

Environmental Noise Impact Assessment

Proposed Gym & Cafe
38 Tweed Street Brunswick Heads NSW

HEALTH SCIENCE ENVIROMENTAL EDUCATION
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38 Tweed Street
Brunswick Heads NSW

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1. Introduction

1.1 Purpose

Tim Fitzroy & Associates has been engaged by Peter Vogel to undertake an Environmental Noise Impact Assessment (ENIA) to accompany a Development Application to Byron Shire Council for a proposed Gym and Café development to be located at 38 Tweed Street, Brunswick Heads.

This report provides details on the noise assessment and modelling carried out by *Tim Fitzroy & Associates* and *Noise Measurement Services, Brisbane* to establish existing noise levels at the subject site and investigate potential noise impacts on residences within the development and surrounding residences.

The purpose of this noise assessment is to:

1. Establish existing background noise levels across the subject site;
2. Examine the likely impacts of the proposed development on the existing surrounding residences in accordance with the NSW EPA Noise Policy for Industry (2017); and
3. Report on noise levels and provide recommendations to ensure that the proposed development complies as far as practicable with the intent of the NSW EPA Noise Guidelines.

1.2 Applicable Noise Criteria

Protection of the Environment Operations Act 1997 (POEO Act) and the Protection of the Environment Operations (Noise Control) Regulation 2008 (Noise Control Regulation)

The *Protection of the Environment Operations Act 1997 (POEO Act)* and the *Protection of the Environment Operations (Noise Control) Regulation 2008 (Noise Control Regulation)* provide the main legal framework and basis for managing unacceptable noise.

The POEO Act:

- identifies the authority responsible for regulating noise (s. 6 of the Act)
- defines 'noise' and 'offensive noise' (Dictionary in the Act)
- provides a range of regulatory tools to manage noise, including Noise Control Notices, Prevention Notices, Noise Abatement Directions and Noise Abatement Orders.

Depending on the circumstances, the Noise Control Regulation may require an assessment of a noise's audibility, time of occurrence, duration or offensiveness. The POEO Act does not always require noise to be measured to determine whether it is offensive. However, noise measurement can help in deciding what action, if any, is necessary.

1.2.1 Offensive Noise

Depending on the type of noise under consideration, noise can be considered as offensive in three ways according to it's:

- audibility

- duration
- inherently offensive characteristics.

Given the nature of the noise complaints, it will be necessary for Council to consider a range of factors to determine whether the noise is offensive, including the following:

- the loudness of the noise, especially compared with other noise in the area
- the character of the noise
- the time and duration of the noise
- whether the noise is typical for the area
- how often the noise occurs
- the number of people affected by the noise.

1.2.2 Intrusive Noise

Noise is identified as 'intrusive' if it is noticeably louder than the background noise and considered likely to disturb or interfere with those who can hear it.

1.2.3 Sleep disturbance

Specific provisions relate to sleep disturbance and the World Health Organization recommends that a maximum level of 45 dB (A) should not be exceeded inside a bedroom. For practical purposes this is equivalent to a maximum level of 55 dB (A) outside a residence, with an open window to the bedroom (Guidelines for Community Noise WHO 1999).

1.2.4 Noise Policy for Industry

Despite the introduction of the new *Noise Policy for Industry* (NSW EPA 2017). The new Noise Policy for Industry provides a framework and criteria for the consistent assessment of the impact and control of noise from industrial developments.

It is specifically for large industrial developments that require development approval from the Department of Planning and Environment under the *Environmental Planning and Assessment Act 1979* and/or that the NSW Environment Protection Authority (EPA) regulates, such as mines, quarries and other large industries listed in Schedule 1 of the *Protection of the Environment Operations Act 1997*.

It also has information that may be useful for assessing and controlling noise from smaller industrial premises that are typically regulated by councils.

In general, the types of premises dealt with in the policy include:

- ❖ industrial premises
- ❖ extractive industry premises
- ❖ commercial premises (generally limited to noise from heating, ventilation, air conditioning and refrigeration, and energy generation equipment)
- ❖ warehousing premises
- ❖ maintenance and repair facility premises
- ❖ intensive agricultural and livestock premises, for example, cattle feedlots and poultry farms
- ❖ utility generation/reticulation service premises, for example, energy generation from sources other than wind.

The policy can also be used to assess noise from mechanical plant and equipment; industrial and commercial processes; and vehicle movements within the premises and/or on private roads.

The policy does not apply to:

- ❖ vehicles associated with an industrial premise that are on a public road
- ❖ transportation corridors (roadways, railways, waterways and air corridors)
- ❖ noise from sporting facilities, including motor sport facilities
- ❖ construction activities
- ❖ noise sources covered by regulations (domestic/neighbourhood noise)
- ❖ blasting activities
- ❖ shooting ranges
- ❖ internal or occupational noise within any workplace regulated by SafeWork NSW
- ❖ wind farms
- ❖ amplified music/patron noise from premises including those licensed by Liquor and Gaming NSW.

Other government policies, guidelines and legislation typically cover these noise sources.

In regards to the proposed development the application of the Noise Policy for Industry is limited to:

- ❖ Fixed mechanical equipment (air conditioning and mechanical ventilation); and
- ❖ Vehicle movements on the subject property.

Noise associated with the commercial premises is regulated by the NSW “Noise Policy for Industry”. The assessment procedure has the following components to determine the project noise trigger levels:

- Intrusiveness Noise Level (LAeq, 15 min): the limit criteria for this assessment is as follows:
 - LAeq, 15 min ≤ rating background level + 5 dB;
- Amenity Noise Level (LAeq, period): this is achieved by ensuring that the proposed development complies with the noise limit criteria set in Table 2.2 of the Policy. As the area is within an *Urban Area* (as defined in Table 2.3 of the Policy), the following limits apply:

Table 2.2: Amenity noise levels.

Receiver	Noise amenity area	Time of day	LAeq, dB(A)
(see Table 2.3 to determine which residential receiver category applies)			Recommended amenity noise level
Residential	Rural	Day	50
		Evening	45
		Night	40
	Suburban	Day	55
		Evening	45
		Night	40
	Urban	Day	60
		Evening	50
		Night	45

1.2.5 Noise Guideline for Local Councils

The NSW Noise Guide for Local Government provides guidance relating to noise emissions from activities that are not specifically the responsibility of the NSW EPA.

1.3 Overview of Noise Assessment

This noise assessment establishes the existing background noise levels within the vicinity of the nearest affected sensitive receiver.

The noise assessment process included the following components:

- Measurement and determination of the existing background and ambient noise at the site;
- Consideration of potential noise impacts on surrounding residences and on tourist accommodation within the development; and
- Consideration of what feasible and reasonable noise mitigation measures ought to be considered where the project-specific noise levels are exceeded.

1.4 Site Description

The subject site covers an area of 675.98m² and is located on the western side of Tweed Street (former Pacific Highway) within the township of Brunswick Heads. The comprises a single storey metal shed and concrete pavement. There are 2 existing tenants occupying the Tweed Street (eastern side) of the shed. The site is accessed via Tweed Street and Slessor Lane. A site locality diagram is provided in **Illustration 1.1**.

1.4.1 Topography

The site is essentially flat with an RL4.90.

1.4.2 Climate

Weather recording data was collected from the official Bureau of Meteorology (BOM) Weather Station at Ballina Airport. Rainfall and wind greater than 5km/hr were excluded from the noise monitoring results.

1.4.3 Surrounding Land use

To the east is Tweed Street and a mix of residential and commercial uses. To the west, south and north are residential uses.

1.5 Proposed Development

The proposed development involves a change of use to allow a gym operation.

The gym will be utilised for a mixture of

- Exercise (strength and conditioning, fitness classes);
- Well being (Yoga, Pilates and meditation)
- Typical operating hours for the Gym will be:
 - 5:30am to 6pm Monday to Friday;
 - 5:30am to 10:45am Saturday

The maximum number of persons at the Gym at any one time will be 25, inclusive of 1 staff member and 24 patrons.

The Salt Mill Café seeks to increase its operation from a kiosk to a café that includes seating within private property adjacent to the tenancy

Hours of Operation

The trading hours of the facility will be as follows:

- Monday to Saturday: 6:00 am to 5:00 pm
- Sunday & Public Holidays: 6:00 am to 5:00 pm

Seating

It is proposed to 6 x tables, each containing 4 x seats, within concrete area to the east and north-east of the tenancy. The proposed tables provide for a total of 24 x seats in an 'outdoor dining' arrangement. No seating is proposed within the tenancy itself. Customers will only enter the tenancy to place orders.

Staff

The premises will generally operate with 1-3 staff members during trading hours.

The café will predominantly operate as a takeaway food and drink premises. Although outdoor seating will be available during trading hours, it is anticipated that the seating will primarily be used in the middle of the day when background noise levels are at their highest.

A Copy of the Development Plans is provided in **Appendix A**.

Illustration 1.1 Site Locality



2. Instrumentation

2.1 Noise Monitoring Equipment

Tim Fitzroy & Associates utilised the following equipment in this Noise Impact Assessment:

- A Type 1, 1/3 Octave Band Larson Davis Noise Meter with sound recording and event trigger features for noise measurements

Calibration of the noise monitoring equipment was undertaken prior to use. To ensure no significant tonal drift occurred over the monitoring period, the calibration was checked before and after each measurement period.

2.2 Monitoring Methodology

Consistent with the purpose of the acoustic assessment, the aim of the noise monitoring process was to establish:

- the existing background and ambient noise at the site;
- consideration of potential noise impacts on surrounding residences from the proposed development; and
- consideration of what feasible and reasonable noise mitigation measures ought to be considered where the project-specific noise levels are exceeded.

Long term noise monitoring was undertaken to establish the existing background noise environment at the subject site. Ambient sound pressure levels were measured generally in accordance with Australian Standard AS1055.1:1997 - 'Acoustics-Description and measurement of environmental noise - Part 1: General procedures.

Long term noise monitoring was undertaken to assess existing road traffic noise impacts in the location of the proposed dual occupancy dwelling. Ambient sound pressure levels were measured generally in accordance with Australian Standard AS1055.1:1997 - 'Acoustics-Description and measurement of environmental noise - Part 1: General procedures'. A Type 1, 1/3 Octave Band Larson Davis Noise Meter was placed at a measurement location NML1 to monitor the road noise impacts and ambient noise levels, in continuous 15 minute intervals from 19 to 28 April 2023 to gather information of background noise during the day, evening and night. The microphone at each location was 1.35m above ground level.

Illustration 2.1 shows the location of the noise meter.

Illustration 2.1 Noise Monitoring Location



3. Acoustic Assessment

3.1 The Decibel Scale

The human ear responds to sound pressure levels over a very wide range – the loudest sound pressure level to which the human ear responds is ten million times greater than the quietest. This large ratio is reduced to a more manageable size by the use of logarithms. To avoid scale which is too compressed a factor of ten is introduced, giving rise to the decibel. The following **Table 3.1** provides an indication of typical A-Weighted sound pressure levels measured in decibels with typical noise sources. The table provides a good reference when comparing decibel readings.

Table 3.1 Example noise sources and the corresponding A-weighted decibel levels

Sound Pressure Level (dBA)	Typical Source	Subjective Evaluation
140	Long range gun, gunner's ear	Extremely noisy to intolerable
130	Threshold of pain	
120	Jet take-off at 100m	
110	Night club dance floor	
100	Loud car horn at 3 metres	Very noisy
90	Heavy truck at 10m	
80	Curbside of busy street	Loud
70	Car interior	
60	Normal conversation at 1m	Moderate to quiet
50	Office noise	
40	Living room in quiet area	Quiet to very quiet
30	Inside bedroom at night	
20	Unoccupied recording studio	Almost silent

The sensitivity of people to noise level changes varies from person to person. However generally, a change of up to 3 dBA in the level of a sound is difficult for most people to detect, whilst a 3 dBA to 5 dBA change corresponds to a small but noticeable change in loudness. A 10 dBA change corresponds to an approximate doubling or halving in loudness.

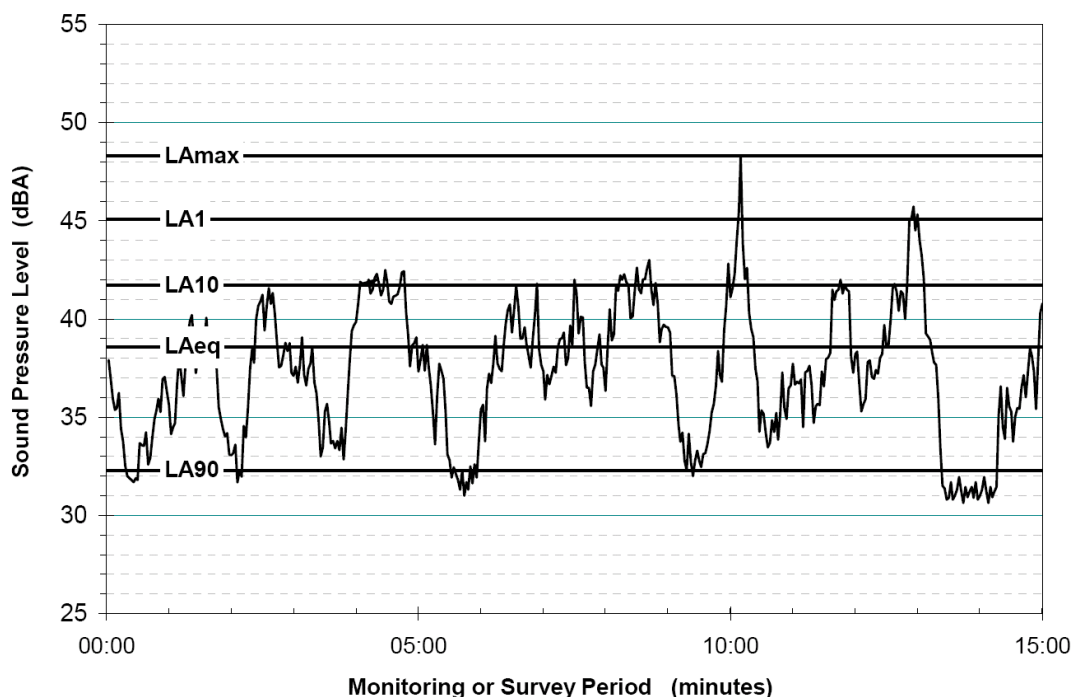
3.2 Acoustical Terms

This report makes reference to a number of different acoustical terms. Particularly the L_{Aeq} , L_{Amax} , L_{A10} and L_{A90} descriptors. Each descriptor is briefly explained below.

- The L_{Aeq} is essentially the average sound level. It is defined as the steady sound level that contains the same amount of acoustical energy as a given time; varying sound over a defined measurement period.
- The L_{Amax} noise level is the maximum A-weighted noise level.
- The L_{A10} is the A-weighted sound pressure level exceeded 10% of a given measurement period and is utilised normally to characterise typical maximum noise levels.
- The L_{A90} noise level is the A-weighted sound pressure level exceeded 90% of a given measurement period and is representative of the average minimum background sound level (in the absence of the source under consideration), or simply the “background” level.

A graphical display of typical noise indices and the relationship between each noise descriptor is provided below in Figure 3.1.

Figure 3.1 Graphical Display of Typical Noise Indices



3.3 Existing Noise Environment

The primary noise observed while on site emanates from road traffic along Tweed Street. Secondary noise sources included bird calls.

Table 3.2 Background Sound Pressure Levels

Period	Intrusiveness noise level	Project amenity noise level for Urban Area
Daytime	45.5 $L_{Aeq, 15min}$ (4.5 (RBL) + 5)	58 $L_{Aeq, 15min}$ (60 - 5 + 3)
Evening	43.3 $L_{Aeq, 15min}$ (38.3 (RBL) + 5)	48 $L_{Aeq, 15min}$ (50 - 5 + 3)
Night time	39.9 $L_{Aeq, 15min}$ (34.9 (RBL) + 5)	43 $L_{Aeq, 15min}$ (45 - 5 + 3)

Table 2.2: Amenity noise levels.

Receiver	Noise amenity area	Time of day	L_{Aeq} , dB(A)
(see Table 2.3 to determine which residential receiver category applies)			Recommended amenity noise level
Residential	Rural	Day	50
		Evening	45
		Night	40
	Suburban	Day	55
		Evening	45
		Night	40
	Urban	Day	60
		Evening	50
		Night	45

Notes:

1. Intrusiveness noise level is $L_{Aeq, 15min}$ RBL + 5 (Section 2.1 (EPA 2017)).
2. Project amenity noise level (ANL) is rural ANL (Table 2.2, EPA 2017) minus 5 dB(A) plus 3 dB(A) to convert from a period level to a 15-minute level (dB = decibel; dB[A] = decibel [A-weighted]; RBL = rating background noise level).

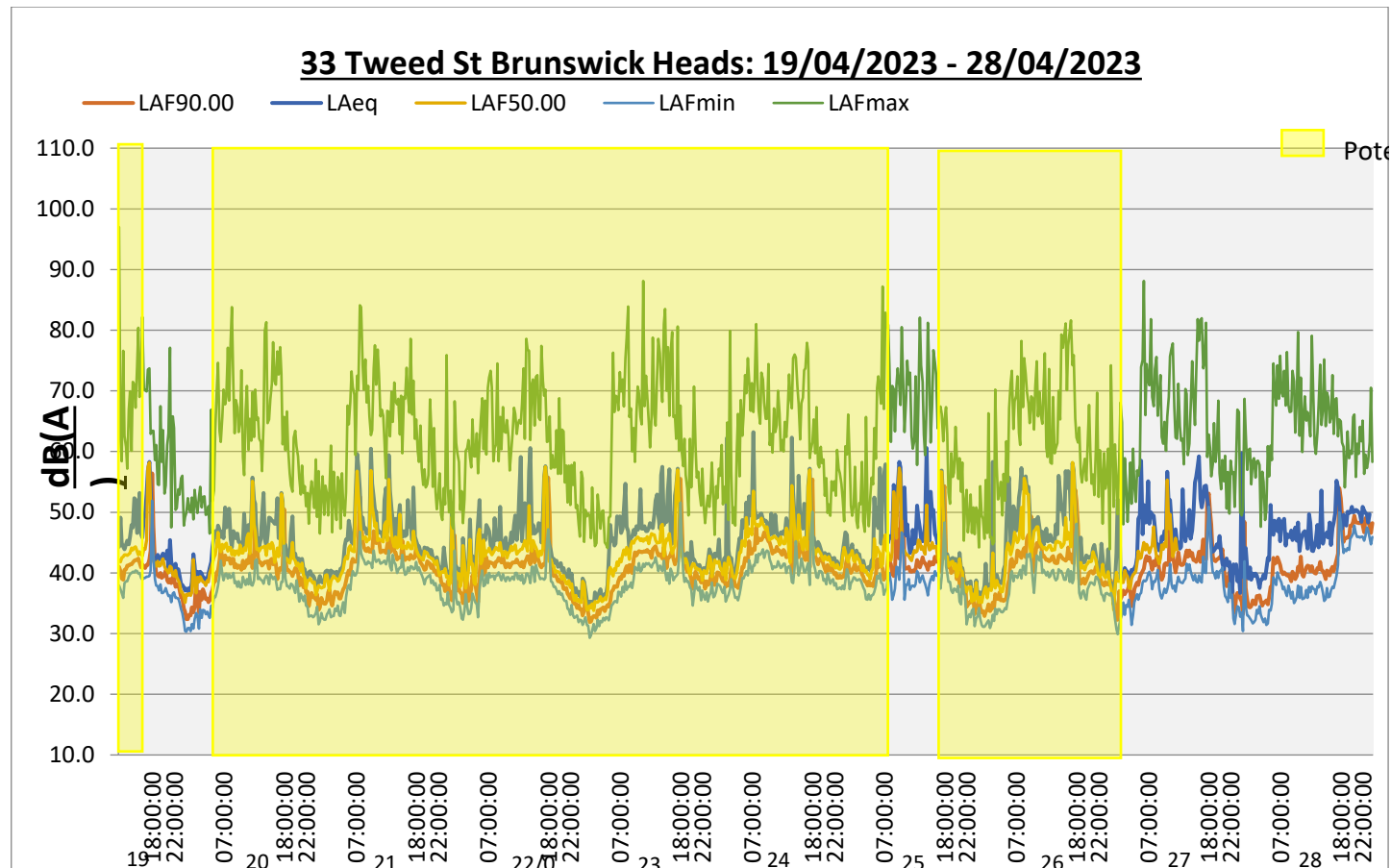
The project noise trigger level is the lower (that is, the most stringent) value of the intrusiveness and amenity noise levels. Therefore, the project noise trigger levels are as follows:

- **daytime:** $L_{Aeq, 15min}$ **45.5 dB(A)**
- **evening:** $L_{Aeq, 15min}$ **43.3 dB(A)**
- **night-time:** $L_{Aeq, 15min}$ **40 dB(A)**

As can be seen from the above table, the project specific noise criteria are determined by the intrusive noise criteria in the day period and the amenity criteria in the evening/late evening and night periods.

The ambient and background noise levels measured at ML1 over the monitoring period are presented in **Figure 3.2**.

Figure 3.2 Ambient and Background Noise Levels at Measurement Location ML1



3.4 Impact of Proposed Development on Surrounding Residences

3.4.1 Noise Emissions

Noise levels from the expected activities at the proposed development have been predicted to the closest sensitive dwellings using SoundPLAN v8.0 and the prediction methodology ISO9613-2:1996. Noise source levels are sourced from the SoundPlan Emission Library, equipment specifications, and from previous measurements of similar activities and equipment where applicable. All prediction models have limits to their accuracy of prediction, this is due to the inherent nature of the calculation algorithms that go into the design of the models, the assumptions made in the implementation of the model, and the availability of good source sound power data. Various researchers have suggested that an un-calibrated model has an accuracy of ± 5 dB while a calibrated model has an accuracy of ± 2 dB. Calibration means that the model has been established with reference to measured sound levels at a receiver, known source levels and tightly defined propagation variables (wind speed and direction, for example). Alternatively, a series of predictions with different programs but the same assumption variables can be used for verification purposes.

3.4.2 Noise Source Levels

The significant sources of noise emission from the site are expected to include noise breakout from inside the gym, external mechanical plant, and vehicle movements. The modelled noise source levels are presented in **Table 3.3**. It is understood that the gym will operate predominantly during the day and evening periods, however classes will commence at 5:30am Monday to Friday, while mechanical plant and vehicle movements are assessed against the night time period.

Internal noise breakout from the gym is represented as an average interior sound pressure level of 71 dB(A) that emanates through the walls and roof of the building. The internal level is based on a previous measurement undertaken in a gymnasium where 71 dB(A) was the highest LAeq,15min recorded. Plans indicate that the walls and sliding door to the south will be acoustically treated with multiple layers of sheeting and insulation – the proposed systems have been calculated to provide a transmission loss of at least 43 Rw. It is understood that the sliding door to the south will remain closed during gym activities and will also feature acoustic perimeter seals, the door is therefore modelled in the closed position. It is unclear if the roof has a ceiling added, it is therefore modelled with a transmission loss of 25 Rw representing corrugated iron. It is also assumed that all gaps between floors, walls and ceilings will be sealed. It is noted that if an insulated ceiling is installed, the building will support higher internal noise levels.

The cafe and recreational facility are modelled with an internal sound pressure level of 65 dB(A) with a transmission loss of 25 Rw applied to the walls and roof. The café door and window are modelled in the opened position. It is understood that the building will not be air-conditioned, and air-conditioning plant is therefore not included in the noise model.

Pool heating and cooling plant are understood to be located within the building and venting to the south. The pool plant specifications have been used to determine a

combined sound power level for 3 units (2 heating and 1 cooling) which is modelled as a point source on the southern wall assuming no transmission loss through the ducting.

Table 3.3 Noise Source Levels

Description	Sum dB(A)	Timing		
		Day	Evening	Night
Gym interior average SPL	71	100%	100%	100%
Cafe interior average SPL	65	100%	100%	100%
Raised voice, SWL	71	100%	100%	100%
Exhaust Fan, SWL	61	100%	100%	100%
Pool heating and cooling plant (combined), SWL	85	100%	100%	100%
Car Movement, SWL dB/m	85	44vph @ 40kph	44vph @ 40kph	44vph @ 40kph

Plate 3.1 **Location of noise sources in model**



3.4.3 Sensitive Receptors

Receptor points have been chosen to represent the closest surrounding dwellings. Due to the proximity of receivers, of which some are two-storey, receiver points are placed 1m from the worst affected facades. Receivers are positioned at a height of 1.8m and 4.6m for ground floor and first floor respectively, and predicted levels are façade-affected. Receiver locations are presented in **Plate 3.2**.

Plate 3.3 Location of receptors at nearby sensitive dwellings



3.4.4 Weather Conditions

Noise modelling using the Concawe methodology to present Standard and Noise-enhancing meteorology is not appropriate in this instance due to the short distances involved. Noise modeling has therefore been made using the prediction methodology *ISO9613-2: 1996* which, by default, presents noise levels at the receiver for meteorological conditions which are favorable for propagation from the sound source to the receiver.

The predicted noise levels are considered to represent the average propagation under meteorological conditions including wind and temperature inversion.

3.4.5 Modeling Verification

The noise model presents future scenarios that have not been measured on site and validation measurements are not possible at this stage, the model is therefore considered to be uncalibrated.

3.4.6 Calculation of Noise Levels

Noise levels from the site have been predicted to each receptor. Predicted noise levels include screening from proposed and existing structures and topography, with topographic information sourced from Geoscience Australia. Predicted noise levels are presented with assessment in **Table 3.4**. Visual noise contours are presented in **Plates 3.3 to 3.6**.

Table 3.4 Predicted noise levels, residential receivers. Levels are in dB(A)
Leq free field

Receptor	Floor	Predicted Noise Level	Criteria			Assessment		
			Day	Evening	Night	Day	Evening	Night
1	GF	40	46	43	40	Pass	Pass	Pass
2	GF	53	46	43	40	+7	+10	+13
2	L 1	54	46	43	40	+8	+11	+14
3	GF	50	46	43	40	+4	+7	+10
3	L 1	51	46	43	40	+5	+8	+11
4	GF	43	46	43	40	Pass	Pass	+3
4	L 1	44	46	43	40	Pass	+1	+4
5	GF	48	46	43	40	+2	+5	+8
5	L 1	48	46	43	40	+2	+5	+8
6	GF	34	46	43	40	Pass	Pass	Pass

Plate 3.4 Noise contours at Ground Floor (1.8m above ground), all noise sources. Levels are in dB(A) Leq.

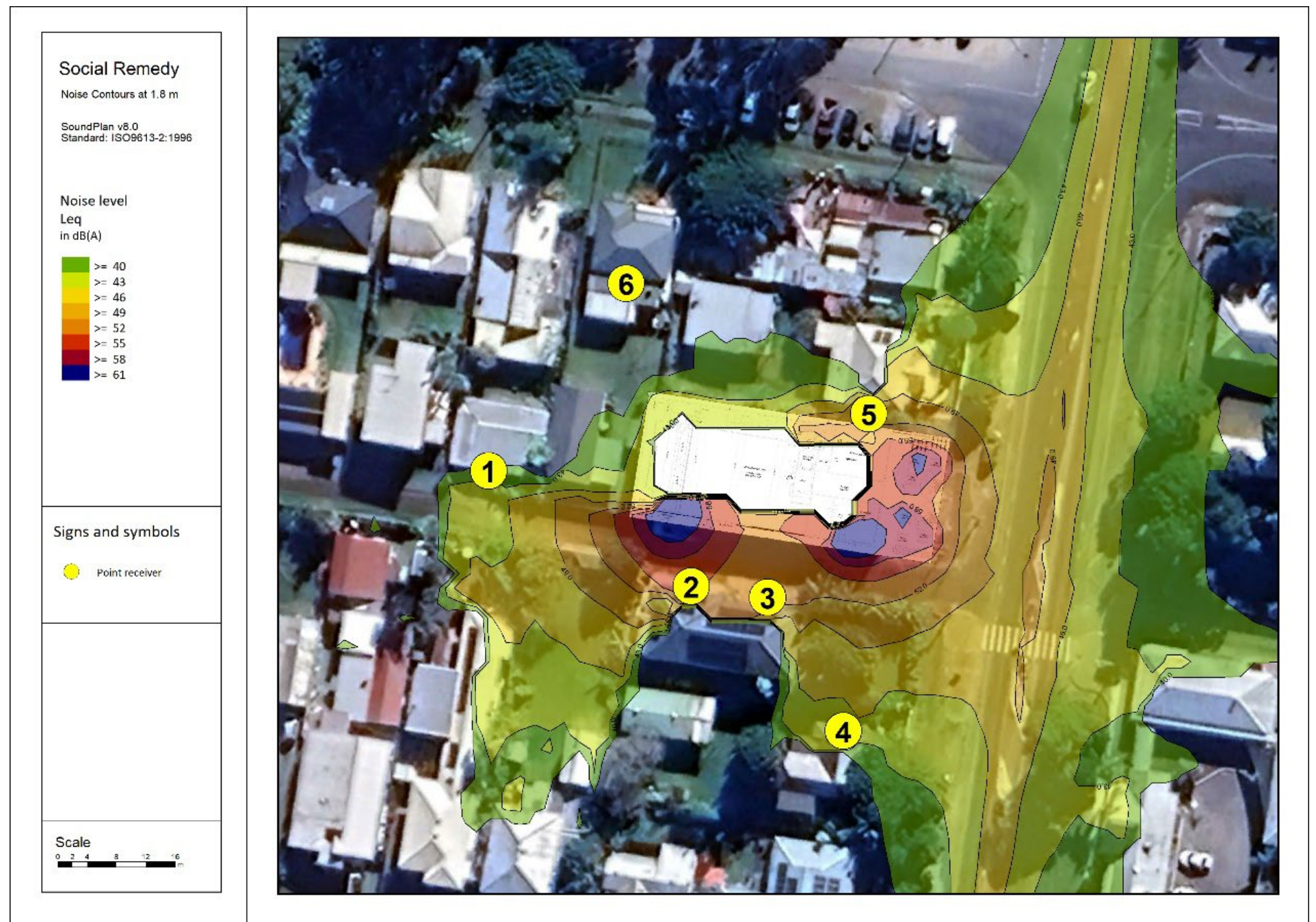
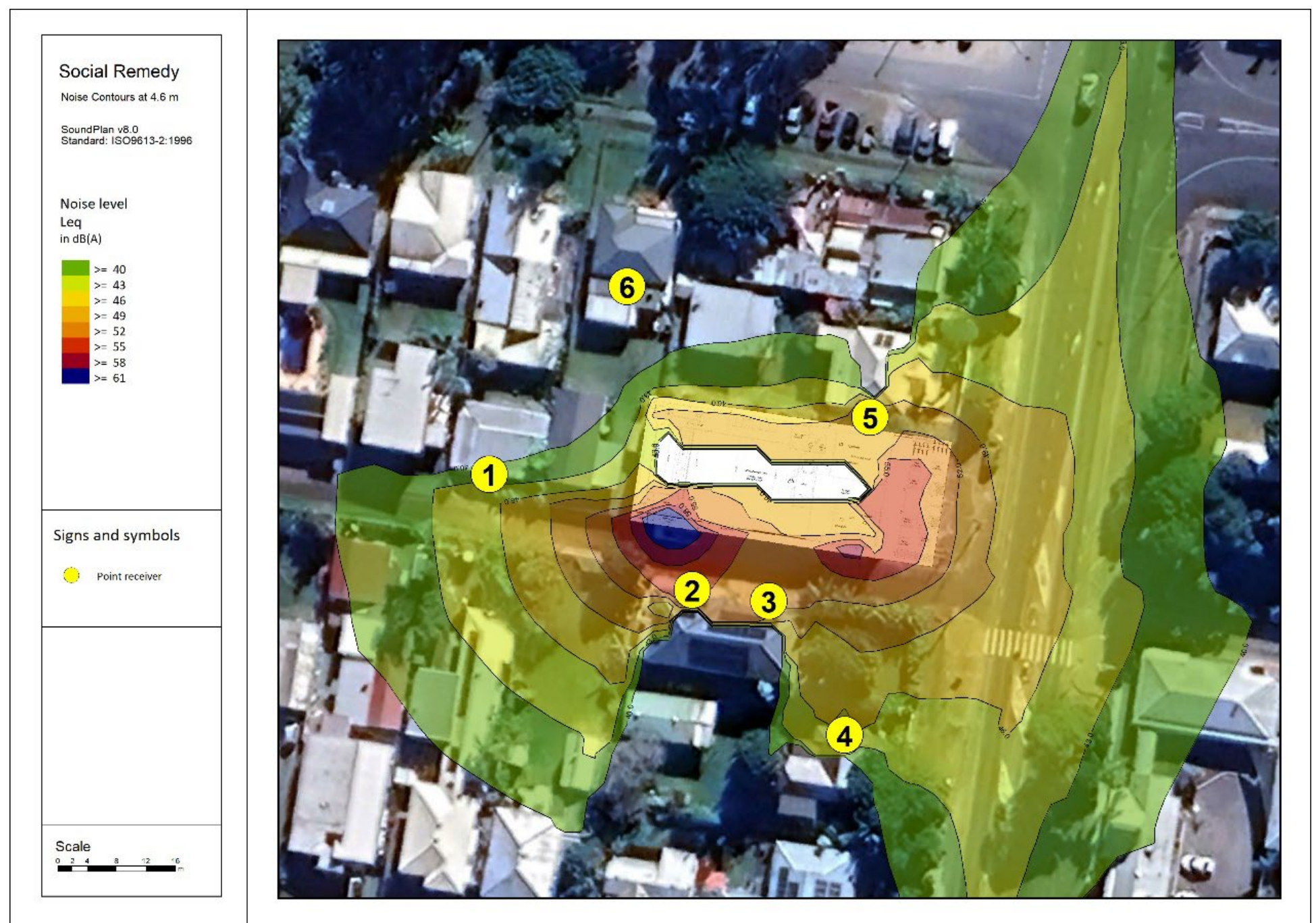


Plate 3.5 Noise contours at First Floor (4.6m above ground), all noise sources. Levels are in dB(A) Leq.



3.4.7 Noise Mitigation

The predicted noise levels presented in **Section 3.4.6** indicate that exceedances of the noise criteria are expected at the closest receivers during all time periods. Reviewing the source contribution within the detailed noise model results reveals that the most significant contributor of noise emissions, and the cause of the predicted exceedances, is the pool heating and cooling plant. The café window and raised voices in the outdoor dining area also contribute to exceedances during the night period. To minimize exceedances of the noise criteria, the following mitigation measures are proposed:

- A silencer is installed between the pool heating / cooling plant and the outlet vent on the southern wall. A silencer with a reduction of 15 dB(A) is modelled to demonstrate compliance, however detailed design will be required to ensure the required outcome is met.
- The south facing café window remains closed before 7a.m. (i.e. during the night period).
- Outdoor / footpath dining is restricted to the day and evening period (i.e. 7a.m. to 10p.m.).
- The roof of the building, including over the gym, café, and recreation facility, is designed to achieve 43 Rw. Predicted noise levels, including the mitigation measures discussed above, are presented with assessment to the relevant criteria in Table 1.6.1. Visual noise contours are presented in Plates 3.6 to 3.9.

Table 3.5 Predicted noise levels with mitigation measures, all noise sources. Levels are in dB(A) Leq.

Receptor	Floor	Predicted Noise Level			Criteria			Assessment		
		Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
1	GF	33	33	31	46	43	40	Pass	Pass	Pass
2	GF	42	42	41	46	43	40	Pass	Pass	+1
2	L 1	43	43	41	46	43	40	Pass	Pass	+1
3	GF	43	43	39	46	43	40	Pass	Pass	Pass
3	L 1	43	43	39	46	43	40	Pass	Pass	Pass
4	GF	41	41	34	46	43	40	Pass	Pass	Pass
4	L 1	41	41	34	46	43	40	Pass	Pass	Pass
5	GF	44	44	37	46	43	40	Pass	+1	Pass
5	L 1	43	43	37	46	43	40	Pass	Pass	Pass
6	GF	33	33	33	46	43	40	Pass	Pass	Pass

Plate 3.6 Noise contours at Ground Floor (1.8m above ground) with mitigation measures, day and evening noise sources. Levels are in dB(A) Leq.



Plate 3.7 Noise contours at First Floor (4.6m above ground) with mitigation measures, day and evening noise sources. Levels are in dB(A) Leq

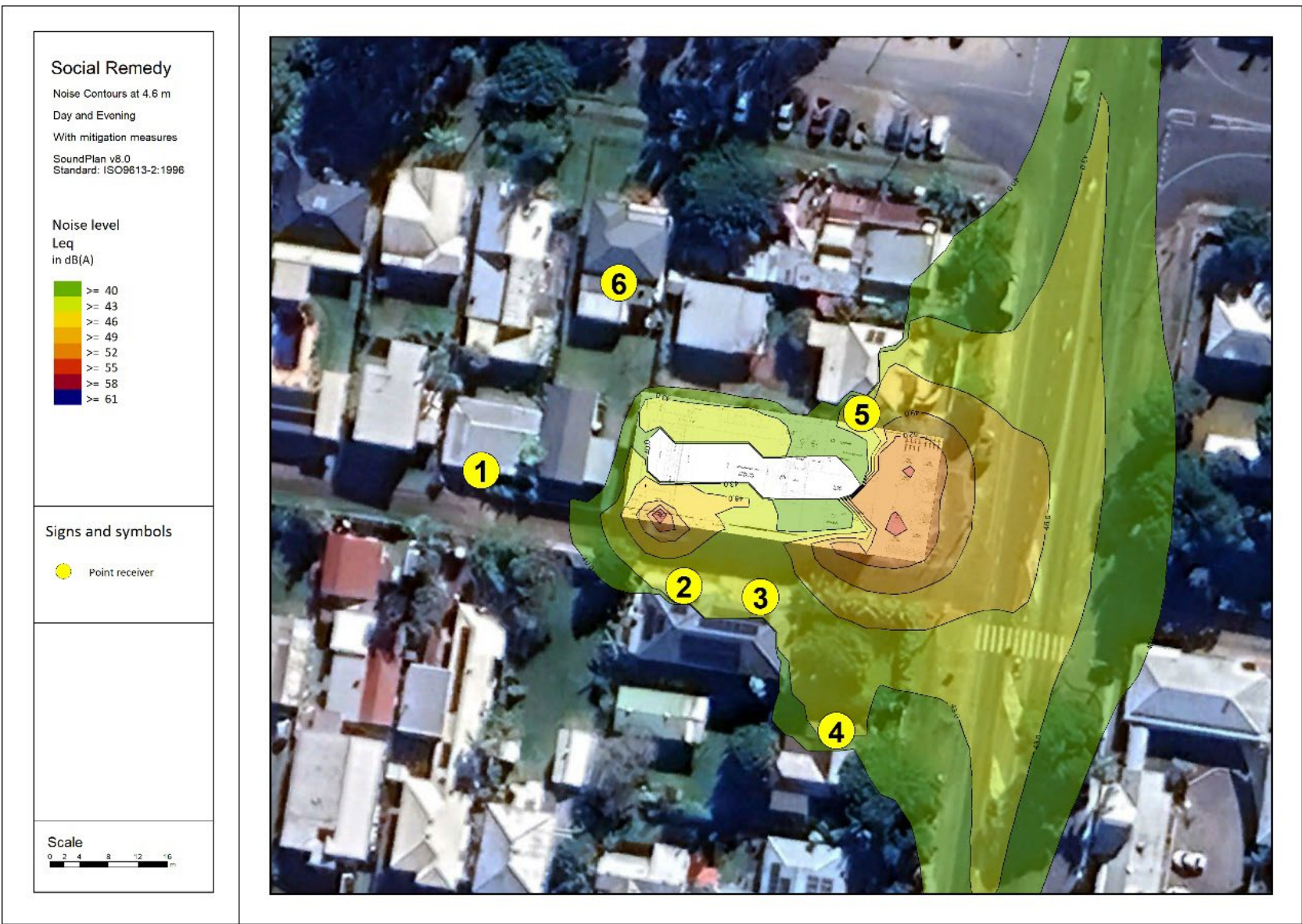


Plate 3.8 Noise contours at Ground Floor (1.8m above ground) with mitigation measures, night noise sources. Levels are in dB(A) Leq.



Plate 3.9 Noise contours at First Floor (4.6m above ground) with mitigation measures, night noise sources. Levels are in dB(A) Leq.



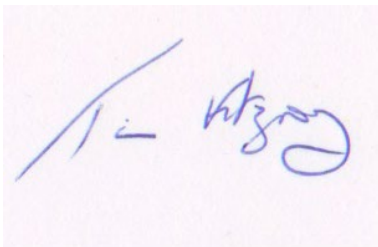
4. Conclusion

A noise model has been constructed to predict the propagation of noise from expected significant sources at the proposed development. The model includes shielding effects from existing and proposed structures, and topography. Topographic information included in the model was sourced from Geoscience Australia.

As per the assumptions and variables stated, it is concluded that –

- Noise emission levels from the expected sources at the development are predicted to exceed the criteria at the closest sensitive receptors during all time periods by up to 14dB(A). The exceedances are caused by the pool heating and cooling plant.
- To minimize exceedances of the required noise criteria, the inclusion of the following noise mitigation measures is recommended:
 - A silencer is installed between the pool heating / cooling plant and the outlet vent on the southern wall. Detailed design is required to ensure the required outcome is met.
 - Ensure the roof of the building, including over the gym, café, and recreation facility, is designed to meet or exceed 43 Rw.
 - The south facing café window remains closed before 7a.m. (i.e. during the night period).
 - Outdoor / footpath dining is restricted to the day and evening period (i.e. 7a.m. to 10p.m.).

It is therefore recommended that detailed design of the mitigation measures is undertaken, and the mitigation measures are incorporated into the development. It is also recommended that post construction noise testing is undertaken to ensure that the required outcomes are met. This report has been prepared by Tim Fitzroy of *Tim Fitzroy & Associates*. Noise modelling was undertaken by Matt Dever, *Noise Measurement Services, Brisbane*.



Tim Fitzroy
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References

- NSW EPA 2017 Noise Policy for Industry, Environment Protection Authority, Sydney
- NSW DECC, 2009 Noise Guide for Local Government, Department of Environment, Climate Change & Water, Sydney
- A/NZ Standards, 1987 Internal noise limits from Australian/New Zealand Standard AS/NZS 2107:1987.
- World Health Organisation 1999 Guidelines for Community Noise (Editor B Berglund et al Geneva Switzerland 1999)

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A Development Plans

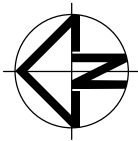
CHANGE OF USE

38 TWEED ST, BRUNSWICK HEADS

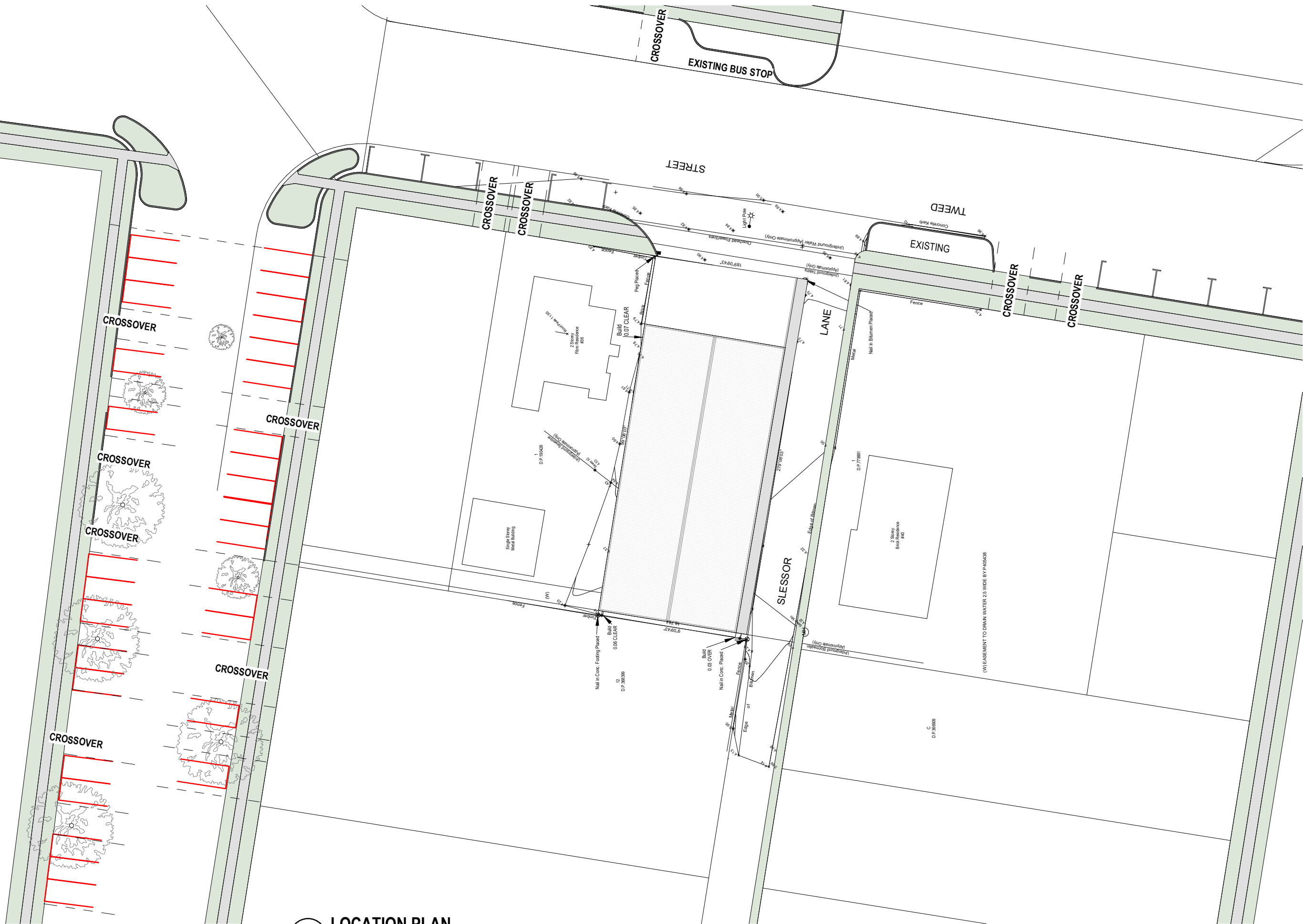
B3 FITNESS

DRAWING LIST	
NO.	SHEET NAME
DA00	COVER SHEET
DA01	LOCATION PLAN
DA02	EXISTING FLOOR PLAN
DA03	FLOOR PLAN
DA04	ELEVATIONS
DA05	ELEVATIONS
DA06	GFA CALCULATION PLAN

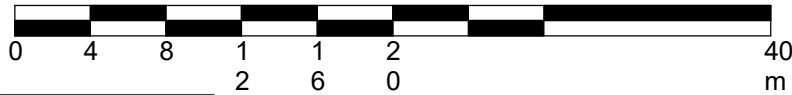
DRAWING LIST	
NO.	SHEET NAME



TRUE NORTH



SCALE 1:400



1 LOCATION PLAN
1 : 400



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+61 412 877 090
REG #: DP-AD 44217

DO NOT SCALE FROM DRAWING - Builder to verify all levels, boundaries, set-outs, dimensions before construction. All the building works specified in the plans must comply with all council regulations, engineers specifications, building surveyors recommendations and all Australian standards referred to in the drawing and specifications. All work materials & procedures must comply with the building Code of Australia

PROJECT
CLIENT
ADDRESS

SHOP FITOUT
SOCIAL REMEDY
38 TWEED ST, BRUNSWICK HEADS
LOT 1 - DP303546

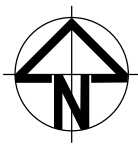
DRAWING
NOTES:

LOCATION PLAN

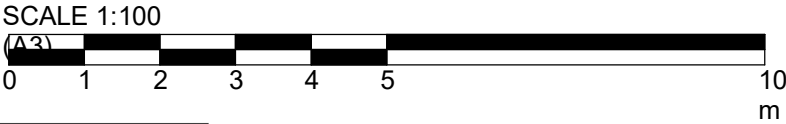
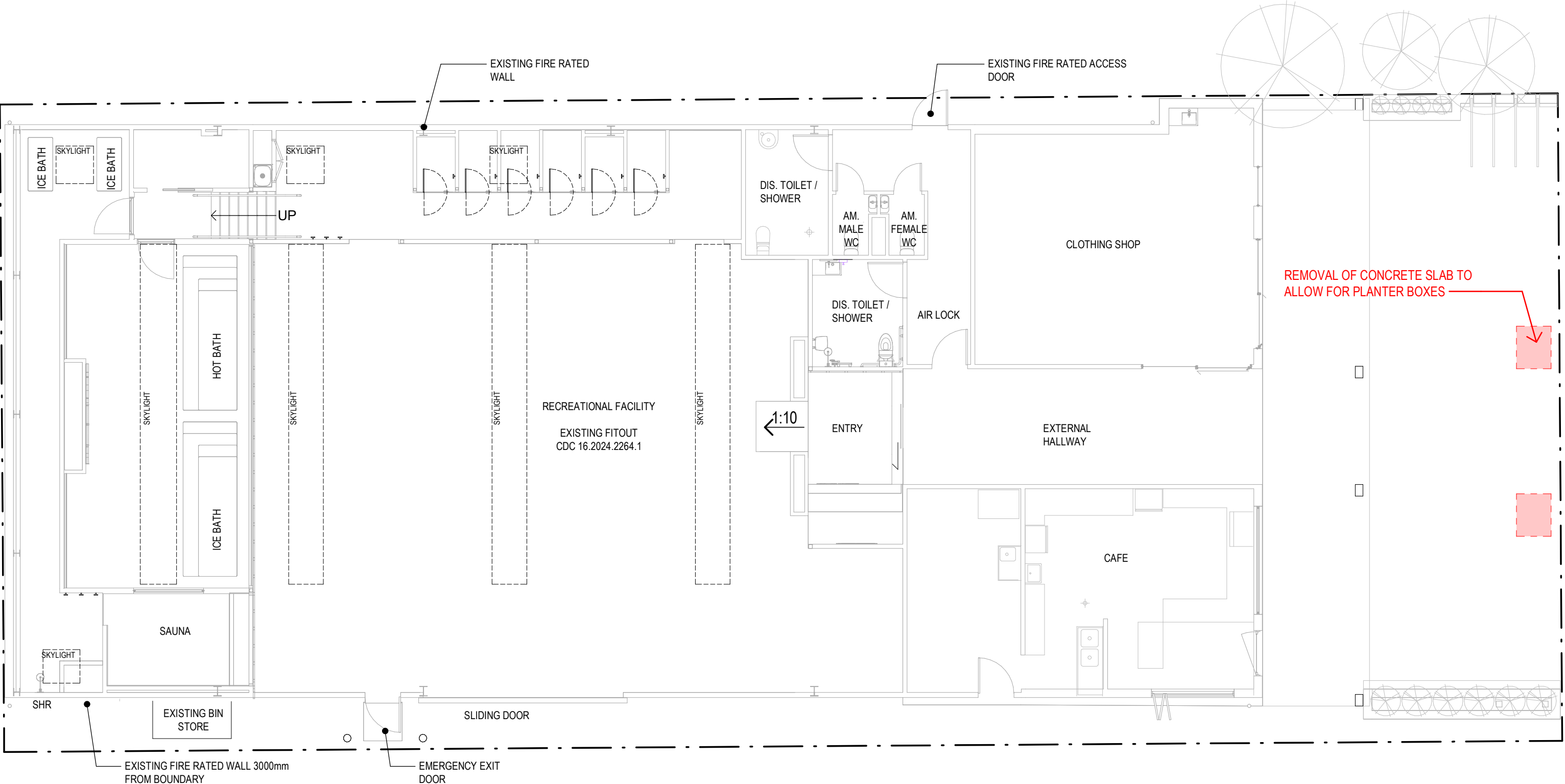
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CHECKED BY
AMENDMENT NO.

SC SCALE 1 : 400
AJ DATE 08/07/2024
A DRAWING NO. DA01

4/07/2024 9:58:17 AM



TRUE NORTH



1 EXISTING FLOOR PLAN

1 : 100



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PROJECT
CLIENT
ADDRESS

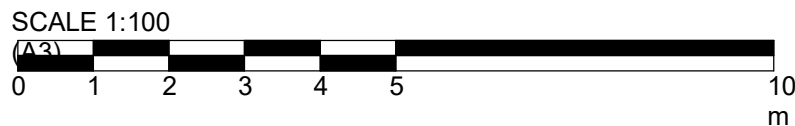
CHANGE OF USE
B3 FITNESS
38 TWEED ST, BRUNSWICK HEADS
LOT 1 - DP303546

DRAWING
NOTES:

EXISTING FLOOR PLAN

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CHECKED BY	AJ	DATE	08/07/2024
AMENDMENT NO.	A	DRAWING NO.	DA02

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REG #: DP-AD 44217

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**PROJECT
CLIENT
ADDRESS**

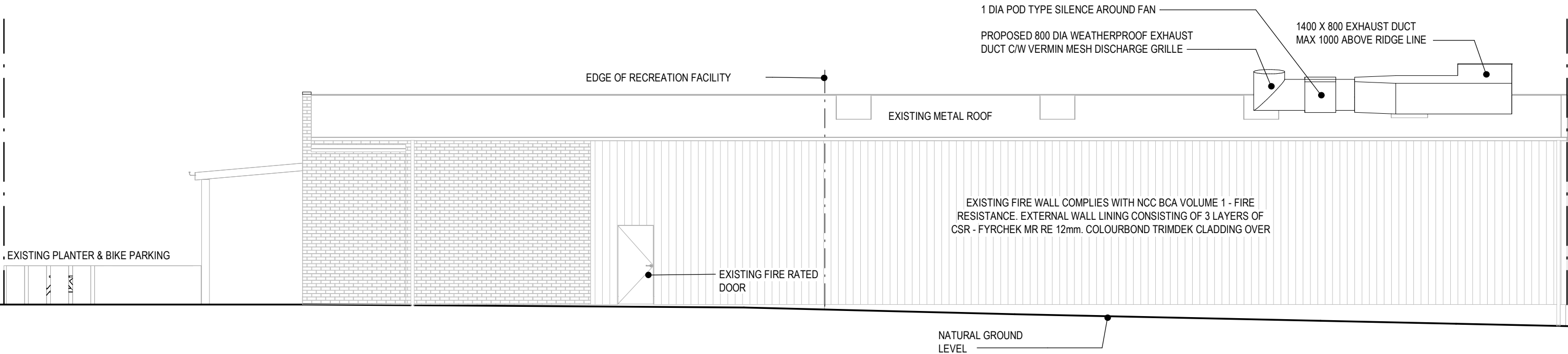
**CHANGE OF USE
B3 FITNESS
38 TWEED ST, BRUNSWICK HEADS
LOT 1 - DP303546**

**DRAWING
NOTES:**

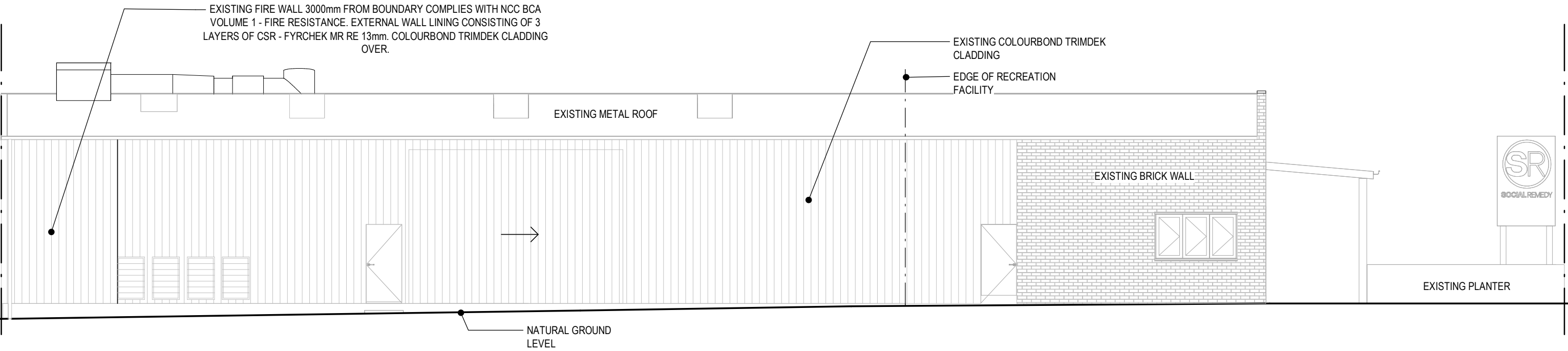
FLOOR PLAN DRAWN BY
CHECKED BY
AMENDMENT NO.

SC SCALE 1:100
AJ DATE 08/07/2024
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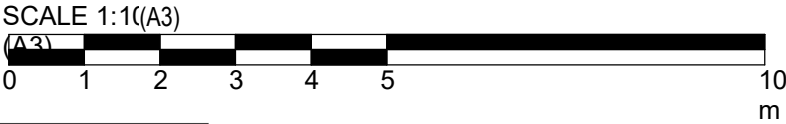
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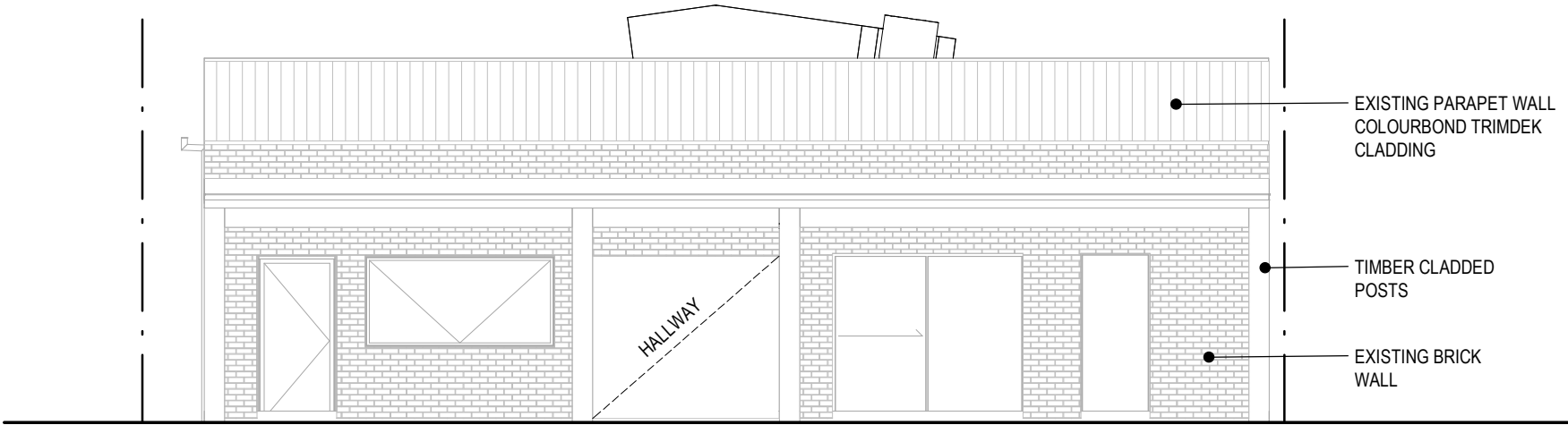


1 NORTH ELEVATION
DA03 1 : 100

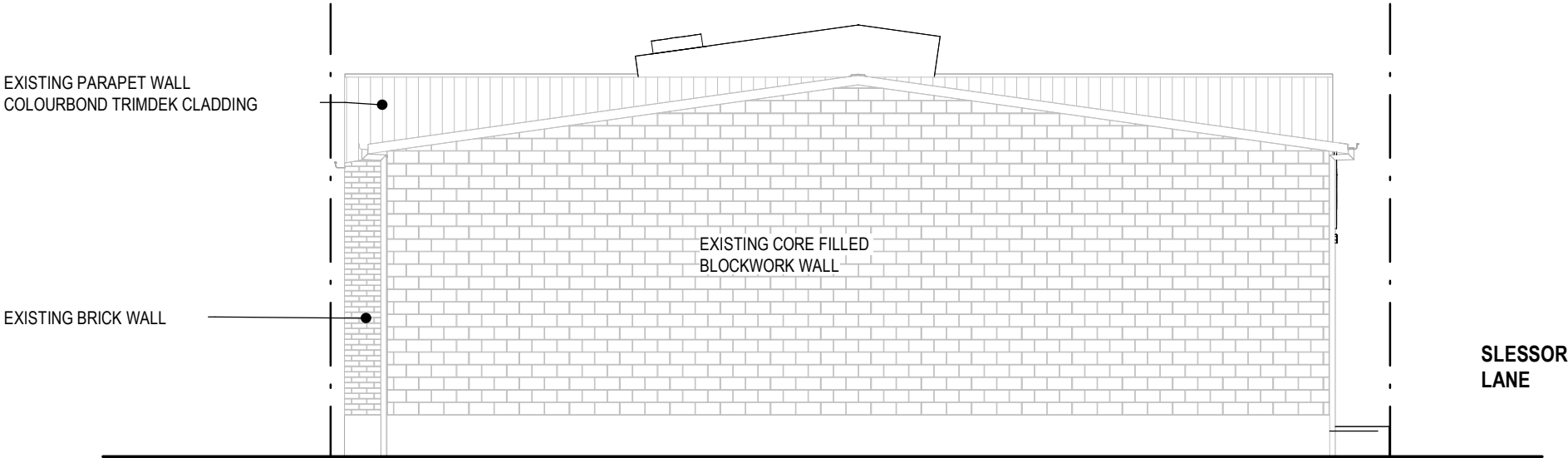


2 SOUTH ELEVATION
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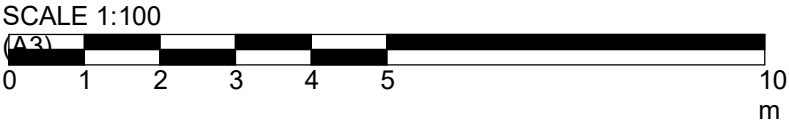




1 EAST ELEVATION
1 : 100



2 WEST ELEVATION
1 : 100



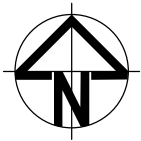
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PROJECT
CLIENT
ADDRESS
CHANGE OF USE
B3 FITNESS
38 TWEED ST, BRUNSWICK HEADS
LOT 1 - DP303546

DRAWING
NOTES:

ELEVATIONS
DRAWN BY
CHECKED BY
AMENDMENT NO.
SC SCALE
AJ DATE
A DRAWING NO. DA05
1 : 100
08/07/2024



TRUE NORTH



SCALE 1:100



1 GFA CALCULATION PLAN
1 : 100



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REG #: DP-AD 44217

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PROJECT
CLIENT
ADDRESS

CHANGE OF USE
B3 FITNESS
38 TWEED ST, BRUNSWICK HEADS
LOT 1 - DP303546

DRAWING
NOTES:

GFA CALCULATION PLAN

DRAWN BY
CHECKED BY
AMENDMENT NO.

SC SCALE 1 : 100
AJ DATE 08/07/2024
A DRAWING NO. DA06

8/07/2024 10:53:48 AM

Our Ref: 23-0383

Cobbold Building Design

Unit 3, 25 Fingal Street
Brunswick Heads NSW 2483

Attention: Sean Cobbold



CONSULTING
ENGINEERS
petereustace.com.au

Unit 14, 39-41 Lawrence Dr
Nerang QLD 4211

PO Box 2835
Nerang DC QLD 4211

(07) 5596 1425
mail@pece.com.au

Compliance Certificate - Design

*Social Remedy
38 Tweed Street
Brunswick Heads NSW 2483*

We certify that the works described below if installed in accordance with the information contained in this certificate, including any referenced documentation, will comply with the relevant requirement of Building Code of Australia and relevant Australian Standards.

The system covered by this certificate and the basis of certification is as follows:

System	Basis of Certification
Showers / Change room exhaust	NCC2022 Vol 1 Parts F6D6 and J6, AS1668.2-2012
Ventilation to hot bath / ice bath room	NCC2022 Vol 1 Parts F6D6 and J6, AS1668.2-2012
Ventilation to plant room	NCC2022 Vol 1 Parts F6D6 and J6, AS1668.2-2012
Natural Ventilation to Gymnasium	AS1668.4-2012

Referenced Documentation:

Description	Drawing Number
PE Consulting Engineers documentation	Drawings: 23-0383-M001-C1, 23-0383-M002-C1, 23-0383-M003-C1

Competent Person Details:

Profession: ***Mechanical Engineer***
Name /Qualification: Leigh Hellis, RPEQ 25029,
Mechanical Design Practitioner (NSW) DEP0003120
Address: 14/39 Lawrence Drive, Nerang Qld 4211
Business Telephone: (07) 5596 1425
Signature:

A handwritten signature in dark ink, appearing to read 'Leigh Hellis', written over a light blue horizontal line.

Date: 24 April 2024

For and on behalf of Peter Eustace & Associates Pty Ltd


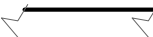













SOCIAL REMEDY- 38 TWEED STREET, BRUNSWICK HEADS
MECHANICAL SERVICES

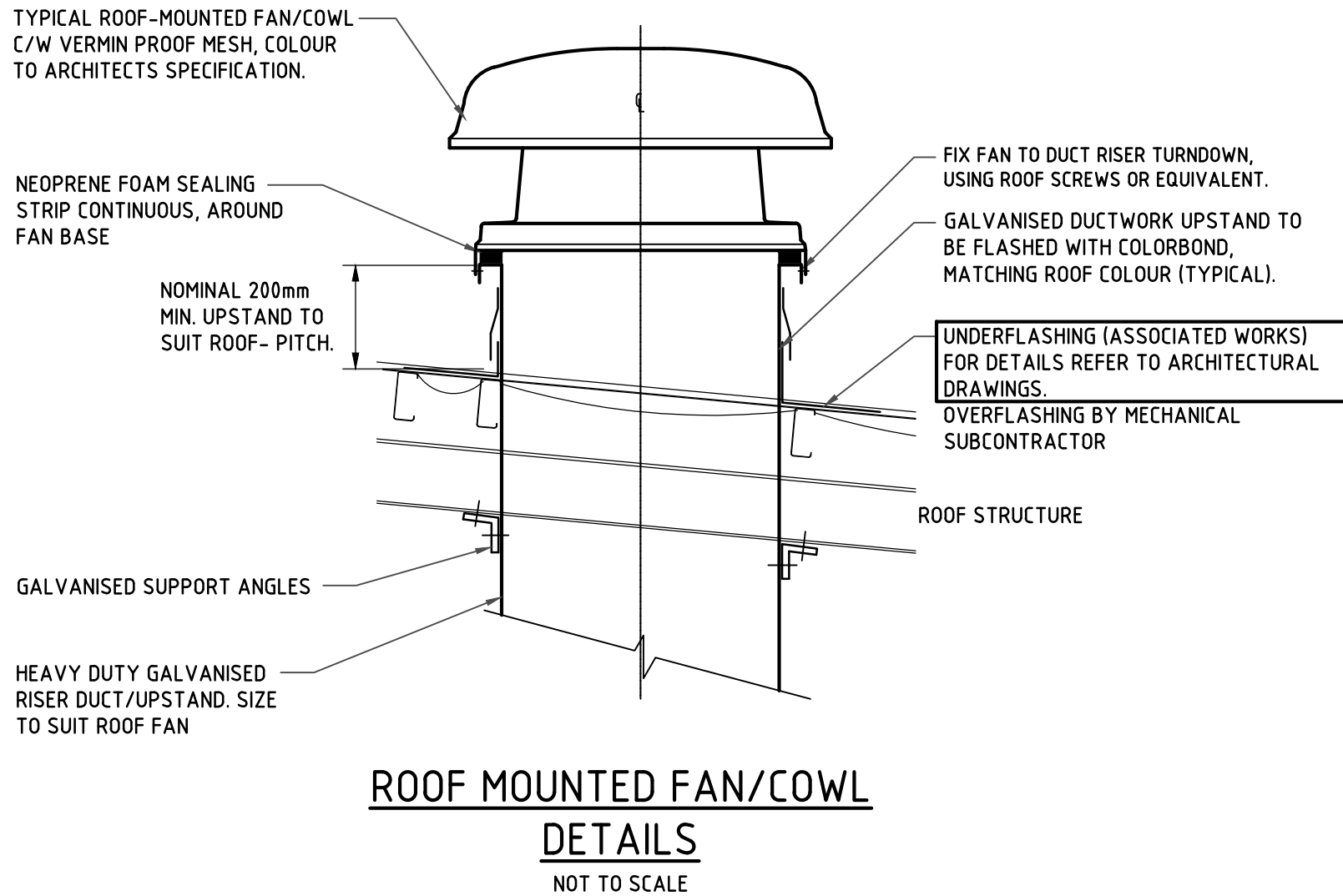
GENERAL NOTES:

- THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION NOTES ON DRAWING M03.
- ITEMS SHOWN BOXED ARE ASSOCIATED WORKS.
 - ALL VENTILATED ROOMS TO HAVE 25mm UNDERCUT DOORS UNLESS NOTED OTHERWISE.
 - DUCT SIZES GIVEN ARE CLEAR INTERNAL DIMENSIONS.
 - FLEXIBLE DUCTING
 - 0 - 50l/s - 150 DIA.
 - 51 - 100l/s - 200 DIA.
 - 101 - 150l/s - 250 DIA.
 - ALL ROOF MOUNTED EXHAUST FANS & AIR INTAKES TO BE PROVIDED WITH UV-STABILISED PLASTIC OR FIBREGLASS COWLS.
 - TOILET EXHAUST DUCTS TO BE UNINSULATED EXCEPT FOR LENGTH OF INTERNAL INSULATION EITHER SIDE OF EXHAUST FAN.
 - DO NOT SCALE DRAWINGS.
 - SITE MEASURE PRIOR TO SUBMISSION OF SHOP DRAWINGS.
 - BALANCE & COMMISSION ALL DIFFUSERS & REGISTERS TO THE AIR QUANTITIES INDICATED ON THE DRAWINGS.
 - EQUIPMENT SCHEDULES ARE TO BE READ IN CONJUNCTION WITH ALL DRAWINGS & ARE TO BE USED AS A GUIDE ONLY.
 - ALL ELECTRICAL WIRING ARE TO RUN IN WALL CAVITIES. EXTERNAL WALL PENETRATIONS SHALL BE AT LOW LEVEL.
 - THE POSITION OF THE EQUIPMENT IN THE CEILING SPACE SHOWN ON THE DRAWINGS IS APPROXIMATE ONLY. THE EQUIPMENT SHALL BE LOCATED TO SUIT THE ROOF TRUSS SET OUT & DESIGN TO ALLOW ALL NECESSARY ACCESS TO THE EQUIPMENT.
 - THE EQUIPMENT ELECTRICAL SUPPLY REQUIREMENTS & RATINGS ARE INDICATIVE ONLY. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO LIAISE WITH THE ELECTRICAL CONTRACTOR ON THE FINAL SELECTED EQUIPMENT ELECTRICAL REQUIREMENTS TO ENSURE THE CORRECT SUPPLY & PROTECTIVE DEVICES ARE INSTALLED.
 - ALLOW TO PROVIDE ADDITIONAL ACCESS PANELS AS REQUIRED FOR COMMISSIONING AND MAINTENANCE PURPOSES.
 - FLASH AND SEAL ALL WALL & ROOF PENETRATIONS ASSOCIATED WITH THE MECHANICAL SERVICES TO MAKE VERMIN PROOF & WATERPROOF.
 - PROVIDE SAMPLES OF GRILLES, DIFFUSERS & CONTROLLERS TO COBBOLD BUILDING DESIGN FOR APPROVAL PRIOR TO INSTALLATION.
 - ALL CONTROLLER LOCATIONS SHALL BE COORDINATED WITH JOINERY & BUILDING DESIGNER.
 - ALL CABLING SHALL RUN IN RECOGNISED CABLE MANAGEMENT SYSTEM.
 - FLEXIBLE ELECTRICAL CONDUIT SHALL NOT BE USED IN DIRECT SUNLIGHT. CONDUIT SHALL EITHER BE COVERED OR PAINTED IN UV RESILIENT PAINT.
 - ALL ELECTRICAL SUPPLIES TO MECHANICAL PLANT SHALL BE PROVIDED BY ELECTRICAL SERVICES WITH FINAL CONNECTION TO MECHANICAL PLANT BY MECHANICAL SERVICES.
 - ALL RUN ON TIMERS SHALL BE SUPPLIED, INSTALLED & COMMISSIONED BY MECHANICAL SERVICES. INTERLOCKING WITH LIGHTS SHALL BE BY ELECTRICAL SERVICES. COORDINATE ALL FINAL LOCATIONS & SWITCHING REQUIREMENTS ON SITE.
 - ALL AIR CONDITIONING UNITS SHALL BE BACNET COMPATIBLE TO ALLOW FOR FUTURE CONNECTION TO A BMS
 - AIR BALANCING SHALL BE COMPLETED BY A NATA ACCREDITED ORGANISATION.
 - ALL MECHANICAL ITEMS SHALL BE ADEQUATELY SUPPORTED WITH FIXING MECHANISMS THAT COMPLY WITH AS1177.4. CONFIRM REQUIREMENTS WITH STRUCTURAL ENGINEER AND BUILDER.

FAN SCHEDULE									
No.	MANUFACTURER	MODEL NO.	DESIGN l/s	STATIC po	ELECTRICAL	INPUT POWER (kW)	OUTLET dB(A) @ 3m	INTLET dB(A) @ 3m	BREAKOUT dB(A) @ 3m
GEF-01	FANTECH	APPM808CP12/25xCP	7500	270	3 PHASE	5.22	52	68	48
TEF-01	FANTECH	QUEECSV	600	140	1 PHASE	0.2	45		

FAN SELECTIONS ARE A GUIDE ONLY, CONTRACTOR TO SELECT FANS BASED ON ACTUAL STATIC PRESSURES

LEGEND	
SYMBOL	DESCRIPTION
EF/SF 	FAN CONTROL (WALL MOUNTED AT 1000) - EF=EXHAUST FAN SF=SUPPLY FAN
	UNINSULATED DUCT
	50mm INTERNALLY INSULATED DUCTWORK
	25mm INTERNALLY PRE-INSULATED DUCTWORK
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT WITH SPIGOTS
	EQUIPMENT NUMBER - REFER TO SCHEDULE
	CARBON DIOXIDE MONITOR
	600 x 600 ACCESS PANEL
	AIR FLOW DIRECTION.
	No. - GRILLE No. I/s - AIR QUANTITY
	DOOR UNDERCUT BY 25mm
	SINGLE PHASE ELECTRICAL SUPPLY
	THREE PHASE ELECTRICAL SUPPLY
	MECHANICAL SERVICES SWITCHBOARD



SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
M001	LEGEND, GENERAL NOTES, EQUIPMENT SCHEDULES & DRAWING LIST
M002	VENTILATION LAYOUT
M003	SPECIFICATION NOTES

orientation

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**ISSUED FOR
CONSTRUCTION**

C1	CONSTRUCTION ISSUE	RJ	23/04/24	
T1	TENDER ISSUE	RJ	26/10/23	
issue	amendment	checked	date	



**CONSULTING
ENGINEERS**

STREET ADDRESS
POSTAL ADDRESS
TELEPHONE
EMAIL
WEB

U14, 39 Lawrence Dr, Nerang QLD 4211
PO Box 2835, Nerang QLD 4211
(07) 5596 1425
mail@pece.com.au
petereustace.com.au

architect

proprieto

SOCIAL REMEDY

project

GYMNASIUM FITOUT

location

38 TWEED STREET
BRUNSWICK HEADS NSW 2483

drawing title

MECHANICAL SERVICES LEGEND, GENERAL NOTES, EQUIPMENT SCHEDULES AND DRAWING LIST

scale	N.T.S. @ A1 SHEET SIZE	date	OCT '23	design	RJ	draw	TC
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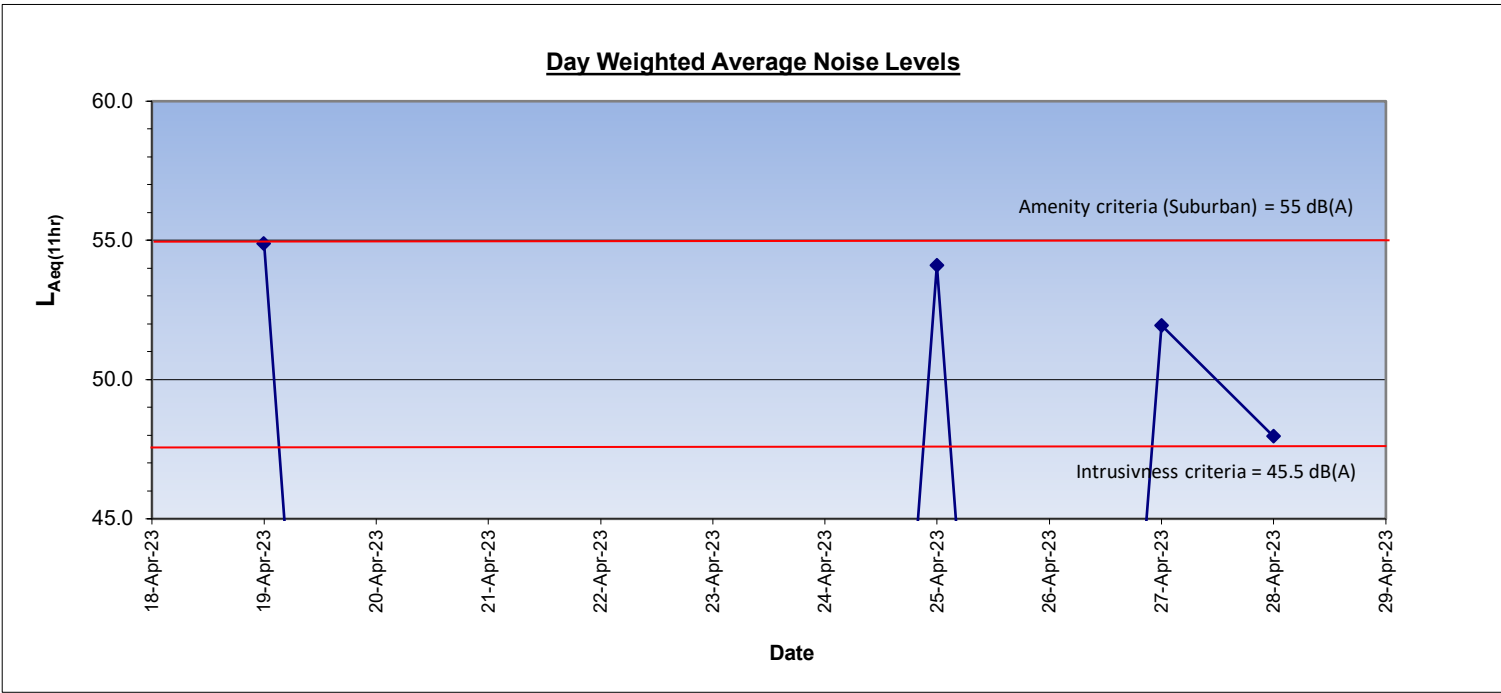
drawing number	issue
00 0000 / M 000 1	0

B Noise Data

Noise Assessment

Day Period 7am to 6pm
amenity criteria 55 dB(A) Suburban
Intrusiveness criteria (RBL+ 5) 45.5 dB(A)
Interim Construction Noise
Guidelines (RBL + 10) 50.5 dB(A)
Average LaeqDay 07:00-18:00 52.2 dB(A)

Day	Date	L _{Aeq} (day)	ABL	RBL
Wednesday	19/04/2023	54.9	42.1	40.5
Thursday	20/04/2023	Nil	Nil	
Friday	21/04/2023	Nil	Nil	
Saturday	22/04/2023	Nil	Nil	
Sunday	23/04/2023	Nil	Nil	
Monday	24/04/2023	Nil	Nil	
Tuesday	25/04/2023	54.1	39.6	
Wednesday	26/04/2023	Nil	Nil	
Thursday	27/04/2023	51.9	41.3	
Friday	28/04/2023	48.0	39.3	



no.	Date	time	L _{Aeq} (15 minute)	L _{A90} (15minute)	L _{A90} (15min)	assending order	10 [^] ((L _{Aeq} (15 minute)/10))	period sums	hrly sums	hrly Laeq
	2023-04-19	12:00:00	62.1	41.0		38.9				
	2023-04-19	12:15:00	46.1	40.3		39.1			0	#NUM!
	2023-04-19	12:30:00	44.3	39.1		40.3				
	2023-04-19	12:45:00	49.1	38.9		40.5				
	2023-04-19	13:00:00	44.9	40.5		40.6				
	2023-04-19	13:15:00	44.3	40.6		40.8			0	#NUM!
	2023-04-19	13:30:00	43.9	41.2		40.9				
	2023-04-19	13:45:00	44.7	41.2		41.0				
	2023-04-19	14:00:00	45.3	41.4		41.0				
	2023-04-19	14:15:00	44.7	41.4		41.2			0	#NUM!
	2023-04-19	14:30:00	45.9	41.7		41.2				
	2023-04-19	14:45:00	47.9	42.0		41.3				
	2023-04-19	15:00:00	47.5	42.1		41.3				
	2023-04-19	15:15:00	52.3	42.1		41.4			0	#NUM!
	2023-04-19	15:30:00	52.1	42.4		41.4				
	2023-04-19	15:45:00	46.6	41.7		41.4				
	2023-04-19	16:00:00	46.9	40.9		41.7				
	2023-04-19	16:15:00	53.2	41.4		41.7			0	#NUM!
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	2023-04-19	16:45:00	45.8	40.8		42.1				
1	2023-04-19	17:00:00	49.0	41.3		42.1	79433			
2	2023-04-19	17:15:00	49.6	41.3		42.2	91201		170634	46.3
3	2023-04-19	17:30:00	53.1	42.2		42.4	204174			
4	2023-04-19	17:45:00	56.9	43.7		43.7	489779			
5	2023-04-19	18:00:00	58.3	56.4		56.4	676083			
								1540669		
	2023-04-20	07:15:00	46.8	42.9		39.0				
	2023-04-20	07:30:00	45.7	42.2		40.3				
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	2023-04-20	08:00:00	47.5	42.5		40.5			0	#NUM!
	2023-04-20	08:15:00	48.2	41.5		40.7				
	2023-04-20	08:30:00	50.6	42.3		40.8				
	2023-04-20	08:45:00	45.6	42.3		40.8				
	2023-04-20	09:00:00	44.2	40.9		40.8			0	#NUM!
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	2023-04-20	09:30:00	46.5	40.8		40.9				
	2023-04-20	09:45:00	45.7	41.2		41.1				
	2023-04-20	10:00:00	46.5	41.1		41.2			0	#NUM!

2023-04-20	10:15:00	45.1	40.5	41.2
2023-04-20	10:30:00	45.0	42.0	41.2
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2023-04-20	13:30:00	44.7	41.7	41.9
2023-04-20	13:45:00	45.7	41.7	42.0
2023-04-20	14:00:00	44.4	41.2	42.1
2023-04-20	14:15:00	45.6	41.5	42.1
2023-04-20	14:30:00	49.1	41.8	42.2
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2023-04-20	15:15:00	44.4	40.7	42.3
2023-04-20	15:30:00	46.2	42.1	42.3
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2023-04-21	07:30:00	52.7	44.4	42.1
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2023-04-21	08:00:00	57.6	48.3	42.2
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2023-04-21	09:30:00	46.5	43.5	42.6
2023-04-21	09:45:00	46.6	43.7	42.6
2023-04-21	10:00:00	46.4	43.4	42.6
2023-04-21	10:15:00	60.5	46.9	42.6
2023-04-21	10:30:00	54.7	45.9	43.0
2023-04-21	10:45:00	52.4	44.9	43.3
2023-04-21	11:00:00	50.4	45.2	43.4
2023-04-21	11:15:00	50.1	45.4	43.4
2023-04-21	11:30:00	46.6	43.4	43.4
2023-04-21	11:45:00	46.9	43.5	43.4
2023-04-21	12:00:00	46.7	43.7	43.5
2023-04-21	12:15:00	46.5	43.6	43.5
2023-04-21	12:30:00	45.7	43.3	43.5
2023-04-21	12:45:00	52.0	44.6	43.6
2023-04-21	13:00:00	54.0	45.7	43.6
2023-04-21	13:15:00	46.7	43.4	43.7
2023-04-21	13:30:00	59.4	44.3	43.7

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2023-04-21	14:00:00	50.5	43.5	44.1
2023-04-21	14:15:00	48.6	43.4	44.3
2023-04-21	14:30:00	46.2	42.2	44.3
2023-04-21	14:45:00	48.9	42.6	44.4
2023-04-21	15:00:00	45.1	42.5	44.4
2023-04-21	15:15:00	48.8	42.6	44.6
2023-04-21	15:30:00	51.2	45.3	44.9
2023-04-21	15:45:00	46.3	42.6	45.2
2023-04-21	16:00:00	45.9	42.1	45.3
2023-04-21	16:15:00	46.9	42.6	45.4
2023-04-21	16:30:00	46.1	42.6	45.4
2023-04-21	16:45:00	46.3	42.2	45.7
2023-04-21	17:00:00	52.0	43.0	45.9
2023-04-21	17:15:00	47.6	42.6	46.6
2023-04-21	17:30:00	48.4	42.4	46.9
2023-04-21	17:45:00	45.4	42.6	48.3
2023-04-21	18:00:00	54.1	44.4	52.6

2023-04-22	07:15:00	47.9	41.8	40.9
2023-04-22	07:30:00	47.4	41.7	40.9
2023-04-22	07:45:00	46.9	41.6	40.9
2023-04-22	08:00:00	44.6	41.5	40.9
2023-04-22	08:15:00	43.8	41.0	41.0
2023-04-22	08:30:00	44.4	41.8	41.1
2023-04-22	08:45:00	49.0	41.9	41.2
2023-04-22	09:00:00	45.4	42.5	41.3
2023-04-22	09:15:00	45.8	42.2	41.4
2023-04-22	09:30:00	45.4	41.7	41.4
2023-04-22	09:45:00	50.9	42.8	41.4
2023-04-22	10:00:00	44.4	41.7	41.5
2023-04-22	10:15:00	44.0	40.9	41.5
2023-04-22	10:30:00	44.9	41.5	41.5
2023-04-22	10:45:00	45.8	41.5	41.5
2023-04-22	11:00:00	43.3	40.9	41.6
2023-04-22	11:15:00	44.7	41.4	41.7
2023-04-22	11:30:00	44.3	41.7	41.7
2023-04-22	11:45:00	46.7	41.7	41.7
2023-04-22	12:00:00	45.1	41.7	41.7
2023-04-22	12:15:00	47.9	42.2	41.7
2023-04-22	12:30:00	49.5	41.7	41.7
2023-04-22	12:45:00	45.4	41.5	41.7
2023-04-22	13:00:00	47.4	41.1	41.7
2023-04-22	13:15:00	52.9	41.8	41.7
2023-04-22	13:30:00	59.1	40.9	41.8
2023-04-22	13:45:00	45.2	41.7	41.8
2023-04-22	14:00:00	49.8	42.2	41.8
2023-04-22	14:15:00	51.5	42.8	41.8
2023-04-22	14:30:00	51.0	42.2	41.9
2023-04-22	14:45:00	45.0	41.4	42.0
2023-04-22	15:00:00	56.8	44.7	42.2
2023-04-22	15:15:00	60.6	43.2	42.2
2023-04-22	15:30:00	46.5	41.7	42.2
2023-04-22	15:45:00	47.9	43.6	42.2
2023-04-22	16:00:00	46.5	42.7	42.5
2023-04-22	16:15:00	46.7	42.0	42.7
2023-04-22	16:30:00	47.0	41.2	42.8
2023-04-22	16:45:00	48.2	40.9	42.8
2023-04-22	17:00:00	48.0	41.4	43.2

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2023-04-22	17:30:00	49.5	41.8	44.7
2023-04-22	17:45:00	55.9	51.0	51.0
2023-04-22	18:00:00	57.6	55.7	55.7

2023-04-23	07:15:00	48.3	39.0	39.0
2023-04-23	07:30:00	49.3	39.8	39.5
2023-04-23	07:45:00	46.6	39.5	39.8
2023-04-23	08:00:00	47.3	40.6	40.0
2023-04-23	08:15:00	50.5	41.1	40.1
2023-04-23	08:30:00	54.7	40.1	40.6
2023-04-23	08:45:00	47.6	41.3	40.8
2023-04-23	09:00:00	46.9	41.2	41.1
2023-04-23	09:15:00	43.3	40.0	41.2
2023-04-23	09:30:00	45.9	42.3	41.3
2023-04-23	09:45:00	46.0	43.4	41.4
2023-04-23	10:00:00	47.1	42.9	42.1
2023-04-23	10:15:00	46.3	43.3	42.3
2023-04-23	10:30:00	47.7	43.6	42.3
2023-04-23	10:45:00	47.1	43.5	42.4
2023-04-23	11:00:00	47.5	43.4	42.4
2023-04-23	11:15:00	53.8	43.5	42.5
2023-04-23	11:30:00	47.3	43.6	42.5
2023-04-23	11:45:00	47.3	43.5	42.6
2023-04-23	12:00:00	47.7	43.8	42.8
2023-04-23	12:15:00	46.9	43.4	42.9
2023-04-23	12:30:00	46.9	43.5	42.9
2023-04-23	12:45:00	47.4	42.5	42.9
2023-04-23	13:00:00	48.2	43.9	43.1
2023-04-23	13:15:00	47.8	44.2	43.1
2023-04-23	13:30:00	47.4	44.4	43.3
2023-04-23	13:45:00	49.6	43.5	43.4
2023-04-23	14:00:00	51.9	42.9	43.4
2023-04-23	14:15:00	52.9	43.1	43.4
2023-04-23	14:30:00	49.6	42.8	43.5
2023-04-23	14:45:00	47.3	42.4	43.5
2023-04-23	15:00:00	56.1	44.3	43.5
2023-04-23	15:15:00	57.5	42.9	43.5
2023-04-23	15:30:00	47.9	40.8	43.5
2023-04-23	15:45:00	48.6	42.5	43.6
2023-04-23	16:00:00	48.4	42.6	43.6
2023-04-23	16:15:00	53.6	43.1	43.8
2023-04-23	16:30:00	57.1	43.8	43.8
2023-04-23	16:45:00	47.0	42.4	43.9
2023-04-23	17:00:00	44.8	41.4	44.2
2023-04-23	17:15:00	45.7	42.1	44.3
2023-04-23	17:30:00	52.7	42.3	44.4
2023-04-23	17:45:00	54.1	45.6	45.6
2023-04-23	18:00:00	57.2	55.5	55.5

2023-04-24	07:15:00	49.5	44.0	39.9
2023-04-24	07:30:00	50.1	43.8	40.9
2023-04-24	07:45:00	63.2	47.5	40.9
2023-04-24	08:00:00	50.6	44.9	42.1
2023-04-24	08:15:00	49.0	45.7	42.5
2023-04-24	08:30:00	49.3	45.4	42.6
2023-04-24	08:45:00	49.2	45.4	42.6
2023-04-24	09:00:00	49.7	45.9	42.7
2023-04-24	09:15:00	49.8	46.7	43.0

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	2023-04-24	09:45:00	48.6	45.8	43.1
	2023-04-24	10:00:00	48.6	45.2	43.2
	2023-04-24	10:15:00	48.3	45.0	43.2
	2023-04-24	10:30:00	46.8	44.1	43.3
	2023-04-24	10:45:00	46.3	43.2	43.5
	2023-04-24	11:00:00	49.8	43.6	43.5
	2023-04-24	11:15:00	46.4	43.5	43.6
	2023-04-24	11:30:00	47.1	44.3	43.6
	2023-04-24	11:45:00	49.6	43.7	43.7
	2023-04-24	12:00:00	46.5	43.7	43.7
	2023-04-24	12:15:00	46.4	43.3	43.7
	2023-04-24	12:30:00	45.6	43.0	43.8
	2023-04-24	12:45:00	46.7	43.8	43.8
	2023-04-24	13:00:00	46.5	43.5	44.0
	2023-04-24	13:15:00	46.9	42.6	44.1
	2023-04-24	13:30:00	46.3	42.7	44.2
	2023-04-24	13:45:00	49.0	43.1	44.3
	2023-04-24	14:00:00	48.1	43.1	44.4
	2023-04-24	14:15:00	45.0	40.9	44.9
	2023-04-24	14:30:00	45.0	39.9	45.0
	2023-04-24	14:45:00	62.3	48.9	45.2
	2023-04-24	15:00:00	53.5	47.9	45.3
	2023-04-24	15:15:00	49.0	44.4	45.4
	2023-04-24	15:30:00	47.0	42.6	45.4
	2023-04-24	15:45:00	46.8	43.6	45.7
	2023-04-24	16:00:00	56.0	45.3	45.8
	2023-04-24	16:15:00	48.3	44.2	45.9
	2023-04-24	16:30:00	48.3	42.5	46.1
	2023-04-24	16:45:00	47.3	42.1	46.7
	2023-04-24	17:00:00	51.4	43.2	47.5
	2023-04-24	17:15:00	51.2	43.7	47.9
	2023-04-24	17:30:00	45.4	40.9	48.9
	2023-04-24	17:45:00	54.3	50.7	50.7
	2023-04-24	18:00:00	57.2	55.4	55.4
1	2023-04-25	07:15:00	54.6	39.6	39.5
	2023-04-25	07:30:00	55.9	39.6	39.6
	2023-04-25	07:45:00	57.9	42.9	39.6
	2023-04-25	08:00:00	46.3	42.1	39.9
2	2023-04-25	08:15:00	45.0	41.4	40.2
	2023-04-25	08:30:00	46.1	39.9	40.2
	2023-04-25	08:45:00	45.8	39.5	40.3
	2023-04-25	09:00:00	45.7	40.5	40.3
3	2023-04-25	09:15:00	54.5	47.4	40.4
4	2023-04-25	09:30:00	52.9	46.1	40.5
5	2023-04-25	09:45:00	49.3	42.4	40.5
6	2023-04-25	10:00:00	53.9	47.3	40.6
7	2023-04-25	10:15:00	58.3	52.0	40.7
	2023-04-25	10:30:00	57.4	50.9	40.7
	2023-04-25	10:45:00	48.9	40.7	40.8
	2023-04-25	11:00:00	51.9	40.7	40.9
	2023-04-25	11:15:00	54.1	40.8	41.0
	2023-04-25	11:30:00	46.2	41.0	41.1
	2023-04-25	11:45:00	48.0	40.3	41.3
	2023-04-25	12:00:00	44.8	40.2	41.4
	2023-04-25	12:15:00	43.3	40.4	41.4
	2023-04-25	12:30:00	43.7	40.3	41.5
	2023-04-25	12:45:00	47.1	40.6	41.6

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288403| 48.6 |

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31623| 39.0 |

281838

194984

85114

245471

676083

807407| 53.1 |

676083| 52.3 |

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2023-04-25	13:15:00	45.1	41.7	41.7
2023-04-25	13:30:00	51.1	40.9	41.7
2023-04-25	13:45:00	49.1	41.5	41.8
2023-04-25	14:00:00	47.4	42.6	41.8
2023-04-25	14:15:00	45.6	41.7	41.8
2023-04-25	14:30:00	45.2	41.6	42.1
2023-04-25	14:45:00	45.9	41.1	42.1
2023-04-25	15:00:00	48.2	40.5	42.1
2023-04-25	15:15:00	60.6	41.8	42.3
2023-04-25	15:30:00	48.7	41.3	42.4
2023-04-25	15:45:00	45.3	41.7	42.6
2023-04-25	16:00:00	53.4	41.4	42.7
2023-04-25	16:15:00	49.9	42.7	42.9
2023-04-25	16:30:00	50.4	41.8	46.1
2023-04-25	16:45:00	46.4	42.3	47.3
2023-04-25	17:00:00	45.9	42.1	47.4
2023-04-25	17:15:00	44.7	40.2	50.9
2023-04-25	17:30:00	46.2	41.8	52.0
2023-04-25	17:45:00	56.8	52.8	52.8
2023-04-25	18:00:00	56.9	54.3	54.3

2023-04-26	07:15:00	50.3	43.7	40.2
2023-04-26	07:30:00	47.0	43.5	41.6
2023-04-26	07:45:00	47.1	42.8	41.6
2023-04-26	08:00:00	52.4	42.5	41.6
2023-04-26	08:15:00	53.9	43.6	41.7
2023-04-26	08:30:00	57.3	44.1	41.7
2023-04-26	08:45:00	53.9	42.6	41.9
2023-04-26	09:00:00	54.9	45.7	42.0
2023-04-26	09:15:00	55.9	46.3	42.0
2023-04-26	09:30:00	53.8	46.2	42.1
2023-04-26	09:45:00	54.2	49.3	42.2
2023-04-26	10:00:00	50.1	42.8	42.2
2023-04-26	10:15:00	44.9	40.2	42.3
2023-04-26	10:30:00	46.3	42.8	42.3
2023-04-26	10:45:00	48.7	44.9	42.3
2023-04-26	11:00:00	47.8	44.3	42.5
2023-04-26	11:15:00	48.8	45.6	42.6
2023-04-26	11:30:00	49.2	45.5	42.6
2023-04-26	11:45:00	47.4	42.7	42.6
2023-04-26	12:00:00	46.1	42.9	42.7
2023-04-26	12:15:00	46.8	42.6	42.7
2023-04-26	12:30:00	44.6	42.1	42.8
2023-04-26	12:45:00	45.7	42.2	42.8
2023-04-26	13:00:00	47.3	41.9	42.8
2023-04-26	13:15:00	45.2	42.0	42.8
2023-04-26	13:30:00	45.3	42.6	42.8
2023-04-26	13:45:00	46.3	42.8	42.9
2023-04-26	14:00:00	45.3	41.7	43.0
2023-04-26	14:15:00	45.1	41.6	43.1
2023-04-26	14:30:00	45.1	41.6	43.5
2023-04-26	14:45:00	48.0	42.8	43.6
2023-04-26	15:00:00	46.4	43.0	43.7
2023-04-26	15:15:00	56.0	42.7	44.1
2023-04-26	15:30:00	53.1	42.3	44.2
2023-04-26	15:45:00	50.4	42.2	44.3
2023-04-26	16:00:00	50.4	42.0	44.9
2023-04-26	16:15:00	47.9	42.3	45.5

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	2023-04-26	16:45:00	54.0	42.3	45.7
	2023-04-26	17:00:00	56.8	43.1	46.2
	2023-04-26	17:15:00	54.5	41.7	46.3
	2023-04-26	17:30:00	48.7	41.6	49.3
	2023-04-26	17:45:00	58.1	53.7	51.9
	2023-04-26	18:00:00	56.9	51.9	53.7

	2023-04-27	07:15:00	48.4	42.6	38.9
	2023-04-27	07:30:00	55.1	41.5	39.5
	2023-04-27	07:45:00	48.1	40.5	39.7
	2023-04-27	08:00:00	50.0	41.9	40.1
	2023-04-27	08:15:00	49.6	41.2	40.4
	2023-04-27	08:30:00	49.4	42.5	40.5
	2023-04-27	08:45:00	47.4	42.7	41.2

1	2023-04-27	09:00:00	44.2	40.4	41.3
2	2023-04-27	09:15:00	44.7	39.7	41.3
3	2023-04-27	09:30:00	43.7	38.9	41.3
4	2023-04-27	09:45:00	44.1	39.5	41.3
5	2023-04-27	10:00:00	46.0	41.4	41.4
6	2023-04-27	10:15:00	45.5	41.6	41.5
7	2023-04-27	10:30:00	46.9	41.3	41.5
8	2023-04-27	10:45:00	46.8	41.6	41.5
	2023-04-27	11:00:00	56.7	50.1	41.6
	2023-04-27	11:15:00	51.1	42.2	41.6
	2023-04-27	11:30:00	52.0	43.0	41.7
	2023-04-27	11:45:00	48.3	41.3	41.8

9	2023-04-27	12:00:00	45.1	40.1	41.8
10	2023-04-27	12:15:00	46.5	41.5	41.9
11	2023-04-27	12:30:00	47.2	43.4	42.1
12	2023-04-27	12:45:00	44.9	41.7	42.1
13	2023-04-27	13:00:00	45.0	41.3	42.2
14	2023-04-27	13:15:00	44.0	41.3	42.2
15	2023-04-27	13:30:00	44.3	41.5	42.5
16	2023-04-27	13:45:00	53.8	42.8	42.5
17	2023-04-27	14:00:00	48.7	43.7	42.6
18	2023-04-27	14:15:00	45.2	42.7	42.6
19	2023-04-27	14:30:00	47.1	43.7	42.7
20	2023-04-27	14:45:00	46.2	42.8	42.7
21	2023-04-27	15:00:00	50.4	43.3	42.8
22	2023-04-27	15:15:00	45.6	42.1	42.8
23	2023-04-27	15:30:00	47.0	42.1	43.0
24	2023-04-27	15:45:00	49.6	41.8	43.3
25	2023-04-27	16:00:00	54.9	42.5	43.3
26	2023-04-27	16:15:00	55.8	43.5	43.4
27	2023-04-27	16:30:00	57.6	41.8	43.5
28	2023-04-27	16:45:00	59.2	43.3	43.7
29	2023-04-27	17:00:00	52.2	45.5	43.7
30	2023-04-27	17:15:00	50.8	42.6	45.5
31	2023-04-27	17:30:00	52.2	42.2	50.1
32	2023-04-27	17:45:00	54.3	52.0	52.0
33	2023-04-27	18:00:00	54.4	53.1	53.1

1	2023-04-28	07:15:00	48.9	40.3	38.6
2	2023-04-28	07:30:00	45.2	39.8	39.0
3	2023-04-28	07:45:00	48.3	40.1	39.0
4	2023-04-28	08:00:00	48.4	39.8	39.3
5	2023-04-28	08:15:00	48.9	39.6	39.4
6	2023-04-28	08:30:00	44.5	39.7	39.5

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26303| 38.2 |

118469| 44.7 |

600057| 51.8 |

387282| 49.9 |

159675| 46.0 |

366049| 49.6 |

235734| 47.7 |

486657| 50.9 |

1953352| 56.9 |

830761| 53.2 |

5164339

247529| 47.9 |

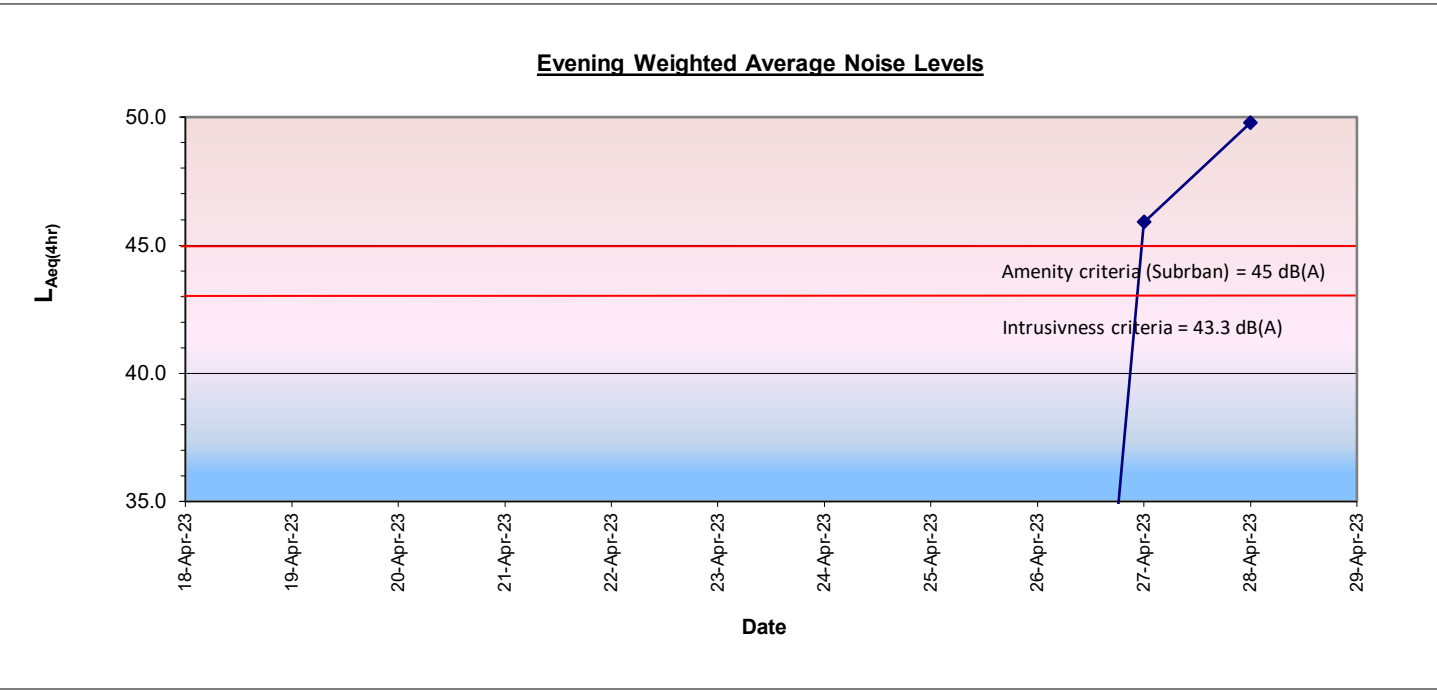
7	2023-04-28	08:45:00	46.4	39.3	39.6	43652	
8	2023-04-28	09:00:00	45.9	38.6	39.6	38905	188365
9	2023-04-28	09:15:00	45.9	40.2	39.7	38905	46.7
10	2023-04-28	09:30:00	47.0	39.7	39.7	50119	
11	2023-04-28	09:45:00	45.4	39.0	39.7	34674	
12	2023-04-28	10:00:00	45.8	39.5	39.8	38019	161716
13	2023-04-28	10:15:00	47.5	41.0	39.8	56234	46.1
14	2023-04-28	10:30:00	45.3	40.4	39.8	33884	
15	2023-04-28	10:45:00	48.3	42.7	39.9	67608	
16	2023-04-28	11:00:00	43.6	39.7	40.0	22909	180636
17	2023-04-28	11:15:00	45.2	39.4	40.0	33113	46.5
18	2023-04-28	11:30:00	46.3	40.1	40.1	42658	
19	2023-04-28	11:45:00	46.7	40.9	40.1	46774	
20	2023-04-28	12:00:00	46.9	41.2	40.2	48978	171522
21	2023-04-28	12:15:00	45.6	41.1	40.3	36308	46.3
22	2023-04-28	12:30:00	44.0	40.3	40.3	25119	
23	2023-04-28	12:45:00	49.7	41.1	40.3	93325	
24	2023-04-28	13:00:00	48.2	40.3	40.3	66069	220821
25	2023-04-28	13:15:00	43.7	40.0	40.3	23442	47.4
26	2023-04-28	13:30:00	43.6	39.9	40.4	22909	
27	2023-04-28	13:45:00	44.5	40.8	40.4	28184	
28	2023-04-28	14:00:00	45.5	40.6	40.5	35481	110016
29	2023-04-28	14:15:00	47.9	41.8	40.5	61660	44.4
30	2023-04-28	14:30:00	44.2	40.5	40.6	26303	
31	2023-04-28	14:45:00	46.9	40.3	40.8	48978	
32	2023-04-28	15:00:00	53.6	39.8	40.9	229087	366027
33	2023-04-28	15:15:00	44.8	39.0	41.0	30200	49.6
34	2023-04-28	15:30:00	45.8	40.4	41.0	38019	
35	2023-04-28	15:45:00	46.4	40.0	41.1	43652	
36	2023-04-28	16:00:00	46.7	39.6	41.1	46774	158644
37	2023-04-28	16:15:00	45.8	40.5	41.2	38019	46.0
38	2023-04-28	16:30:00	48.3	41.0	41.3	67608	
39	2023-04-28	16:45:00	44.6	40.3	41.8	28840	
40	2023-04-28	17:00:00	47.4	41.3	42.1	54954	189422
41	2023-04-28	17:15:00	48.3	42.1	42.7	67608	46.8
42	2023-04-28	17:30:00	49.9	43.2	43.2	97724	
43	2023-04-28	17:45:00	55.2	54.0	52.3	331131	
44	2023-04-28	18:00:00	54.1	52.3	54.0	257040	753503

2748200

Noise Assessment

Evening Period 6pm to 10pm
amenity criteria 45 dB(A) Suburban
Intrusiveness criteria (RBL+ 5) 43.3 dB(A)
Median LAeqEvening 18:00-22:00 47.8 dB(A)

Day	Date	L _{Aeq} (evening)	ABL	RBL
Wednesday Evening	19/04/2023	Nil	Nil	38.3
Thursday Evening	20/04/2023	Nil	Nil	
Friday Evening	21/04/2023	Nil	Nil	
Saturday Evening	22/04/2023	Nil	Nil	
Sunday Evening	23/04/2023	Nil	Nil	
Monday Evening	24/04/2023	Nil	Nil	
Tuesday Evening	25/04/2023	Nil	Nil	
Wednesday Evening	26/04/2023	Nil	Nil	
Thursday Evening	27/04/2023	45.9	37.8	
Friday Evening	28/04/2023	49.8	38.7	



item	Date	time	L _{Aeq} (15 minute)	L _{A90} (15minute)	L _{A90} (15min)	assending order	10^((L _{Aeq} (15 minute)/10))	period sums	hrly sums	hrly LAeq	
	2023-04-19	18:15:00	53.8	47.6		38.3					
	2023-04-19	18:30:00	46.6	41.8		38.4					
	2023-04-19	18:45:00	42.8	40.0		38.8					
	2023-04-19	19:00:00	41.8	39.6		39.0			0	#NUM!	
	2023-04-19	19:15:00	41.7	39.4		39.1					
	2023-04-19	19:30:00	43.0	40.0		39.2					
	2023-04-19	19:45:00	42.2	39.2		39.3					
	2023-04-19	20:00:00	42.3	39.4		39.4			0	#NUM!	
	2023-04-19	20:15:00	42.8	39.6		39.4					
	2023-04-19	20:30:00	43.2	40.4		39.6					
	2023-04-19	20:45:00	43.0	38.8		39.6					
	2023-04-19	21:00:00	42.4	38.4		40.0			0	#NUM!	
	2023-04-19	21:15:00	43.7	39.0		40.0					
	2023-04-19	21:30:00	40.4	38.3		40.4					
	2023-04-19	21:45:00	45.4	39.3		41.8					
	2023-04-19	22:00:00	41.9	39.1		47.6			0	#NUM!	
								0			
	2023-04-20	18:15:00	51.8	42.1		36.8					
	2023-04-20	18:30:00	43.1	40.5		37.6					
	2023-04-20	18:45:00	44.6	40.5		37.9					
	2023-04-20	19:00:00	43.3	40.2		38.5			0	#NUM!	
	2023-04-20	19:15:00	42.5	40.1		39.2					
	2023-04-20	19:30:00	42.8	39.5		39.3					
	2023-04-20	19:45:00	46.7	40.1		39.5					
	2023-04-20	20:00:00	49.3	40.8		40.0			0	#NUM!	
	2023-04-20	20:15:00	43.2	40.7		40.1					
	2023-04-20	20:30:00	43.2	40.0		40.1					
	2023-04-20	20:45:00	41.9	37.9		40.2					
	2023-04-20	21:00:00	42.4	39.2		40.5			0	#NUM!	
	2023-04-20	21:15:00	42.3	38.5		40.5					
	2023-04-20	21:30:00	41.2	37.6		40.7					
	2023-04-20	21:45:00	42.3	39.3		40.8					
	2023-04-20	22:00:00	40.6	36.8		42.1			0	#NUM!	
								0			
	2023-04-21	18:15:00	46.0	43.6		39.6					
	2023-04-21	18:30:00	45.3	42.6		39.7					
	2023-04-21	18:45:00	44.5	41.7		40.3					
	2023-04-21	19:00:00	44.4	41.4		40.4			0	#NUM!	

2023-04-21	19:15:00	43.5	41.0	40.5
2023-04-21	19:30:00	43.1	40.5	40.6
2023-04-21	19:45:00	42.6	40.6	40.8
2023-04-21	20:00:00	44.2	41.9	41.0
2023-04-21	20:15:00	43.9	41.7	41.3
2023-04-21	20:30:00	44.1	41.5	41.4
2023-04-21	20:45:00	43.9	40.8	41.5
2023-04-21	21:00:00	43.2	41.3	41.7
2023-04-21	21:15:00	43.8	40.3	41.7
2023-04-21	21:30:00	42.6	40.4	41.9
2023-04-21	21:45:00	42.2	39.7	42.6
2023-04-21	22:00:00	42.0	39.6	43.6

2023-04-22	18:15:00	55.0	49.6	35.8
2023-04-22	18:30:00	45.5	40.2	36.3
2023-04-22	18:45:00	44.4	40.3	36.6
2023-04-22	19:00:00	43.6	39.5	37.3
2023-04-22	19:15:00	42.0	39.7	37.4
2023-04-22	19:30:00	42.3	39.4	37.5
2023-04-22	19:45:00	41.6	38.6	38.4
2023-04-22	20:00:00	42.0	38.9	38.6
2023-04-22	20:15:00	41.0	38.4	38.6
2023-04-22	20:30:00	41.3	38.6	38.9
2023-04-22	20:45:00	41.6	37.4	39.4
2023-04-22	21:00:00	40.4	37.3	39.5
2023-04-22	21:15:00	40.8	37.5	39.7
2023-04-22	21:30:00	39.7	36.6	40.2
2023-04-22	21:45:00	39.6	36.3	40.3
2023-04-22	22:00:00	39.3	35.8	49.6

2023-04-23	18:15:00	53.2	49.0	37.4
2023-04-23	18:30:00	46.7	41.9	38.4
2023-04-23	18:45:00	43.5	41.1	38.9
2023-04-23	19:00:00	43.0	41.0	39.0
2023-04-23	19:15:00	42.4	40.2	39.0
2023-04-23	19:30:00	43.0	40.7	39.0
2023-04-23	19:45:00	43.3	39.7	39.3
2023-04-23	20:00:00	41.2	39.0	39.7
2023-04-23	20:15:00	40.8	37.4	39.7
2023-04-23	20:30:00	45.1	38.9	40.2
2023-04-23	20:45:00	42.3	40.2	40.2
2023-04-23	21:00:00	42.2	39.7	40.7
2023-04-23	21:15:00	41.6	39.0	41.0
2023-04-23	21:30:00	41.2	39.3	41.1
2023-04-23	21:45:00	41.1	38.4	41.9
2023-04-23	22:00:00	41.3	39.0	49.0

2023-04-24	18:15:00	50.7	44.1	39.8
2023-04-24	18:30:00	45.9	42.7	40.1
2023-04-24	18:45:00	45.8	42.3	40.3
2023-04-24	19:00:00	43.9	41.4	40.4
2023-04-24	19:15:00	44.4	42.1	40.7
2023-04-24	19:30:00	45.1	42.5	40.7
2023-04-24	19:45:00	44.7	42.2	41.0
2023-04-24	20:00:00	43.9	41.3	41.3
2023-04-24	20:15:00	43.2	40.7	41.3
2023-04-24	20:30:00	42.8	40.1	41.4
2023-04-24	20:45:00	43.3	41.3	42.1
2023-04-24	21:00:00	43.0	40.7	42.2

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2023-04-24	21:15:00	42.8	40.4	42.3
2023-04-24	21:30:00	43.1	41.0	42.5
2023-04-24	21:45:00	42.5	40.3	42.7
2023-04-24	22:00:00	41.7	39.8	44.1

2023-04-25	18:15:00	51.6	43.3	34.4
2023-04-25	18:30:00	43.7	41.6	37.7
2023-04-25	18:45:00	42.8	40.9	38.2
2023-04-25	19:00:00	43.1	41.3	38.5
2023-04-25	19:15:00	42.1	40.0	39.0
2023-04-25	19:30:00	42.1	40.4	39.1
2023-04-25	19:45:00	42.3	40.7	40.0
2023-04-25	20:00:00	42.5	40.8	40.2
2023-04-25	20:15:00	41.6	39.0	40.4
2023-04-25	20:30:00	42.3	40.2	40.7
2023-04-25	20:45:00	40.1	38.2	40.7
2023-04-25	21:00:00	40.4	37.7	40.8
2023-04-25	21:15:00	43.3	40.7	40.9
2023-04-25	21:30:00	40.7	39.1	41.3
2023-04-25	21:45:00	40.8	38.5	41.6
2023-04-25	22:00:00	38.3	34.4	43.3

2023-04-26	18:15:00	50.7	47.8	38.2
2023-04-26	18:30:00	48.1	39.0	38.2
2023-04-26	18:45:00	43.6	38.2	38.8
2023-04-26	19:00:00	41.2	38.8	38.8
2023-04-26	19:15:00	45.8	39.1	39.0
2023-04-26	19:30:00	42.4	38.2	39.1
2023-04-26	19:45:00	41.7	38.8	39.3
2023-04-26	20:00:00	41.8	39.3	39.9
2023-04-26	20:15:00	42.9	40.0	40.0
2023-04-26	20:30:00	42.7	40.2	40.1
2023-04-26	20:45:00	42.5	40.3	40.2
2023-04-26	21:00:00	42.7	39.9	40.3
2023-04-26	21:15:00	42.5	40.1	40.4
2023-04-26	21:30:00	44.1	41.0	40.9
2023-04-26	21:45:00	44.6	40.9	41.0
2023-04-26	22:00:00	42.9	40.4	47.8

1	2023-04-27	18:15:00	52.4	50.2	37.5	173780
2	2023-04-27	18:30:00	50.3	48.0	37.8	107152
3	2023-04-27	18:45:00	47.1	42.7	38.7	51286
4	2023-04-27	19:00:00	44.5	42.1	38.9	28184
5	2023-04-27	19:15:00	43.5	41.9	40.1	22387
6	2023-04-27	19:30:00	43.7	42.2	41.0	23442
7	2023-04-27	19:45:00	44.1	42.3	41.9	25704
8	2023-04-27	20:00:00	44.7	42.6	42.1	29512
9	2023-04-27	20:15:00	44.2	42.7	42.2	26303
10	2023-04-27	20:30:00	46.1	43.9	42.3	40738
11	2023-04-27	20:45:00	43.3	41.0	42.6	21380
12	2023-04-27	21:00:00	41.6	38.7	42.7	14454
13	2023-04-27	21:15:00	40.6	37.8	42.7	11482
14	2023-04-27	21:30:00	42.0	38.9	43.9	15849
15	2023-04-27	21:45:00	42.4	40.1	48.0	17378
16	2023-04-27	22:00:00	41.2	37.5	50.2	13183

1	2023-04-28	18:15:00	51.9	49.4	45.1	154882
2	2023-04-28	18:30:00	47.6	45.1	45.7	57544
3	2023-04-28	18:45:00	47.3	45.7	45.7	53703

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101046| 44.0 |

102875| 44.1 |

57891| 41.6 |

622213

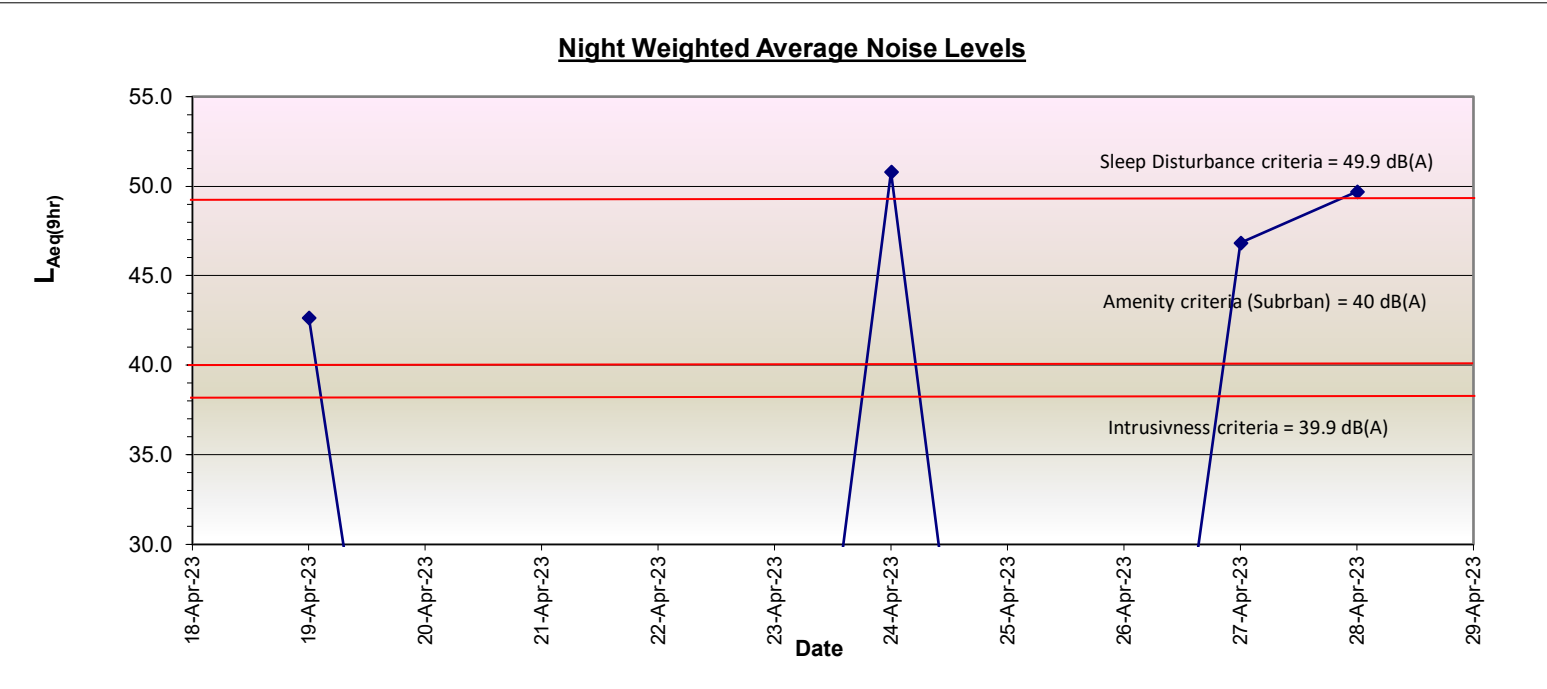
4	2023-04-28	19:00:00	49.6	45.7	45.8	91201	357330	49.5
5	2023-04-28	19:15:00	48.1	45.9	45.9	64565		
6	2023-04-28	19:30:00	47.8	45.8	47.8	60256		
7	2023-04-28	19:45:00	50.1	47.8	47.8	102329		
8	2023-04-28	20:00:00	49.9	47.8	47.9	97724	324874	49.1
9	2023-04-28	20:15:00	50.0	48.4	48.2	100000		
10	2023-04-28	20:30:00	50.9	49.4	48.2	123027		
11	2023-04-28	20:45:00	50.0	48.3	48.3	100000		
12	2023-04-28	21:00:00	50.1	48.3	48.3	102329	425356	50.3
13	2023-04-28	21:15:00	50.4	48.2	48.4	109648		
14	2023-04-28	21:30:00	50.3	48.2	48.6	107152		
15	2023-04-28	21:45:00	50.0	48.6	49.4	100000		
16	2023-04-28	22:00:00	49.8	47.9	49.4	95499	412299	50.1

1519860

Noise Assessment

Night Period 10pm to 7am
amenity criteria 40 dB(A) Suburban
Intrusiveness criteria (RBL+ 5) 39.9 dB(A)
Sleep Disturbance criteria (RBL+ 15) 49.9 dB(A)
Median LAeqNight 22:00-07:00 48.3 dB(A)

Night	Date	L _{aeq} (night)	ABL	RBL
Wednesday Night	19/04/2023	42.7	33.5	34.9
Thursday Night	20/04/2023	Nil	Nil	
Friday Night	21/04/2023	Nil	Nil	
Saturday Night	22/04/2023	Nil	Nil	
Sunday Night	23/04/2023	Nil	Nil	
Monday Night	24/04/2023	50.8	35.4	
Tuesday Night	25/04/2023	Nil	Nil	
Wednesday Night	26/04/2023	Nil	Nil	
Thursday Night	27/04/2023	46.8	34.4	
Friday Night	28/04/2023	49.7	46.6	



no.	date	time	L _{Aeq} (15 minute)	L _{A90} (15minute)	L _{A90} (15min)	assending order	10^((L _{Aeq} (15 minute)/10))	period sums	hrly sums	hrly Laeq	Sleep Disturbance events
	2023-04-19	22:15:00	40.4	37.7		32.4					0
	2023-04-19	22:30:00	40.2	37.8		32.4					0
	2023-04-19	22:45:00	41.5	38.2		33.0					0
	2023-04-19	23:00:00	40.2	37.2		33.1			0	#NUM!	0
	2023-04-19	23:15:00	40.6	36.0		33.5					0
1	2023-04-19	23:30:00	39.6	35.9		33.5	9120				0
2	2023-04-19	23:45:00	38.1	34.1		33.6	6457				0
3	2023-04-20	00:00:00	38.0	33.6		34.1	6310		21886	37.4	0
4	2023-04-20	00:15:00	37.6	32.4		34.3	5754				0
5	2023-04-20	00:30:00	37.1	32.4		34.4	5129				0
6	2023-04-20	00:45:00	37.4	33.1		35.2	5495				0
7	2023-04-20	01:00:00	37.0	33.0		35.5	5012		21390	37.3	0
8	2023-04-20	01:15:00	37.5	34.3		35.6	5623				0
9	2023-04-20	01:30:00	37.1	33.5		35.6	5129				0
10	2023-04-20	01:45:00	38.5	34.4		35.7	7079				0
11	2023-04-20	02:00:00	43.1	38.7		35.8	20417		38249	39.8	0
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25	2023-04-20	05:30:00	44.3	38.6		38.7	26915				0
26	2023-04-20	05:45:00	46.3	40.1		40.1	42658				0
27	2023-04-20	06:00:00	46.9	40.4		40.4	48978		133687	45.2	0
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4	2023-04-27	23:00:00	41.4	36.0	34.4	13804
5	2023-04-27	23:15:00	40.1	36.7	34.5	10233
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15	2023-04-28	01:45:00	39.1	34.5	35.5	8128
16	2023-04-28	02:00:00	40.9	35.5	35.5	12303
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31	2023-04-28	05:45:00	51.2	42.5	41.5	131826
32	2023-04-28	06:00:00	46.8	41.5	41.7	47863
33	2023-04-28	06:15:00	46.3	41.7	41.9	42658
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36	2023-04-28	07:00:00	46.9	41.3	48.4	48978

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