

**DEMOLITION, EXCAVATION & CONSTRUCTION  
NOISE & VIBRATION MANAGEMENT PLAN  
AT  
65 MUSTON STREET, MOSMAN  
FOR  
PROSKER PROPERTY PTY LTD**



**West & Associates**

**PTY LTD**

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We have prepared this report in accordance with usual care of the consulting profession, however no other warranties are made as to the data and conclusions expressed in this report, to the extent permitted by law.

# DEMOLITION, EXCAVATION & CONSTRUCTION NOISE & VIBRATION MANAGEMENT PLAN AT 65 MUSTON STREET, MOSMAN FOR PROSKER PROPERTY PTY LTD

## Contents

|                                                                             |          |
|-----------------------------------------------------------------------------|----------|
| <b>1. EXECUTIVE SUMMARY</b>                                                 | <b>1</b> |
| <b>2. BACKGROUND</b>                                                        | <b>1</b> |
| <b>2.1. OBJECTIVE OF CONSTRUCTION NOISE &amp; VIBRATION MANAGEMENT PLAN</b> | <b>1</b> |
| <b>2.2. SEARS REPORTING</b>                                                 | <b>2</b> |
| <b>2.3. REFERENCE DOCUMENTATION</b>                                         | <b>2</b> |
| <b>2.4. DESCRIPTION OF THE SITE</b>                                         | <b>2</b> |
| <b>2.5. CLOSEST SENSITIVE RECEIVERS</b>                                     | <b>3</b> |
| <b>3. SITE ACTIVITIES &amp; PREDICTED NOISE &amp; VIBRATION LEVELS</b>      | <b>4</b> |
| <b>3.1. SCOPE OF DEMOLISHING &amp; EXCAVATION WORKS</b>                     | <b>4</b> |
| <b>4. NOISE &amp; VIBRATION CRITERIA FOR SITE</b>                           | <b>4</b> |
| <b>4.1. NOISE CRITERIA FOR SITE</b>                                         | <b>4</b> |
| 4.1.1. Compliance with the Code AS 2436-2010                                | 4        |
| 4.1.2. EPA's Noise Affected Criteria                                        | 4        |
| 4.1.3. Noise Guide For Local Government -Offensive Noise                    | 5        |
| <b>4.2. BACKGROUND NOISE FOR AREA</b>                                       | <b>6</b> |
| <b>4.3. NOISE AFFECTED CRITERIA</b>                                         | <b>6</b> |
| <b>4.4. VIBRATION CRITERIA FOR SITE</b>                                     | <b>6</b> |
| 4.4.1. Vibration From Excavation & Construction                             | 6        |
| <b>4.5. CONSTRUCTION STAGES</b>                                             | <b>7</b> |
| <b>4.6. CONSTRUCTION HOURS</b>                                              | <b>7</b> |
| <b>4.7. CONSTRUCTION TRAFFIC NOISE</b>                                      | <b>7</b> |

|             |                                                                                   |           |
|-------------|-----------------------------------------------------------------------------------|-----------|
| <b>4.8.</b> | <b>CONSTRUCTION VIBRATION</b>                                                     | <b>7</b>  |
| <b>5.</b>   | <b>PREDICTED NOISE &amp; VIBRATION LEVELS &amp; IMPACT AT SENSITIVE RECEIVERS</b> | <b>7</b>  |
| <b>5.1.</b> | <b>PREDICTED APPLIANCE NOISE LEVELS</b>                                           | <b>7</b>  |
| <b>5.2.</b> | <b>PREDICTED APPLIANCE VIBRATION LEVELS</b>                                       | <b>8</b>  |
| <b>5.3.</b> | <b>PREDICTED NOISE LEVELS DURING CONSTRUCTION</b>                                 | <b>8</b>  |
| <b>6.</b>   | <b>PREPARATION OF CONSTRUCTION TIME TABLE</b>                                     | <b>9</b>  |
| <b>7.</b>   | <b>CONSTRUCTION NOISE AND VIBRATION MITIGATION</b>                                | <b>9</b>  |
| 7.1.1.      | Resolving Noise & Vibration Complaint Issues                                      | 9         |
| 7.1.2.      | Unresolved Noise and Vibration Complaint Issues                                   | 10        |
| 7.1.3.      | Excavation And Construction Noise Monitoring                                      | 10        |
| 7.1.4.      | Excavation And Construction Vibration Monitoring                                  | 10        |
| 7.1.5.      | Douglas Partners Report On Geotechnical Investigation Recommendation              | 10        |
| <b>8.</b>   | <b>CONCLUSION</b>                                                                 | <b>11</b> |

## **ATTACHMENT 1 BACKGROUND NOISE LOG FOR FRONT OF SITE**

**DEMOLITION, EXCAVATION & CONSTRUCTION  
NOISE & VIBRATION MANAGEMENT PLAN  
AT  
65 MUSTON STREET, MOSMAN  
FOR  
PROSKER PROPERTY PTY LTD**

**CONSULTANT DECLARATION****PROJECT DETAILS****PROJECT NAME**

**Application number** SSD-98068713

**Address of subject land** 65 Muston Street, Mosman

**Lot / DP** SP 32953

**APPLICANT DETAILS**

**Applicant name** Prosker Property Pty Ltd

**Applicant address** 30A Redan Lane, Mosman.

**REPORT DETAILS**

**Name of report this declaration relates** Acoustic Report

**Report reference no.** 26053

**Report date** 11 February 2026

**Company name (inc. ABN / ACN)** 12 003 731 851

**Author name** Joel West & Warwick West

**Author qualifications** Joel West: AffilM IEAust, Grad. Dip. Eng.  
Warwick West: MIEAust, CPEng, NER APEA Engineer IntPE Aust, BE, Grad. Dip. Arch. Acou. UNSW MAAS, Reg Engineer Dept FairTrading;2025 & 3278,

**Author address** 39 Smith Ave, Allambie Heights

**DECLARATION BY CONSULTANT**

**Name** Warwick West

**Registration no.** 2210

**PROJECT DETAILS****Organisation  
registered with**

AAS

**Declaration**

The undersigned declares that 25490:

- has been prepared in accordance with the following policy, guidelines, or legislative requirements:
  - Environmental Protection Agency (EPA) published the Interim Construction Noise Guideline 2009
  - AS 2436; 2010- 'Guide to noise and vibration control on construction, demolition and maintenance sites'
  - Noise Guide for Local Government 2010;
  - DECC&W (EPA) publication "Assessing Vibration-a technical guideline" -2006
  - Mosman Council DCP
  - Noise Policy For Industry 2017
- contains all available information relevant to the environmental assessment of the development, activity or infrastructure to which the acoustic report relates;
- does not contain information that is false or misleading;
- identifies and addresses the relevant Planning Secretary's environmental assessment requirements (SEARs) for the project;
- identifies and addresses the relevant statutory requirements for the project, including any relevant matters for consideration in environmental planning instruments to which the acoustic report relates;
- contains a consolidated summary of the proposed or necessary mitigation measures

**Signature**

**DEMOLITION, EXCAVATION & CONSTRUCTION  
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## **1. EXECUTIVE SUMMARY**

Based on the information assessed within this report it has been determined that the demolition, excavation and construction will meet requirements within the EPA Construction Noise Guideline.

Typically, the biggest impact of noise and vibration is rock breaking and drilling during the excavation stage which would be carried out at ground level.

The proposed development involves the demolition of the existing buildings located on site, bulk earthworks of the site & major excavation for multiple basement levels to the maximum depth of approximately 12m below ground level. As stated within the Report on Geotechnical Investigation prepared by Douglas Partners states that the majority of the excavation would be Sandstone.

Based on our assessments carried out within this acoustic report we expect the development of this project to be able to be suitably built in a method that is in full compliance with the criteria set out by the following codes and regulations;

- AS 2436; 2010- 'Guide to noise and vibration control on construction, demolition and maintenance sites'
- Environmental Protection Agency (EPA) Interim Construction Noise Guideline 2009
- Noise Guide to Local Government
- Noise Policy for Industry 2017
- Mosman Council DCP
- SEARS guideline

## **2.BACKGROUND**

### **2.1.OBJECTIVE OF CONSTRUCTION NOISE & VIBRATION MANAGEMENT PLAN**

The scope of work is to document a Demolition, Excavation & Construction Noise & Vibration Management Plan (**Noise & Vibration Management Plan**) for the proposed works at 65 Muston Street, Mosman site as required by the Client.

This report has been prepared as a noise management tool identifying and discussing the following:

- a) Background and Description of site and works and the identification of sensitive receivers
- b) Identification of activities being carried out and predict level of construction noise & vibration
- c) Determine Noise and Vibration Criteria

- d) Noise & vibration monitoring method to be used during construction, reporting and response
- e) Assessment of construction noise and vibration levels during construction and predict impact on sensitive receivers
- f) Mitigation deployed to reduce impact
- g) Construction Management Plan including timetable, respite periods and frequency
- h) Community consulting
- i) Contingency Plan to record complaints, assessment of non compliance and register to record complaints and remedial action taken

This report is for the exclusive use of our Client. No warranties are expressed or inferred to third parties. No part of this report shall be relied upon by other parties without the written permission of West and Associates Pty Ltd.

West and Associates Pty Ltd disclaim all responsibility to the Client and others for matters outside the agreed scope of work.

## 2.2. SEARS REPORTING

| Item | SEARS Requirement                                                                                                                                                                                                                                                                                                                                                                                         | Relevant Section of Report                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 10.0 | <p>Noise and Vibration</p> <p>Provide a noise and vibration impact assessment prepared in accordance with the relevant NSW Environment Protection Authority (EPA) guidelines. The assessment must detail construction and operational noise and vibration impacts on nearby sensitive receivers and structures and outline the proposed management and mitigation measures that would be implemented.</p> | <p><b>5. PREDICTED NOISE &amp; VIBRATION LEVELS &amp; IMPACT AT SENSITIVE RECEIVERS</b></p> |

## 2.3. REFERENCE DOCUMENTATION

The report is based on the details given in the following set of documents:

1. Studio Johnson Architectural Drawings, Project 65 Muston Street, Mosman Dated: 10 February 2026.
2. Douglas Partners, Report on Geotechnical Investigation Revision 4.
3. West & Associates Pty Ltd DA Acoustic Report 26052.

## 2.4. DESCRIPTION OF THE SITE

The proposed site consists of an existing multi apartment complex to be fully demolished and the site to be reused fully for the proposed works.

The existing front of the site is shown in the photo below.



**Photo of site; 65 MUSTON STREET, MOSMAN**

The existing site and surrounding area can be seen in the Google Aerial Photo below:



**Google Aerial Photograph,**

## 2.5.CLOSEST SENSITIVE RECEIVERS

The site currently sits in a predominately residential with surrounding residential properties in the area. The closest residential sensitive receivers have been identified below and shown on the Google aerial photo above.

The neighbouring closest sensitive receiver has been identified below:

- Location #1, Existing Residential Receiver – 63 Muston Street
- Location #2, Existing Residential Receiver – 67 Muston Street

### 3.SITE ACTIVITIES & PREDICTED NOISE & VIBRATION LEVELS

#### 3.1.SCOPE OF DEMOLISHING & EXCAVATION WORKS

The proposed development involves bulk earthworks of the site, major excavation for multiple basement levels to the maximum depth of approximately 12m below ground level. As stated within the Report on Geotechnical Investigation prepared by Douglas Partners states that the majority of the excavation would be Sandstone.

Based on the expected architectural designs and the Geotech testing we would expect the general excavation to consist of land levelling with deep excavation to approximately 12m below existing ground level. We have assessed the noise produced on site during the site preparation and excavation of the proposed works to be as follows:

- Front end loader shall be used to clear residual sand, mulch to bedrock
- Major excavation works which may include some rock breaking as Geotech report documents weathered sandstone 5m depth with some amount of shale.
- Pier Drilling
- Laying of concrete for area apron

Based on the Geotechnical Log shown within Attachment 2 we have reviewed the materials at the expected depth of excavation.

### 4.NOISE & VIBRATION CRITERIA FOR SITE

#### 4.1.NOISE CRITERIA FOR SITE

##### 4.1.1.Compliance with the Code AS 2436-2010

The code AS 2436; 2010- 'Guide to noise and vibration control on construction, demolition and maintenance sites' (**AS 2436**) provides lists of typical demolition and excavation equipment noise, the details how noise and vibration can be offensive, suggests methods to better manage and reduce site and noise and predicted noise levels from the various Appliances. Appendix 1 of this code provides noise levels of some common construction plant used on sites. However, this code does not provide a noise or vibration level criteria.

##### 4.1.2.EPA's Noise Affected Criteria

The Environmental Protection Agency (EPA) published the Interim Construction Noise Guideline 2009 is a guide to the construction industry as a tool for the management of construction noise, suitable to be used with NSW Government Construction projects and suitable to be used by local governments.

This document is based on background noise levels for the area and discusses work times when certain Construction Appliances can be used, feasible and reasonable mitigation

measures, the adoption of rest periods when appropriate, and addresses management for noise at residences.

The EPA's Interim Construction Noise Guidelines addresses two Management Levels which consist of Noise Affected and Highly Noise Affected as follows:

- The Noise Affected criteria is assessed as the background (or rating background Level RBL) +20dB for projects of 0 to 4 weeks
- The Noise Affected criteria is assessed as the RBL +10dB for projects of 5 to 26 weeks
- The Noise Affected criteria is assessed as the RBL +5dB for projects greater than 26 weeks or outside recommended standard hours
- The Highly Noise Affected criteria is taken as 75 dB(A) which is the level where there may be strong community reaction to noise.

This project should be complete within the 26+ week period so the Noise Affected criteria is taken as RBL +5dB.

#### 4.1.3.Noise Guide For Local Government -Offensive Noise

The Noise Guide for Local Government 2010; **(NG)** provides details on how specific noise levels can be determined so as not to cause offense to the closest sensitive receivers.

The NG publication describes factors that come into play when a noise created in a local area can be regarded by the receiver as being offensive. Nature and characteristics they list in their publication to be considered **inside** a closest sensitive receiver are as follows:

- Location of noise, loudness of the noise especially
- The character of the noise compared with other noises in the area
- The time and duration of the noise
- Whether the noise is typical of the area
- How often the noise occurs
- The number of people that are affected by the noise

The NG publication states the following in Clause 2.1.2 :

*"audibility in a neighbouring residence is used to determine whether noise from a certain activity that often results in neighbourhood complaints is offensive".*

The NG publication requires background noise levels for assessment purposes to be determined by a sound level meter as a  $L_{A90\ t=15\ min}$  descriptor for the appropriate time of the day. The NG cross references the Industrial Noise Policy which defines how single value background noise can be determined for the 3 periods of the day called the Rating Background Level (RBL), being the daily medium of the lower 1/10 percentile of the  $L_{A90\ t=15\ mi}$  background noise for each period

The NG publication recommend that in most cases the level of noise impact be measured as a  $L_{Aeq\ t=15\ min}$  descriptor.

The NG states that offense is to be assessed inside a sensitive receivers location, ie. Indoors. Industry practice accepts there is 10 dB attenuation of noise entering an open window.

Combining these NG recommendations, the Project Specific Noise Level is to be based on the Intrusiveness Criteria. The noise level being heard inside the closest sensitive receivers is determined by using the typical appliance noise levels as given in Table 1 above (derived from AS 2436) and calculating the attenuation from the distance from site, by any sound barriers created by separating fences or building structure and attenuated by 10 dB through an open window.

## 4.2.BACKGROUND NOISE FOR AREA

Unattended district L<sub>A90 t=15 min</sub> background noise was monitored in accordance with the DA Acoustic report.

For ease of representing the results, the single figure Rating Background Levels (**RBL**) have been shown below in the table for the day(7am-6pm) evening(6 pm-10-pm) and night periods(10pm-7 am) have been calculated in accordance with the procedures set out in the NSW EPA's Industrial Noise Policy -2000 (**INP**).

**Table 1: Single Figure RBL's and Site Noise for Project**

| Period times                    | Day<br>(0700<br>to<br>1800) | Evening<br>(1800<br>to<br>2200) | Night (2200<br>to 0700) |
|---------------------------------|-----------------------------|---------------------------------|-------------------------|
| RBL L <sub>A90 t=15 min</sub> - | 40.8                        | 39.0                            | 34.8                    |
| RBL +5 dB                       | 46                          | 44                              | 40                      |

## 4.3.NOISE AFFECTED CRITERIA

The construction works shall be carried out within in the day period (7 AM -6 PM) only so no after hours construction criteria need be determined.

**Noise Affected Criteria** as recommended by the EPA's Interim Construction Noise Guideline for the standard construction hours is therefore 41+5=**46 dB(A)**

## 4.4.VIBRATION CRITERIA FOR SITE

### 4.4.1.Vibration From Excavation & Construction

DECC&W (EPA) publication "Assessing Vibration-a technical guideline" -2006 recommends that the vibration levels given in the code BS 6472-1 2008 "Evaluation of Human exposure to vibration in buildings" (updated from the previous 1992 edition) is to be adopted.

The code BS 6472:2008 requires that either ground acceleration be monitored in the 3 directions or the maximum combined particle velocity of the three directions be monitored. The code gives the conversion between these two alternatives. The code gives the method by which the monitored results can be converted into Vibration Dose Values( $m/s^{1.75}$ ). The Code then list the level of Vibration Dose that bring certain probable reactions from occupants. These values are as shown in the following Table.

**Table 2: Vibration Dose Values( $m/s^{1.75}$ ) (from ABS6472-2008, Table 1)**

| Place                                    | Low Probability<br>of adverse<br>comment ( $m/s^{1.75}$ ) | Adverse<br>comment<br>possible ( $m/s^{1.75}$ ) | Adverse<br>comment<br>probable ( $m/s^{1.75}$ ) |
|------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Residential<br>Building Day (16<br>Hrs)  | 0.2 to 0.4                                                | 0.4 to 0.8                                      | 0.8 to 1.6                                      |
| Residential<br>Building Night (8<br>Hrs) | 0.13                                                      | 0.26                                            | 0.51                                            |

The threshold of perception of vibration is  $0.015 m.s^{-2}$  which corresponds to a peak particle velocity of  $0.5 m.s^{-1}$ .

Therefore the accumulated x, y & z vibration criteria of **0.5 metres per second velocity** be adopted as the vibration criteria for site.

#### 4.5.CONSTRUCTION STAGES

The detailed construction stages are to be provided by the developer during the appropriate stages.

#### 4.6.CONSTRUCTION HOURS

The detailed construction hours are to be provided by the developer during the appropriate stages however due to the nature of demolition and construction noise we recommend that demolition and external construction hours are limited to the Day period.

#### 4.7.CONSTRUCTION TRAFFIC NOISE

We would expect overall construction based traffic noise to consist of work vehicles and heavy vehicles. These types of vehicles are consistent with local traffic around the immediate area and therefore we do not expect them to cause any adverse affects to the overall project trigger noise levels as defined with the Noise Policy for Industry.

#### 4.8.CONSTRUCTION VIBRATION

The Geotech report shows sandstone present in the areas to be excavated for basement car parking. Due to this we would expect some level of vibration from rock breaking and excavating.

### 5.PREDICTED NOISE & VIBRATION LEVELS & IMPACT AT SENSITIVE RECEIVERS

#### 5.1.PREDICTED APPLIANCE NOISE LEVELS

The listing of appliances understood to be required to be used at site, their grouping according to AS 2436 which includes a table giving typical noise level at 10 metres of excavation and construction appliances. The appropriate appliance used on this site and their sound levels are shown in the following table:

**Table 3: Predicted Appliance Noise Levels for Project**

| Appliance Description          | dB(A) ave15 min @ 10 M |
|--------------------------------|------------------------|
| 5 cm Front End Loader          | 72 dB(A)①              |
| Crane                          | 77 dB(A)②              |
| Excavator                      | 79 dB(A)②              |
| Piling                         | 83 dB(A)②              |
| Concrete Agitator truck        | 76 dB(A)②              |
| Concrete pump truck            | 80 dB(A)②              |
| Hand Held Electric Jack Hammer | 88 dB(A)①              |
| Hand Held Tools                | 74 dB(A)②              |

|                                   |                            |
|-----------------------------------|----------------------------|
| 20 Ton truck, with or without dog | 72 dB(A) @ 7m <sup>①</sup> |
| 10 Tonne Excavator with Hammer    | 90 dB(A) @ 3m <sup>①</sup> |
| 10 Tonne Excavator with Rock Saw  | 85 dB(A) @ 3m <sup>①</sup> |

① Determined from library of previous site measurements

② AS 2436-2010; Guide to noise and vibration control on construction, demolition and maintenance sites

## 5.2.PREDICTED APPLIANCE VIBRATION LEVELS

We have assessed the transmission of vibration produced on site at the closest sensitive receivers (who are the immediate adjacent neighbours) and have determined that vibration will be minimal to non existing.

The Geotech report has confirmed at the maximum depth is medium sandstone, due to this to reduce vibration through rock breaking we believe an excavator with a rock saw will be used to cut out sections, predominantly at the boundary to reduce the transfer of vibration.

We therefore predict there will be little to no source of vibration outside criteria transmitted past the boundary of this site during construction by utilizing specific excavation methodology addressed within this report and the Geotech report.

## 5.3.PREDICTED NOISE LEVELS DURING CONSTRUCTION

Table 3 above lists the predicted sound pressure levels that would be generated by the appliances used during the demolition and construction phases of the project in the centre of the project site.

We have calculated the expected sound pressure (noise) levels of the various demolition and construction equipment that is expected to be used at each of the closest sensitive receiver's internal rooms and the results shown in the following table. We have calculated the exceedance being the predicted noise level minus the Noise Affected Criteria and results also shown in the table below;

**Table 4: Predicted Appliance Noise Levels at closest sensitive receivers**

| Appliance Description   | Noise level dB(A)<br>ave15 min @ 10 M | Noise Affected Criteria ③ | Predicted dB(A) ave<br>15 min inside #1, #2 inside<br>Closest Sensitive Receiver | Exceedance ave 15<br>min inside #1, #2 Closest<br>Sensitive Receiver |
|-------------------------|---------------------------------------|---------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 5 cm Front End Loader   | 72 dB(A) <sup>①</sup>                 | 46 dB(A)                  | 58dB(A)                                                                          | 12dB(A)                                                              |
| Crane                   | 77 dB(A) <sup>②</sup>                 | 46 dB(A)                  | 55dB(A)                                                                          | 9dB(A)                                                               |
| Excavator               | 79 dB(A) <sup>②</sup>                 | 46 dB(A)                  | 65dB(A)                                                                          | 19dB(A)                                                              |
| Piling                  | 83 dB(A) <sup>②</sup>                 | 46 dB(A)                  | 55dB(A)                                                                          | 9dB(A)                                                               |
| Concrete Agitator truck | 76 dB(A) <sup>②</sup>                 | 46 dB(A)                  | 60dB(A)                                                                          | 14dB(A)                                                              |

|                                   |                |          |         |         |
|-----------------------------------|----------------|----------|---------|---------|
| Concrete pump truck               | 80 dB(A)②      | 46 dB(A) | 56dB(A) | 64dB(A) |
| Hand Held Electric Jack Hammer    | 88 dB(A)①      | 46 dB(A) | 74dB(A) | 28dB(A) |
| Hand Held Tools                   | 74 dB(A)②      | 46 dB(A) | 62dB(A) | 16dB(A) |
| 20 Ton truck, with or without dog | 72 dB(A) @ 7m① | 46 dB(A) | 57dB(A) | 11dB(A) |
| 10 Tonne Excavator with Hammer    | 90 dB(A) @ 3m① | 46 dB(A) | 68dB(A) | 22dB(A) |
| 10 Tonne Excavator with Rock Saw  | 85 dB(A) @ 3m① | 46 dB(A) | 63dB(A) | 17dB(A) |

We note that from the calculated noise levels produce by noisy operations of the demolition, excavation and construction of this project, the Highly Affected limit of 75 dB(A) is not reached inside any closest sensitive receiver.

① *Library of Noise*

② *AS 2436-2010; Guide to noise and vibration control on construction, demolition and maintenance sites*

③ *EPA's Noise Affected Criteria*

## 6. PREPARATION OF CONSTRUCTION TIME TABLE

The Principal Contractor is recommended to complete the noise management plan and construction program, itemising the start and finish dates of each of the following major building stages. This program need not be the full building program as it is designed to be distributed to the immediate neighbours both beside and behind the site to provide them an idea of how long the noise will continue for each section of work.

## 7. CONSTRUCTION NOISE AND VIBRATION MITIGATION

### 7.1.1. Resolving Noise & Vibration Complaint Issues

The issue of the Construction Time table should be sufficient to provide the closest adjacent neighbours with an overall feeling and time frame of the project.

The Site is recommended to do the following;

1. Display a notice at the front of the property details of the following:
  - Builders name, principal address, fixed and mobile phone numbers, hours contactable,
  - Site Supervisor's fixed and mobile phone numbers
2. Instruct the Builder to keep a diary of any contact with neighbours that have raised a noise or vibration complaint
3. The Builder immediately advise the Nominated Council Officer and discuss the issue to attempt to modify onsite construction practices to alleviate the problem.

### 7.1.2.Unresolved Noise and Vibration Complaint Issues

During the demolition and excavation stage, the resulting noise may exceed the noise criteria for periods and we propose the following strategies and additional respite periods to be applied if there are any non resolved noise complaints from demolition and excavation works at the site. The unresolved noise complaints cut-off point occurs in either of the following two situations:

- When complaints have been received at site, unsuccessful attempts have been made by the Builder to diffuse the complaint, the Builder immediately advise the Nominated Council Officer for direction
- When nominated in writing as a unresolved noise complaints by the Nominated Council Officer for the site, the Nominated Council Officer to request the Acoustic Engineer to prepare a reply along with any recommendations to mitigate the cause of the complaint raised and the Owner and/or the Builder implement the changes to attempt to resolve the objections being raised.

### 7.1.3.Excavation And Construction Noise Monitoring

Although we do not expect it should a noise complaint be received, we recommend that when the nominated works proceeds, a hand held sound level metre be used to monitor the  $L_{Aeq\ t=15\ min}$  descriptor of the source of noise that was described in the complaint outside the residence who made the complaint, typically that would be at the closest sensitive receivers, the level measured adjusted by -10 dB(A) to account for attenuation through an open window and this level be compared with the criteria.

If the noise level determined is above the criteria, discuss and come to an agreement with the person making the complaint, suitable mitigation methods that can be employed including changes to work times, the duration that item of work is continuously carried out, the use of respite periods or alternatives that can be employed to attenuate the noise level to comply with the criteria or satisfy their sense of offense to the excavation or construction noise.

### 7.1.4.Excavation And Construction Vibration Monitoring

Although we do not expect it should a vibration complaint be received, we recommend that when the nominated works proceed, a vibration sensor be used to monitor that source of the induced velocity of the vibration on the outer wall of the adjoining closest sensitive receivers.

If the level of vibration being created is above the criteria, (though highly doubtful), discuss and come to an agreement with the person making the complaint mitigation measures that can be employed including changes to work times, apply respite periods or alternatives that can be employed to either reduce or attenuate the vibration level to comply with the criteria or satisfy their sense of offense to the excavation or construction vibration being created.

### 7.1.5.Douglas Partners Report On Geotechnical Investigation Recommendation

The Report on Geotechnical Investigation states the following within section 8.2

*The plans indicate that up to about 12.5m of excavation may be required for the basement floor levels. It is expected that the excavation will encounter shallow sandy fill and sand soils underlain by low and medium strength over medium and high strength sandstone bedrock. The fill and soil should be readily removed using conventional hydraulically operated earthmoving equipment with bucket attachments.*

*Sandstone bedrock excavation will require rock saws, rotary mill heads or hydraulic rock breaking equipment.*

## 8. CONCLUSION

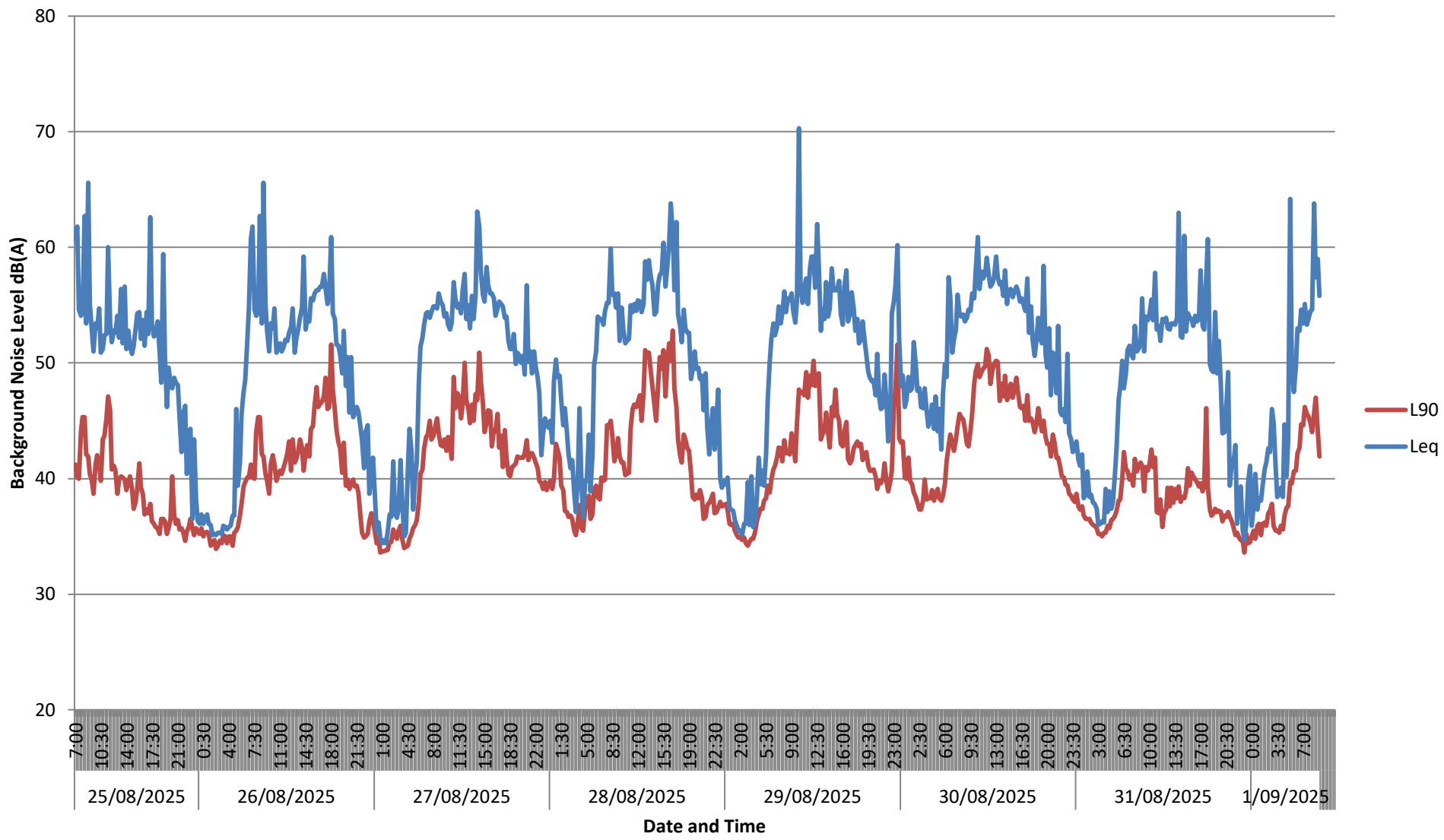
Based on the above calculations carried out within the report we believe that the demolition, excavation and construction will meet requirements within the EPA Construction Noise Guideline.

Typically, the biggest impact of noise and vibration is rock breaking and drilling during the excavation stage which would be carried out at ground level.

The proposed development involves the demolition of the existing buildings located on site, bulk earthworks of the site & major excavation for multiple basement levels to the maximum depth of approximately 12m below ground level. As stated within the Report on Geotechnical Investigation prepared by Douglas Partners states that the majority of the excavation would be Sandstone.

End of Report

**65 MUSTON STREET, MOSMAN**  
**Background Noise Monitoring Location #1**



## ATTACHMENT 2

The subsurface conditions encountered can be described as:

|                     |                                                                                                                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAVEMENT            | Steel reinforced concrete pavement – 100 mm thick at BH2 and 50 mm thick pavement at BH3.                                                                                                                                                                                                                        |
| FILL                | Variably compacted sandy clay and sand fill with sandstone gravel to depths of between about 0.3 m and 0.9 m.                                                                                                                                                                                                    |
| RESIDUAL SOIL       | Generally pale orange and grey, medium grained sand (possibly extremely weathered rock) to depths of between 0.3 m and 1.0 m depth.                                                                                                                                                                              |
| WEATHERED SANDSTONE | Generally, low to medium strength, moderately weathered, slightly fractured sandstone to variable depths of about 1 m to 4 m.                                                                                                                                                                                    |
| SANDSTONE           | Fresh, slightly fractured and unbroken, medium strength sandstone with more fractured very low strength and low strength bands to variable depths of 8.4 m to 12.5 m over fresh high strength sandstone extending to the base of all boreholes. Some steep joints (about 60°) were encountered in all boreholes. |