

Wednesday 18 October 2023

Ferndell Street Pty Ltd;  
The Issa Family Superannuation Fund; and  
The Issa No. 2 Family Superannuation Fund  
C/- Ghazi Al Ali Architect Pty Ltd  
Suite 21, 47-55 John Street  
LEICHHARDT NSW 2040

Our Reference 231423-02L-DD

**For the attention of Ms Sally Nguyen**

**DA Noise Assessment – Proposed Warehouse and Child Care  
Centre Development – 46-52 Ferndell Street, South Granville**

## 1.0 INTRODUCTION

At present, the subject site at 46-52 Ferndell Street, South Granville is occupied and operated by Trademaster, consisting of warehouse/manufacturing facilities, a show room and sales office for joinery and building supplies.

It is proposed to re-develop the site to provide warehouse units, ancillary offices for the warehouse units and a child care centre.

Acoustic Consulting Engineers Pty Ltd was commissioned by Ferndell Street Pty Ltd, The Issa Family Superannuation Fund and The Issa No. 2 Family Superannuation Fund to undertake a noise assessment for the proposed re-development to accompany the Development Application (DA).

This report provides the findings from the site inspection and assessment of potential environmental noise impact associated with the proposed re-development and road traffic noise intrusion into the proposed child care centre.

The findings from the noise assessment and recommendation are site specific and have been prepared for the particular investigation described in this report. The report should not be used in any other context or for any other purposes.

## 2.0 DESCRIPTION OF SITE AND PROPOSAL

*Figure 1* shows the location of the subject site and surrounding. The subject site is located within a commercial/industrial area and mainly surrounded by existing commercial/industrial developments.

There are residential receivers to the north-west and south-east. Residences to the north-west are well screened from the subject site by adjoining industrial development/buildings to the north and west.

**Figure 1**      *Location of Site and Surrounding*



The proposal is to re-develop the site to provide:

- small warehouse units on Ground Level and mezzanine ancillary offices on Level 1. A number of the warehouse unit will also be provided with ancillary offices on Level 2;
- a large warehouse unit with offices at the front of the site (Ferndell Street frontage) on Ground Level, Level 1 and Level 2; and
- a child care centre at the front of the site (Ferndell Street frontage) on Ground Level and Level 1

The small warehouse units will be provided with double garage doors for loading and unloading. Albeit, a loading/unloading bay for medium/large rigid truck is proposed at south-western corner of the site as needed for the small warehouse units from time to time. This loading bay would be shielded from residential receivers by surrounding industrial/commercial development.

A separate loading bay will be provided for the large warehouse unit (behind the warehouse unit), also shielded from the residences.

*Figures 2 to 4 show the site layouts/floor plans for the proposed development.*

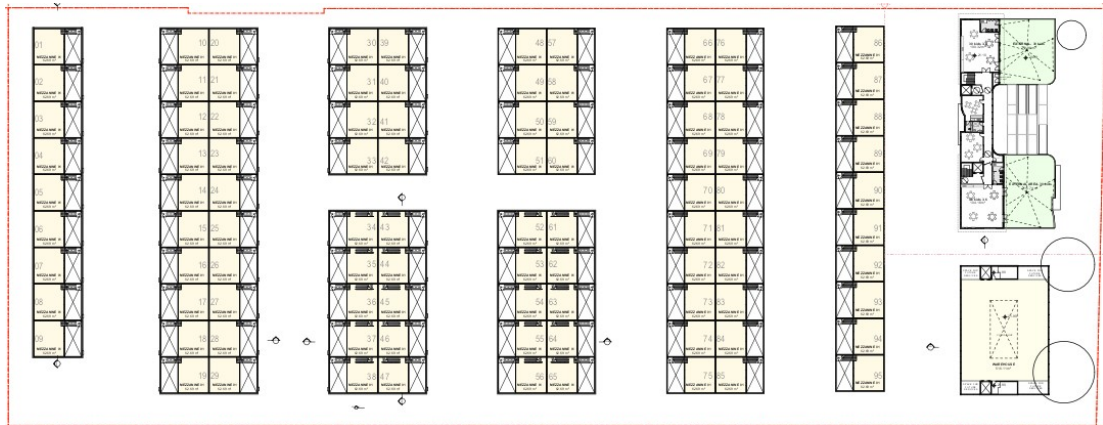
Residential receivers to the north-west and south-east are in the order of 90m and 150m from the nearest boundaries of the subject site respectively and are shielded by the existing surrounding industrial/commercial developments, particularly the residences to the north-west.

Proposed operational hours are from 6:00am to 6:00pm, Monday to Friday and 7:00am to 2:00pm on Saturday for the warehouse units and 7:00am to 6:30pm, Monday to Friday for the child care centre.

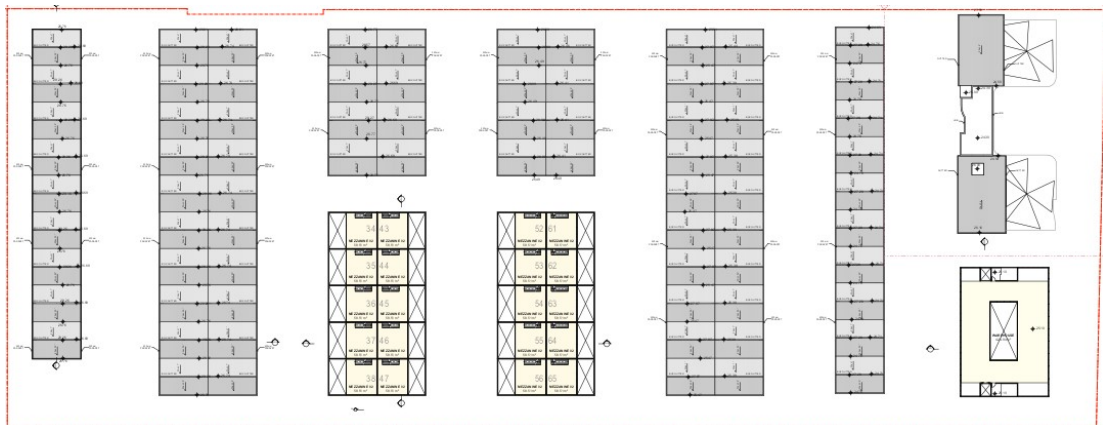
**Figure 2**      **Ground Level**



**Figure 3**      **Level 1**



**Figure 4**      **Level 2**



### 3.0 POTENTIAL ACOUSTIC ISSUES

Potential acoustic issues associated with the proposed re-development would be:

- noise from vehicle access to and from the site;
- air-conditioning outdoor condensers for the ancillary offices of the warehouse units and child care centre; and
- road traffic noise intrusion into the child care centre

Vehicles entering and leaving the site would be mainly passenger vehicles, utes and vans and loading/unloading would be undertaken inside the small warehouse units. However, due to the nature of warehouse activities, an electric forklift and a medium/large rigid truck in the designated loading bay at the rear of the site could be used from time to time. For the large warehouse unit, load/unloading of trucks will be more frequent. Due to acoustic shielding and relatively large distance separation, it is not expected that operational noise from the development would be audible at the residential receivers.

Mechanical plant associated with the proposed development would mainly be due to air-conditioning outdoor condensers for the ancillary offices and child care centre. Due to relatively large distance separation, noise from air-conditioning outdoor condensers would readily be controlled with appropriate equipment selection and siting.

Noise intrusion into the child care centre can readily be controlled by appropriate building construction systems and provision of acoustic barriers for the outdoor play areas.

### 4.0 NOISE ENVIRONMENT

#### 4.1 Background and Ambient Noise

Existing background and ambient noise environment representative of that at the residential receivers to the north-west and south-east was measured from Tuesday 8 August 2023 to Wednesday 16 August 2023. *Figure 1* shows the noise monitoring locations.

Measurement instrumentation consisted of Type 1 SVAN977 sound and vibration analysers and Type 1 ACO Pacific 7052E prepolarised condenser microphones. The instrumentation was checked before and after the measurements with a Type 1 SVAN SV30A acoustic calibrator and the drift in calibration was negligible.

As environmental noise varies with time and the human ear is not equally sensitive to noise at different frequencies, A-weighted statistical levels are used to describe environmental noise. The common parameters used to describe environmental noise are the  $L_{Amax}$ ,  $L_{A1}$ ,  $L_{A10}$ ,  $L_{A90}$  and  $L_{Aeq}$  levels measured over 15-minute intervals.



The  $L_{Amax}$  level is the maximum A-weighted sound pressure level over the sampling period. The  $L_{A1}$ ,  $L_{A10}$  and  $L_{A90}$  levels are the A-weighted sound pressure levels exceeded for 1%, 10% and 90% of the sampling periods respectively. The  $L_{A90}$  level is usually referred to as the background noise level. The  $L_{Aeq}$  level is the A-weighted continuous equivalent (energy average) sound pressure level over the sampling period.

The  $L_{A90}$  acoustic parameter of the noise monitoring result is used for the present noise assessment. Other acoustic parameters are provided for information only.

Appendices 1 and 2 provide graphical presentation of the measured statistical noise levels at 15-minute intervals. Table 1 presents the day/evening/night and night-time shoulder period (6:00am-7:00am)  $L_{A90}$  background noise levels.

**Table 1 Measured Existing Background Noise Environment, dB(A)**

Date	Measured Existing $L_{A90}$ Noise Environment, dB(A)			
	6am-7am	Day <sup>1</sup>	Evening <sup>2</sup>	Night <sup>3</sup>
<i>Location 1 – North-West (61 Dudley Road, Guildford) (rear site boundary)</i>				
Tuesday 8 August 2023			44.4	39.9
Wednesday 9 August 2023	45.7	44.2	43.1	40.5
Thursday 10 August 2023	48.0	46.1	43.2	39.0
Friday 11 August 2023	45.8	42.2	41.7	40.0
Saturday 12 August 2023	43.0	40.1	42.0	38.5
Sunday 13 August 2023	40.4	39.5	39.0	42.9
Monday 14 August 2023	42.6	43.2	42.7	40.1
Tuesday 15 August 2023	47.1	46.1	44.0	39.7
Wednesday 18 August 2023	45.4			
<b>Rating <math>L_{A90}</math> Background Level</b>	<b>46</b>	<b>43</b>	<b>43</b>	<b>40</b>
<i>Location 2 – South-East (35 Everley Road, South Granville) (front yard)</i>				
Tuesday 8 August 2023			47.5	38.3
Wednesday 9 August 2023	50.2	50.2	47.6	39.4
Thursday 10 August 2023	51.6	51.2	47.5	37.4
Friday 11 August 2023	49.6	49.4	48.2	38.6
Saturday 12 August 2023	46.4	47.0	46.5	37.4
Sunday 13 August 2023	39.9	42.9	44.1	43.1
Monday 14 August 2023	49.3	50.6	46.1	38.3
Tuesday 15 August 2023	50.8	50.3	48.2	39.0
Wednesday 18 August 2023	49.1			
<b>Rating <math>L_{A90}</math> Background Level</b>	<b>50</b>	<b>50</b>	<b>48</b>	<b>38</b>

Notes: 1. Day is from 7:00am-6:00pm, Monday to Saturday and 8:00am-6:00pm, Sunday  
2. Evening is from 6:00pm-10:00pm  
3. Night is from 10:00pm-7:00am, Monday to Saturday and 10:00pm-8:00am, Sunday

## 4.2 Road Traffic Noise

Existing road traffic noise exposure to the site was measured at approximately 12m from the eastern site boundary (refer to *Figure 1*) from Wednesday 16 August 2023 to Wednesday 23 August 2023. *Appendix 3* provides graphical presentation of the measured statistical noise levels at 15-minute intervals.

Observations during the site inspections confirmed that the noise environment was due to road traffic noise from Ferndell Street. However, trade vehicles entering, leaving and manoeuvring in the car-park associated with Trademaster's show room/sales office also contributed to the measured noise levels.

Short-term site attended noise measurements were also conducted on Wednesday 16 August 2023 at various distances, representing the nearest to furthest locations of the proposed child care centre's outdoor play areas to Ferndell Street.

At the nearest location of the proposed child care centre's outdoor play areas to Ferndell Street, peak-hour road traffic noise levels are 60-61dB(A)  $L_{Aeq,1hr}$ . At the furthest location of the proposed child care centre's outdoor play areas to Ferndell Street, peak-hour road traffic noise level is 59dB(A)  $L_{Aeq,1hr}$ .

From observation of the measurement results presented in *Appendix 2*, existing road traffic noise levels exposed to the residential receivers along Ferndell Street are higher than 60dB(A)  $L_{Aeq,1hr}$  during the peak morning and afternoon hours.

## 5.0 NOISE ASSESSMENT OBJECTIVES

### 5.1 Environmental Noise

#### 5.1.1 Steady Noise Sources

The EPA Noise Policy for Industry (NPfI) is used as a reference to assess environmental noise associated with steady/quasi-stationary noise sources from the proposed development.

The EPA:NPfI recommends that the:

- $L_{Aeq,15min}$  noise levels from a proposed development not to exceed the day/ evening/night rating background  $L_{A90}$  noise levels by more than 5dB(A) at the residential receivers; and
- $L_{Aeq,period}$  noise levels (period being entire day/evening/night) from a proposed development to be at least 5dB below the recommended amenity noise levels from existing and/or future industrial sources for the particular receiver areas.

As the intrusiveness and amenity noise levels are determined over different time intervals, the same numerical value does not necessarily represent the same amount of noise for different time periods.

To standardise the time periods for the intrusiveness and amenity noise levels, the NPfI assumes a default correction of +3dB to convert the  $L_{Aeq,period}$  to  $L_{Aeq,15min}$  noise level.

Table 2 provides the recommended  $L_{Aeq,15min}$  noise levels from the proposed development with operational hours from 6:00am to 6:00pm, established from the measured background noise levels presented in Table 1 and the EPA:NPfI guideline. The recommended amenity noise levels are based on an urban residential area.

The project noise trigger levels are the lower of the intrusive and amenity noise levels. That is, noise from the development will achieve with both the intrusive and amenity noise levels, provided that the project noise trigger levels are achieved.

**Table 2 Recommended  $L_{Aeq,15min}$  Noise Assessment Level, dB(A)**

Assessment Period	Recommended $L_{Aeq,15min}$ Noise Level		
	Intrusiveness Level	Amenity Level	Trigger Level
<i>Residential receivers to the north-west</i>			
Shoulder Period (6am-7am)	51	43	43
Day (7am-6pm)	48	58	48
<i>Residential receivers to the south-east</i>			
Shoulder Period (6am-7am)	55	43	43
Day (7am-6pm)	55	58	55

### 5.1.2 Maximum Noise Level

Operational hours from 6:00am – 7:00am is categorised as night-time operation. Accordingly, potential sleep disturbance needs to be assessed.

Both the  $L_{Aeq,15min}$  and  $L_{Amax}$  noise levels are to be considered for the assessment of potential sleep disturbance. However, the  $L_{Aeq,15min}$  noise levels, addressed in Section 5.1.1, will also address this component of potential sleep disturbance.

With reference to the EPA Noise Policy or Industry (NPfI), as a “screen test”, it is recommended maximum noise levels from site activities not to exceed the relevant night-time background levels by more than 15dB at the residential receivers.

From the measured shoulder night-time background noise levels presented in Table 1, as a “screen test” assessment, it is recommended that maximum noise levels from site activities not to exceed 61dB(A)  $L_{Amax}$  and 65dB(A)  $L_{Amax}$  at the residences to the north-west and south-east respectively.

### 5.1.3 Noise from Additional Traffic Generation

Ferndell Street serves the industrial area and would be classified as a sub-arterial road. With reference to the EPA Road Noise Policy (RNP), it is recommended that additional road traffic noise generated by the proposal not to exceed 60dB(A)  $L_{Aeq,15hr}$  during night-time and 55dB(A)  $L_{Aeq,9hr}$  during night-time.

Where these noise levels are already exceeded, additional road traffic noise generated by the proposal should not increase the existing road traffic noise levels by more than 2dB.

Noise from traffic generation by the proposed development, when averaged and assessed over the entire daytime and night-time periods, will be minimal. For conservative assessment, noise due to additional traffic generation is also assessed during the peak morning and afternoon hours.

With reference to *Appendix 2*, existing peak morning (7:00am – 9:00am) and afternoon (4:00pm – 6:00pm) traffic noise levels at the residential receivers along Ferndell Street already exceed 60dB(A)  $L_{Aeq,1hr}$ . It is recommended that additional road traffic noise generated by the proposed development not to increase the existing road traffic noise levels by more than 2dB during the peak-hours.

## 5.2 External Noise Intrusion into Child Care Centre

### 5.2.1 Indoor Road Traffic Noise Level

Sleeping areas/cot rooms are proposed behind the indoor play rooms, separating from Ferndell Street by the building envelop and internal building partitions. Accordingly, road traffic noise intrusion into sleeping areas/cot rooms will be minimal.

For indoor playrooms, it is recommended that that indoor peak-hour road traffic noise level not to exceed 40dB(A)  $L_{Aeq,1hr}$ .

### 5.2.2 External Road Traffic Noise Level

For outdoor children play areas, it is recommended that that peak-hour road traffic noise level not to exceed 55dB(A)  $L_{Aeq,1hr}$ .

## 6.0 NOISE CONTROL MEASURES

### 6.1 Warehouse Development

For the small warehouses, loading/unloading will mainly take place inside the warehouses. However, a loading bay for medium/large rigid truck will be provided at the rear of the subject site for use from time to time as would be expected for warehouse activities.



For the large warehouse, a separate loading bay will be provided behind the building. The loading bays will be shielded from the residential receivers.

Air-conditioning for ancillary offices and child care centre will be selected taking account of acoustic performance and located taking account of acoustic shielding provided by the buildings/structures.

## **6.2 Child Care Development**

It is recommended that façade glazing exposed to Ferndell Street be consisted of a minimum of 6mm float glass and acoustic rated seals be installed where required to control indoor noise levels.

For external road traffic noise levels exposed to the outdoor play areas, it is recommended that:

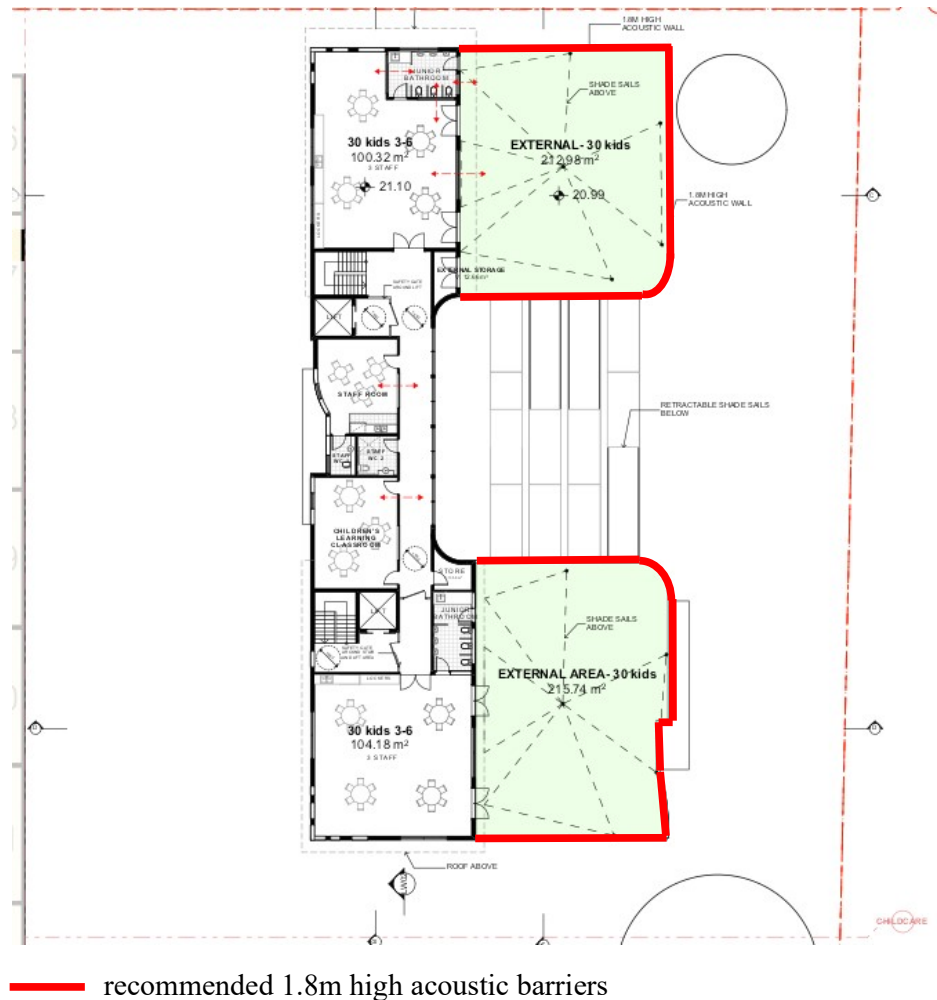
- 2.1m high acoustic barrier (*Figure 5*) be provided for the Ground Level outdoor play area;
- 1.8m high acoustic barriers (*Figure 6*) be provided for the Level 1 outdoor play areas;
- the height of the barriers shall be relative to the finished floor levels of the outdoor play areas;
- the barriers may be constructed of brick, masonry, safety glass or propriety modular wall panels achieving a weighted sound reduction index of not less  $R_w28$ ; and
- any gap between the barrier elements or between the bottom of the barriers and ground/floor shall be detailed/filled

**Figure 5 Recommended Barrier Height and Location (Ground Level)**



— recommended 2.1m high acoustic barrier

**Figure 6 Recommended Barrier Height and Location (Level 1)**



## 7.0 NOISE PREDICTION AND ASSESSMENT

### 7.1 Environmental Noise

#### 7.1.1 Steady Noise Sources

Operational noise will mainly be due to light vehicles (cars, utes, vans and medium vehicle) entering and leaving the site. Due to nature of warehouse activities, vehicular noise would be intermittent. From time to time, electric forklifts may be used to unload/load rigid trucks.

Assuming a rigid truck entering/leaving the subject site every fifteen (15) minutes and an electric forklift would be used for unloading/loading. It is expected that a vehicle manoeuvring and entering/leaving the site would be within one (1) minute and unloading/loading would be completed within 5-10 minutes.

Based on previous measurements, sound power levels of 105dB(A) ( $L_{Aeq}$ ) for a rigid truck manoeuvring and entering/leaving and 96dB(A) for a gas/electric forklift are adopted for assessment purposes.

Taking account of distance separation and acoustic screening provided by building structures and adjoining industrial/commercial buildings, the predicted operational noise levels are in the order of 30dB(A)  $L_{Aeq,15min}$  at the nearest and most affected residences to the north-east and 35dB(A)  $L_{Aeq,15min}$  at the nearest and most affected residences to the south-west. The predicted noise levels comply with the recommended noise assessment objectives in *Table 2*.

#### 7.1.2 Maximum Noise Level

The predicted maximum noise level is 35dB(A)  $L_{Amax}$  at the nearest and most affected residences to the north-east and complies with the recommended “screen test” noise assessment objective of 61dB(A)  $L_{Amax}$  for sleep disturbance.

The predicted maximum noise level is 45dB(A)  $L_{Amax}$  at the nearest and most affected residences to the south-west and complies with the recommended “screen test” noise assessment objective of 65dB(A)  $L_{Amax}$  for sleep disturbance.

#### 7.1.3 Noise from Additional Traffic Generation

With reference to the Traffic Impact Assessment Report prepared by PDC Consultants, forecast additional traffic generation by the proposed development are ninety-six (96) vehicle trips during the morning (7:00am-9:00am) and eighty-four (84) vehicle trips during the afternoon (4:00pm-6:00pm).

Based on posted traffic speed on Ferndell Street of 60km/hr and the residential receivers are in the order of 15m from the centre of Ferndell Street, the predicted road traffic noise level due to additional traffic generation is 54dB(A)  $L_{Aeq,peak-hour}$  at 1m from the residential building façade, below the existing peak morning and afternoon noise levels of 60dB(A)  $L_{Aeq,1hr}$  (or higher) and increase the existing peak-hour road traffic noise levels by less than 1dB.

## 7.2 External Noise Intrusion into Child Care Centre

#### 7.2.1 Indoor Road Traffic Noise

With the incorporation of a minimum of 6mm float glass and acoustic rated seals (where required) for the façade glazing exposed to Ferndell Street, indoor road traffic noise levels will be below the recommended level of 40dB(A)  $L_{Aeq,peak-hour}$  for the indoor playrooms.



### 7.2.2 External Road Traffic Noise for Outdoor Play Area

With the provision of acoustic barriers recommended in *Section 6.2*, road traffic noise levels will be below the recommended level of 55dB(A)  $L_{Aeq,peak-hour}$  for the outdoor play areas.

## 7.3 Environmental Noise from Mechanical Plant

As Development Approval has not been granted, mechanical plant has not been determined at this time. However, given the distance separation, shielding from the existing industrial/commercial development and with equipment selection based on acoustic performance and appropriate siting, noise from mechanical plant would readily be controlled.

## 8.0 CONCLUSION

The assessment has shown that the predicted amenity, intrusive and maximum operational noise levels from vehicles and loading/unloading activities will comply with the recommended noise assessment objectives at the nearest and most affected residential receivers to the north-east and south-west.

With appropriate glazing and provision of acoustic barriers, road traffic noise levels will comply with the indoor and outdoor assessment objectives for the proposed child care centre.

Noise from additional traffic generation will increase the existing road traffic noise levels by less than 1dB during the peak morning and afternoon hours and unlikely to be noticeable at the residential receivers along Ferndell Street.

With equipment selection based on acoustic performance and appropriate siting, noise from mechanical plant (air-conditioning for the ancillary offices) would readily be controlled.

It should be noted that, depending on the types of usages, the warehouse units may be subject to separate development applications.

We trust the information in this report is satisfactory. Please do not hesitate to contact our office should further information or clarification be required.

Yours sincerely,



Dan Dang  
Principal Acoustic Engineer  
**Acoustic Consulting Engineers Pty Ltd**

## **Appendix 1**

### **NOISE MEASUREMENT RESULTS**

(61 Dudley Road, Guilford)

**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

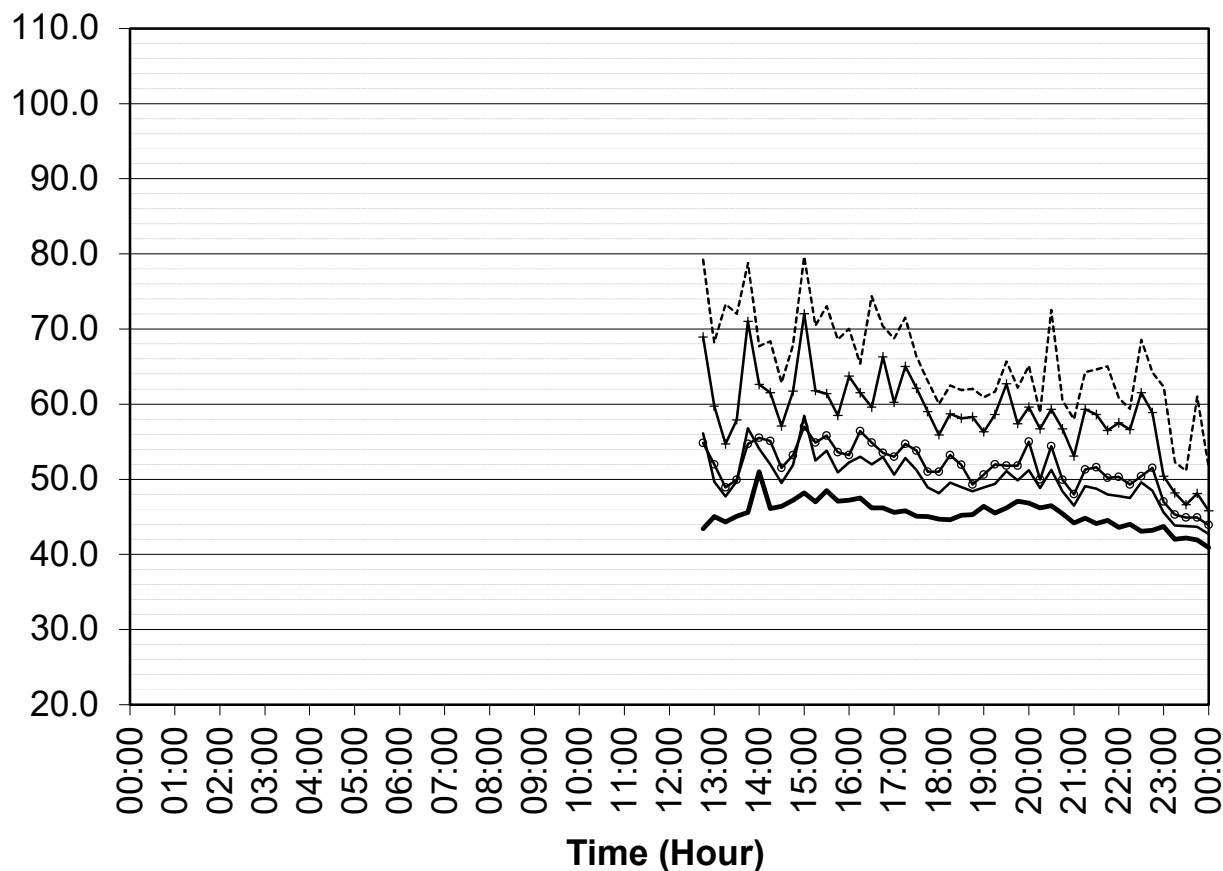
**Measurement Date** Tuesday, 8 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00				
01:00-02:00				
02:00-03:00				
03:00-04:00				
04:00-05:00				
05:00-06:00				
06:00-07:00				
07:00-08:00				
08:00-09:00				
09:00-10:00				
10:00-11:00				
11:00-12:00				
12:00-13:00				
13:00-14:00	53.5	61.6	52.3	44.5
14:00-15:00	54.4	63.1	54.2	46.2
15:00-16:00	52.5	61.4	54.4	47.0
16:00-17:00	52.2	61.9	54.5	45.8
17:00-18:00	50.7	60.5	52.6	44.8
18:00-19:00	49.0	57.9	51.3	44.8
19:00-20:00	50.4	59.6	52.7	45.7
20:00-21:00	49.1	56.5	50.6	44.6
21:00-22:00	48.4	58.0	50.9	43.8
22:00-23:00	48.0	56.9	49.6	43.1
23:00-24:00	43.5	47.2	44.8	41.2
Day				
Evening	49.3	57.9	51.4	44.4
Night	46.1	50.3	46.2	39.9
$L_{Aeq,15hr}$				
$L_{Aeq,9hr}$		46.1		
$L_{Aeq,24hr}$				

Sound Pressure Level, dB(A)



-----Lmax    +---LA01    o---LA10    —LA90    —LAeq

**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

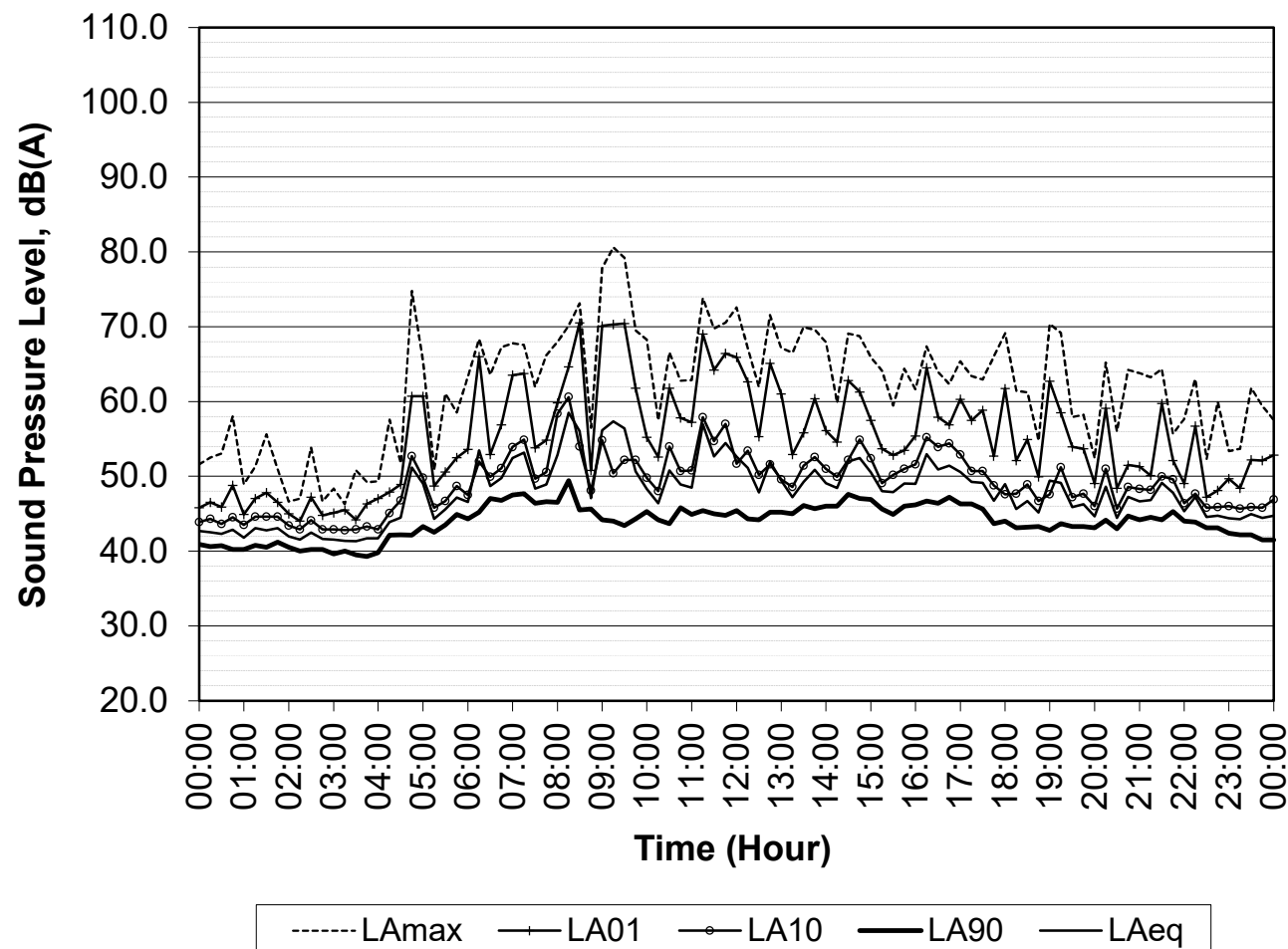
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Wednesday, 9 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	42.4	46.5	44.0	40.2
01:00-02:00	42.7	46.6	44.3	40.5
02:00-03:00	41.8	45.3	43.2	39.7
03:00-04:00	41.5	45.8	43.0	39.4
04:00-05:00	48.2	54.6	48.6	42.1
05:00-06:00	46.0	51.4	47.2	42.8
06:00-07:00	51.5	59.8	51.7	45.7
07:00-08:00	51.4	58.0	53.4	46.4
08:00-09:00	56.0	64.0	54.4	44.6
09:00-10:00	54.6	64.4	51.2	43.6
10:00-11:00	48.9	57.4	50.9	43.9
11:00-12:00	54.6	66.4	55.3	44.9
12:00-13:00	50.3	61.0	51.2	44.2
13:00-14:00	49.3	56.3	50.9	45.2
14:00-15:00	51.1	59.1	52.4	46.3
15:00-16:00	48.5	53.9	50.5	45.1
16:00-17:00	51.6	59.9	54.1	46.3
17:00-18:00	48.6	57.7	49.5	43.8
18:00-19:00	47.1	54.9	47.7	42.9
19:00-20:00	46.8	53.8	48.0	43.2
20:00-21:00	47.0	52.6	48.4	43.3
21:00-22:00	47.5	52.7	48.6	44.1
22:00-23:00	45.4	50.4	46.4	42.6
23:00-24:00	44.6	51.4	46.1	41.5
Day	52.2	59.9	52.3	44.2
Evening	47.3	54.3	48.3	43.1
Night	46.3	50.0	46.1	40.5
$L_{Aeq,15hr}$	51.3			
$L_{Aeq,9hr}$	46.3			
$L_{Aeq,24hr}$	50.1			





**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

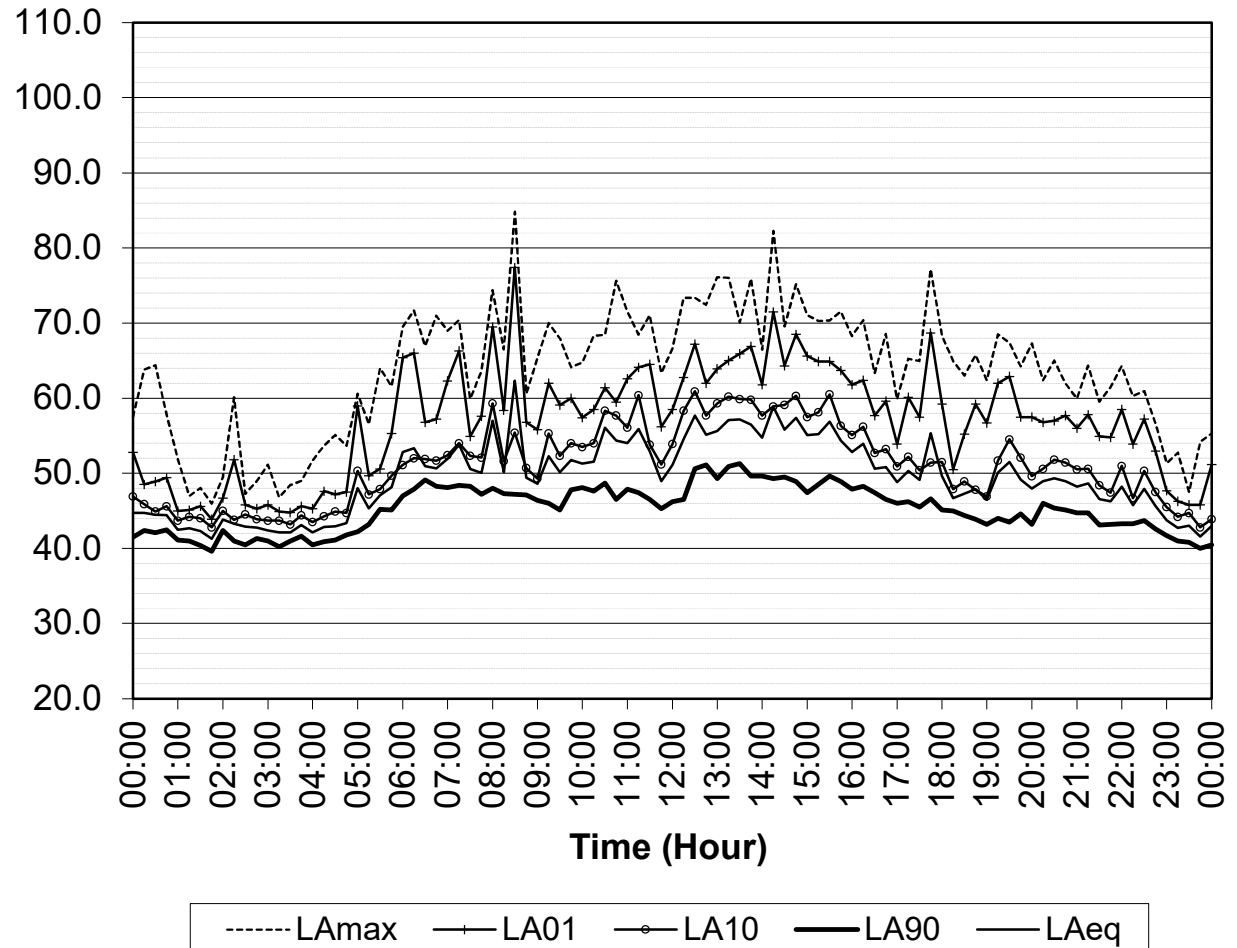
**Measurement Date** Thursday, 10 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	44.1	48.0	45.0	41.4
01:00-02:00	42.6	45.3	44.0	39.8
02:00-03:00	42.8	47.2	44.0	40.7
03:00-04:00	42.4	45.2	43.7	40.3
04:00-05:00	44.9	50.3	46.1	41.0
05:00-06:00	49.3	55.3	49.0	43.8
06:00-07:00	51.8	60.6	52.0	48.0
07:00-08:00	53.8	62.1	54.4	47.4
08:00-09:00	56.9	62.1	51.8	46.6
09:00-10:00	51.4	59.6	53.8	45.4
10:00-11:00	54.3	60.5	56.5	46.8
11:00-12:00	53.0	60.8	54.8	45.6
12:00-13:00	55.9	64.0	59.1	47.3
13:00-14:00	56.5	64.9	59.4	49.6
14:00-15:00	57.0	67.5	59.0	47.9
15:00-16:00	55.0	63.8	57.5	48.1
16:00-17:00	51.5	58.4	53.3	46.2
17:00-18:00	51.9	61.4	51.4	45.2
18:00-19:00	47.1	55.4	47.9	43.4
19:00-20:00	49.9	60.0	52.0	43.3
20:00-21:00	48.9	56.9	51.1	44.8
21:00-22:00	47.6	56.5	49.4	43.1
22:00-23:00	46.0	53.0	47.5	42.0
23:00-24:00	42.6	47.3	43.9	40.2
Day	54.8	62.4	55.6	46.1
Evening	48.6	57.2	50.1	43.2
Night	47.8	51.1	46.1	39.0
$L_{Aeq,15hr}$	53.8			
$L_{Aeq,9hr}$	47.8			
$L_{Aeq,24hr}$	52.4			

Sound Pressure Level, dB(A)



**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

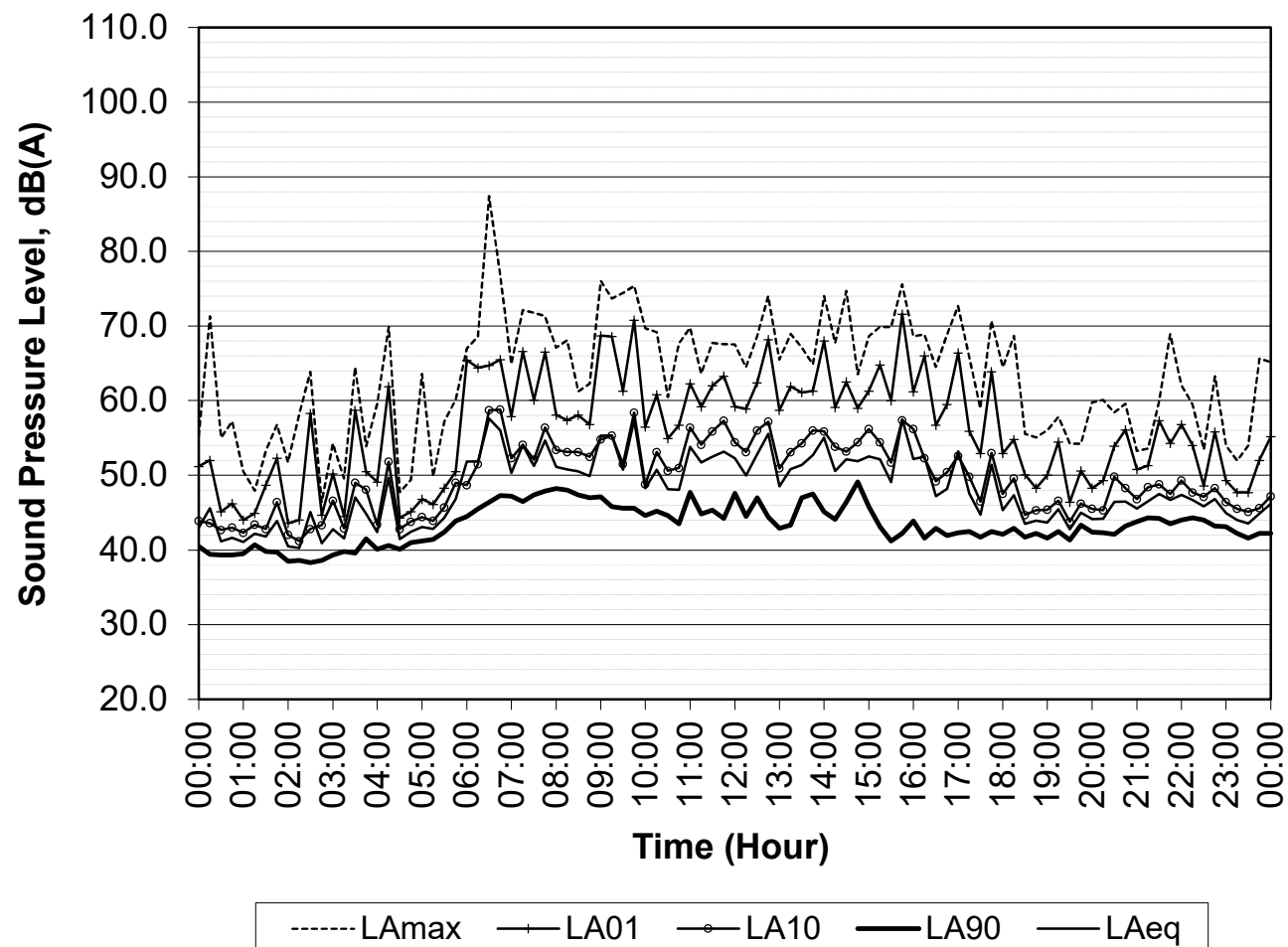
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Friday, 11 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	42.8	46.8	42.9	39.3
01:00-02:00	42.2	47.4	43.7	38.9
02:00-03:00	42.7	49.3	43.5	38.4
03:00-04:00	44.5	50.7	45.9	39.7
04:00-05:00	45.6	49.5	45.7	40.3
05:00-06:00	47.9	52.6	46.8	41.7
06:00-07:00	54.9	63.1	55.3	45.8
07:00-08:00	53.1	62.8	54.0	46.8
08:00-09:00	52.2	60.3	53.4	47.0
09:00-10:00	54.3	64.3	53.5	44.9
10:00-11:00	50.9	58.7	52.8	43.8
11:00-12:00	52.5	60.9	55.4	44.4
12:00-13:00	52.6	62.1	54.3	43.4
13:00-14:00	52.8	63.1	54.8	43.8
14:00-15:00	51.8	60.5	54.4	44.6
15:00-16:00	53.9	64.4	54.9	41.5
16:00-17:00	51.0	62.2	51.1	41.7
17:00-18:00	48.1	56.4	49.2	41.8
18:00-19:00	44.9	50.8	46.3	41.6
19:00-20:00	44.5	50.0	45.5	41.6
20:00-21:00	45.8	52.5	47.6	42.2
21:00-22:00	47.0	54.9	48.5	43.7
22:00-23:00	46.1	51.9	47.4	43.1
23:00-24:00	44.8	50.7	45.9	41.8
Day	52.4	61.5	53.6	42.2
Evening	45.5	51.8	46.8	41.7
Night	44.2	48.6	45.1	40.0
$L_{Aeq,15hr}$	51.4			
$L_{Aeq,9hr}$	44.2			
$L_{Aeq,24hr}$	50.5			



**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

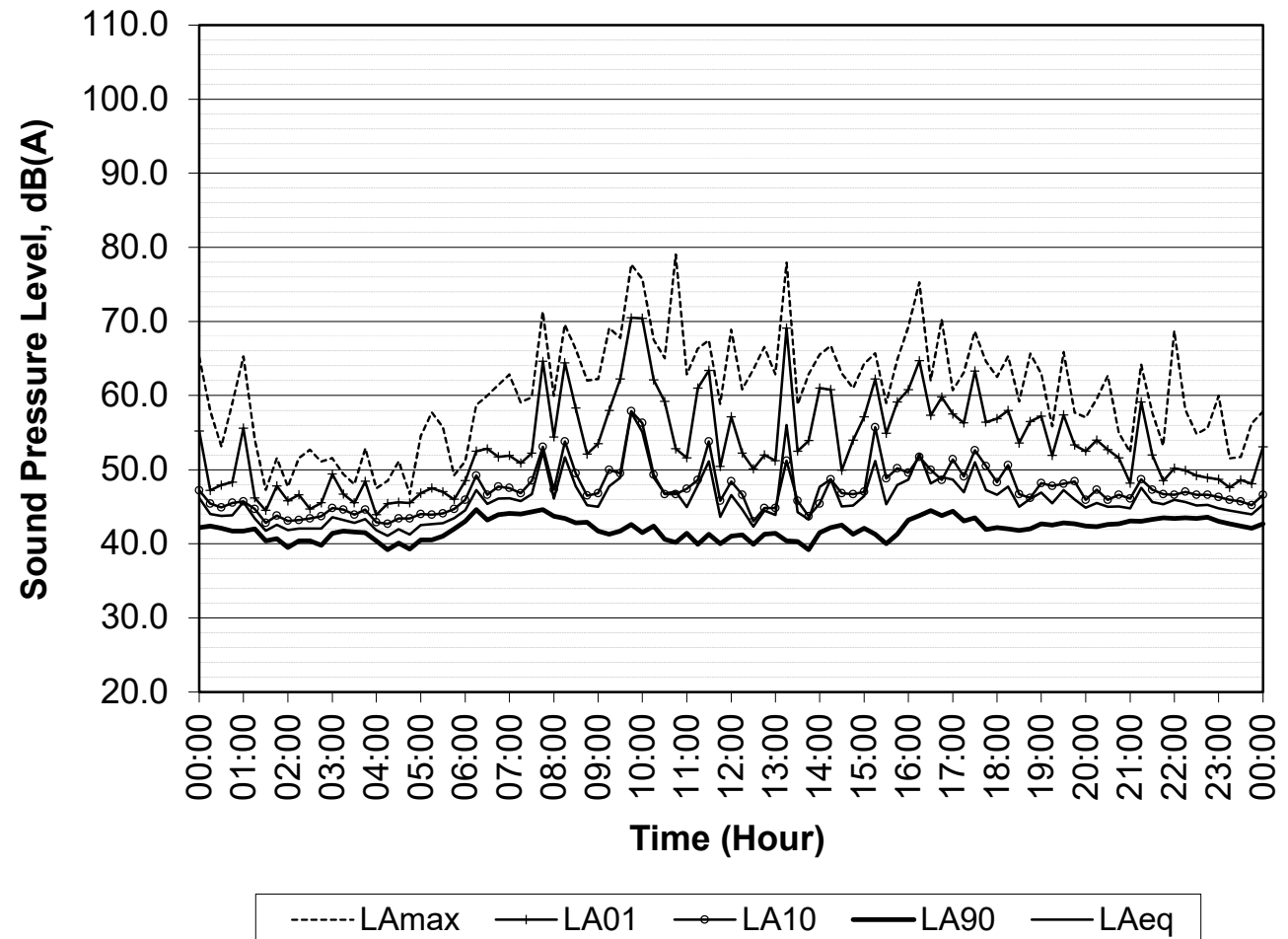
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Saturday, 12 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	44.4	49.8	45.4	41.7
01:00-02:00	42.4	46.1	43.6	39.8
02:00-03:00	42.5	46.6	43.8	40.0
03:00-04:00	42.8	46.1	44.0	40.7
04:00-05:00	41.7	45.8	43.4	39.2
05:00-06:00	43.4	47.3	44.7	40.7
06:00-07:00	46.3	52.2	47.8	43.4
07:00-08:00	48.7	55.5	48.9	43.8
08:00-09:00	48.3	57.1	49.2	42.0
09:00-10:00	54.2	65.3	53.4	41.4
10:00-11:00	47.2	56.4	47.5	40.3
11:00-12:00	48.1	58.0	49.2	39.9
12:00-13:00	43.9	51.4	44.8	40.3
13:00-14:00	51.0	59.1	46.5	39.5
14:00-15:00	46.6	55.5	47.3	41.5
15:00-16:00	48.7	59.3	51.1	40.4
16:00-17:00	49.8	59.8	50.4	43.8
17:00-18:00	48.4	58.2	50.1	42.0
18:00-19:00	46.5	56.3	47.9	41.9
19:00-20:00	46.0	53.8	47.6	42.4
20:00-21:00	45.1	51.6	46.5	42.4
21:00-22:00	46.2	52.5	47.3	43.1
22:00-23:00	45.2	49.2	46.6	43.1
23:00-24:00	44.5	49.4	45.9	42.2
Day	49.4	57.7	48.9	40.1
Evening	46.0	54.0	47.4	42.0
Night	45.6	49.4	44.7	38.5
$L_{Aeq,15hr}$	48.7			
$L_{Aeq,9hr}$	45.6			
$L_{Aeq,24hr}$	47.6			



**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

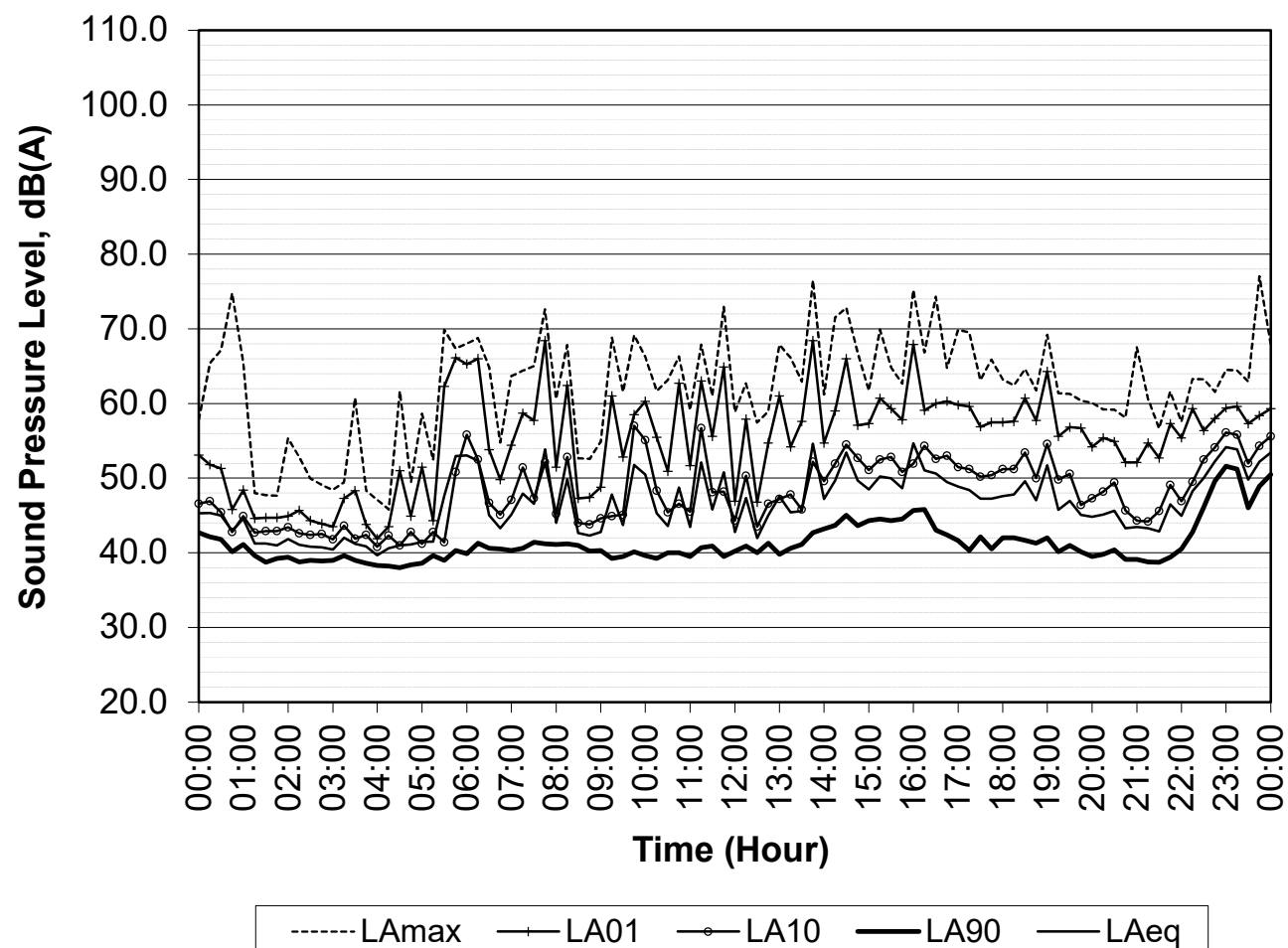
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Sunday, 13 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	44.5	49.3	45.0	40.4
01:00-02:00	41.3	44.7	43.0	38.9
02:00-03:00	40.8	44.4	42.3	38.8
03:00-04:00	41.0	45.3	42.2	38.4
04:00-05:00	41.0	47.7	41.8	38.1
05:00-06:00	50.7	59.5	47.7	39.2
06:00-07:00	48.1	56.0	47.9	40.4
07:00-08:00	49.7	59.1	49.0	40.8
08:00-09:00	45.8	51.5	46.3	40.2
09:00-10:00	49.4	58.2	50.5	39.3
10:00-11:00	45.8	55.2	46.5	39.3
11:00-12:00	49.3	57.6	49.3	39.7
12:00-13:00	46.0	55.1	46.9	39.9
13:00-14:00	50.1	58.7	48.9	40.8
14:00-15:00	50.8	59.9	52.6	43.6
15:00-16:00	51.5	61.4	52.0	44.4
16:00-17:00	50.1	59.8	52.9	41.8
17:00-18:00	47.7	57.9	50.8	40.4
18:00-19:00	49.4	60.1	52.3	41.4
19:00-20:00	45.7	55.8	48.5	39.7
20:00-21:00	44.5	53.6	46.9	39.1
21:00-22:00	44.6	55.0	46.5	38.7
22:00-23:00	51.7	58.3	53.1	43.8
23:00-24:00	52.6	58.7	54.4	46.9
Day	49.1	57.4	49.5	39.5
Evening	46.7	56.3	48.8	39.0
Night	53.1	58.4	53.5	42.9
$L_{Aeq,15hr}$	48.6			
$L_{Aeq,9hr}$	53.1			
$L_{Aeq,24hr}$	48.0			





**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

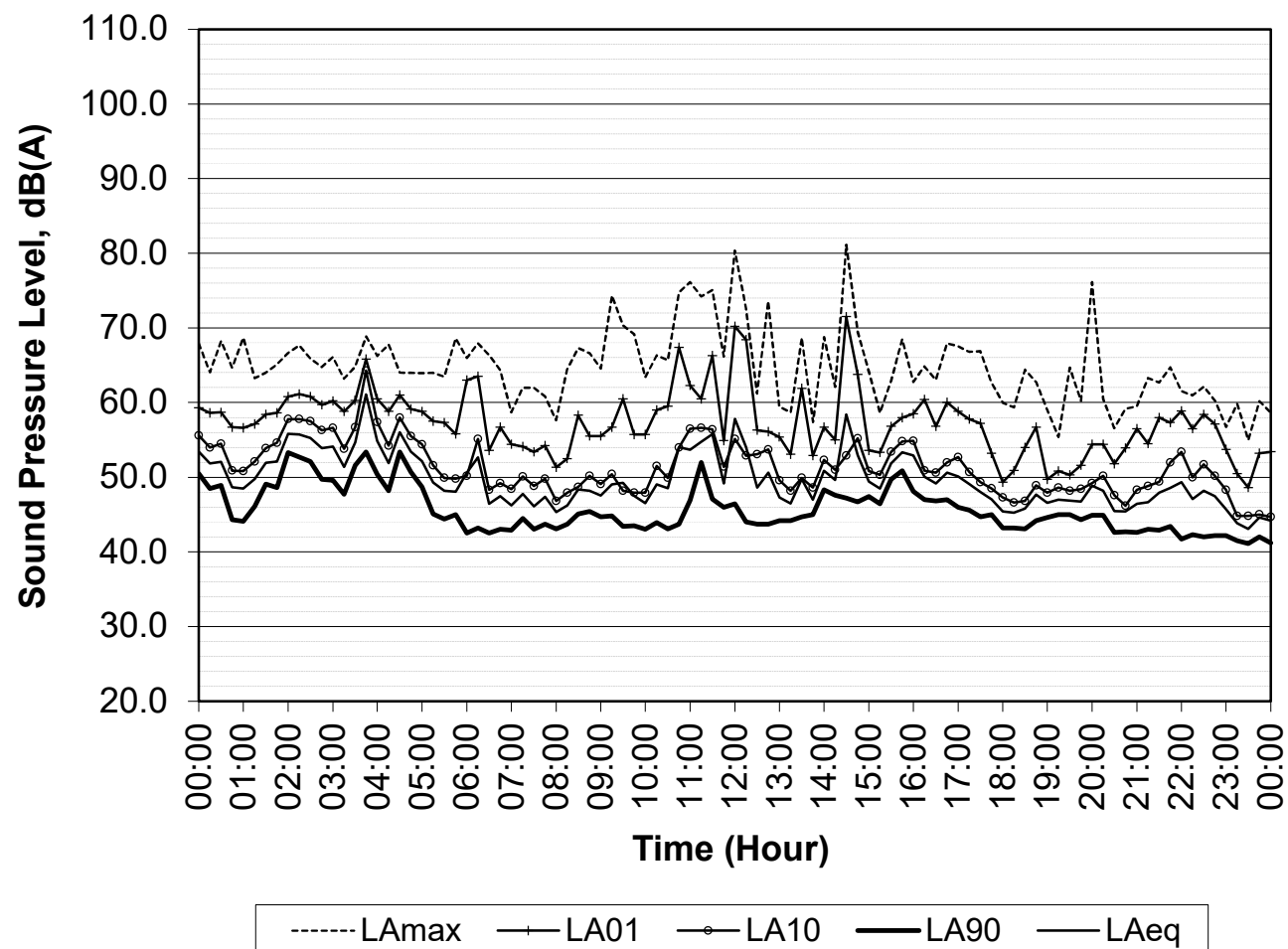
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Monday, 14 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	50.6	57.7	52.6	44.2
01:00-02:00	53.0	58.7	54.6	46.9
02:00-03:00	54.8	60.5	57.1	49.6
03:00-04:00	57.0	61.4	58.1	48.5
04:00-05:00	53.7	59.4	55.5	48.4
05:00-06:00	49.2	58.4	50.4	43.1
06:00-07:00	49.1	57.1	50.3	42.6
07:00-08:00	46.7	53.3	48.9	43.0
08:00-09:00	47.7	55.5	49.0	44.0
09:00-10:00	48.2	57.2	48.6	43.1
10:00-11:00	52.0	62.1	53.0	43.3
11:00-12:00	55.3	63.0	54.9	46.1
12:00-13:00	50.9	59.1	52.3	43.7
13:00-14:00	48.9	56.2	49.8	44.4
14:00-15:00	54.3	61.0	52.5	46.9
15:00-16:00	52.0	56.7	53.4	46.9
16:00-17:00	50.0	59.0	51.6	46.2
17:00-18:00	47.6	54.4	49.0	43.7
18:00-19:00	46.4	52.8	47.6	43.1
19:00-20:00	47.5	51.8	48.6	44.5
20:00-21:00	46.5	54.2	48.1	42.6
21:00-22:00	48.2	57.2	50.9	42.1
22:00-23:00	47.2	56.4	50.1	42.1
23:00-24:00	44.0	51.4	44.8	41.1
Day	51.2	58.0	51.2	43.2
Evening	47.0	53.4	48.4	42.7
Night	47.7	51.0	46.9	40.1
$L_{Aeq,15hr}$	50.4			
$L_{Aeq,9hr}$	47.7			
$L_{Aeq,24hr}$	51.5			



**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

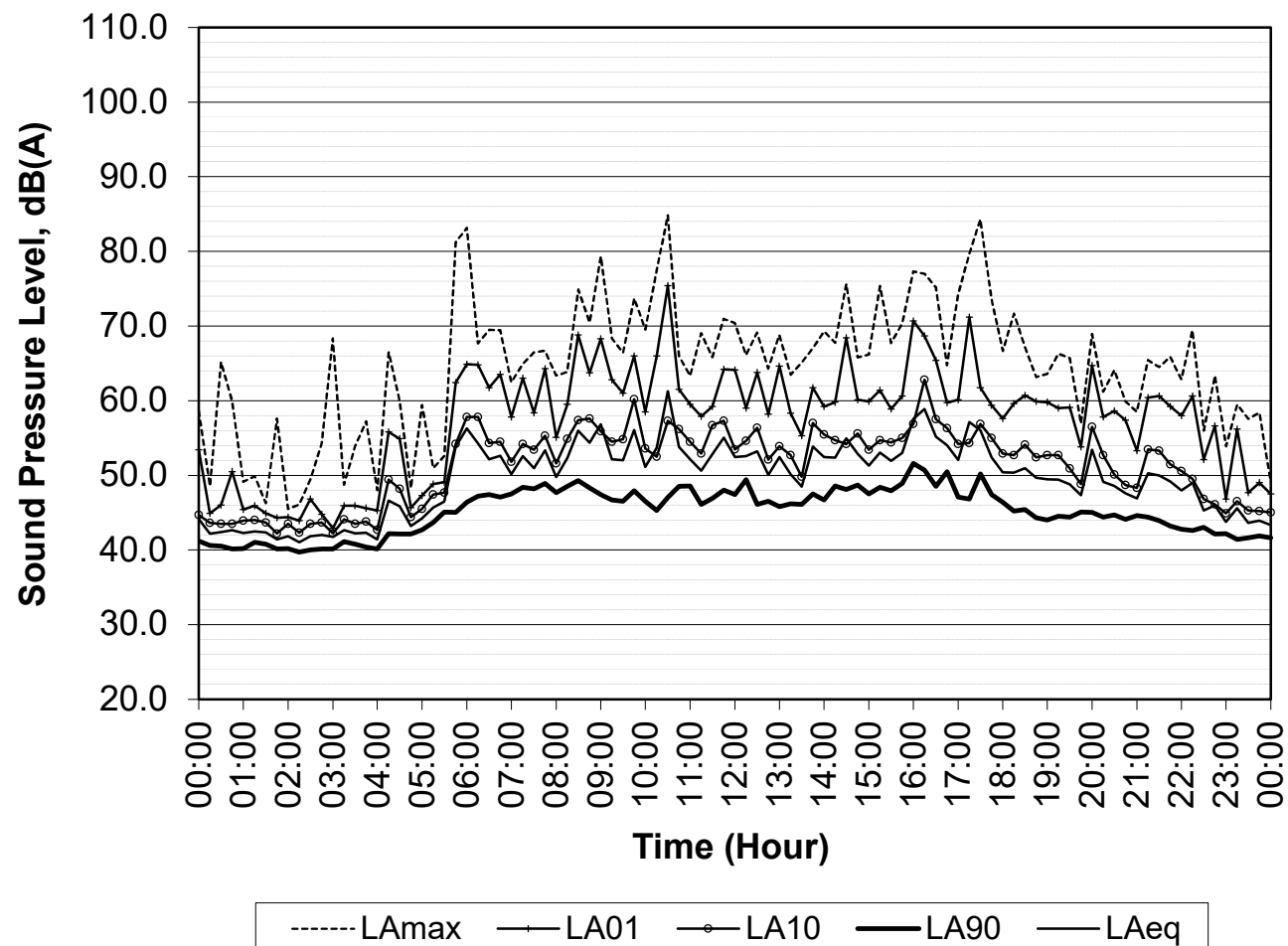
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Tuesday, 15 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	42.4	46.7	43.6	40.1
01:00-02:00	42.0	44.9	43.4	40.1
02:00-03:00	41.7	44.6	42.9	39.8
03:00-04:00	42.2	45.7	43.5	40.2
04:00-05:00	45.2	50.9	46.9	42.1
05:00-06:00	52.7	56.3	51.8	44.1
06:00-07:00	52.5	62.0	54.6	47.1
07:00-08:00	51.9	60.2	53.6	47.9
08:00-09:00	55.2	65.1	56.5	47.7
09:00-10:00	53.3	62.1	55.8	46.5
10:00-11:00	56.9	65.6	55.1	45.8
11:00-12:00	53.0	61.4	55.1	46.3
12:00-13:00	52.2	61.4	54.3	45.9
13:00-14:00	51.7	58.6	53.8	46.1
14:00-15:00	53.1	62.1	54.5	47.7
15:00-16:00	54.5	62.9	55.3	48.1
16:00-17:00	55.8	63.5	57.7	47.5
17:00-18:00	54.8	62.5	54.8	46.5
18:00-19:00	50.1	60.0	53.0	44.1
19:00-20:00	50.4	59.2	52.2	44.4
20:00-21:00	48.1	56.8	50.0	44.2
21:00-22:00	49.4	59.6	52.2	42.9
22:00-23:00	46.4	54.0	46.8	42.1
23:00-24:00	44.2	50.1	45.5	41.5
Day	54.2	62.3	55.1	46.1
Evening	49.7	58.8	52.0	44.0
Night	45.1	49.5	45.4	39.7
$L_{Aeq,15hr}$	53.4			
$L_{Aeq,9hr}$	45.1			
$L_{Aeq,24hr}$	52.1			



**Measurement Location** Campbell Hill Pioneer Reserve  
Boundary with the rear of 61 Dudley Road, Guildford

**Project Title**

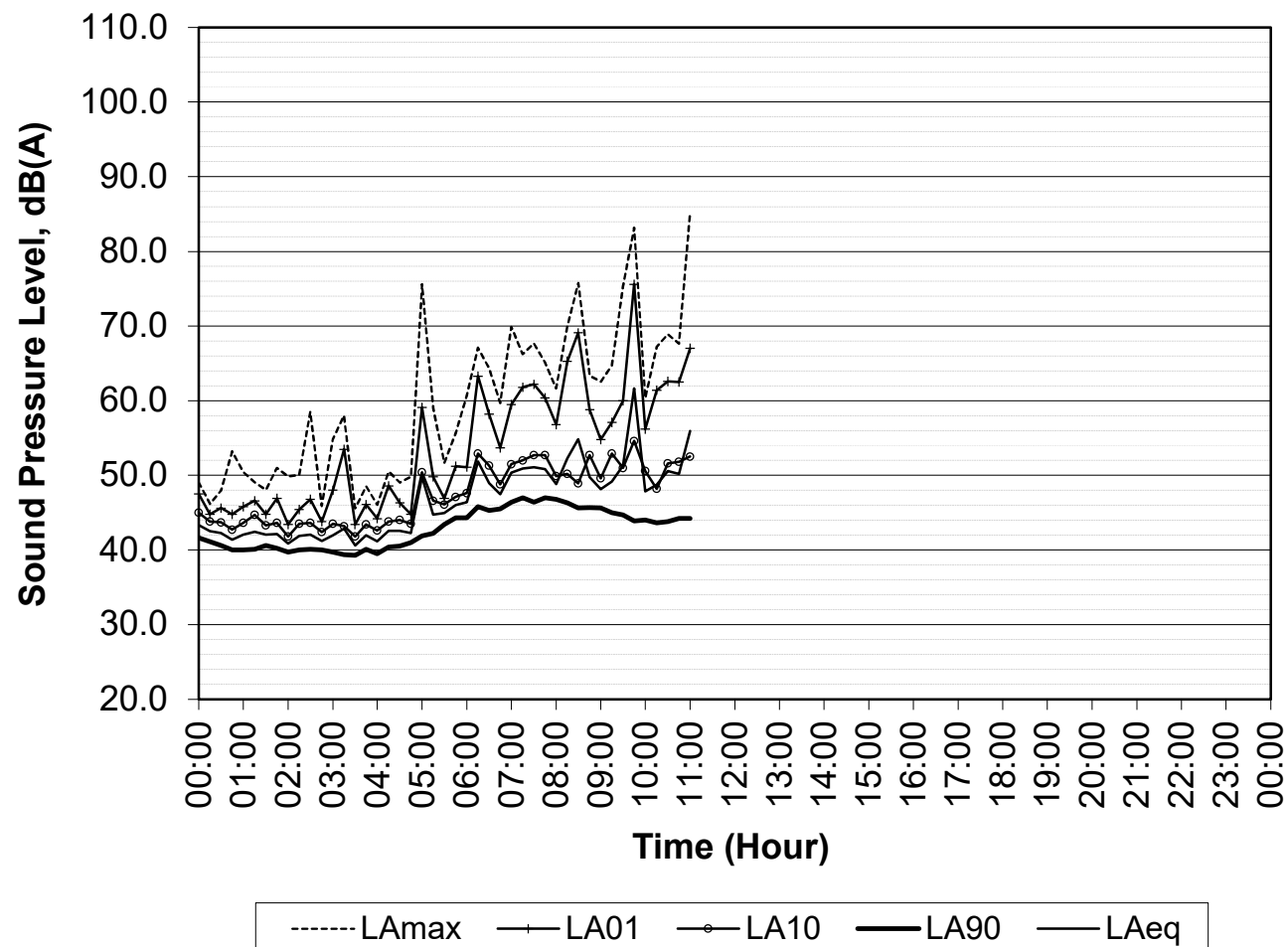
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Wednesday, 16 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	42.1	45.3	43.5	40.0
01:00-02:00	41.9	45.4	43.4	39.8
02:00-03:00	41.8	46.0	43.3	39.8
03:00-04:00	41.7	46.8	42.8	39.3
04:00-05:00	45.7	49.7	45.4	40.4
05:00-06:00	45.6	49.8	46.9	42.6
06:00-07:00	50.0	58.7	51.1	45.4
07:00-08:00	50.5	60.3	51.8	46.5
08:00-09:00	52.0	62.0	50.4	45.6
09:00-10:00	56.4	62.2	52.3	43.9
10:00-11:00	52.3	63.4	51.0	43.7
11:00-12:00				
12:00-13:00				
13:00-14:00				
14:00-15:00				
15:00-16:00				
16:00-17:00				
17:00-18:00				
18:00-19:00				
19:00-20:00				
20:00-21:00				
21:00-22:00				
22:00-23:00				
23:00-24:00				
Day				
Evening				
Night				
$L_{Aeq,15hr}$				
$L_{Aeq,9hr}$				
$L_{Aeq,24hr}$				



## **Appendix 2**

### **NOISE MEASUREMENT RESULTS**

(35 Everley Road, South Granville)

**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

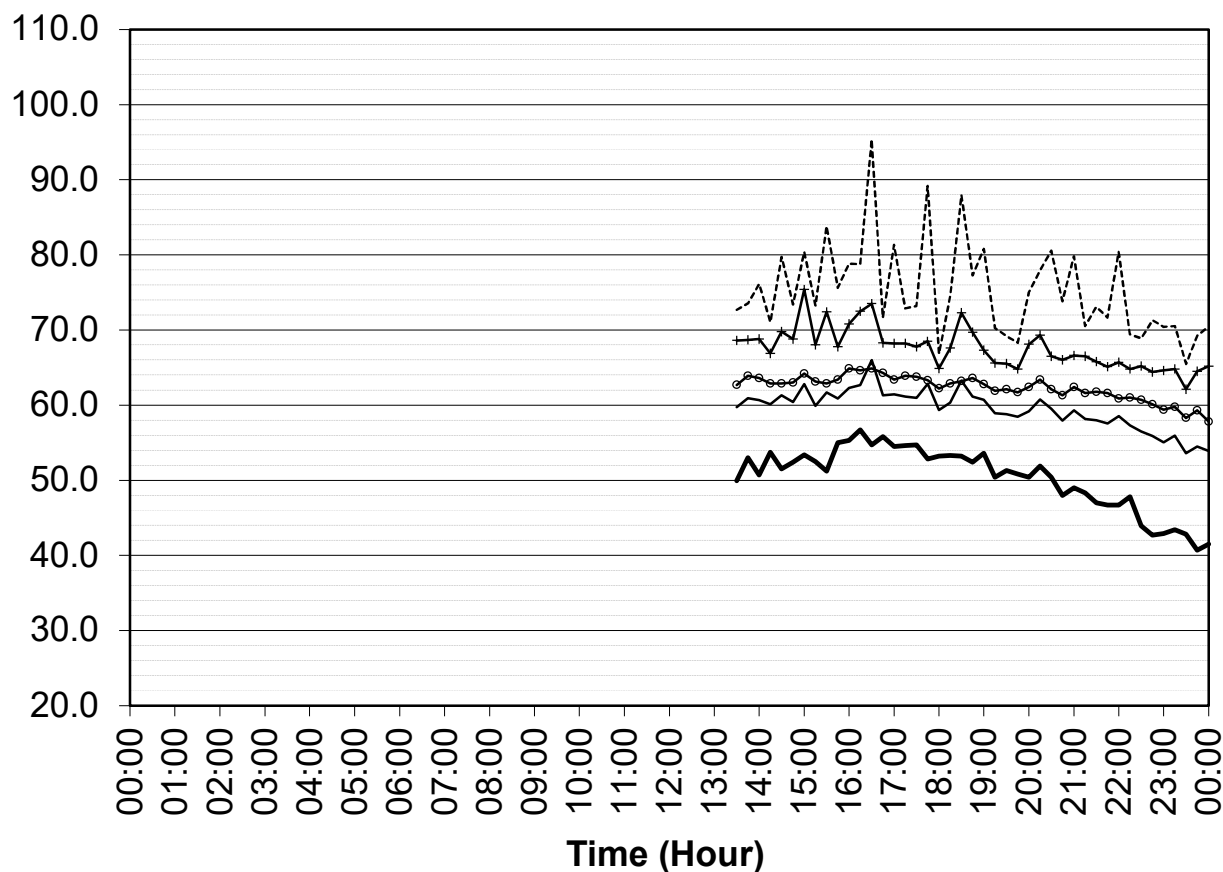
**Measurement Date** Tuesday, 8 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00				
01:00-02:00				
02:00-03:00				
03:00-04:00				
04:00-05:00				
05:00-06:00				
06:00-07:00				
07:00-08:00				
08:00-09:00				
09:00-10:00				
10:00-11:00				
11:00-12:00				
12:00-13:00				
13:00-14:00				
14:00-15:00	61.3	70.2	63.3	51.8
15:00-16:00	61.3	69.8	63.6	51.6
16:00-17:00	63.3	70.6	64.3	54.6
17:00-18:00	61.2	67.4	63.3	52.9
18:00-19:00	61.5	69.2	63.1	52.6
19:00-20:00	58.8	66.0	62.0	50.4
20:00-21:00	59.5	67.1	62.3	48.3
21:00-22:00	58.1	65.8	61.5	46.7
22:00-23:00	56.3	64.8	60.3	42.8
23:00-24:00	54.6	64.2	58.8	40.9
Day				
Evening	59.7	67.0	62.3	47.5
Night	56.0	64.6	56.4	38.3
$L_{Aeq,15hr}$				
$L_{Aeq,9hr}$		56.0		
$L_{Aeq,24hr}$				

Sound Pressure Level, dB(A)



-----LAmax    +---LA01    o---LA10    —LA90    —LAeq

**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

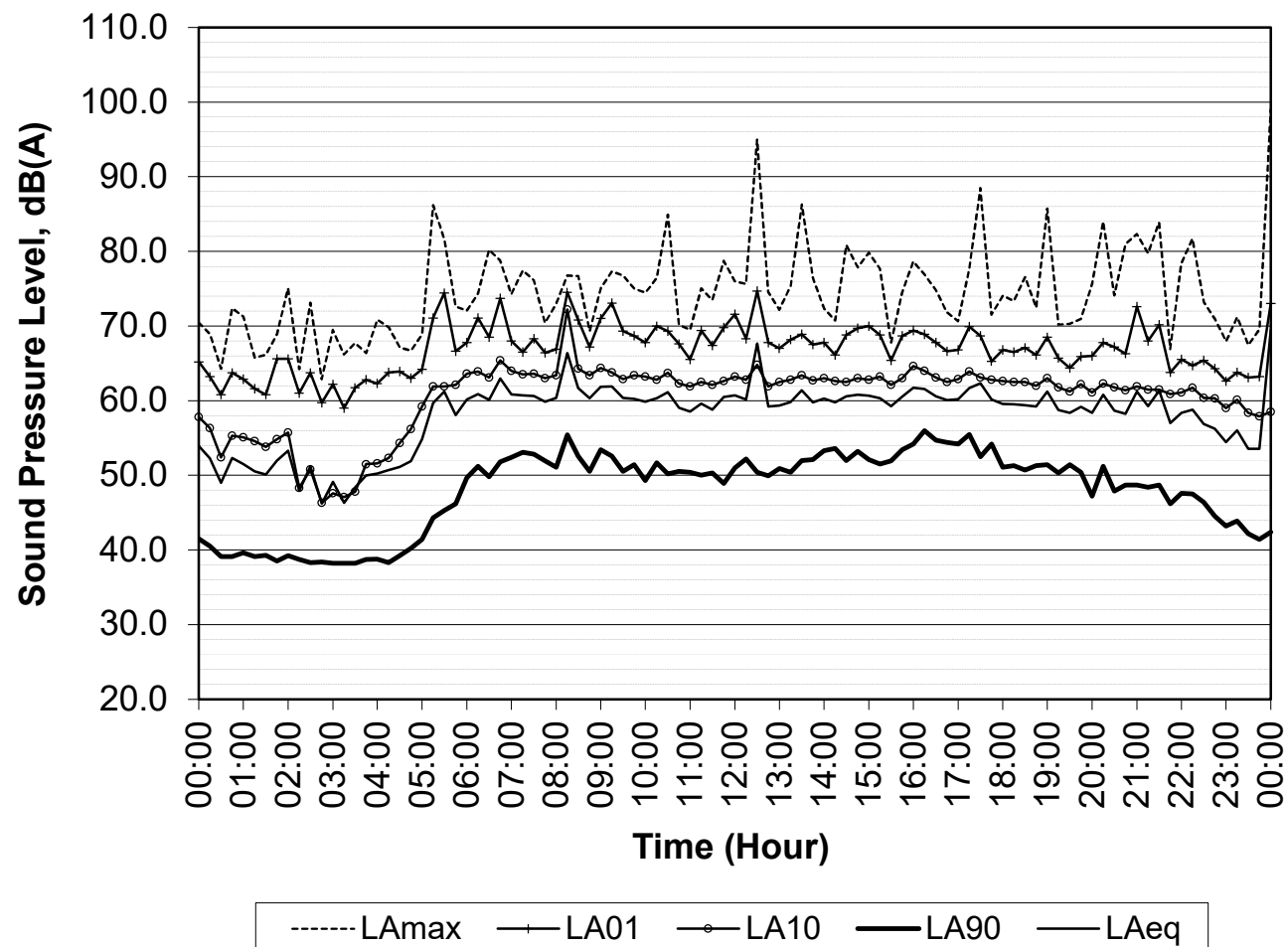
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Wednesday, 9 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	51.4	62.7	54.8	39.1
01:00-02:00	51.7	63.4	54.7	38.7
02:00-03:00	49.0	61.7	48.3	38.2
03:00-04:00	49.0	61.5	49.5	38.2
04:00-05:00	52.5	63.7	55.5	38.6
05:00-06:00	59.9	70.0	62.4	44.6
06:00-07:00	61.4	70.3	64.1	50.2
07:00-08:00	60.4	67.0	63.4	51.3
08:00-09:00	63.2	70.9	66.1	51.1
09:00-10:00	60.7	69.7	63.3	49.7
10:00-11:00	59.9	68.1	62.7	50.3
11:00-12:00	60.0	69.6	62.6	49.2
12:00-13:00	63.3	69.5	63.0	50.1
13:00-14:00	60.4	68.1	63.0	50.9
14:00-15:00	60.5	68.7	62.7	52.0
15:00-16:00	60.5	68.1	63.2	51.6
16:00-17:00	60.6	67.5	63.1	54.3
17:00-18:00	61.1	67.7	63.1	51.5
18:00-19:00	59.9	67.1	62.5	50.9
19:00-20:00	58.7	65.5	61.6	48.1
20:00-21:00	59.9	68.5	61.9	48.1
21:00-22:00	59.3	66.9	61.3	46.6
22:00-23:00	56.9	64.3	60.4	43.6
23:00-24:00	63.9	65.8	58.7	41.6
Day	61.2	68.6	63.3	50.2
Evening	59.5	67.1	61.9	47.6
Night	58.0	64.3	57.0	39.4
$L_{Aeq,15hr}$	60.8			
$L_{Aeq,9hr}$	58.0			
$L_{Aeq,24hr}$	59.7			



**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

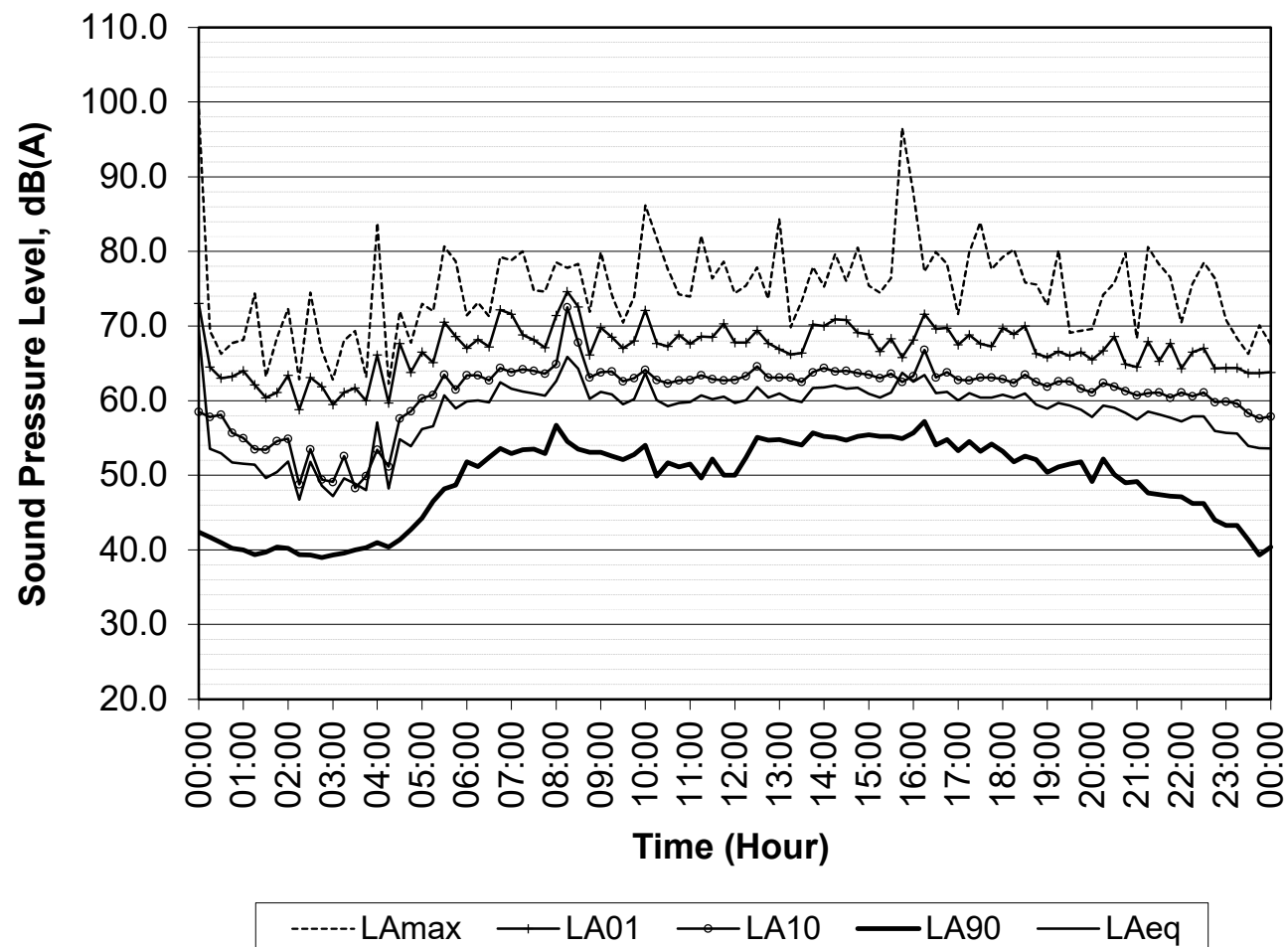
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Thursday, 10 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	52.5	63.7	56.7	40.1
01:00-02:00	50.9	61.8	54.1	39.5
02:00-03:00	49.1	60.8	50.2	39.1
03:00-04:00	52.7	62.2	51.1	39.7
04:00-05:00	54.1	64.4	56.9	40.7
05:00-06:00	59.3	67.8	62.3	47.0
06:00-07:00	61.1	69.8	63.6	51.6
07:00-08:00	61.4	68.9	64.2	53.1
08:00-09:00	63.5	70.8	66.8	53.1
09:00-10:00	61.4	68.9	63.4	52.3
10:00-11:00	59.7	67.9	62.7	50.3
11:00-12:00	60.3	68.8	63.0	49.7
12:00-13:00	60.9	68.0	63.5	53.1
13:00-14:00	60.9	68.2	63.5	54.2
14:00-15:00	61.6	69.9	63.8	54.8
15:00-16:00	62.1	67.2	63.1	55.0
16:00-17:00	61.6	69.6	64.1	53.5
17:00-18:00	60.7	68.4	63.0	53.2
18:00-19:00	60.0	67.8	62.6	50.8
19:00-20:00	59.0	66.2	62.0	49.8
20:00-21:00	58.6	66.2	61.6	49.1
21:00-22:00	57.9	66.3	60.9	47.1
22:00-23:00	57.0	65.6	60.4	43.5
23:00-24:00	54.3	63.9	58.4	39.6
Day	61.4	68.8	63.7	51.2
Evening	59.2	66.9	61.9	47.5
Night	57.4	64.5	57.2	37.4
$L_{Aeq,15hr}$	60.9			
$L_{Aeq,9hr}$	57.4			
$L_{Aeq,24hr}$	60.2			



**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

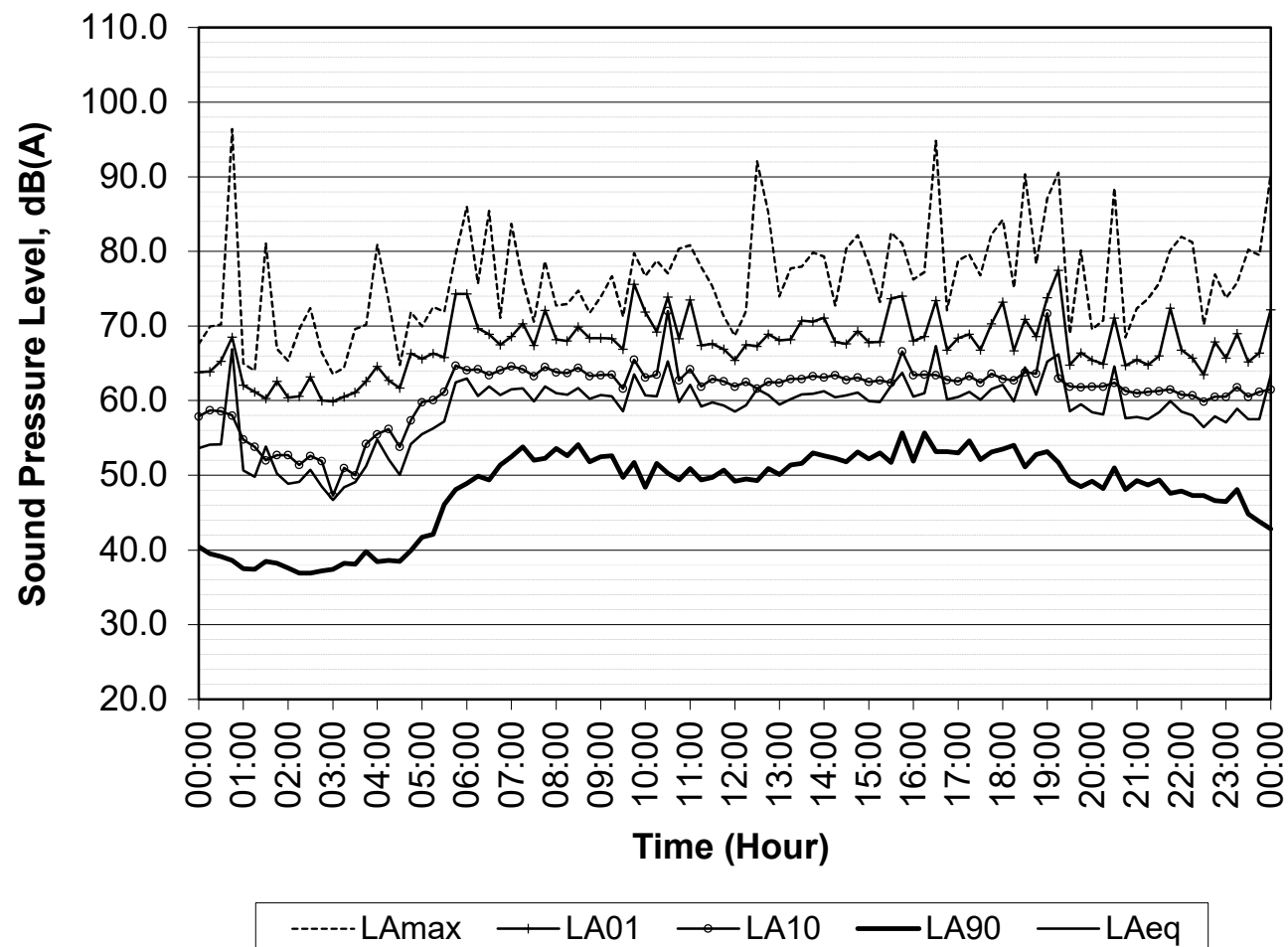
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Friday, 11 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	61.4	65.0	57.5	37.8
01:00-02:00	51.2	61.1	52.8	37.5
02:00-03:00	49.0	60.9	50.8	36.9
03:00-04:00	51.6	62.2	52.7	38.1
04:00-05:00	53.4	64.1	56.8	38.5
05:00-06:00	60.7	70.2	62.5	43.3
06:00-07:00	61.2	68.7	64.1	49.6
07:00-08:00	61.2	69.5	64.0	52.1
08:00-09:00	60.9	68.7	63.7	52.0
09:00-10:00	61.2	70.7	63.4	48.8
10:00-11:00	62.5	71.2	65.6	49.7
11:00-12:00	59.2	66.8	62.3	49.3
12:00-13:00	60.4	68.0	62.3	49.4
13:00-14:00	60.8	70.2	63.1	51.5
14:00-15:00	60.6	68.2	63.0	51.9
15:00-16:00	61.8	70.9	63.8	51.8
16:00-17:00	63.4	69.3	63.1	53.1
17:00-18:00	61.3	69.8	63.1	52.4
18:00-19:00	63.2	70.0	65.5	51.6
19:00-20:00	62.1	68.5	62.2	48.7
20:00-21:00	60.7	66.6	61.7	48.1
21:00-22:00	58.7	67.5	61.2	47.7
22:00-23:00	57.4	65.7	60.4	46.5
23:00-24:00	60.1	68.2	61.3	43.1
Day	61.3	69.3	63.4	49.4
Evening	61.6	68.5	62.7	48.2
Night	56.0	64.7	57.5	38.6
$L_{Aeq,15hr}$	61.4			
$L_{Aeq,9hr}$	56.0			
$L_{Aeq,24hr}$	60.5			





**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

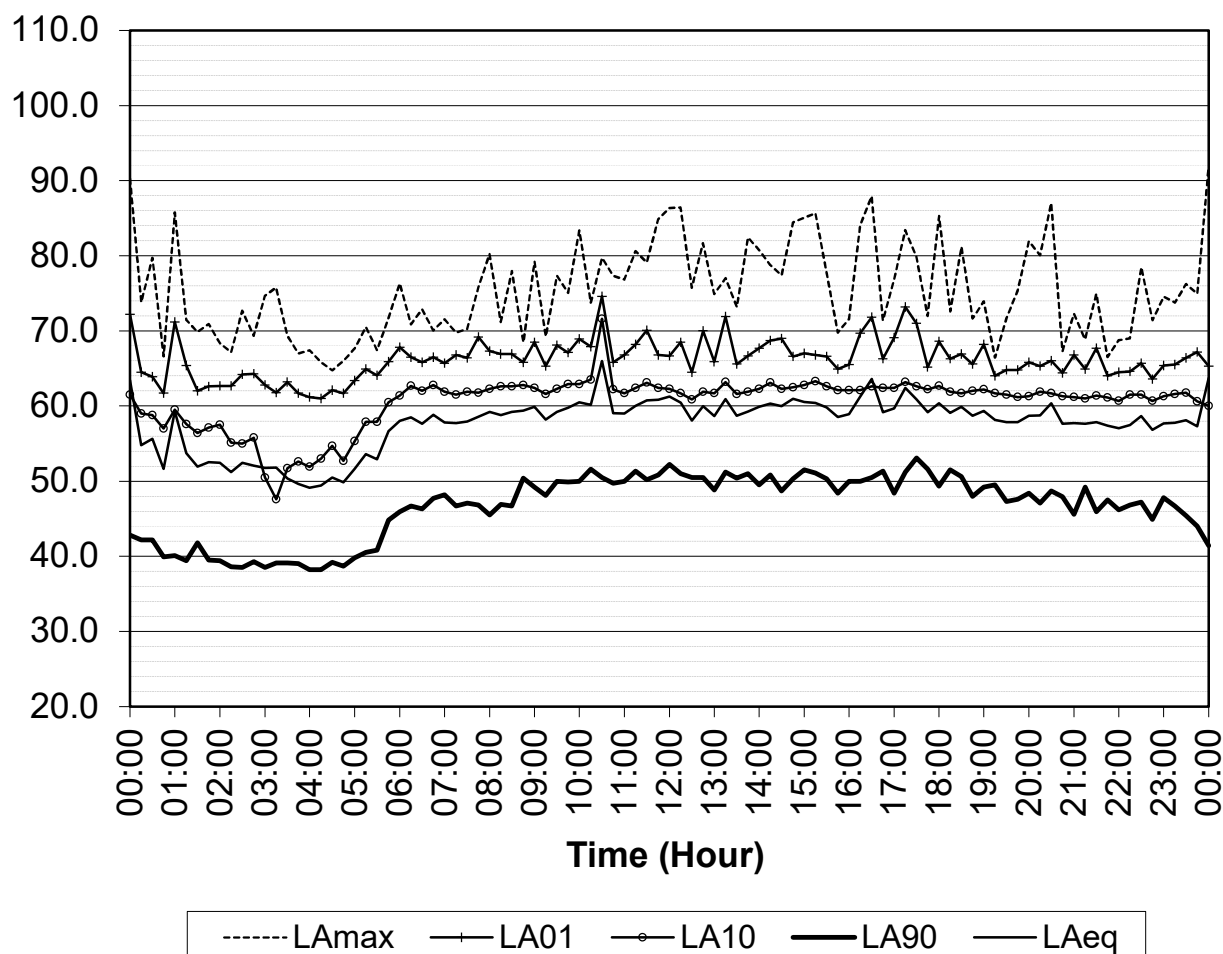
**Measurement Date** Saturday, 12 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	56.2	65.3	58.6	40.0
01:00-02:00	52.7	63.2	57.2	39.4
02:00-03:00	51.9	63.5	54.1	38.5
03:00-04:00	50.3	62.0	51.0	38.4
04:00-05:00	50.4	62.1	53.9	38.4
05:00-06:00	55.8	65.7	59.4	40.6
06:00-07:00	58.2	66.1	62.4	46.4
07:00-08:00	58.4	67.4	61.9	45.9
08:00-09:00	59.4	67.0	62.6	46.8
09:00-10:00	59.5	67.4	62.4	48.6
10:00-11:00	62.2	68.8	64.8	49.8
11:00-12:00	60.8	68.0	62.6	50.4
12:00-13:00	59.4	67.2	61.6	49.3
13:00-14:00	59.8	68.0	62.3	49.8
14:00-15:00	60.5	67.8	62.7	49.2
15:00-16:00	59.5	66.0	62.5	48.9
16:00-17:00	61.3	69.2	62.4	48.9
17:00-18:00	60.9	69.5	62.7	49.9
18:00-19:00	59.3	66.8	62.0	48.4
19:00-20:00	58.2	64.9	61.4	47.4
20:00-21:00	58.8	65.6	61.5	46.1
21:00-22:00	57.5	65.3	61.1	46.0
22:00-23:00	57.7	64.8	61.3	45.5
23:00-24:00	60.2	66.1	61.0	42.2
Day	60.2	67.8	62.6	47.0
Evening	58.7	65.9	61.6	46.5
Night	55.7	63.6	57.2	37.4
$L_{Aeq,15hr}$	59.9			
$L_{Aeq,9hr}$	55.7			
$L_{Aeq,24hr}$	58.8			

Sound Pressure Level, dB(A)



**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

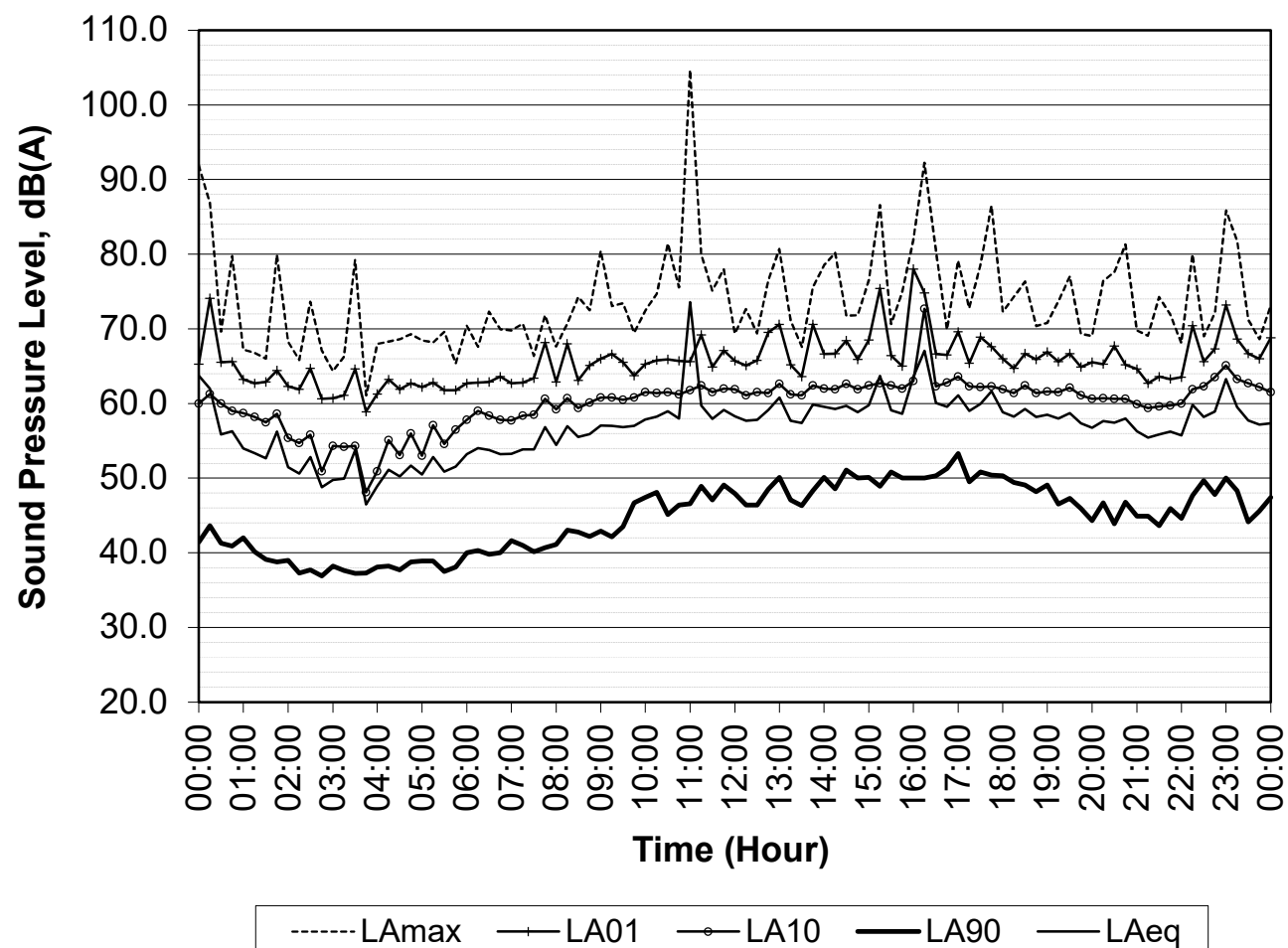
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Sunday, 13 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	58.2	67.1	59.8	41.0
01:00-02:00	53.8	63.1	57.4	38.9
02:00-03:00	50.8	62.0	53.9	37.0
03:00-04:00	50.6	61.5	51.9	37.2
04:00-05:00	50.9	62.5	54.3	37.9
05:00-06:00	52.2	62.3	56.5	37.7
06:00-07:00	53.6	63.0	58.2	39.9
07:00-08:00	54.9	64.3	59.2	40.3
08:00-09:00	56.4	65.6	60.3	42.4
09:00-10:00	57.2	65.3	60.9	42.5
10:00-11:00	67.9	65.8	61.5	45.5
11:00-12:00	58.8	66.7	62.0	47.3
12:00-13:00	59.0	67.8	61.7	46.4
13:00-14:00	58.8	66.5	61.7	46.5
14:00-15:00	59.4	67.4	62.2	49.0
15:00-16:00	61.9	71.2	62.5	49.2
16:00-17:00	63.2	69.4	65.4	50.1
17:00-18:00	60.0	67.0	62.2	49.7
18:00-19:00	58.6	66.1	61.7	48.5
19:00-20:00	57.8	65.7	61.3	44.8
20:00-21:00	57.4	65.7	60.5	44.2
21:00-22:00	55.8	63.3	59.7	43.9
22:00-23:00	60.5	69.1	63.2	47.7
23:00-24:00	58.0	67.5	62.4	44.6
Day	61.4	67.2	61.9	42.9
Evening	57.7	65.3	60.9	44.1
Night	57.7	66.8	60.2	43.1
$L_{Aeq,15hr}$	60.7			
$L_{Aeq,9hr}$	57.7			
$L_{Aeq,24hr}$	59.5			



**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

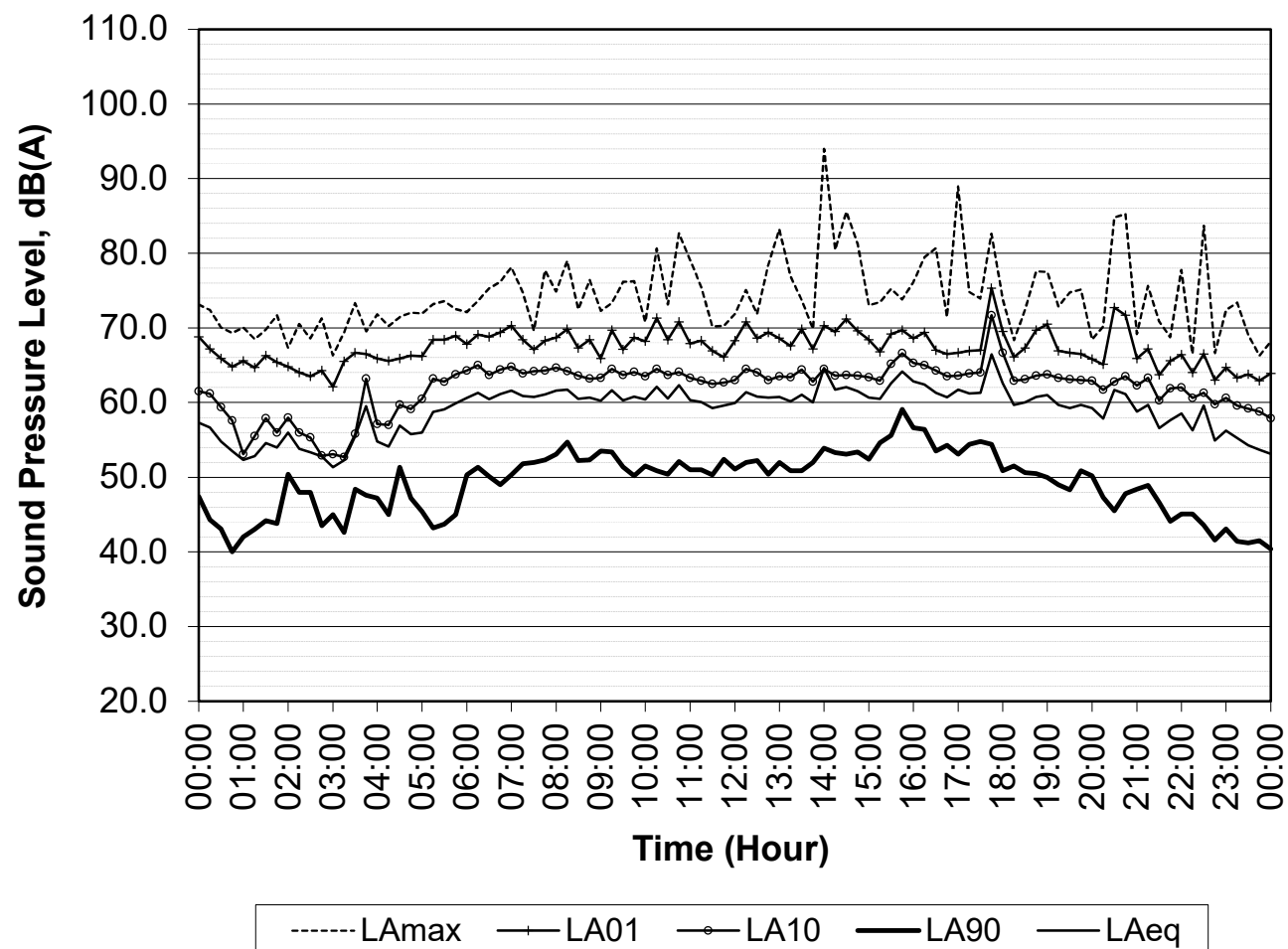
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Monday, 14 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	54.6	65.9	57.8	40.6
01:00-02:00	54.5	65.3	56.9	43.2
02:00-03:00	52.9	63.5	54.3	44.0
03:00-04:00	56.3	66.2	57.2	44.0
04:00-05:00	55.8	66.0	59.1	45.1
05:00-06:00	59.7	68.4	63.5	43.4
06:00-07:00	61.1	69.4	64.5	49.3
07:00-08:00	61.1	68.1	64.3	51.9
08:00-09:00	60.8	67.9	63.6	52.2
09:00-10:00	60.8	68.4	64.0	50.6
10:00-11:00	61.4	69.6	63.9	50.6
11:00-12:00	59.7	67.4	62.8	50.5
12:00-13:00	60.9	69.4	63.8	50.9
13:00-14:00	61.9	68.7	63.8	50.9
14:00-15:00	61.5	69.7	63.6	52.6
15:00-16:00	62.7	68.6	65.0	54.9
16:00-17:00	61.6	67.4	64.1	53.2
17:00-18:00	63.5	69.7	66.6	52.0
18:00-19:00	60.4	68.4	63.4	50.2
19:00-20:00	59.5	66.5	63.1	48.5
20:00-21:00	60.2	68.9	62.6	46.0
21:00-22:00	58.3	65.7	61.9	44.4
22:00-23:00	57.1	64.6	60.6	42.1
23:00-24:00	54.1	63.5	58.9	40.6
Day	61.5	68.6	64.1	50.6
Evening	60.0	67.6	63.0	46.1
Night	55.7	63.9	56.5	38.3
$L_{Aeq,15hr}$		61.2		
$L_{Aeq,9hr}$		55.7		
$L_{Aeq,24hr}$		60.2		



**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

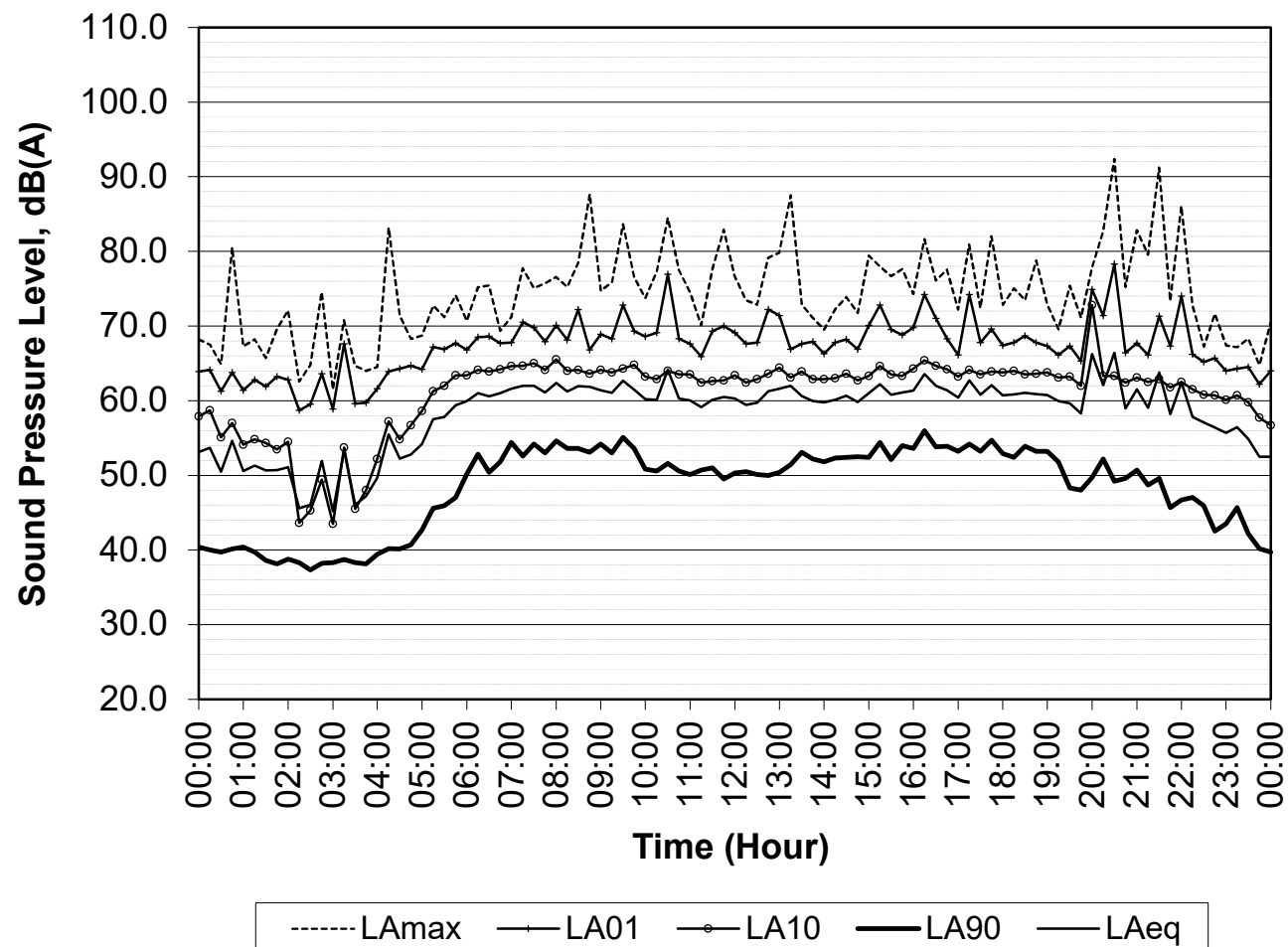
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Tuesday, 15 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	52.7	62.7	56.2	39.8
01:00-02:00	51.0	62.7	54.3	38.3
02:00-03:00	48.2	60.2	45.5	37.6
03:00-04:00	50.0	62.1	49.9	38.2
04:00-05:00	53.8	64.3	56.8	40.1
05:00-06:00	58.8	67.2	62.5	45.7
06:00-07:00	61.1	68.2	64.2	50.8
07:00-08:00	61.9	69.6	64.8	52.7
08:00-09:00	61.6	69.0	64.0	53.3
09:00-10:00	61.4	69.8	64.0	51.5
10:00-11:00	61.5	70.5	63.5	50.3
11:00-12:00	60.0	68.6	62.8	49.7
12:00-13:00	60.6	69.8	63.3	50.0
13:00-14:00	60.7	67.2	63.2	51.5
14:00-15:00	60.4	68.3	63.2	52.3
15:00-16:00	61.4	70.2	63.9	52.6
16:00-17:00	62.0	69.9	64.4	53.4
17:00-18:00	61.7	69.8	63.8	53.0
18:00-19:00	60.9	67.9	63.7	52.6
19:00-20:00	62.3	68.4	65.3	48.1
20:00-21:00	63.1	71.0	63.0	49.3
21:00-22:00	61.5	69.7	62.4	46.0
22:00-23:00	56.8	65.3	60.8	42.8
23:00-24:00	54.4	63.8	58.7	39.9
Day	61.3	69.3	63.7	50.3
Evening	61.9	68.8	63.7	48.2
Night	56.0	64.4	56.4	39.0
$L_{Aeq,15hr}$	61.5			
$L_{Aeq,9hr}$	56.0			
$L_{Aeq,24hr}$	60.2			



**Measurement Location** 35 Everley Road, South Granville  
Front Yard

**Project Title**

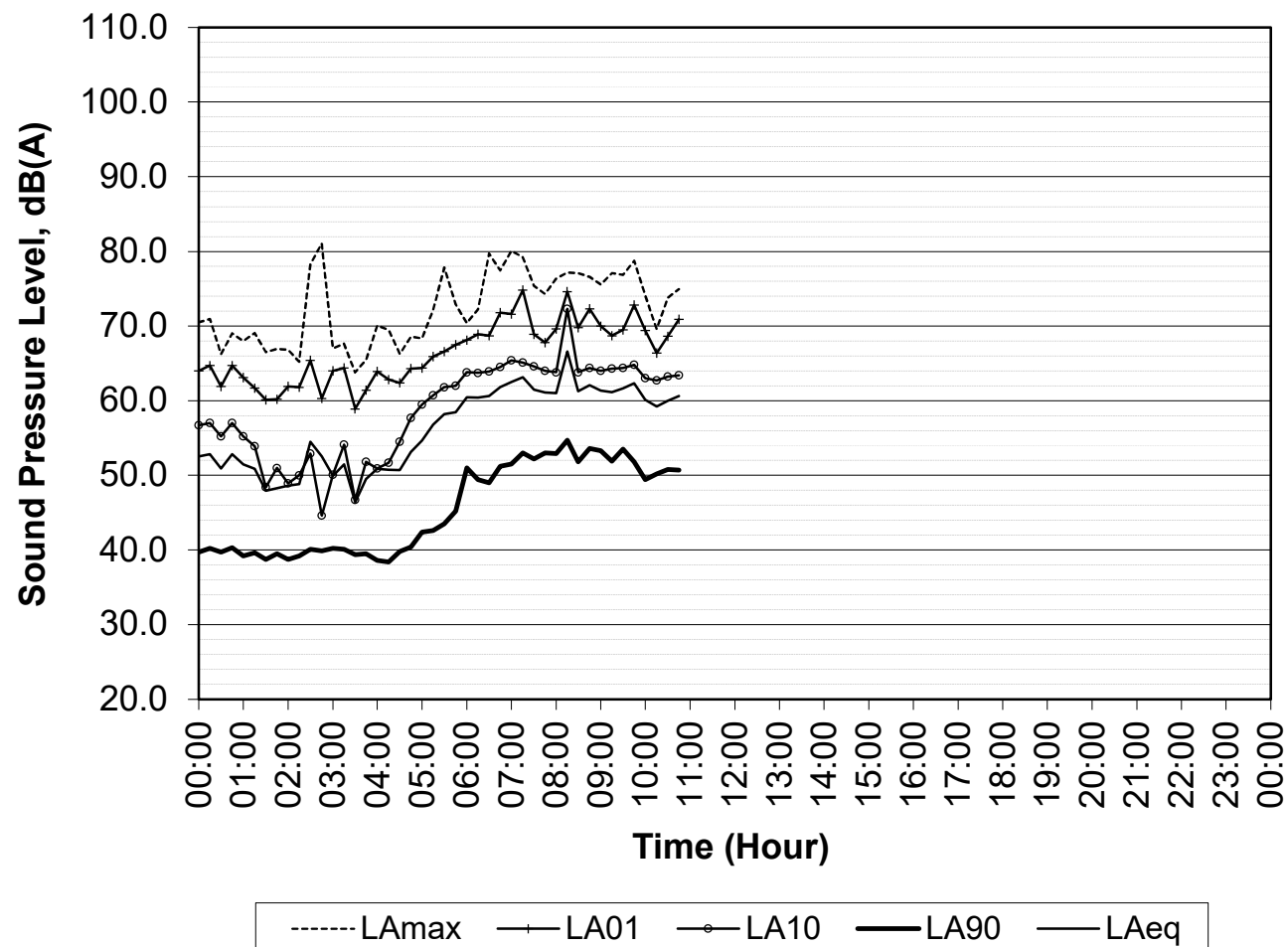
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Wednesday, 16 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	52.1	63.6	56.1	39.4
01:00-02:00	49.1	61.0	50.6	38.7
02:00-03:00	52.0	62.9	49.4	39.4
03:00-04:00	49.9	62.2	50.9	38.8
04:00-05:00	52.6	63.5	55.9	38.8
05:00-06:00	58.7	67.0	62.1	42.9
06:00-07:00	61.4	70.3	64.4	49.1
07:00-08:00	61.8	70.3	64.4	52.4
08:00-09:00	63.4	71.7	66.1	52.3
09:00-10:00	61.4	70.1	64.1	50.1
10:00-11:00				
11:00-12:00				
12:00-13:00				
13:00-14:00				
14:00-15:00				
15:00-16:00				
16:00-17:00				
17:00-18:00				
18:00-19:00				
19:00-20:00				
20:00-21:00				
21:00-22:00				
22:00-23:00				
23:00-24:00				
Day				
Evening				
Night				
$L_{Aeq,15hr}$				
$L_{Aeq,9hr}$				
$L_{Aeq,24hr}$				



## **Appendix 3**

### **NOISE MEASUREMENT RESULTS**

(46-52 Ferndell Street, South Granville)

**Measurement Location** 46-52 Ferndell Street, South Granville  
12m from eastern site boundary

**Project Title**

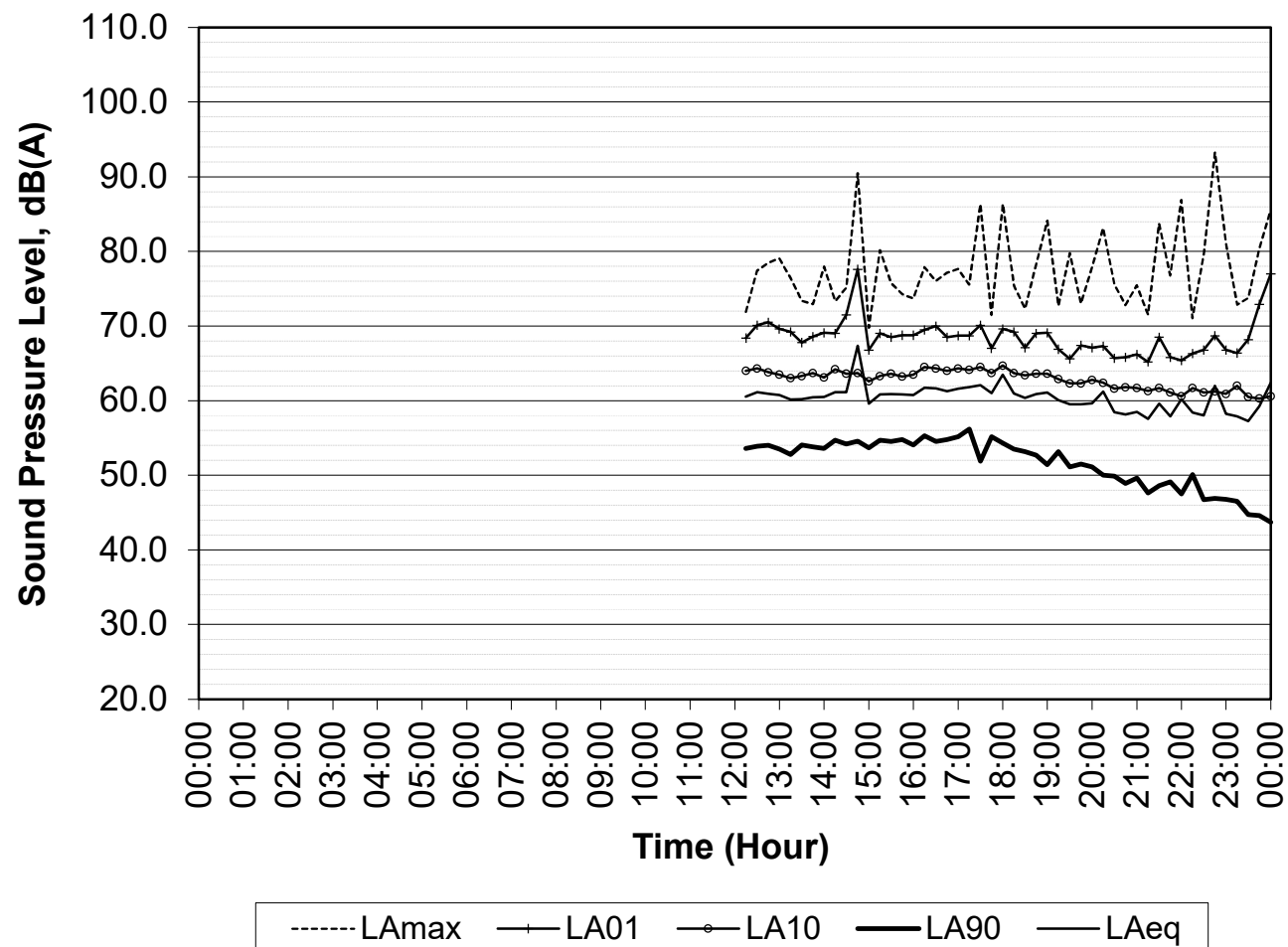
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Wednesday, 16 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00				
01:00-02:00				
02:00-03:00				
03:00-04:00				
04:00-05:00				
05:00-06:00				
06:00-07:00				
07:00-08:00				
08:00-09:00				
09:00-10:00				
10:00-11:00				
11:00-12:00				
12:00-13:00	60.8	69.7	63.9	53.5
13:00-14:00	60.3	68.7	63.3	53.0
14:00-15:00	63.5	71.2	63.5	53.9
15:00-16:00	60.8	68.8	63.4	54.2
16:00-17:00	61.6	69.2	64.3	54.6
17:00-18:00	62.2	68.9	64.3	52.6
18:00-19:00	60.8	68.6	63.6	51.8
19:00-20:00	59.7	66.8	62.6	51.1
20:00-21:00	59.3	66.3	61.9	49.1
21:00-22:00	58.9	66.2	61.2	47.5
22:00-23:00	59.5	67.2	61.2	46.7
23:00-24:00	59.7	71.1	60.9	44.0
Day				
Evening	60.1	67.2	62.6	48.8
Night	57.7	65.9	57.9	40.2
$L_{Aeq,15hr}$				
$L_{Aeq,9hr}$				
$L_{Aeq,24hr}$				



**Measurement Location** 46-52 Ferndell Street, South Granville  
12m from eastern site boundary

**Project Title**

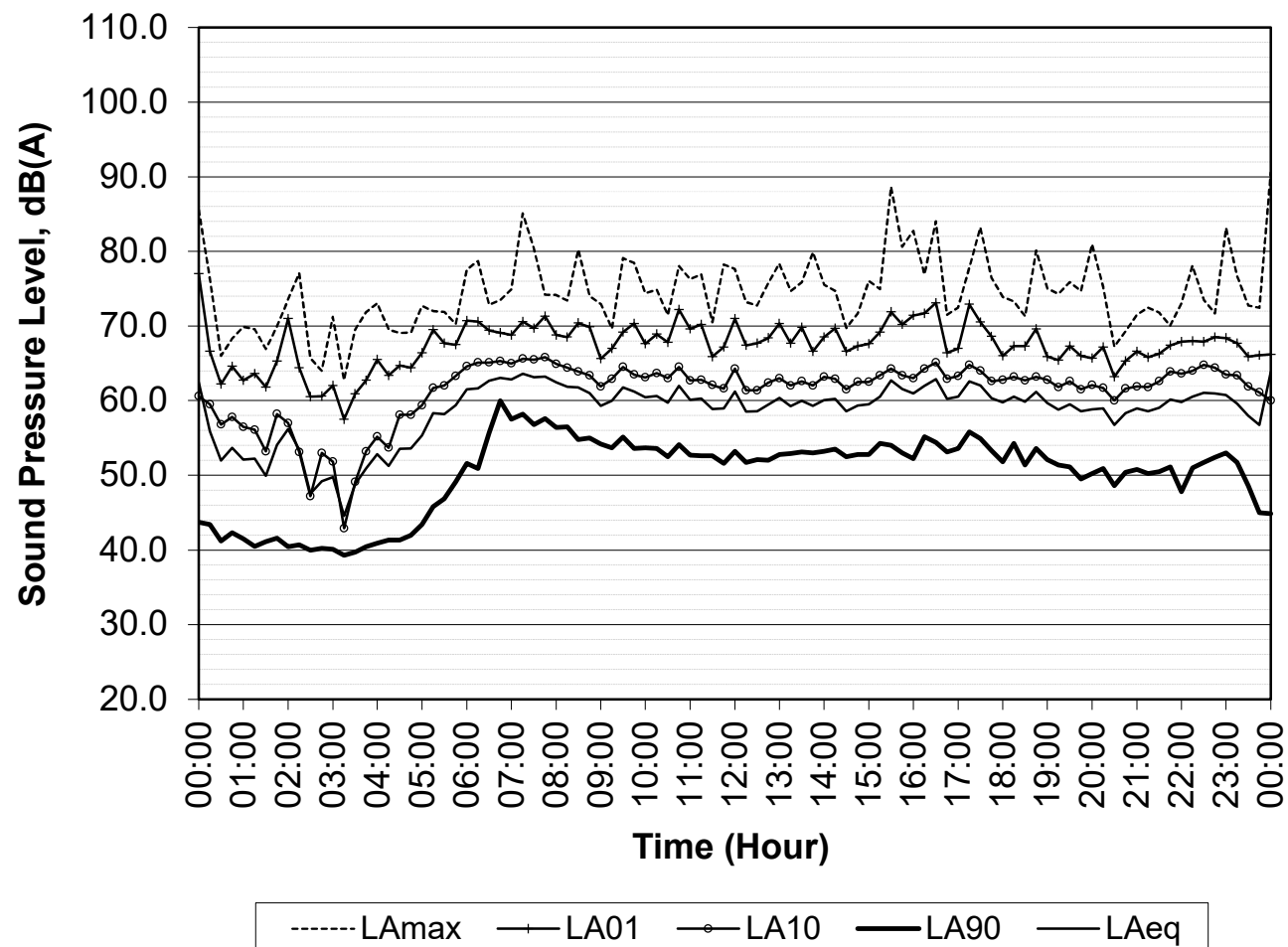
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Thursday, 17 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	53.7	64.0	57.7	41.3
01:00-02:00	53.7	65.4	56.1	40.4
02:00-03:00	50.5	61.9	51.3	40.0
03:00-04:00	50.2	61.7	50.1	39.4
04:00-05:00	53.7	64.7	57.3	41.3
05:00-06:00	59.6	68.9	62.9	46.1
06:00-07:00	62.6	69.5	65.1	52.3
07:00-08:00	63.1	70.1	65.5	56.5
08:00-09:00	61.1	68.6	63.4	54.4
09:00-10:00	60.9	68.5	63.5	53.6
10:00-11:00	60.7	69.6	63.5	52.6
11:00-12:00	59.9	68.6	62.7	51.9
12:00-13:00	59.3	68.5	62.1	51.8
13:00-14:00	59.7	68.2	62.5	52.9
14:00-15:00	59.5	67.8	62.4	52.6
15:00-16:00	61.5	70.7	63.5	52.4
16:00-17:00	61.5	69.6	63.9	53.3
17:00-18:00	61.3	69.5	63.6	52.3
18:00-19:00	60.4	67.5	63.0	51.6
19:00-20:00	58.9	66.1	62.0	49.7
20:00-21:00	58.3	65.6	61.3	49.1
21:00-22:00	59.5	66.9	63.0	48.5
22:00-23:00	60.8	68.2	64.2	51.2
23:00-24:00	60.5	66.5	61.6	44.9
Day	61.0	69.1	63.4	52.3
Evening	59.3	66.4	62.3	49.9
Night	58.4	66.8	59.9	38.6
$L_{Aeq,15hr}$	60.6			
$L_{Aeq,9hr}$	58.4			
$L_{Aeq,24hr}$	59.8			





**Measurement Location** 46-52 Ferndell Street, South Granville  
12m from eastern site boundary

**Project Title**

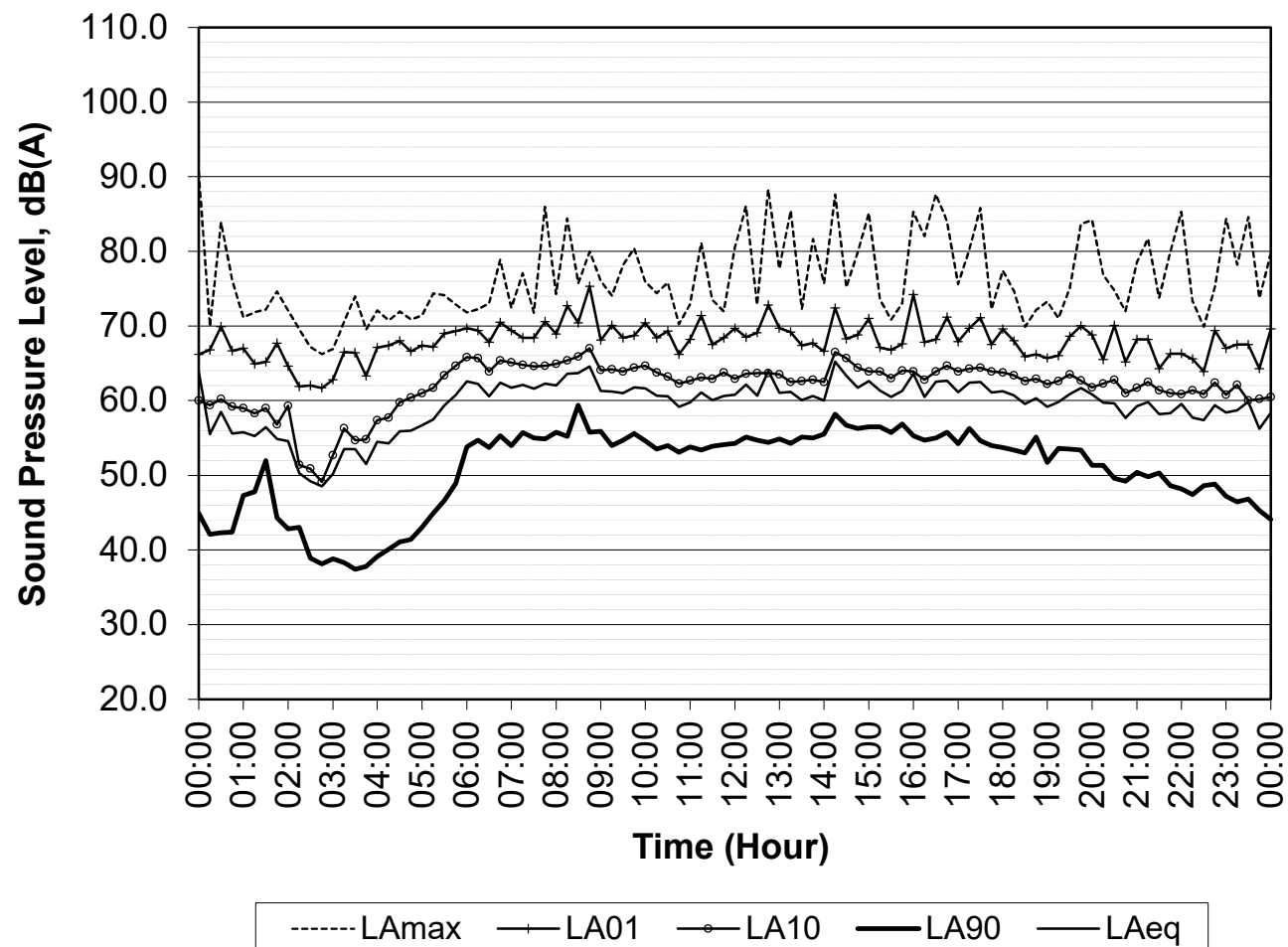
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Friday, 18 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	56.5	67.6	59.5	42.2
01:00-02:00	55.3	65.6	58.4	43.3
02:00-03:00	49.6	62.1	51.0	38.3
03:00-04:00	53.4	65.8	55.8	37.5
04:00-05:00	55.8	67.4	59.7	40.4
05:00-06:00	60.4	68.8	63.9	45.4
06:00-07:00	61.8	69.3	65.0	53.8
07:00-08:00	62.0	69.1	64.8	54.9
08:00-09:00	63.5	71.6	65.6	55.4
09:00-10:00	61.4	69.4	64.3	54.2
10:00-11:00	60.1	68.0	63.0	53.2
11:00-12:00	60.6	69.3	63.2	53.6
12:00-13:00	62.2	70.0	63.6	54.5
13:00-14:00	60.5	67.7	62.6	54.5
14:00-15:00	63.4	70.1	65.1	56.4
15:00-16:00	61.9	68.9	63.7	55.4
16:00-17:00	61.8	68.8	63.8	54.4
17:00-18:00	61.9	69.5	64.1	53.8
18:00-19:00	60.0	66.5	62.8	52.1
19:00-20:00	60.9	68.4	62.7	51.9
20:00-21:00	59.1	67.3	62.0	49.3
21:00-22:00	59.0	66.3	61.5	48.3
22:00-23:00	58.3	66.5	61.4	47.3
23:00-24:00	58.5	67.2	60.7	44.5
Day	61.9	69.3	64.0	53.9
Evening	59.9	67.3	62.4	49.4
Night	56.2	64.7	58.1	40.3
$L_{Aeq,15hr}$	61.4			
$L_{Aeq,9hr}$	56.2			
$L_{Aeq,24hr}$	60.5			



**Measurement Location** 46-52 Ferndell Street, South Granville  
12m from eastern site boundary

**Project Title**

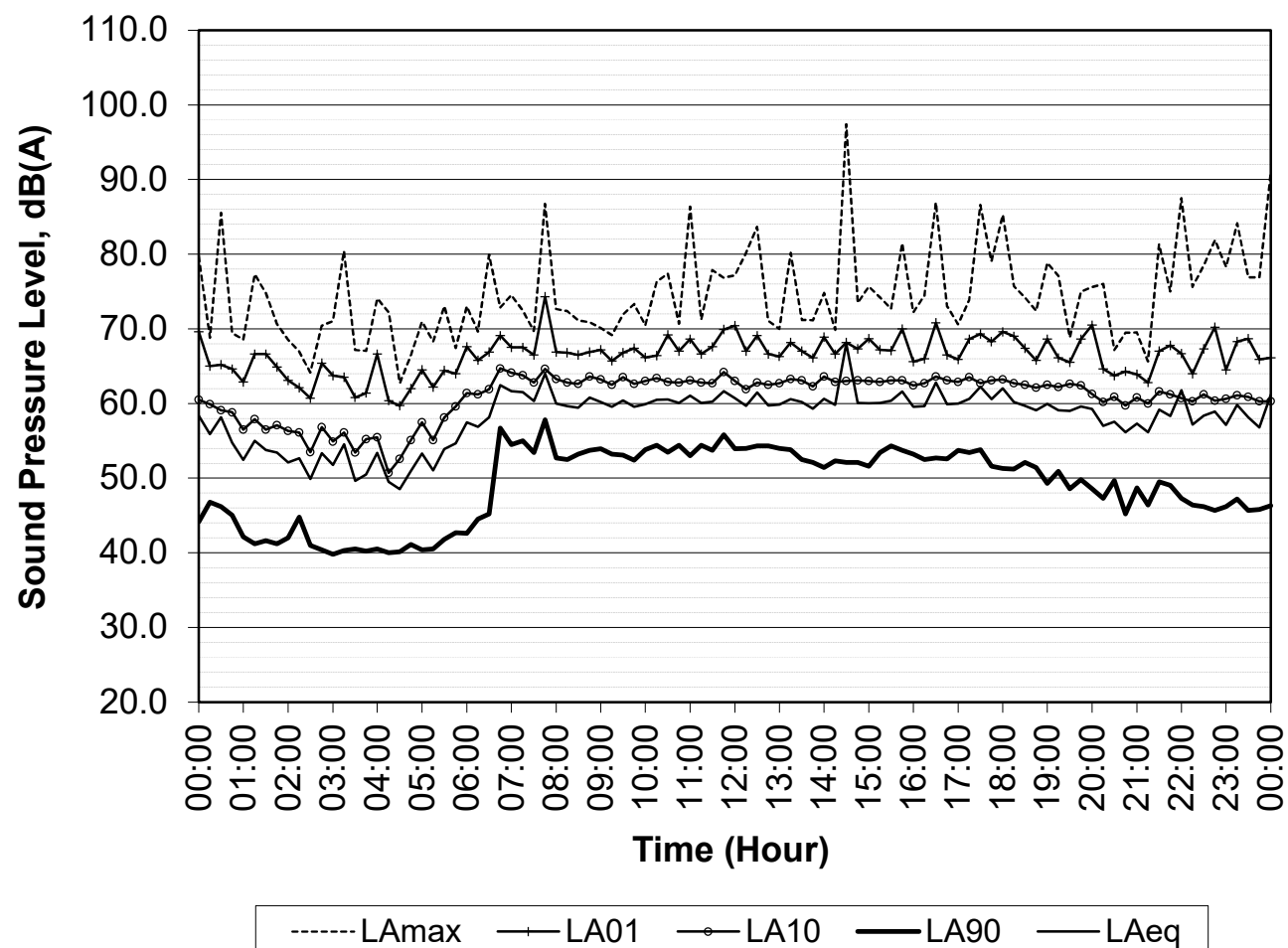
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Saturday, 19 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	55.8	64.4	58.6	43.0
01:00-02:00	53.7	65.3	57.0	41.2
02:00-03:00	52.1	63.0	55.3	40.0
03:00-04:00	52.5	63.1	55.1	40.2
04:00-05:00	50.9	61.7	54.0	40.0
05:00-06:00	54.9	64.6	58.6	40.9
06:00-07:00	60.4	67.3	63.0	44.7
07:00-08:00	61.8	68.8	63.6	52.9
08:00-09:00	60.0	66.9	63.1	52.7
09:00-10:00	59.9	66.5	62.9	52.6
10:00-11:00	60.5	67.8	63.1	53.2
11:00-12:00	60.7	68.6	63.2	53.8
12:00-13:00	60.2	67.3	62.5	54.0
13:00-14:00	60.2	67.6	63.1	51.6
14:00-15:00	63.7	67.7	63.0	51.8
15:00-16:00	60.5	67.5	62.9	53.3
16:00-17:00	60.8	67.3	63.1	52.5
17:00-18:00	61.4	69.0	63.1	51.4
18:00-19:00	59.7	67.7	62.5	49.9
19:00-20:00	59.2	67.7	62.1	48.6
20:00-21:00	57.0	64.1	60.4	45.8
21:00-22:00	59.3	66.1	60.9	46.7
22:00-23:00	58.0	66.5	60.6	45.9
23:00-24:00	59.3	67.3	60.7	45.7
Day	61.0	67.7	63.1	52.1
Evening	59.0	66.6	61.6	46.9
Night	55.9	64.8	57.1	40.1
$L_{Aeq,15hr}$	60.6			
$L_{Aeq,9hr}$	55.9			
$L_{Aeq,24hr}$	59.4			



**Measurement Location** 46-52 Ferndell Street, South Granville  
12m from eastern site boundary

**Project Title**

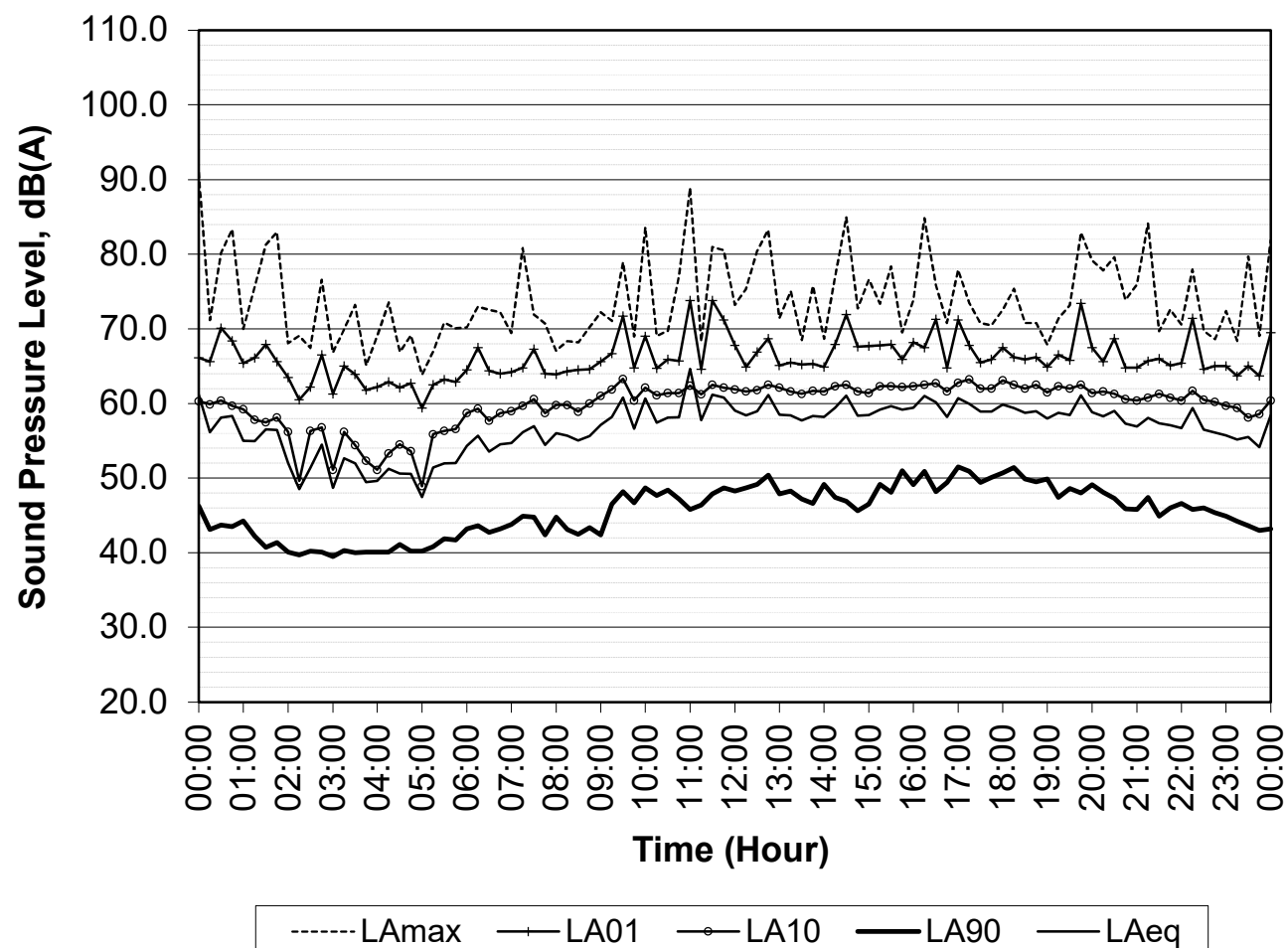
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Sunday, 20 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	57.1	67.4	59.8	43.2
01:00-02:00	55.3	65.8	57.4	40.3
02:00-03:00	51.5	62.6	53.5	39.6
03:00-04:00	51.2	63.2	53.5	40.0
04:00-05:00	50.2	61.8	52.6	40.1
05:00-06:00	52.6	63.3	56.9	41.1
06:00-07:00	54.7	65.0	58.7	42.9
07:00-08:00	56.0	65.0	59.7	43.1
08:00-09:00	55.9	64.8	59.9	42.4
09:00-10:00	59.4	68.1	61.9	46.6
10:00-11:00	60.8	67.5	61.6	46.2
11:00-12:00	59.9	69.4	61.9	46.9
12:00-13:00	59.4	66.4	62.0	48.1
13:00-14:00	58.2	65.2	61.6	46.8
14:00-15:00	59.5	68.8	62.0	45.9
15:00-16:00	59.4	67.5	62.3	48.4
16:00-17:00	60.1	68.7	62.4	48.6
17:00-18:00	59.4	66.7	62.6	49.6
18:00-19:00	58.8	65.8	62.1	49.6
19:00-20:00	59.4	68.3	62.1	47.6
20:00-21:00	57.9	66.0	61.0	45.8
21:00-22:00	57.3	65.6	60.8	45.2
22:00-23:00	57.2	66.5	60.5	45.1
23:00-24:00	56.1	65.5	59.1	43.1
Day	59.1	67.2	61.7	44.7
Evening	58.6	66.5	61.7	45.9
Night	57.4	65.7	58.4	41.6
$L_{Aeq,15hr}$	58.9			
$L_{Aeq,9hr}$	57.4			
$L_{Aeq,24hr}$	57.9			



**Measurement Location** 46-52 Ferndell Street, South Granville  
12m from eastern site boundary

**Project Title**

Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

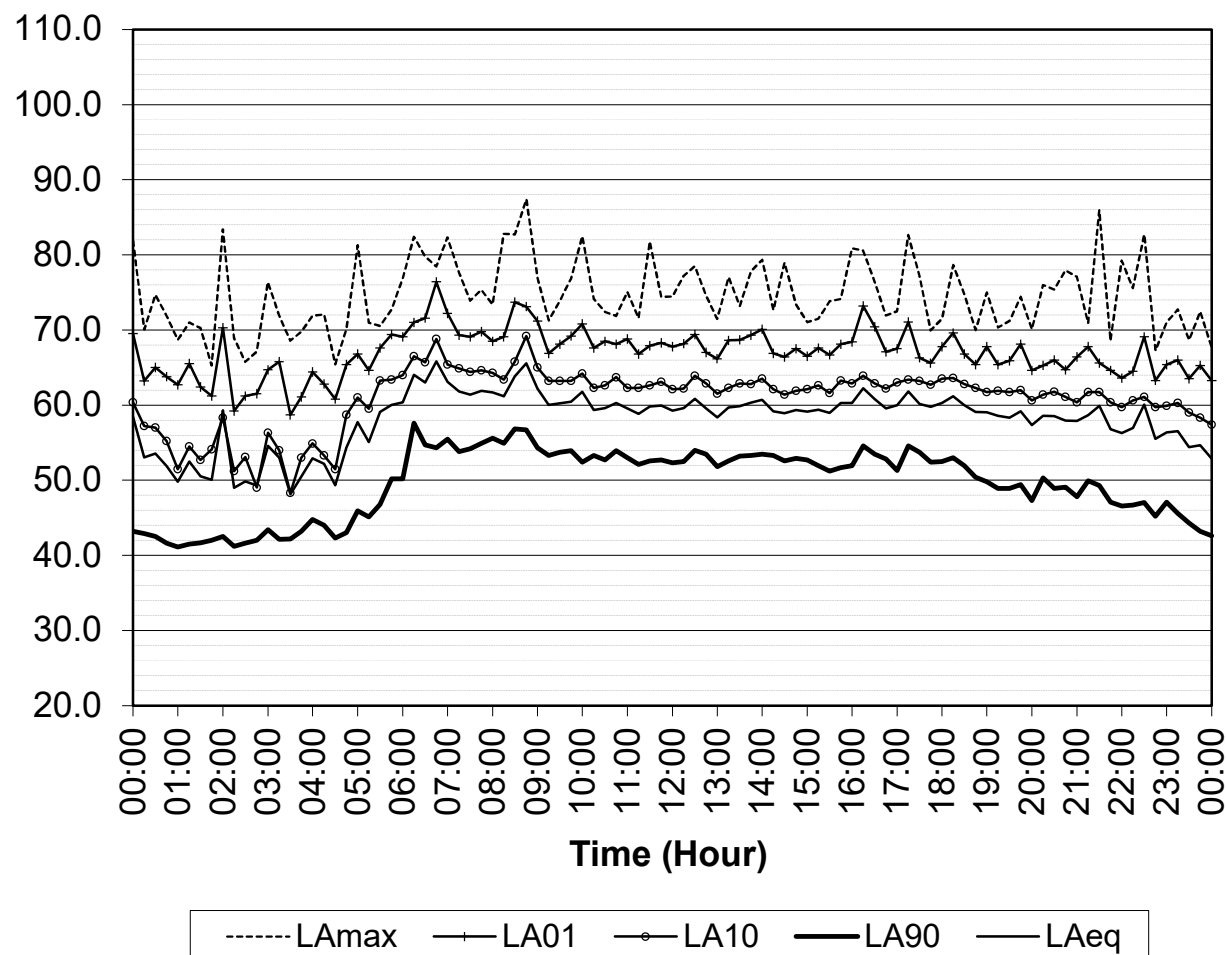
**Measurement Date** Monday, 21 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	52.3	63.7	55.2	41.3
01:00-02:00	54.9	64.9	54.9	41.6
02:00-03:00	51.4	61.7	52.4	41.3
03:00-04:00	51.6	62.5	52.6	42.1
04:00-05:00	54.5	64.0	56.1	42.5
05:00-06:00	59.1	67.7	62.6	45.6
06:00-07:00	64.1	72.8	66.6	54.4
07:00-08:00	61.7	69.2	64.6	53.9
08:00-09:00	63.5	71.8	65.9	54.5
09:00-10:00	60.7	68.8	63.5	52.7
10:00-11:00	59.7	68.3	62.7	52.8
11:00-12:00	59.5	67.7	62.5	52.2
12:00-13:00	59.7	67.7	62.6	52.0
13:00-14:00	60.2	69.2	62.9	52.8
14:00-15:00	59.2	66.8	61.9	52.6
15:00-16:00	59.8	67.7	62.6	51.4
16:00-17:00	60.8	69.6	63.0	51.8
17:00-18:00	60.6	67.7	63.2	52.4
18:00-19:00	59.9	67.4	62.6	50.0
19:00-20:00	58.4	66.0	61.6	47.8
20:00-21:00	58.3	65.6	61.2	48.1
21:00-22:00	58.2	65.4	60.9	46.8
22:00-23:00	57.6	65.6	60.3	45.7
23:00-24:00	54.8	64.5	58.8	42.8
Day	60.7	68.7	63.3	51.9
Evening	59.0	66.4	61.8	47.6
Night	56.4	64.8	57.1	41.2
$L_{Aeq,15hr}$	60.3			
$L_{Aeq,9hr}$	56.4			
$L_{Aeq,24hr}$	59.6			

Sound Pressure Level, dB(A)



**Measurement Location** 46-52 Ferndell Street, South Granville  
12m from eastern site boundary

**Project Title**

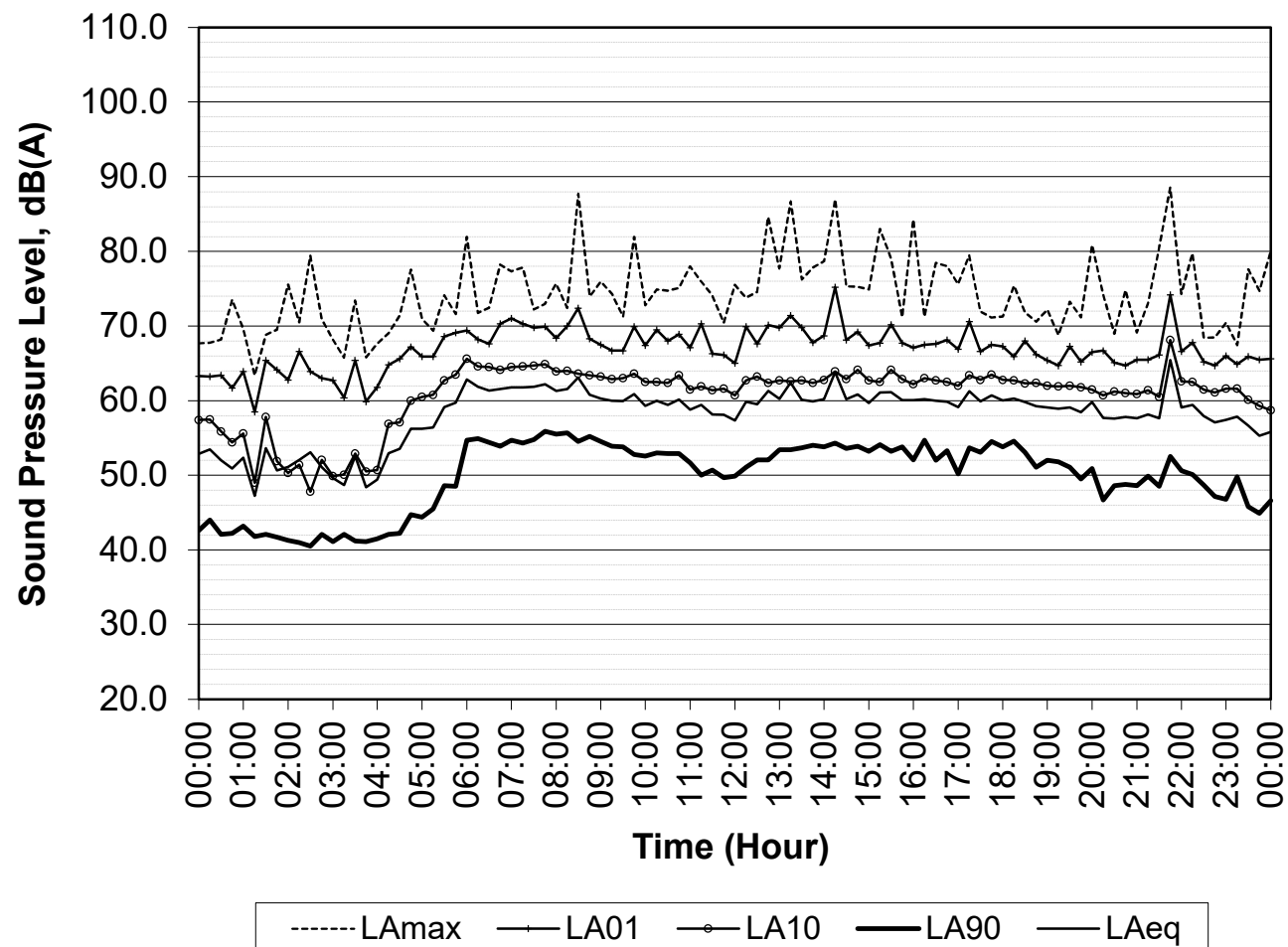
Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Tuesday, 22 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	52.3	63.1	55.9	42.1
01:00-02:00	51.2	62.7	52.3	41.4
02:00-03:00	51.6	64.1	50.3	40.7
03:00-04:00	50.1	61.9	51.1	41.1
04:00-05:00	55.0	65.9	58.6	42.1
05:00-06:00	60.1	68.3	63.2	46.4
06:00-07:00	61.6	69.3	64.4	54.1
07:00-08:00	61.8	69.6	64.5	54.5
08:00-09:00	61.6	69.6	63.6	54.5
09:00-10:00	60.1	67.7	63.0	52.7
10:00-11:00	59.6	68.4	62.5	52.1
11:00-12:00	58.3	66.9	61.4	49.8
12:00-13:00	60.3	69.4	62.8	51.4
13:00-14:00	60.8	69.4	62.6	53.5
14:00-15:00	61.5	70.0	63.4	53.3
15:00-16:00	60.6	68.2	62.9	52.4
16:00-17:00	59.8	67.5	62.6	50.7
17:00-18:00	60.5	68.0	63.1	53.3
18:00-19:00	59.6	66.4	62.4	51.4
19:00-20:00	59.1	65.9	61.8	49.9
20:00-21:00	57.7	65.5	61.0	47.3
21:00-22:00	61.4	68.1	63.2	48.9
22:00-23:00	58.1	65.9	61.7	46.9
23:00-24:00	56.5	65.5	59.9	45.2
Day	60.6	68.7	63.0	50.8
Evening	59.7	66.5	62.1	48.6
Night	57.4	65.8	58.9	41.2
$L_{Aeq,15hr}$	60.4			
$L_{Aeq,9hr}$	57.4			
$L_{Aeq,24hr}$	59.4			



**Measurement Location** 46-52 Ferndell Street, South Granville  
12m from eastern site boundary

**Project Title**

Proposed Warehouse and Child Care Centre Development  
46-52 Ferndell Street, South Granville

**Measurement Date** Wednesday, 23 August 2023

**Notes**

1. Tabulated  $L_{Aeq}$  are logarithmically averaged
2. Tabulated  $L_{A01}$  and  $L_{A10}$  are arithmetically averaged
3. Tabulated  $L_{A90}$  are the lowest 10-percentile levels

Time	Average Noise Level			
	$L_{Aeq}$	$L_{A01}$	$L_{A10}$	$L_{A90}$
00:00-01:00	54.2	64.7	56.7	42.0
01:00-02:00	51.2	63.3	53.3	40.9
02:00-03:00	51.6	63.6	53.9	41.2
03:00-04:00	56.1	65.4	58.1	41.1
04:00-05:00	55.8	66.3	58.2	41.8
05:00-06:00	60.2	68.8	63.9	46.0
06:00-07:00	62.5	69.8	65.8	54.2
07:00-08:00	62.8	70.2	65.7	55.5
08:00-09:00	61.8	69.3	64.2	55.4
09:00-10:00	61.7	70.6	64.1	54.5
10:00-11:00	60.5	68.2	63.2	53.8
11:00-12:00	59.8	68.0	62.6	53.5
12:00-13:00	60.7	69.3	63.4	54.4
13:00-14:00				
14:00-15:00				
15:00-16:00				
16:00-17:00				
17:00-18:00				
18:00-19:00				
19:00-20:00				
20:00-21:00				
21:00-22:00				
22:00-23:00				
23:00-24:00				
Day				
Evening				
Night				
$L_{Aeq,15hr}$				
$L_{Aeq,9hr}$				
$L_{Aeq,24hr}$				

