operations generated an Laeq(15minute) noise contribution of 30 dBA and 21 dBA respectively.

At 'Wadland', SMC operations were audible during the evening period of the operator attended noise surveys. During the evening operator attended noise surveys, SMC operations generated an LAeq(15minute) noise contribution of 18 dBA.



Noise modelling has been conducted to the 'Bagnall' residence using an ENM model for all monitoring periods where SMC operations were audible. The results of the noise modelling are provided in **Table 6.**

Table 6 Predicted Noise Levels – 'Bagnall'

Period and Location	Meteorological Parameters	Noise Level at Monitoring Location LAeq(15minute)	Predicted Noise Level at Bagnall LAeq(15minute)	Propagation Attenuation – Monitoring Location to Bagnall (dB)
Day – Clarke	Temp 19°C Humidity 60% Wind Speed 0.3m/s Wind Direction 335° Lapse Rate -0.4°C/100m	28 dBA	15 dBA	12.8 dB
Evening – Clarke	Temp 20°C Humidity 80% Wind Speed 0.3m/s Wind Direction 172° Lapse Rate 0.1°C/100m	21 dBA	8 dBA	12.6 dB
Evening – Wadland	Temp 20°C Humidity 80% Wind Speed 0.6m/s Wind Direction 170° Lapse Rate 0.3°C/100m	18 dBA	15 dBA	3.0 dB

Note: Humidity data was not available for this monitoring cycle, as such, humidity values of 60% and 80%, have been assumed for the day and evening Bagnall noise predictions respectively.

During the day and evening periods, SMC operations are predicted to generate an LAeq(15minute) noise contribution of up to 15 dBA at 'Bagnall'.



4.1.3 Operator-attended Noise Survey Results – 'Hall'

Results of the operator-attended noise surveys at 'Hall' are provided in **Table 7.** Monitoring location 'Hall' represents residential receptors located to the southwest of the site.

Table 7 Operator-attended Noise Survey Results – 'Hall'

Period	Date/ Start Time/		ry Nois nute) (d	e Desc BA)	riptor			Modifying Factors	Description of N Emissions and	Typical
	Weather	LAmax	La1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Applicable	Maximum Noise (dBA)	Levels
Day	28/03/2025	78	54	47	35	49	48	No	Site related noise	e events:
	11:25								SMC: Audible	
	20°C								SMC ops	29-39
	0.4m/s SW								LAeq(15minute) contribution	33 dBA
									Other noise ever	nts:
									Insect noise	40-55
									Birdsong	46-58
									Aeroplane	49-51
									Traffic	78
Evening	27/03/2025	62	61	60	48	57	33	No	Site related noise	e events:
	19:17								SMC: Audible	
	21°C								SMC ops	20-34
	1.3m/s ESE								LAeq(15minute) contribution	32 dBA
									Other noise ever	nts:
									Insect/birdsong	34-60
									Farm noise	27-28
									Livestock	44-58
									Traffic noise	30-37
Night	28/03/2025 00:31	58	56	46	36	43	35	N/A	Site related noise SMC: Audible	e events:
	18°C								SMC ops	16-22
	0.1m/s SSW 3.6°C/100m								LAeq(15minute) contribution	18 dBA
									LAmax	22 dBA
									Other noise ever	nts:
									Insect/frog noise	36-57
									Traffic noise	22-25
									Train noise	25-49
									Livestock	45
									Extraneous	42-45

Note: N/A = Not Applicable due to non-compliant weather conditions and/or SMC being inaudible or 5 dB or more below the noise criteria.

SMC operations were audible during all periods of the operator attended noise surveys at this location. During the day, evening, and night operator attended noise surveys, SMC operations generated an LAeq(15minute) noise contribution of 33 dBA, 32 dBA, and 18 dBA respectively. During the night-time, SMC generated an LAmax noise level of up to 22 dBA.

Meteorological data from the onsite SMC automatic weather station indicated a lapse rate in excess of 3.0°C/100m during the night-time period of the operator attended measurement at this location. As such, the criteria during this period at this location is not applicable.



4.1.4 Operator-attended Noise Survey Results – 'Lowrey'

Results of the operator-attended noise surveys at 'Lowrey' are provided in **Table 8**. Monitoring location 'Lowrey' represents residential receptors located to the west of the site and west of The Bucketts Way.

Table 8 Attended Noise Survey Results – 'Lowrey'

Period	Date/ Start Time/		y Nois iute) (d	e Desci BA)	riptor			Modifying Factors	Description of Noise Emissions and Typical
	Weather	LAmax	La1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Applicable	Maximum Noise Levels (dBA)
Day	28/03/2025	62	51	48	39	44	39	N/A	Site related noise events:
	09:13								SMC: Audible
	19°C								SMC ops 29-32
	0.3m/s SE								LAeq(15minute) contribution 30 dBA
									Other noise events:
									Insect noise 47-55
									Birdsong 62
									Traffic noise 38
									Aeroplane 56
Evening	27/02/2025	62	62	62	59	61	42	No	Site related noise events:
Evening (1 st Survey)	27/03/2025 20:10	63	02	02	59	01	42	INO	SMC: Audible
									SMC ops 26-43
	21°C 0.5m/s SSE								LAeq(15minute)
	U.3III/S 33E								contribution 40 dBA
									Other noise events:
									Insect/frog noise 40-63
Evening	27/03/2025	55	54	53	51	52	31	No	Site related noise events:
(2 nd Survey)	20:45								SMC: Audible
	20°C								SMC ops 26-36
	1.2m/s SE								LAeq(15minute) contribution 34 dBA
									Other noise events:
									Insect/frog noise 56-63
									Traffic noise 21-27
Night	28/03/2025	52	51	49	44	47	29	N/A	Site related noise events:
	00:04								SMC: Audible
	18°C								SMC ops 24-31
	0.3m/s S								LAeq(15minute) contribution 27 dBA
									LAmax 31 dBA
									Other noise events:
									Insect/frog noise 43-52
									Traffic noise 28-34

Note: N/A = Not Applicable due to non-compliant weather conditions and/or SMC being inaudible or 5 dB or more below the noise criteria.



SMC operations were audible during all periods of the operator attended noise surveys at this location.

During the day operator attended noise survey, SMC operations generated an LAeq(15minute) noise contribution of 30 dBA.

During the evening operator attended noise survey, SMC operations generated an LAeq(15minute) noise level of 40 dBA. In accordance with the NMP, given SMC operations exceeded the evening noise criteria by 5 dB, a secondary operator attended noise survey was conducted within 75 minutes of the original noise survey. During the secondary evening operator attended noise survey, SMC operations generated an LAeq(15minute) noise level of 34 dBA as such a sustained exceedance and non-compliance was not recorded and noise levels from SMC operations are not considered to have breached the evening noise criteria at this location in accordance with the NMP.

During the night operator attended noise surveys, SMC operations generated an LAeq(15minute) and LA1(1minute) noise contribution of 27 dBA and 31 dBA respectively.



4.1.5 Operator-attended Noise Survey Results – 'Pryce-Jones'

Results of the operator-attended noise surveys at 'Pryce-Jones' are provided in **Table 9.** Monitoring location 'Pryce Jones' represents residential receptors located in Craven to the south of the site.

Table 9 Attended Noise Survey Results - 'Pryce-Jones'

Period	Date/ Start Time/		y Nois iute) (d	e Desci BA)	riptor			Modifying Factors	Description of N Emissions and	ГурісаІ
	Weather	LAmax	La1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Applicable	Maximum Noise (dBA)	Levels
Day	28/03/2025	76	69	61	34	57	56	N/A	Site related noise	e events:
	12:24								SMC: Audible	
	22°C								SMC ops	25-28
	1.2m/s NE								LAeq(15minute) contribution	25 dBA
									Other noise even	ts:
									Birdsong	37-66
									Traffic noise	63-76
									Train noise	50-65
Evening	27/03/2025	77	71	60	41	58	57	N/A	Site related noise	e events:
	18:53								SMC: Inaudible	
	22°C								Other noise even	ts:
	1.6m/s ESE								Insect/frog noise	40-43
									Birdsong	48-57
									Traffic noise	35-77
									Train noise	35-66
Night	28/03/2025	71	63	53	46	53	48	N/A	Site related noise	e events:
	00:54								SMC: Inaudible	
	18°C								Other noise even	ts:
	0.4m/s S								Insect/frog noise	48-53
									Traffic noise	50-71
									Train noise	50-57

Note: N/A = Not Applicable due to non-compliant weather conditions and/or SMC being inaudible or 5 dB or more below the noise criteria.

SMC operations were inaudible during the evening and night-time period of the operator attended noise surveys at this location. During the day operator attended noise survey, SMC operations generated an LAeq(15minute) noise contribution of 25 dBA.



4.1.6 Operator-attended Noise Survey Results – 'Van der Drift'

Results of the operator-attended noise surveys at 'Van der Drift' are provided in **Table 10**.

Table 10 Attended Noise Survey Results - 'Van der Drift'

Period	Date/ Start Time/		ry Nois lute) (d	e Desc BA)	riptor			Modifying Factors	Description of Noise Emissions and Typical
	Weather	LAmax	La1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Applicable	Maximum Noise Levels (dBA)
Day	28/03/2025 10:42	58	51	42	32	40	36	No	Site related noise events: SMC: Audible
	19°C 1.7m/s NE								SMC ops 27-39 LAeq(15minute) contribution 35 dBA Other noise events:
									Birdsong 44-57 Dog noise 58 Residential noise 35 Traffic noise 42
Evening	27/03/2025 19:43 21°C 0.3m/s SE	70	69	67	53	64	42	No	Site related noise events: SMC: Audible SMC ops 33-47 LAeq(15minute) contribution 36 dBA Other noise events: Insect/frog noise 56-69 Traffic noise 44-50 Dog noise 31-40
Night (1 st Survey)	27/03/2025 23:20 19°C 0.5m/s SSE	56	53	45	39	43	42	2 dB	Site related noise events: SMC: Audible SMC ops 33-47 LAeq(15minute) contribution¹ 39 dBA LA1(1minute) 45 dBA Other noise events: Insect/frog noise 40-43 Traffic noise 33-39 Livestock 43-45 Dog noise 45-56
Night (2 nd survey)	27/03/2025 23:41 19°C 0.2m/s S	57	43	39	36	38	34	No	Site related noise events: SMC: Audible SMC ops 25-41 LAeq(15minute) contribution 32 dBA LA1(1minute) 42 dBA Other noise events: Insect/frog noise 37-39 Traffic noise 28-46 Dog noise 47-57



Pe	Date/	Primar (15mir	_		riptor			Modifying	Description of Noise Emissions and Typical
	 Weather	LAmax	L _A 1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Applicable	Maximum Noise Levels (dBA)

Note: N/A = Not Applicable due to non-compliant weather conditions and/or SMC being inaudible or 5 dB or more below

the noise criteria.

Note 1: Inclusive of modifying factor correction

SMC operations were audible during all periods of the operator attended noise surveys at this location.

During the day operator attended noise survey, SMC operations generated an LAeq(15minute) noise contribution of 35 dBA.

During the evening operator attended noise survey, SMC operations were estimated to generate an LAeq(15minute) noise contribution of 36 dBA following exclusion of non-mining related noise at the time of the survey, that was compliant with the evening noise criteria. Following post-processing of the evening noise monitoring survey results at this location, it was determined that SMC operations had an LAeq(15minute) noise contribution of 40 dBA, a 4 dB exceedance of the relevant noise criteria at this location.

SMC operations were considered to be compliant with the evening criteria at the time of the operator attended noise survey (19:43). As such no exceedance was reported to the SMC Operations Manager in accordance with the Section 7.2.4 *Compliance Assessment Protocol* of the NMP and a re-measure was not conducted at this location. Given that a re-measure was not conducted, a sustained exceedance was not verified at this location.

Notwithstanding, a second survey was conducted and completed at the 'Lowrey' noise monitoring location (20:45) within 75 minutes of completing the evening operator attended noise survey at the Van der Drift location, with noise levels measured to reduce by 6 dB, indicating that a sustained exceedance may not have occurred during the evening at this location.

During the night operator attended noise survey (23:20), SMC operations generated an LAeq(15minute) and LA1(1minute) noise level of 39 dBA (inclusive of a 2 dB modifying factor correction) and 45 dBA respectively. In accordance with the NMP, given SMC operations exceeded the LAeq(15minute) nigh-time noise criteria by 4 dB, a secondary operator attended noise survey was conducted within 75 minutes of the original noise survey (23:41). During the secondary night-time operator attended noise survey, SMC operations generated an LAeq(15minute) and LA1(1minute) noise level of 32 dBA and 42 dBA respectively and are therefore compliant with the respective night-time noise criteria at this location.

A summary of operator-attended noise measurement compliance is provided in **Section 6.0** (refer to **Table 13**).



4.1.7 Operator-attended Noise Survey Results – 'Greenwood'

Results of the operator-attended noise surveys at 'Greenwood' are provided in **Table 11**.

Table 11 Attended Noise Survey Results - 'Greenwood'

Period	Date/ Start Time/		ry Nois nute) (d	e Desc IBA)	riptor			Modifying Factors	Description of Noise Emissions and Typical
1 0110 0	Weather	LAmax	L _A 1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Applicable	Maximum Noise Levels (dBA)
Day	28/03/2025 12:45 23°C 1.5m/s ENE	59	51	44	33	41	38	N/A	Site related noise events: SMC: Inaudible Other noise events: Insect noise 35-37 Birdsong 42-59
									Wind in trees 38-49
Evening	27/03/2025 18:28 22°C 1.0m/s E	70	54	50	46	49	43	N/A	Site related noise events: SMC: Inaudible Other noise events: Insect/frog noise 46-55 Traffic noise 25-70 Residential noise 20-24
Night	28/03/2025 01:19 18°C 0.2m/s S	49	48	47	43	45	18	N/A	Site related noise events: SMC: Inaudible SMC ops <20 LAeq(15minute) contribution <20 dBA LAmax <20 dBA Other noise events: Insect/frog noise 46-48 Extraneous 45-49

Note:

N/A = Not Applicable due to non-compliant weather conditions and/or SMC being inaudible or 5 dB or more below the noise criteria.

SMC operations were inaudible during all periods of the operator attended noise surveys at this location.



5.0 RTNM Verification Monitoring

In accordance with NMP Section 7.2.5 quarterly attended noise monitoring is conducted at the real time noise monitoring sites RTNM1 and RTNM2 to validate and calibrate real-time monitoring results over time. Results of the real-time verification noise monitoring are provided in **Table 12**.

Table 12 Verification Noise Survey Results – Real Time Noise Monitoring Locations

Period	Date/ Start Time/		ry Nois nute) (d	e Desc IBA)	riptor			Description of Noise Emissions and Typical		
	Weather	LAmax	L _A 1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Maximum Nois (dBA)	e Levels	
RTNM1 - Stratford	28/03/2025 11:00	Opera	ator At	tended	Site related noise events:					
	19°C	59	47	42	37	40	36	SMC: Audible SMC ops	33-36	
	1.7m/s E	RTNN	l Resu	ılts				LAeq(15minute)		
						42	371	contribution Other noise eve	34 dBA ents:	
								Alarm	35	
								Insect noise	37-40	
								Birdsong	45-59	
								Aeroplane	48	
RTNM2 - Craven	28/03/2025 12:00	Opera	ator At	tended	d Resu	Its		Site related noise events		
		69	52	42	32	43	36	SMC: Barely a	udible <30	
	21°C 0.5m/s SSW	RTNM Results ²						LAeq(15minute)		
						46	36 ¹	contribution Other noise eve	<30 dBA	
								Insect noise	35-47	
								Birdsong	38-69	
								Road traffic	35-46	

Note 1: LAeq≤630 Hz

Note 2: Noise levels were not recorded during this time period, as such noise levels from the following 15 minute period have been used.

RTNM1

Low-pass filtered noise levels (LAeq≤630 Hz (15minute)) reported from RTNM1 at the time of verification monitoring was 37 dBA. SMC operations were audible during the time of verification monitoring generating an LAeq(15minute) noise contribution of 34 dBA.

RTNM2

Low-pass filtered noise levels (LAeq≤630 Hz (15minute)) reported from RTNM2 at 12:30, the next available data point following the time of verification monitoring, was 36 dBA. SMC operations were barely audible during the time of verification monitoring generating an LAeq(15minute) noise contribution of less than 30 dBA.



6.0 Performance Assessment

Results of the operator-attended noise measurements compared with the relevant noise criteria contained in the SMC Development Consent are given in **Table 13**.

Table 13 Performance Assessment – Operations

Location	Estimated SMC Noise Level LAeq(15minute) (dBA)				ise Crite I5minute)		Compliance		
	Day	Eve	Night	Day	Eve	Night	Day	Eve	Night
Atkins ^{2,4}	28	23	33	35	35	35	No ⁴	Yes ^{4,5}	Yes ^{4,5}
Clarke ^{2,4}	28	21	I/A ¹	37	37	37	Yes ⁴	Yes ^{4,5}	Yes ^{4,5}
Wadland ^{2,4}	I/A ¹	18	I/A ¹	37	37	37	Yes ^{4,5}	Yes ⁴	Yes ⁴
Bagnall ³	15	15	I/A ¹	37	37	37	Yes	Yes	Yes
Hall	33	32	18	35	35	35	Yes	Yes	Yes ⁵
Lowrey (1st survey)	30	40	27	25	25	25	V	Vash	Vac
Lowrey (2 nd survey)	-	34 ⁶	-	35	35	35	Yes	Yes ⁶	Yes
Pryce Jones	25	I/A ¹	I/A ¹	43	43	43	Yes	Yes	Yes
Van der Drift (1st survey)	35	40	39 ⁸	07	00	0.5	V	NUO7	V6
Van der Drift (2 nd survey)	-	-	32 ⁶	37	36	35	Yes	N/C ⁷	Yes ⁶
Greenwood	I/A ¹	I/A ¹	<20	35	35	35	Yes	Yes	Yes

- Note 1: I/A = Inaudible.
- Note 2: Owned by Stratford Coal Pty Ltd.
- Note 3: Modelled result.
- Note 4: Criteria adopted as a guide only.
- Note 5: Criteria not applicable due to non-compliant weather conditions.
- Note 6: Secondary operator attended noise survey below noise criteria as such a sustained exceedance and noncompliance was not recorded.
- Note 7: Sustained exceedance and non-compliance not confirmed.
- Note 8: Inclusive of modifying factor correction



7.0 Sleep Disturbance

Results of the night period sleep disturbance measurements compared with the relevant noise criteria contained in the Development Consent are given in **Table 14**.

Table 14 Performance Assessment - Sleep Disturbance

Location	Estimated SMC Noise Level LA1(1minute) (dBA)	Noise Criteria LA1(1minute) (dBA)	Compliance
Atkins ^{2,4}	45	45	Yes ⁴
Clarke ^{2,4}	I/A ¹	45	Yes ⁴
Wadland ^{2,4}	I/A ¹	45	Yes ⁴
Bagnall	I/A ¹	45	Yes
Hall	22	45	Yes ⁵
Lowrey	31	45	Yes
Pryce Jones	I/A ¹	49	Yes
Van der Drift (1st survey)	45	45	V
Van der Drift (2 nd survey)	42 ⁶	45	Yes
Greenwood	<20	45	Yes

Note 1: I/A = Inaudible.

Note 2: Owned by Stratford Coal Pty Ltd.

Note 3: Modelled result.

Note 4: Criteria adopted as a guide only.

Note 5: Criteria not applicable due to non-compliant weather conditions.

Note 6: Secondary operator attended noise survey.



8.0 Conclusion

SLR was engaged by SCPL to conduct monthly noise monitoring for SMC operations guided by the requirements of the *Stratford Mining Complex Noise Management Plan* (NMP), Document No. NMP-R04-A, dated January 2022.

Operator-attended noise monitoring was conducted at eight residential receiver locations and the two RTNM locations. Monitoring was completed across Thursday 27 March 2025 and Friday 28 March 2025 in order to determine the noise performance of the SMC operations against the Development Consent conditions and validate the RTNM results.

Based on the measured SMC noise contribution, compliance with the relevant operational noise criteria was achieved at all noise monitoring locations during the day, evening and night monitoring periods under applicable weather conditions with the exception of monitoring locations 'Lowrey' during the evening and 'Van der Drift' during both the evening and night-time.

In accordance with Section 7.2.4 *Compliance Assessment Protocol* of the NMP a second measurement was conducted within 75 minutes with at 'Lowrey' in the evening and 'Van der Drift' in the night-time. Both measurements were determined to be below the noise criteria and as a result a sustained exceedance and non-compliance was not recorded at these locations.

During the evening period at 'Van der Drift' SMC operations were considered to be compliant with the evening criteria at the time of the operator attended noise survey and as such no exceedance was reported to the SMC Operations Manager in accordance with the NMP and a re-measure was not conducted at this location. Given that a re-measure was not conducted a sustained exceedance was not confirmed at this location. However, monitoring conducted at other locations indicate that SMC noise levels were significantly reduced within 75 minutes of completing the evening measurement at 'Van der Drift' indicating that a sustained exceedance may not have occurred during the evening at this location.

Based on the measured noise contribution from SMC operations, compliance with the relevant sleep disturbance noise criteria was achieved at all privately owned noise monitoring locations during the night-time noise monitoring period under applicable weather conditions.





Appendix A Glossary of Acoustic Terminology

Stratford Mining Complex

Monthly Compliance Noise Monitoring – March 2025

Stratford Coal Pty Ltd

SLR Project No.: 630.031384.00001

25 August 2025



1 Sound Level or Noise Level

The terms 'sound' and 'noise' are almost interchangeable, except that 'noise' often refers to unwanted sound.

Sound (or noise) consists of minute fluctuations in atmospheric pressure. the human ear responds to changes in sound pressure over a very wide range with the loudest sound pressure to which the human ear can respond being ten million times greater than the softest. the decibel (abbreviated as dB) scale reduces this ratio to a more manageable size by the use of logarithms.

the symbols SPL, L or LP are commonly used to represent Sound Pressure Level. the symbol LA represents Aweighted Sound Pressure Level. the standard reference unit for Sound Pressure Levels expressed in decibels is 2 x 10⁻⁵ Pa.

2. 'A' Weighted Sound Pressure Level

The overall level of a sound is usually expressed in terms of dBA, which is measured using a sound level meter with an 'A-weighting' filter. This is an electronic filter having a frequency response corresponding approximately to that of human hearing.

People's hearing is most sensitive to sounds at mid frequencies (500 Hz to 4,000 Hz), and less sensitive at lower and higher frequencies. Different sources having the same dBA level generally sound about equally loud.

A change of 1 dB or 2 dB in the level of a sound is difficult for most people to detect, whilst a 3 dB to 5 dB change corresponds to a small but noticeable change in loudness. A 10 dB change corresponds to an approximate doubling or halving in loudness. the table below lists examples of typical noise levels.

7										
Sound Pressure Level (dBA)	Typical Source	Subjective Evaluation								
130	Threshold of pain	Intolerable								
120	Heavy rock concert	Extremely								
110	Grinding on steel	noisy								
100	Loud car horn at 3 m									
90	Construction site with pneumatic hammering	Very noisy								
80	Kerbside of busy street	Land								
70	Loud radio or television	Loud								
60	Department store	Moderate to								
50	General Office	quiet								
40	Inside private Office	Quiet to								
30	Inside bedroom	very quiet								
20	Recording studio	Almost silent								

Other weightings (eg B, C and D) are less commonly used than A-weighting. Sound Levels measured without any weighting are referred to as 'linear', and the units are expressed as dB(lin) or dB.

3 Sound Power Level

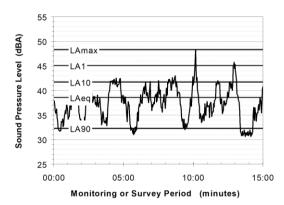
The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or LW, or by the reference unit 10⁻¹² W.

the relationship between Sound Power and Sound Pressure is similar to the effect of an electric radiator, which is characterised by a power rating but has an effect on the surrounding environment that can be measured in terms of a different parameter, temperature.

Statistical Noise Levels

Sounds that vary in level over time, such as road traffic noise and most community noise, are commonly described in terms of the statistical exceedance levels LAN, where LAN is the A-weighted sound pressure level exceeded for N% of a given measurement period. for example, the LA1 is the noise level exceeded for 1% of the time. LA10 the noise exceeded for 10% of the time, and so

The following figure presents a hypothetical 15 minute noise survey, illustrating various common statistical indices of interest.



Of particular relevance, are:

- The noise level exceeded for 1% of the 15 minute interval
- La10 The noise level exceeded for 10% of the 15 minute interval. This is commonly referred to as the average maximum noise level.
- LA90 The noise level exceeded for 90% of the sample period. This noise level is described as the average minimum background sound level (in the absence of the source under consideration), or simply the background level.
- LAeq The A-weighted equivalent noise level (basically, the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding timevarying sound.



5. Frequency Analysis

Frequency analysis is the process used to examine the tones (or frequency components) which make up the overall noise or vibration signal.

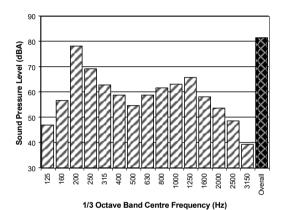
The units for frequency are Hertz (Hz), which represent the number of cycles per second.

Frequency analysis can be in:

- Octave bands (where the centre frequency and width of each band is double the previous band)
- 1/3 octave bands (three bands in each octave band)

Narrow band (where the spectrum is divided into 400 or more bands of equal width)

the following figure shows a 1/3 octave band frequency analysis where the noise is dominated by the 200 Hz band. Note that the indicated level of each individual band is less than the overall level, which is the logarithmic sum of the bands



6. Annoying Noise (Special Audible Characteristics)

A louder noise will generally be more annoying to nearby receivers than a quieter one. However, noise is often also found to be more annoying and result in larger impacts where the following characteristics are apparent:

- Tonality tonal noise contains one or more prominent tones (ie differences in distinct frequency components between adjoining octave or 1/3 octave bands), and is normally regarded as more annoying than 'broad band' noise.
- **Impulsiveness** an impulsive noise is characterised by one or more short sharp peaks in the time domain, such as occurs during hammering.
- Intermittency intermittent noise varies in level with the change in level being clearly audible. An example would include mechanical plant cycling on and Off.
- Low Frequency Noise low frequency noise contains significant energy in the lower frequency bands, which are typically taken to be in the 10 to 160 Hz region.





Appendix B Operator Attended Noise Survey Charts

Stratford Mining Complex

Monthly Compliance Noise Monitoring – March 2025

Stratford Coal Pty Ltd

SLR Project No.: 630.031384.00001

25 August 2025



Figure B1 Day Period – 'Atkins' Operator Attended Noise Survey Results

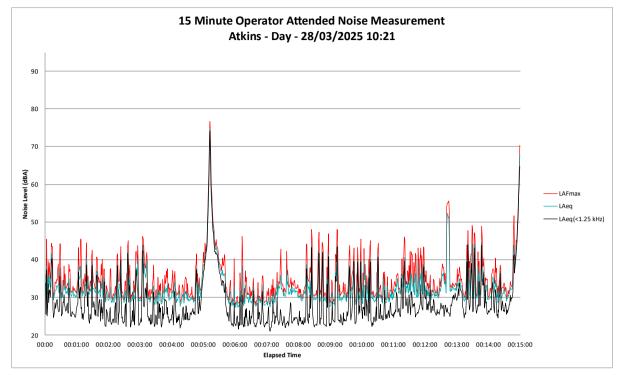


Figure B2 Evening Period – 'Atkins' Operator Attended Noise Survey Results

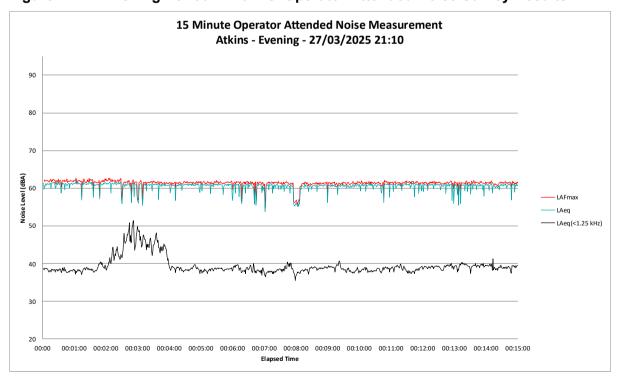




Figure B3 Night Period – 'Atkins' Operator Attended Noise Survey Results

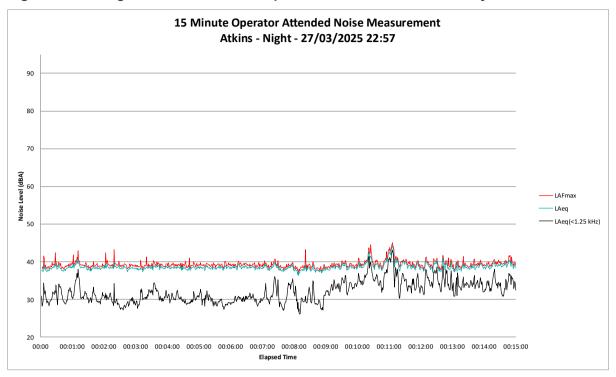


Figure B4 Day Period – 'Clarke' Operator Attended Noise Survey Results

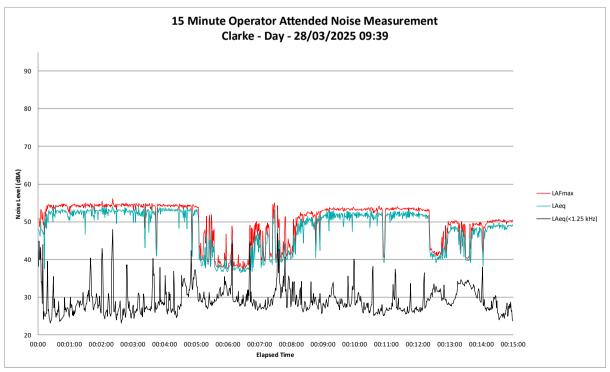




Figure B5 Day Period – 'Wadland' Operator Attended Noise Survey Results

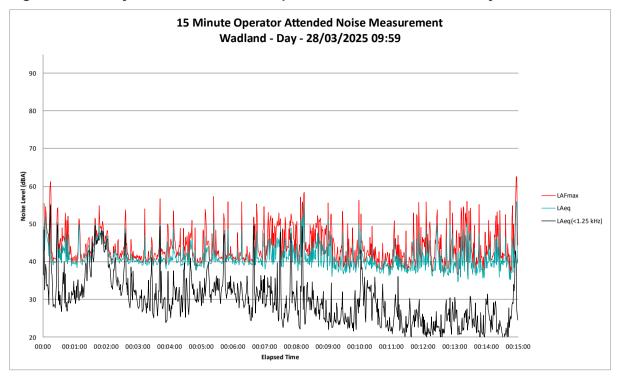


Figure B6 Evening Period – 'Clarke' Operator Attended Noise Survey Results

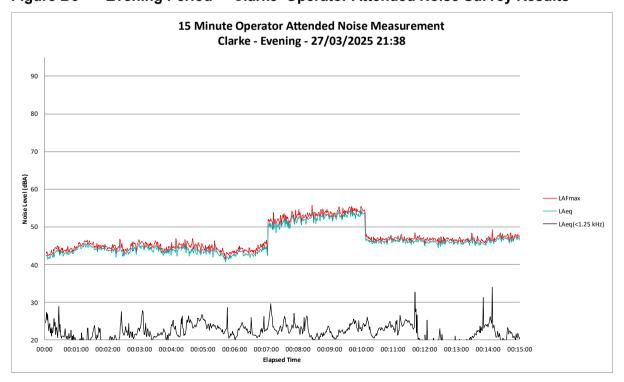




Figure B7 Evening Period – 'Wadland' Operator Attended Noise Survey Results

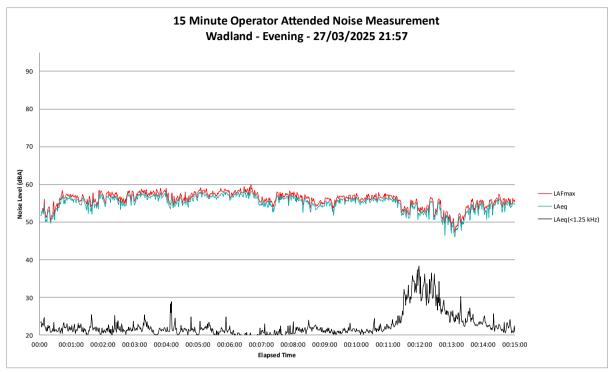


Figure B8 - Night Period - 'Clarke' Operator Attended Noise Survey Results

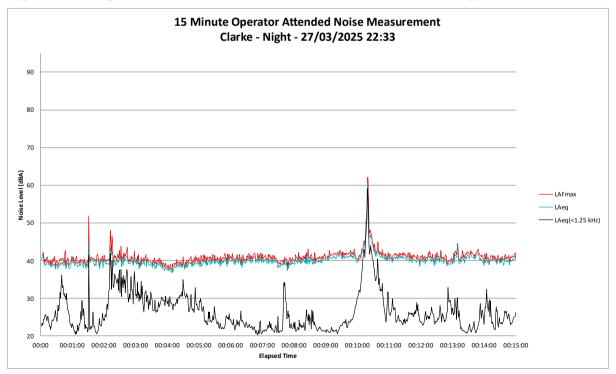




Figure B9 Night Period – 'Wadland' Operator Attended Noise Survey Results

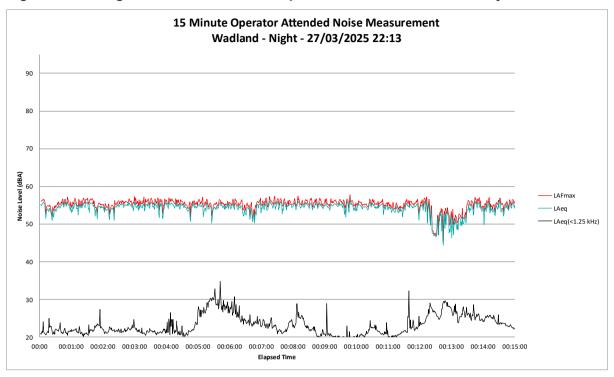


Figure B10 Day Period - 'Hall' Operator Attended Noise Survey Results

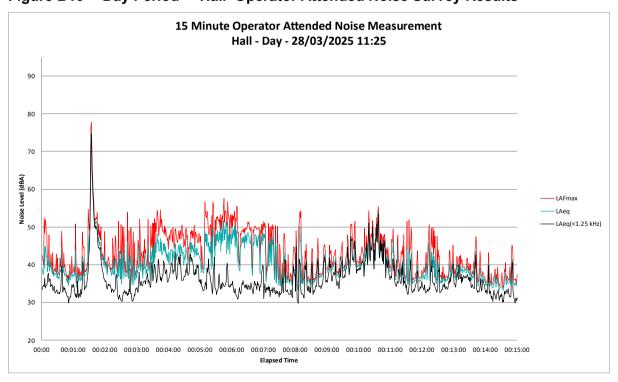




Figure B11 Evening Period – 'Hall' Operator Attended Noise Survey Results

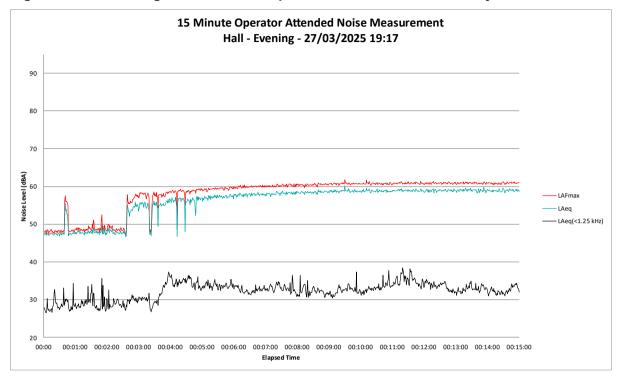


Figure B12 Night Period - 'Hall' Operator Attended Noise Survey Results

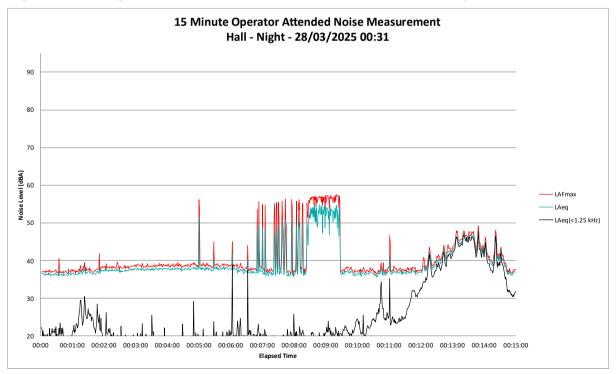




Figure B13 Day Period – 'Lowrey' Operator Attended Noise Survey Results

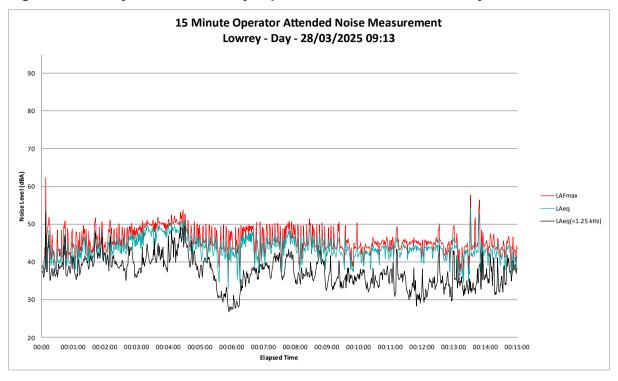


Figure B14 Evening Period – 'Lowrey' Operator Attended Noise Survey Results

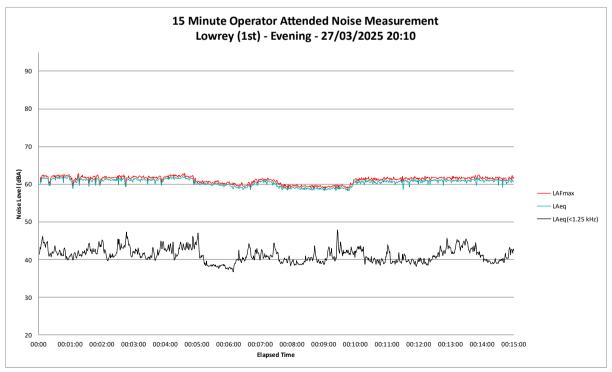




Figure B15 Evening Period – 'Lowrey' Secondary Operator Attended Noise Survey Results

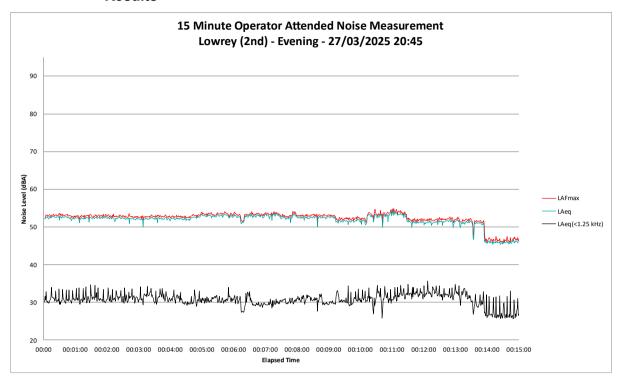


Figure B16 Night Period – 'Lowrey' Operator Attended Noise Survey Results

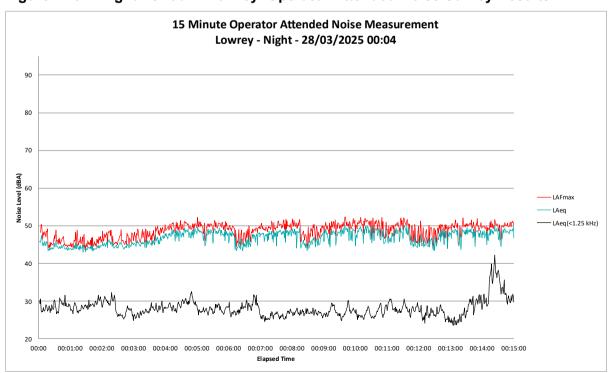




Figure B17 Day Period – 'Pryce-Jones' Operator Attended Noise Survey Results

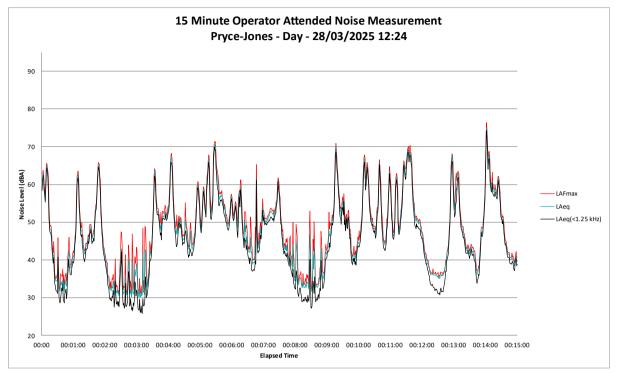


Figure B18 Evening Period - 'Pryce-Jones' Operator Attended Noise Survey Results

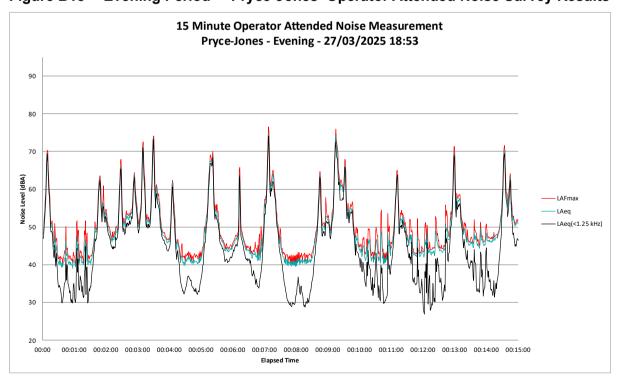




Figure B19 Night Period – 'Pryce-Jones' Operator Attended Noise Survey Results

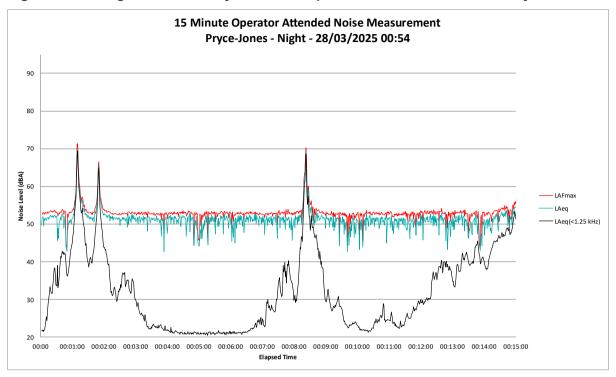


Figure B20 Day Period – 'Van der Drift' Operator Attended Noise Survey Results

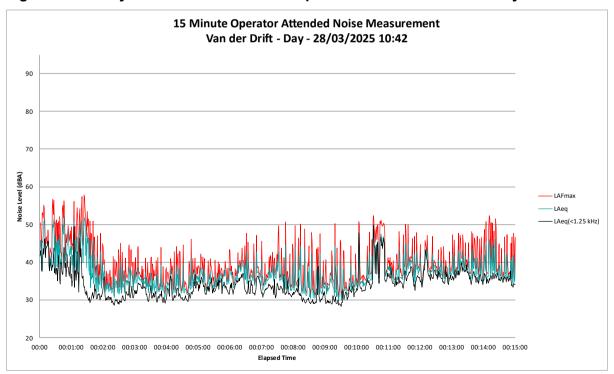




Figure B21 Evening Period - 'Van der Drift' Operator Attended Noise Survey Results

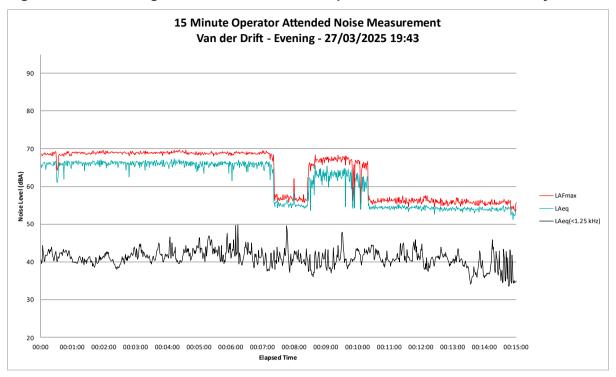


Figure B22 Night Period – 'Van der Drift' Operator Attended Noise Survey Results

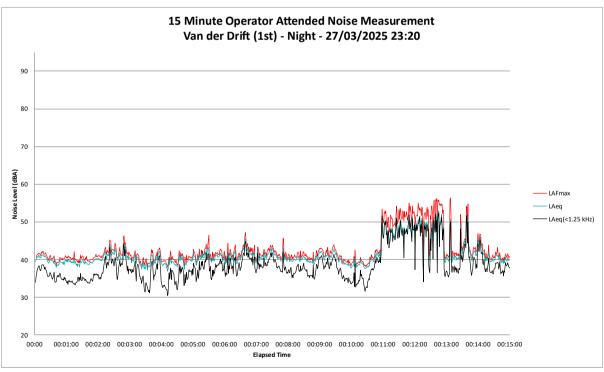




Figure B23 Night Period – 'Van der Drift' Secondary Operator Attended Noise Survey Results

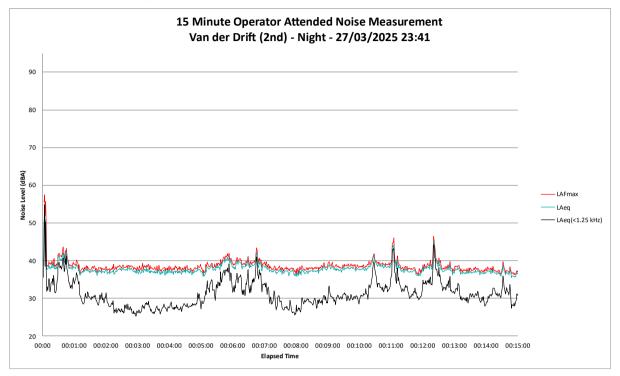


Figure B24 Day Period – 'Greenwood' Operator Attended Noise Survey Results

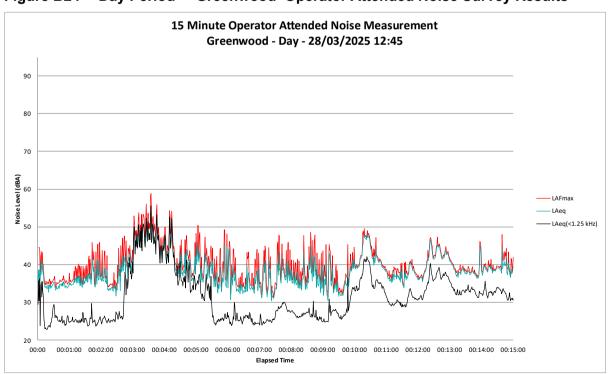




Figure B25 Evening Period – 'Greenwood' Operator Attended Noise Survey Results

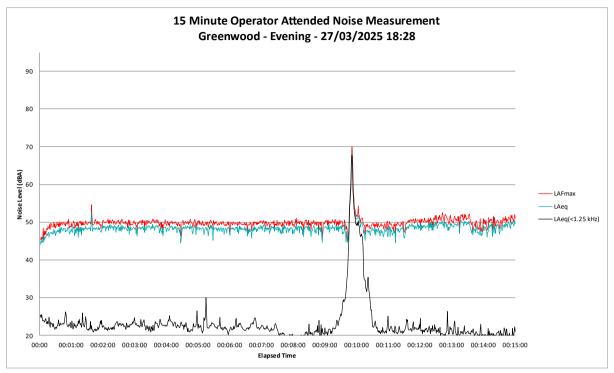


Figure B26 Night Period – 'Greenwood' Operator Attended Noise Survey Results

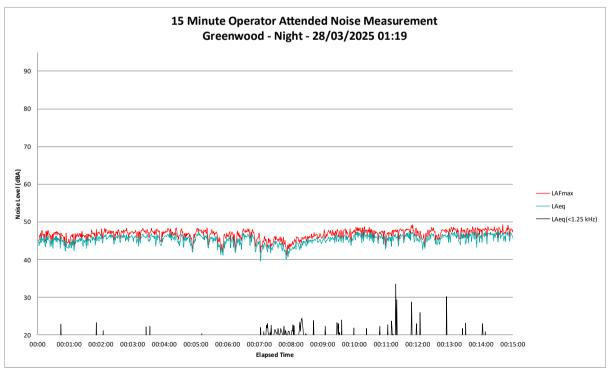




Figure B27 Day Period - 'RTNM1 Operator Attended Noise Survey Results

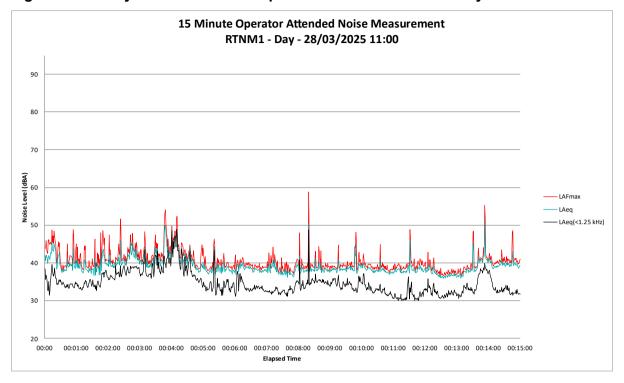


Figure B28 Day Period – 'RTNM2 Operator Attended Noise Survey Results

