

KLF Holdings Pty Ltd Recycling Facility

Noise Compliance Report Camellia Facility - Quarter 4

2024 Prepared for KLF Holdings Pty Ltd December 2024

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Noise Compliance Report Camellia Facility - Quarter 4 2024

KLF Holdings Pty Ltd

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Version	Date	Prepared by	Reviewed by	Comments
1	18/12/2024	Ingrid Smith	Robert Kirwan	

Approved by

Robert Kirwan

Associate Acoustics Consultant 18th December 2024

Ground floor 20 Chandos Street

St Leonards NSW 2065 ABN: 28 141 736 558

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1 Introduction

1.1 Background

EMM Consulting Pty Limited (EMM) has been engaged to complete quarterly attended compliance noise monitoring for the Camellia Waste Recycling Facility (the site) on behalf of KLF Holdings Pty Limited (KLF). This quarterly monitoring is a requirement as detailed in the site's Environment Protection Licence (EPL12700) dated 29 July 2021.

This report presents the results and findings of Quarter 4 2024 attended noise monitoring conducted during the day, evening and night periods of 4 and 5 December 2024.

This report addresses the following conditions which are present in the site's EPL listed below:

- L3.1 L3.4 are addressed in Table 4.3
- L3.5 is addressed in Table 4.2
- L3.6 L3.7 are addressed in Section 1.2 and Figure 1.1
- L3.8 is addressed in Section 3.3.

1.2 Attended monitoring locations

Site monitoring locations are detailed in Table 1.1 and shown on Figure 1.1. It should be noted that Figure 1.1 shows actual monitoring positions, not necessarily the location of residences. However, these are considered representative of the potentially most exposed residences to site noise and therefore compliance at these locations would imply compliance at all residences.

Table 1.1 Attended noise monitoring locations

ID	Location	Coordinates (MGA56)		
		Easting	Northing	
A1	530 John Street, Rydalmere	319369	6255948	
A2	45 John Street, Rydalmere	319319	6256051	
A3	24 Milton Street, Rydalmere	319230	6256149	





A Noise measurement location - attended

Site boundary

Named waterbody

INSET KEY

Major road

NPWS reserve

State forest

Site locality and attended noise monitoring locations

> KLF Holdings Camelia Quarterly noise compliance Figure 1.1



1.3 Terminology and abbreviations

Some definitions of terms and abbreviations which may be used in this report are provided in Table 1.2.

Table 1.2 Terminology and abbreviations

Term/descriptor	Definition
dB(A)	Noise level measurement units are decibels (dB). The "A" weighting scale is used to approximate how humans hear noise.
L _{Amax}	The maximum root mean squared A-weighted noise level over a time period.
L _{A1}	The A-weighted noise level which is exceeded for 1 per cent of the time.
LA1,1minute	The A-weighted noise level which is exceeded for 1 per cent of the specified time period of 1 minute.
LA10	The A-weighted noise level which is exceeded for 10 percent of the time.
LAeq	The energy average A-weighted noise level.
LA50	The A-weighted noise level which is exceeded for 50 per cent of the time, also the median noise level during a measurement period.
LA90	The A-weighted noise level exceeded for 90 percent of the time, also referred to as the "background" noise level and commonly used to derive noise limits.
L _{Amin}	The minimum A-weighted noise level over a time period.
LCeq	The energy average C-weighted noise energy during a measurement period. The "C" weighting scale is used to take into account low-frequency components of noise within the audibility range of humans.
SPL	Sound pressure level. Fluctuations in pressure measured as 10 times a logarithmic scale, with the reference pressure being 20 micropascals.
Hertz (Hz)	The frequency of fluctuations in pressure, measured in cycles per second. Most sounds are a combination of many frequencies together.
AWS	Automatic weather station used to collect meteorological data, typically at an altitude of 10 metres.
VTG	Vertical temperature gradient in degrees Celsius per 100 metres altitude.
Sigma-theta	The standard deviation of the horizontal wind direction over a period of time.
IA	Inaudible. When site noise is noted as IA then there was no site noise at the monitoring location.
NM	Not Measurable. If site noise is noted as NM, this means some noise was audible but could not be quantified.
Day	Monday – Saturday: 7 am to 6 pm, on Sundays and Public Holidays: 8 am to 6 pm.
Evening	Monday – Saturday: 6 pm to 10 pm, on Sundays and Public Holidays: 6 pm to 10 pm.
Night	Monday – Saturday: 10 pm to 7 am, on Sundays and Public Holidays: 10 pm to 8 am.

Appendix A provides further information that gives an indication as to how an average person perceives changes in noise level, and examples of common noise levels.

2 Noise limits

2.1 Environment protection licence

Noise assessment limits are provided in the site's EPL. These are specified for day, evening and night periods at locations which are representative of residences potentially most impacted by site noise. Relevant sections of the EPL are reproduced in Appendix B.1.

2.2 Noise limits

Noise limits based on the site's Environmental Protection License (EPL) L3.1 are provided in Table 2.1.

Table 2.1 Noise impact limits, dB

Location	ID	Day ^L Aeq,15minute	Evening L _{Aeq,} 15minute	Night L _{Aeq,15minute}	Night L _{AFmax}
523-530 John Street Rydalmere	A1	50	48	43	59
28 & 30 Sylvia Street Rydalmere, 33 Nowill Street Rydalmere	-	50	48	43	59
37-45 John Street Rydalmere	A2	50	48	43	59
22 & 24 Milton Street Rydalmere, 33 & 35 John Street Rydalmere	А3	50	48	43	59

2.3 Meteorological conditions

Condition L3.2 of the EPL states the meteorological conditions which the noise limits apply under:

- L3.2 Noise-enhancing meteorological conditions:
- a) The noise limits set out in condition L3.1 apply under the meteorological conditions listed in the table below.
- b) For those meteorological conditions not referred to in condition L3.2(a) table, the noise limits that apply are the noise limits in conditions L3.1 table plus 5 dB.

The table from Condition L3.2 is reproduced in Table 2.2 below.

Table 2.2 Applicable meteorological conditions

Assessment period	Meteorological conditions
Day	Stability Categories A, B, C and D with wind speeds up to and including 3 m/s at 10 m above ground level.
Evening	Stability Categories A, B, C and D with wind speeds up to and including 3 m/s at 10 m above ground level.

Table 2.2 Applicable meteorological conditions

Assessment period	Meteorological conditions
Night	Stability Categories A, B, C and D with wind speeds up to and including 3 m/s at 10 m above ground level; or Stability category E and F with wind speeds up to and including 2 m/s at 10 m above ground level.

- L3.3 For the purpose of condition L3.1;
- a) Day means the period from 7am to 6pm Monday to Saturday and the period from 8am to 6pm Sunday and public holidays.
- b) Evening means the period from 6pm to 10pm.
- c) Night means the period from 10pm to 7am Monday to Saturday and the period from 10pm to 8am Sunday and public holidays

Condition L3.4 specifies the source of meteorological data to be used and method for determining stability categories:

- L3.4 For the purpose of condition L3.2:
- a) The meteorological conditions are to be determined from meteorological data obtained from the meteorological weather station identified as Bureau of Meteorology AWS at Sydney Olympic Park, NSW (Station no 066212).
- b) Stability category shall be determined using the following method from Fact Sheet D of the Noise Policy for Industry (NSW EPA, 2017):
 - i. Use of sigma-theta data (section D1.4).

2.4 Other considerations

Monitoring and reporting have been done in accordance with the two NSW EPA documents, 'Noise Policy for Industry' (NPfI) issued in October 2017 and the 'Approved methods for the measurement and analysis of environmental noise in NSW' (Approved Methods) issued in January 2022.

3 Methodology

3.1 Overview

Attended environmental noise monitoring was done in general accordance with Australian Standard AS1055 'Acoustics, Description and Measurement of Environmental Noise' and relevant NSW requirements.

Meteorological data was obtained from the Sydney Olympic Park automatic weather station (AWS) (station ID 066212) which allowed correlation of atmospheric parameters during measured noise levels. Extracted sections of the weather data are reproduced in Appendix D.

3.2 Attended noise monitoring

During this survey, attended noise monitoring was conducted during the day/evening/night period at each location. The duration of each measurement was 15 minutes. Atmospheric conditions were also measured at each monitoring location using a hand held device.

Measured sound levels from various sources were noted during each measurement, and particular attention was paid to the extent of site's contribution (if any) to measured levels. At each monitoring location, the site-only $L_{Aeq,15minute}$ and L_{Amax} were measured directly or determined by other methods detailed in Section 7.1 of the NPfI.

If the exact noise levels from site could not be established due to masking by other noise sources in a similar frequency range, but site noise was determined to be at least 5 dB lower than relevant limits, then a maximum estimate of site noise may be provided. This is expressed as a 'less than' quantity, such as <20 dB or <30 dB.

The terms 'Inaudible' (IA) or 'Not Measurable' (NM) may be used in this report. When site noise is noted as IA, no site noise was audible at the monitoring location. When site noise is noted as NM, this means site noise was audible but could not be quantified. All results noted as NM in this report were due to one or more of the following:

- Site noise levels were extremely low and unlikely, in many cases, to be noticed.
- Site noise levels were masked by other more dominant noise sources that are characteristic of the environment, such as breeze in foliage or continuous road traffic noise, that cannot be eliminated by monitoring at an alternate or intermediate location.
- It was not feasible or reasonable to employ methods such as to move closer and back calculate. Cases may
 include rough terrain preventing closer measurement, addition/removal of significant source to receiver
 shielding caused by moving closer, and meteorological conditions where back calculation may not be
 representative.

3.3 Modifying factors

All measurements were evaluated for potential modifying factors in accordance with the NPfI. Assessment of modifying factors is undertaken at the time of measurement if the site was audible and quantifiable. If applicable, modifying factor penalties have been reported and added to measured site-only L_{Aeq} noise levels.

Low-frequency modifying factor penalties have only been applied to site-only L_{Aeq} levels if the site was the only contributing low-frequency noise source. Specific methodology for assessment of each modifying factor is outlined in Fact Sheet C of the NPfI.

3.4 Instrumentation

Equipment used to measure environmental noise levels is detailed in Table 3.1. Calibration certificates are provided in Appendix C.

Table 3.1 Attended noise monitoring equipment

Item	Serial number	Calibration due date	Relevant standard
Brüel & Kjær Type 2250 sound level meter	3008201	12 July 2025	IEC 61672-1:2002
Svantek SV36 calibrator	154613	05 June 2025	IEC 60942:2003

4 Results

4.1 Total measured noise levels and atmospheric conditions

Overall noise levels measured at each location during attended measurements are provided in Table 4.1. Levels in this table are not necessarily the result of activity at site.

Table 4.1 Total measured noise levels – December 2024 ¹

Location	Start date and time	L _{Amax} dB	L _{A1} dB	L _{A10} dB	L _{Aeq} dB	L _{A50} dB	L _{A90} dB	L _{Amin} dB
A1	04/12/2024 5:54	68	61	56	54	53	52	49
A1	04/12/2024 6:11	76	62	58	55	54	52	49
A2	04/12/2024 6:29	69	64	58	56	54	52	49
A3	04/12/2024 6:45	68	61	57	54	52	49	46
A1	04/12/2024 7:17	79	63	58	56	53	51	48
A1	04/12/2024 7:40	67	60	55	53	52	50	47
A2	04/12/2024 8:05	66	58	54	52	52	50	47
A2	04/12/2024 8:21	68	61	57	54	53	50	47
A3	04/12/2024 8:40	71	61	55	53	52	49	46
A3	04/12/2024 8:57	72	68	65	60	55	50	47
A1	04/12/2024 18:05	66	57	52	51	49	48	46
A2	04/12/2024 18:22	60	54	51	49	49	47	45
A1	05/12/2024 5:51	81	56	50	51	47	45	42
A1	05/12/2024 6:09	61	55	50	49	48	46	44
A2	05/12/2024 6:29	83	54	50	50	47	45	43
A3	05/12/2024 6:46	66	55	49	47	45	43	41
A1	05/12/2024 7:16	68	57	53	51	49	46	43
A1	05/12/2024 7:32	65	55	51	49	49	46	43
A2	05/12/2024 7:56	71	61	54	52	49	46	44
A2	05/12/2024 8:11	63	57	53	50	49	47	44
A3	05/12/2024 8:30	59	55	51	49	48	45	42
A3	05/12/2024 8:45	67	57	51	49	47	44	41
A1	05/12/2024 18:00	70	60	53	51	49	48	46
A2	05/12/2024 18:17	75	61	53	52	50	48	45

Notes: 1. Levels in this table are not necessarily the result of activity at site.

Atmospheric condition data measured by the operator during each measurement using a hand-held weather meter is shown in Table 4.2. The wind speed, direction and temperature were measured at approximately 1.5

metres above ground. Attended noise monitoring is not done during rain, hail, or wind speeds above 5 m/s at microphone height.

Table 4.2 Measured atmospheric conditions – December 2024

Location	Start date and time	Temperature °C	Wind speed m/s	Wind direction ^o Magnetic north ¹	Cloud cover 1/8s
A1	04/12/2024 5:54	21	0.8	189	7
A1	04/12/2024 6:11	21	0.8	196	8
A2	04/12/2024 6:29	21	0.8	198	8
A3	04/12/2024 6:45	21	0.6	200	8
A1	04/12/2024 7:17	24	<0.5	-	8
A1	04/12/2024 7:40	24	0.5	106	8
A2	04/12/2024 8:05	24	0.5	71	8
A2	04/12/2024 8:21	26	1.1	50	8
A3	04/12/2024 8:40	24	1.0	88	8
A3	04/12/2024 8:57	25	0.6	178	8
A1	04/12/2024 18:05	26	0.7	8	1
A2	04/12/2024 18:22	26	0.9	131	2
A1	05/12/2024 5:51	25	<0.5	-	8
A1	05/12/2024 6:09	25	<0.5	-	8
A2	05/12/2024 6:29	23	<0.5	-	8
A3	05/12/2024 6:46	24	<0.5	-	8
A1	05/12/2024 7:16	26	<0.5	-	8
A1	05/12/2024 7:32	25	<0.5	-	8
A2	05/12/2024 7:56	25	<0.5	-	8
A2	05/12/2024 8:11	24	<0.5	-	8
A3	05/12/2024 8:30	23	0.6	253	8
A3	05/12/2024 8:45	26	<0.5	-	8
A1	05/12/2024 18:00	25	1.7	60	6
A2	05/12/2024 18:17	26	0.7	66	8

Notes: 1. Wind speeds of 0.5/ms and wind directions of "-" indicates calm conditions at monitoring location.

4.2 Site only noise levels

4.2.1 Modifying factors

There were no modifying factors, as defined in the NPfI, applicable during the survey.

4.2.2 Monitoring results

Table 4.3 provides site noise levels in the absence of other sources, where possible, and includes weather data from the Sydney Olympic Park AWS. Noise enhancing limits are applicable if weather conditions were within specified parameters during each measurement, otherwise the NPfl's 'very noise enhancing' limits apply (ie noise enhancing plus 5dB).

Table 4.3 Site noise levels and limits – December 2024

Location	Start Date and Time	Wi	nd	Stability Class	ry Class Noise enhancing Limits, dB Site levels, dB Exceeda limits apply? ¹		Limits, dB Site levels, dB		Exceedance	es, dB ¹	
		Speed m/s	Direction ³			L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15} minute ²	L _{Amax}	L _{Aeq,15} minute	L _{Amax}
A1	04/12/2024 5:54	3.4	173	D	Υ	48 ⁵	64 ⁵	43	61	Nil	Nil
A1	04/12/2024 6:11	5.8	148	D	Υ	48 ⁵	64 ⁵	45	63	Nil	Nil
A2	04/12/2024 6:29	4.1	151	D	Υ	48 ⁵	64 ⁵	45	63	Nil	Nil
A3	04/12/2024 6:45	4.1	151	D	Υ	485	64 ⁵	43	55	Nil	Nil
A1	04/12/2024 7:17	3.9	146	А	Υ	55 ⁵	N/A	50	-	Nil	N/A
A1	04/12/2024 7:40	3.8	142	А	Υ	55 ⁵	N/A	48	-	Nil	N/A
A2	04/12/2024 8:05	3.5	138	А	Υ	55 ⁵	N/A	50	-	Nil	N/A
A2	04/12/2024 8:21	3.5	138	А	Υ	55 ⁵	N/A	48	-	Nil	N/A
A3	04/12/2024 8:40	3.8	159	А	Υ	55 ⁵	N/A	50	-	Nil	N/A
A3	04/12/2024 8:57	3.8	159	А	Υ	55 ⁵	N/A	49	-	Nil	N/A
A1 ⁴	04/12/2024 18:05	4.8	121	В	Υ	53 ⁵	N/A	IA	-	N/A	N/A
A2 ⁴	04/12/2024 18:22	4.8	121	В	Υ	53 ⁵	N/A	IA	-	N/A	N/A
A1	05/12/2024 5:51	1.1	197	E	N	43	59	42	76	Nil	17
A1	05/12/2024 6:09	<0.5	-	G	Υ	485	64 ⁵	43	43	Nil	Nil

Table 4.3 Site noise levels and limits – December 2024

Location	Start Date and Time	Wind		Wind		Wind		Stability Class	Noise enhancing limits apply? 1	Limits,	Limits, dB		dB	Exceedances, dB ¹		
		Speed m/s	Direction ³			L Aeq,15minute	L _{Amax}	L _{Aeq,15minute} ²	L _{Amax}	L _{Aeq,15} minute	L _{Amax}					
A2	05/12/2024 6:29	<0.5	-	G	Υ	48 ⁵	64 ⁵	40	57	Nil	Nil					
A3	05/12/2024 6:46	<0.5	-	G	Υ	48 ⁵	64 ⁵	43	58	Nil	Nil					
A1	05/12/2024 7:16	<0.5	-	С	N	50	N/A	43	-	Nil	N/A					
A1	05/12/2024 7:32	<0.5	-	С	N	50	N/A	46	-	Nil	N/A					
A2	05/12/2024 7:56	<0.5	-	С	N	50	N/A	44	-	Nil	N/A					
A2	05/12/2024 8:11	<0.5	-	F	Υ	55 ⁵	N/A	46	-	Nil	N/A					
A3	05/12/2024 8:30	<0.5	-	F	Υ	55 ⁵	N/A	42	-	Nil	N/A					
A3	05/12/2024 8:45	<0.5	-	F	Υ	55 ⁵	N/A	42	-	Nil	N/A					
A14	05/12/2024 18:00	4.7	95	А	Υ	53 ⁵	N/A	IA	-	N/A	N/A					
A2 ⁴	05/12/2024 18:17	4.7	95	А	Υ	53 ⁵	N/A	IA	-	N/A	N/A					

Notes:

^{1.} Noise enhancing limits are applicable if weather conditions were within parameters specified in Section 2.3.

^{2.} Site-only L_{Aeq,15}minute, includes modifying factor penalties if applicable.

^{3.} Degrees magnetic north, "-" indicates calm conditions.

^{4.} Site was not in operation during evening period.

^{5.} In accordance with Condition L3.2, where meteorological conditions exceed those specified in Condition L3.2, the EPL limits for these periods are those listed in Condition L3.1 plus 5 dB.

^{6.} A 1 to 2 dB exceedance is considered by the EPA as negligible in accordance with Section 4.2 of the NPfI (EPA 2017).

4.2.3 Monitoring results discussion

Site noise levels at all monitoring locations were compliant with EPL L_{Aeq} noise limits during the quarterly survey. Maximum noise events measured from the site were compliant with the EPL L_{Amax} noise limits at A2 and A3 monitoring locations. One L_{Amax} exceedance was measured at the A1 monitoring location during the night period.

During the A1 measurement at 5:51am on 5 December, the excavator was operational and audible at the site generating a site only $L_{Aeq,15minute}$ of 42dB. An impact noise from the excavator generated the site L_{Amax} of 76dB, exceeding the relevant limit by 17dB. While the measurement results demonstrate an exceedance of the EPL L_{Amax} limit, the events causing the exceedance were infrequent, occurring only once during this measurement. That is, this was not a systemic or sustained exceedance.

The LAmax noise limit aims to protect sleep during the night time period (10pm to 7am). Section 2.5 of the NPfl states other factors to consider when assessing maximum noise level events:

- how often high noise events will occur
- the distribution of likely events across the night-time period and the existing ambient maximum events in the absence of the subject development
- whether there are times of day when there is a clear change in the noise environment (such as during early-morning shoulder periods)
- current scientific literature available at the time of the assessment regarding the impact of maximum noise level events at night.

The high noise event which exceeded the L_{Amax} limit was an excavator impact or "bang" which was less than a second in duration. The site operates during the night period from 5am - 7am, where there is typically a clear change in the noise environment as road traffic increases and other nearby industrial facilities commence daily operations at the same time. The NPfl also refers to this period as a morning shoulder period, and states:

...it may be unreasonable to expect such operations to be assessed against the night-time project noise trigger levels.

Other high noise events up to 81dB were noted during the measurement which were not a result of activity from site. These were due to other non site related industrial activities in the area. This is typical of the changing night period noise environment between 5am – 7am which the noise monitoring was conducted in.

The NSW EPA provides additional guidance on L_{Amax} noise criteria for the protection of sleep as shown in section 5.4 of the Road Noise Policy (EPA 2011):

- ullet a maximum internal noise level (L_{Amax}) below 50 to 55 dBA are unlikely to awaken people from sleep; and
- one or two noise events per night, with maximum internal noise levels (L_{Amax}) of 65 to 70 dBA, are not likely to affect health and wellbeing significantly.

It is commonly accepted by acoustic practitioners and regulatory bodies that a façade of a residential building of standard construction including a partially open window will reduce external noise levels by 10 dB. Therefore, external noise levels of up to of 80 dB L_{Amax} at the façade of a residence are unlikely to cause sleep disturbance affects. The 76 dB L_{Amax} was the highest value recorded during all night time period measurements, which due to the reduction of the façade is unlikely to affect health and wellbeing significantly according to the RNP.

It is also relevant to note that EMM has conducted quarterly noise compliance monitoring for the site since the third quarter of 2021. Historical compliance monitoring results show that a L_{Amax} exceedance has not been recorded since quarter 2 of 2023 indicating the exceedance during this quarter is not a systemic issue for the site.

5 Summary

EMM was engaged by KLF Holdings Pty Ltd to conduct a quarterly noise survey of operations at their Camelia site. The survey purpose was to quantify the acoustic environment and compare site noise levels against specified EPL limits.

Attended environmental noise monitoring described in this report was done during the day/evening/night period(s) of 4 and 5 December 2024 at three monitoring locations.

Attended noise monitoring observations and results demonstrate that operational noise from the site was audible during all attended measurements.

Site contributions were demonstrated to be compliant during all L_{Aeq} samples captured at residences.

Maximum L_{Amax} noise events measured from the site were compliant with the EPL L_{Amax} noise limits at A2 and A3 residences. One exceedance was measured at the A1 residence during the night period.

During this measurement at 5:51am on 5 December, the excavator was operational and audible at the site generating a site only $L_{Aeq,15minute}$ of 42dB. Impact noises from the excavator were audible on a number of occasions, with one generating the site L_{Amax} of 76dB, exceeding the relevant limit by 17dB.

Appendix A

Noise perception and examples



A.1 Noise levels

Table A.1 gives an indication as to how an average person perceives changes in noise level. Examples of common noise levels are provided in Figure A.1.

Table A.1 Perceived change in noise

Change in sound pressure level (dB)	Perceived change in noise
up to 2	Not perceptible
3	Just perceptible
5	Noticeable difference
10	Twice (or half) as loud
15	Large change
20	Four times (or quarter) as loud

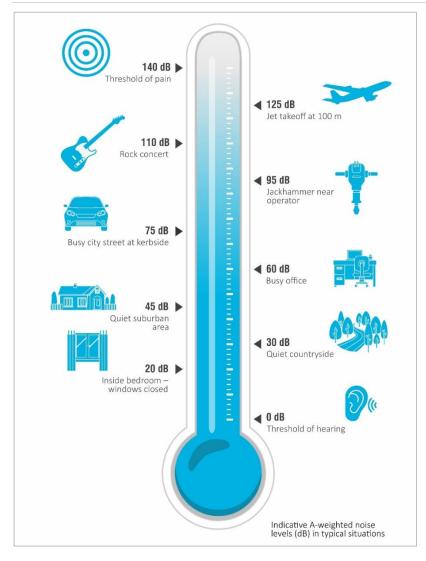


Figure A.1 Common noise levels

Appendix B Regulator documents



Environment Protection Licence



Licence - 12700

12700		
	the exception of the maximum threshold values for contaminants specified in the 'Other Limits' column	Petroleum Hydrocarbons C6-C9 150mg/kg; Petroleum Hydrocarbons C10-C36 1600mg/kg; Polycyclic aromatic hydrocarbons 80mg/kg; Polychlorinated biphenyls (individual) 1mg/kg. No Acid Sulfate Soil or Potential Acid Sulfate Soil is to be received at the Premises. Soil thresholds will be subject to review from time
		to time.

- L2.2 The height of any stockpile of waste or any processed substance must not exceed four (4) metres.
- L2.3 The licensee must install and maintain a visible permanent stockpile marker that shows the permitted height of stockpiles, being four metres.
- L2.4 The authorised amount of waste permitted on the premises cannot exceed 6,500 tonnes at any one time.
- L2.5 Any waste that is not listed in table L2.1, including asbestos waste, that is found after receipt at the premises must be:
 - (a) stored in an isolated and appropriately sign-posted area;
 - (b) removed from the premises within one business day of receipt of the non-conforming waste to a place that can lawfully accept that type of waste; and
 - (c) details (date, amount, type of waste, disposal location, disposal dated) must be logged in a register that is kept at the premises.

L3 Noise limits

L3.1 Noise generated at the premises must not exceed the noise limits (in dB(A)) at the times and locations in table below.

Location	ocation Day		Night	Night
-	LAeq(15 minute)	LAeq(15 minute)	LAeq(15 minute)	LAFmax
523-530 John Street Rydalmere	50	48	43	59

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28 & 30 Sylvia Street Rydalmere, 33 Nowill Street Rydalmere	50	48	43	59
37-45 John Street Rydalmere	50	48	43	59
22 & 24 Milton Street Rydalmere, 33 & 35 John Street Rydalmere	50	48	43	59

L3.2 Noise-enhancing meteorological conditions

- a) The noise limits set out in condition L3.1 apply under the meteorological conditions listed in table below.
- b) For those meteorological conditions not referred to in condition L3.2(a) table, the noise limits that apply are the noise limits in condition L3.1 table plus 5dB.

Assessment Period	Meteorological Conditions								
Day	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level								
Evening	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level								
Night	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level; or Stability category E and F with wind speeds up to and including 2m/s at 10m above ground level.								

L3.3 For the purpose of condition L3.1;

- a) Day means the period from 7am to 6pm Monday to Saturday and the period from 8am to 6pm Sunday and public holidays.
- b) Evening means the period from 6pm to 10pm.
- c) Night means the period from 10pm to 7am Monday to Saturday and the period from 10pm to 8am Sunday and public holidays.

L3.4 For the purposes of condition L3.2:

- a) The meteorological conditions are to be determined from meteorological data obtained from the meteorological weather station identified as Bureau of Meteorology AWS at Sydney Olympic Park, NSW (Station no 066212).
- b) Stability category shall be determined using the following method from Fact Sheet D of the *Noise Policy for Industry* (NSW EPA, 2017):
 - i. Use of sigma-theta data (section D1.4).
- L3.5 Noise measurements must not be undertaken where rain or wind speed at microphone level will affect the acquisition of valid measurements.
- L3.6 To assess compliance:

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- a) with the LAeq(15mins) and LAmax noise limits in condition L3.1 and L3.2, the noise measurement equipment must be located:
- (i) approximately on the property boundary, where any residence is situated 30 metres or less from the property boundary closest to the premises; or where applicable,
- (ii) in an area within 30 metres of a residence façade, but not closer than 3 metres where any residence on the property is situated more than 30 meters from the property boundary closest to the premises; or, where applicable,
- (iii) in an area within 50 metres of the boundary of a National park or a Nature Reserve,
- (iv) at any other location identified in condition L3.1.
- b) with the LAeq(15 minutes) or the LAmax noise limits in condition L3.1 and L3.3, the noise measurement equipment must be located:
- (i) at the reasonably most affected point at a location where there is no residence at the location; or,
- (ii) at the reasonably most affected point within an area at a location prescribed by condition L3.5(a).
- L3.7 A non-compliance of conditions L3.1 and L3.2 will still occur where noise generated from the premises is measured in excess of the noise limit at a point other than the reasonably most affected point at the receiver locations referred to in conditions L3.6(a) orL3.6(b).
 - NOTE to Conditions L3.6 and L3.7. The reasonably most affected point is a point at a receiver location or within an area at a receiver location experiencing or expected to experience the highest sound pressure level from the premises.
- L3.8 For the purposes of determining the noise generated from the premises, the modifying factor corrections in Table C1 in Fact Sheet C of the *Noise Policy for Industry* (NSW EPA, 2017) may be applied, if appropriate, to the noise measurements by the noise monitoring equipment.

Note: **Definition of Terms for noise limits**

- Noise Policy for Industry the document entitled "*Noise Policy for Industry*" published by the NSW Environment Protection Authority in October 2017.
- Noise 'sound pressure levels' for the purposes of conditions L3.1 to L3.8.
- LAeq (15 minute) the value of the A-weighted sound pressure level of a continuous steady sound that, over a 15 minute time interval, has the same mean square sound pressure level as a sound under consideration with a level that varies with time (Australian Standard AS 1055:2018 *Acoustics: description and measurement of environmental noise*).
- LAFmax the maximum sound pressure level of an event measured with a sound level meter satisfying Australian Standard AS IEC 61672.1-2013 *Electroacoustics Sound level meters Part 1: Specifications* set to 'A' frequency weighting and fast time weighting.

L4 Hours of operation

L4.1 The hours of operation of the use of the premises is permitted 24 hours per day, Monday to Sunday, except those activities restricted by conditions L4.2 to L4.8.

L4.2 Truck Movement

Between 10pm to 7am: A maximum of 8 truck movements per hour are permitted to deposit waste material on the premises.

Environment Protection Authority - NSW Licence version date: 29-Jul-2021

Appendix C Calibration certificates



CERTIFICATE OF CALIBRATION

CERTIFICATE No: C50057

EQUIPMENT TESTED: Acoustic Calibrator

Manufacturer: Svantek

Type No: SV36

Serial No: 154613

Class:

Owner: EMM Consulting

Level 4, 20 Chandos Street St Leonards NSW 2065

Tests Performed: Measured Output Pressure level, Frequency & Distortion

Comments: See Details and Class Tolerance overleaf.

CONDITION OF TEST:

Ambient Pressure

1004 hPa ±1 hPa Date of Receipt: 05/06/2024

Temperature

°C ±1° C

Date of Calibration: 05/06/2024

Relative Humidity

% ±5%

Date of Issue :

05/06/2024

Acu-Vib Test AVP02 (Calibrators)

Procedure: Test Method: AS IEC 60942 - 2017

CHECKED BY:

AUTHORISED

SIGNATURE:

Accredited for compliance with ISO/IEC 17025 - Calibration Results of the tests, calibration and/or measurements included in this document are traceable to SI units through

reference equipment that has been calibrated by the Australian National Measurement Institute or other NATA accredited laboratories demonstrating traceability

This report applies only to the item identified in the report and may not be reproduced in part.

The uncertainties quoted are calculated in accordance with the methods of the ISO Guide to the Uncertainty of Measurement and quoted at a coverage factor of 2 with a confidence interval of approximately 95%.



ACOUSTICS AND VIBRATIONS

Head Office & Calibration Laboratory Unit 14, 22 Hudson Avenue, Castle Hill NSW 2154 (02) 9680 8133 www.acu-vib.com.au

WORLD RECOGNISED ACCREDITATION Accredited Laboratory No. 9262

Acoustic and Vibration Measurements



Sound Level Meter IEC 61672-3:2013

Calibration Test Report

Calibration Number C23471

Client Details EMM Consulting

N/A

Ground Floor

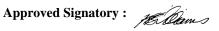
Suite 01, 20 Chandos Street

Equipment Tested/ Model Number: Type 2250 3008201 **Instrument Serial Number:** 2888134 **Microphone Serial Number: Pre-amplifier Serial Number:** 16037

Firmware Version:

Pre-Test Atmospheric Conditions Ambient Temperature: 23.1 °C **Relative Humidity:** 44 % **Barometric Pressure:** 101.6 kPa **Post-Test Atmospheric Conditions Ambient Temperature:** 24.3 °C 44.1 % **Relative Humidity: Barometric Pressure:** 101.3 kPa

Calibration Technician: Max Moore Secondary Check: Rhys Gravelle Calibration Date: 12 Jul 2023 **Report Issue Date:** 17 Jul 2023



Ken Williams

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	N/A
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation test performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2013.

		Uncertainties of Measurement -	
Acoustic Tests		Environmental Conditions	
125Hz	±0.13 dB	Temperature	±0.1 °C
1kHz	±0.13 dB	Relative Humidity	±1.9 %
8kHz	$\pm 0.14~dB$	Barometric Pressure	±0.014 kPa
Electrical Tests	±0.13 dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This report applies only to the item tested and shall only be reproduced in full, unless approved in writing by Acoustic Research Labs.

WORLD RECOGNISED
ACCREDITATION

Acoustic Research Labs Pty Ltd is NATA Accredited Laboratory Number 14172. Accredited for compliance with ISO/IEC 17025 - Calibration.

The results of the tests, calibrations and/or measurements included in this document are traceable to SI units.

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

Appendix D

BOM Sydney Olympic Park weather station data



		Year									Total		Count of total	Average wind	c	Count of	Lowest wind		Count of	Highest	Quality of	Count of	Standard	Quality of	Count of	Average	Quality of	Count of	$\overline{}$
		Month Day Hour					Year Month Day Hour			MI format in	precipitation in last 30	Quality Total precipitation		speed in last Qual 30 minutes in avera			speed in last 30 minutes in		lowest wind speed	maximum 3 sec wind gust	Highest	Highest maximum 3	deviation of wind in last	standard deviation of	standard deviation of	direction of wind in last	average direction of	average direction of	
	Station	Minutes				MI format in	Minutes in			Local	minutes in	in last 30	in last 30	km/h where spee	d in last o	bservations	km/h where	speed in last	observations	in last 30	sec wind gust	sec wind gust	30 minutes	wind in last	wind	30 minutes in	wind in last	wind	
hd h	Number 66212		MM 12		HH24	Local time	YYYY MM 0 2024	DD 12 4	HH24	standard time	mm where	minutes	minutes 30	observations 30 mi	inutes ir	n last 30 30	observations 0		in last 30			observations 30		30 minutes 8 Y		degrees true		observations 3	# # #
hd	66212	2024	12		5	30	0 2024	12	4	30	Ċ	Y	30	12.3 Y		30	5.4	Υ	31	0 27.7	7 Y	30	0 27	7 Y	3	30 173	3 Y	3	# #
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hd	66212	2024	12		7	(0 2024	12 4	1 6	0	(Y	30			30	7.6		31			30		7 Y		30 146			0 # 0 #
hd	66212	2024	12		7	30	0 2024 0 2024	12 4	6	30	(Y	30			30	5.4		31			30		6 Y		30 142			00 #
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hd	66212	2024	12	4	9	(0 2024	12 4	1 8	0	(Y	30	13.1 Y		30	5.4	Υ		0 20.5	Y	30	0 29	9 Y	3	30 150	Y	3	#
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hd	66212	2024	12		22			12	21		(Y	30			30	5.4		31			30		8 Y	3	30 150			# #0 #
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hd	66212 66212	2024 2024	12 12		23	30	0 2024 0 2024	12 4	22	- 00	(Y	30	10.7		30	5.4 3.6		31			30		9 Y 9 Y		30 148 30 164			80 # 80 #
hd	66212	2024	12	5	0	30	0 2024	12	23	30	(Y	30	8.1 Y		30	5.4		31	0 11.2		30		3 Y	3	30 154	1 Y		# 0
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hd	66212	2024	12	5	21	(0 2024	12 !	20	0		Y	30	9.4 Y		30	1.8	Υ	31	16.6	Υ	30	0 4:	1 Y	3	80 65	5 Y	3	# 08
hd	66212	2024	12		21		0 2024	12 !	20			Y	30	9.2 Y		30 30	5.4 3.6		31	0 18.4		30	0 38	8 Y 1 Y	3	30 56 30 19			80 #
hd	66212 66212	2024 2024	12 12		22 22	30		12 5	5 21 5 21		- 0	Y	30		\rightarrow	30 30	3.6	Y	31	0 13		30	0 23	3 Y	1 3	30 19 30 334			80 # 80 #
hd	66212	2024	12	5	22 23 23	(0 2024	12	5 22	0	(Υ	30	0 Y		30	0	Y	31	0 1.8	Υ	30	0 23	3 Y 3 Y	3	30 (Y	3	# 00
hd	66212	2024	12	5	23	30	0 2024	12	22	30	(Y	30	1.1 Y		30	0	Y	31	7.6	ijΥ	30	0] 7	7 Y]3	34	ijY	<u>j</u> 3	# 0

Australia

SYDNEY

Ground floor 20 Chandos Street St Leonards NSW 2065 T 02 9493 9500

NEWCASTLE

Level 3 175 Scott Street Newcastle NSW 2300 T 02 4907 4800

BRISBANE

Level 1 87 Wickham Terrace Spring Hill QLD 4000 T 07 3648 1200

CANBERRA

Suite 2.04 Level 2 15 London Circuit Canberra City ACT 2601

ADELAIDE

Level 4 74 Pirie Street Adelaide SA 5000 T 08 8232 2253

MELBOURNE

Suite 8.03 Level 8 454 Collins Street Melbourne VIC 3000 T 03 9993 1900

PERTH

Suite 9.02 Level 9 109 St Georges Terrace Perth WA 6000 T 08 6430 4800

Canada

TORONTO

2345 Yonge Street Suite 300 Toronto ON M4P 2E5 T 647 467 1605

VANCOUVER

60 W 6th Ave Vancouver BC V5Y 1K1 T 604 999 8297



