

18 May 2017

WM Project Number: 14288
Our Ref: LT180517 CondS96

Lee Thomson
Bloompark
Suite 3 Ground Floor 41 McLaren St
NORTH SYDNEY NSW 2060

Dear Lee

**Re: SCEGGS Redlands - SSD 6454
Revised Condenser Area for Stage 1 New Learning Hub**

A project application noise assessment was conducted and supported the SCEGGS Redlands Concept Proposal and Stage 1 development which was titled.

"SCEGGS REDLANDS, CREMORNE, Concept Proposal and Stage 1 Development Application - Construction & Operational Noise Report NO. 14288 Version B Dated May 2015."

The above report established site specific noise criteria for noise emissions from the development consistent with the condition of approval F7 as follows.

Noise Control — Plant and Machinery

F7. Noise associated with the operation of any plant, machinery or other equipment on the site, shall not give rise to any one or more of the following:

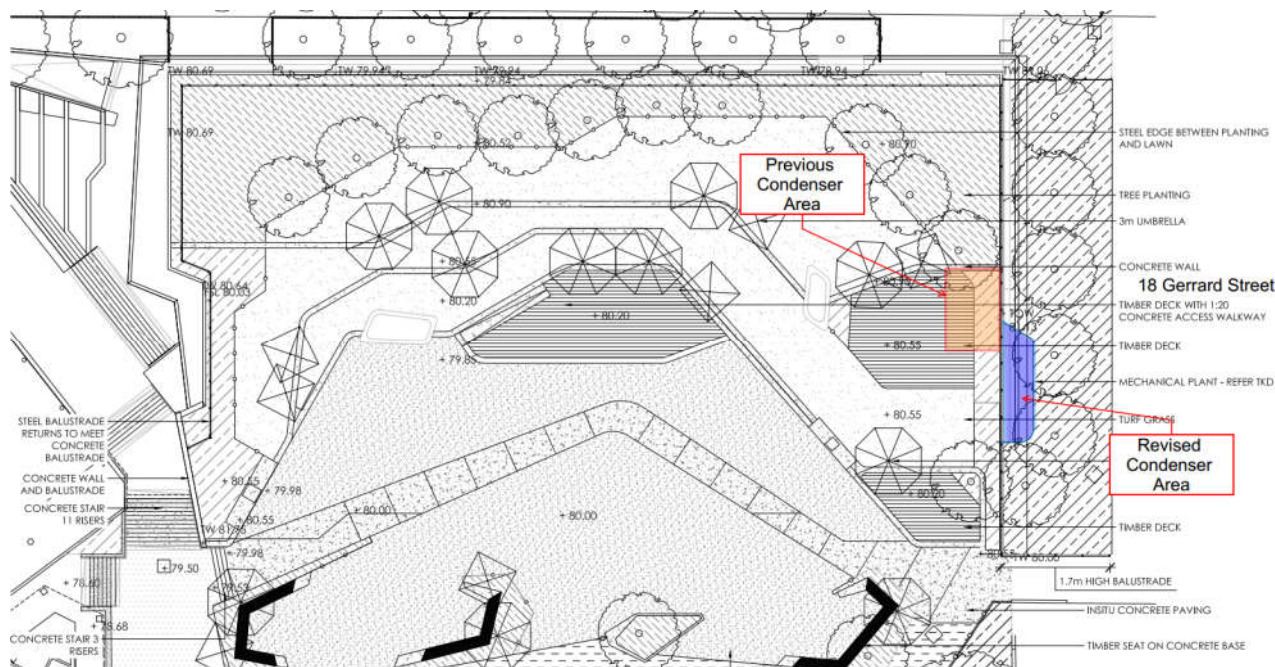
- a) Transmission of "offensive noise" as defined in the Protection of the Environment Operations Act 1997 to any place of different occupancy.*
- b) A sound pressure level at any affected residential property that exceeds the background (LA90, 15 minute) noise level by more than 5dB(A). The background noise level must be measured in the absence of noise emitted from the premises. The source noise level must be assessed as a LAeq, 15 minute.*
- c) Notwithstanding compliance with (1) and (2) above, the noise from mechanical plant associated with the premises must not exceed 5dB(A) above the background noise level between the hours of 12 midnight and 7 am.*

Since the approval, the location of the condenser plant area associated with the interim Music facility has been revised from a location on top of the landscaped area to a relocated and integrated into the podium structure approximately 2 metres to the East of the initially proposed location. As a result, the mechanical plant associated with this area is slightly closer to the residence at 13 Gerrard Street.

Accordingly, a review of selected plant and site specific noise criteria has been conducted to ensure that the acoustic amenity of residences is not compromised and is consistent with the project application report and the conditions of consent.

The location of the condenser plant areas is illustrated in the following Figure 1

Figure 1: Locations of Condensers Areas with respect to 18 Gerrard Street



Site Specific Noise Criteria for Mechanical Plant.

Section 4 of the project application acoustic report details site specific noise criteria. Noise criteria for residences on Gerrard Street, which are adjacent to the relocated condenser plant area are reproduced in the following table.

Project Specific Noise Criteria at Gerrard Street Residences- $L_{Aeq,15min}$ (dBA)

| Site | Site Specific Noise Criteria | | | |
|-------------------|------------------------------|---------------------|------------------------|--------------------------------|
| | Daytime 7am-6pm | Evening 6pm-10pm | Night Time 10pm-7am | Morning Shoulder 6am-7am |
| D – Gerard Street | 52 | 45 | 40 | 52 |

It is noted that the mechanical plant associated with this area consists of 3 air conditioning condensers. Two of which will run during the day period and one that may run up to 10 pm.

Noise Mitigation

Selected mechanical plant to be in the revised plan area is:

MECU-1 Mitsubishi PURY-P800YS-LMA Noise Level 65.5 dBA at 1m – 53 dBA at 1 m (night mode)

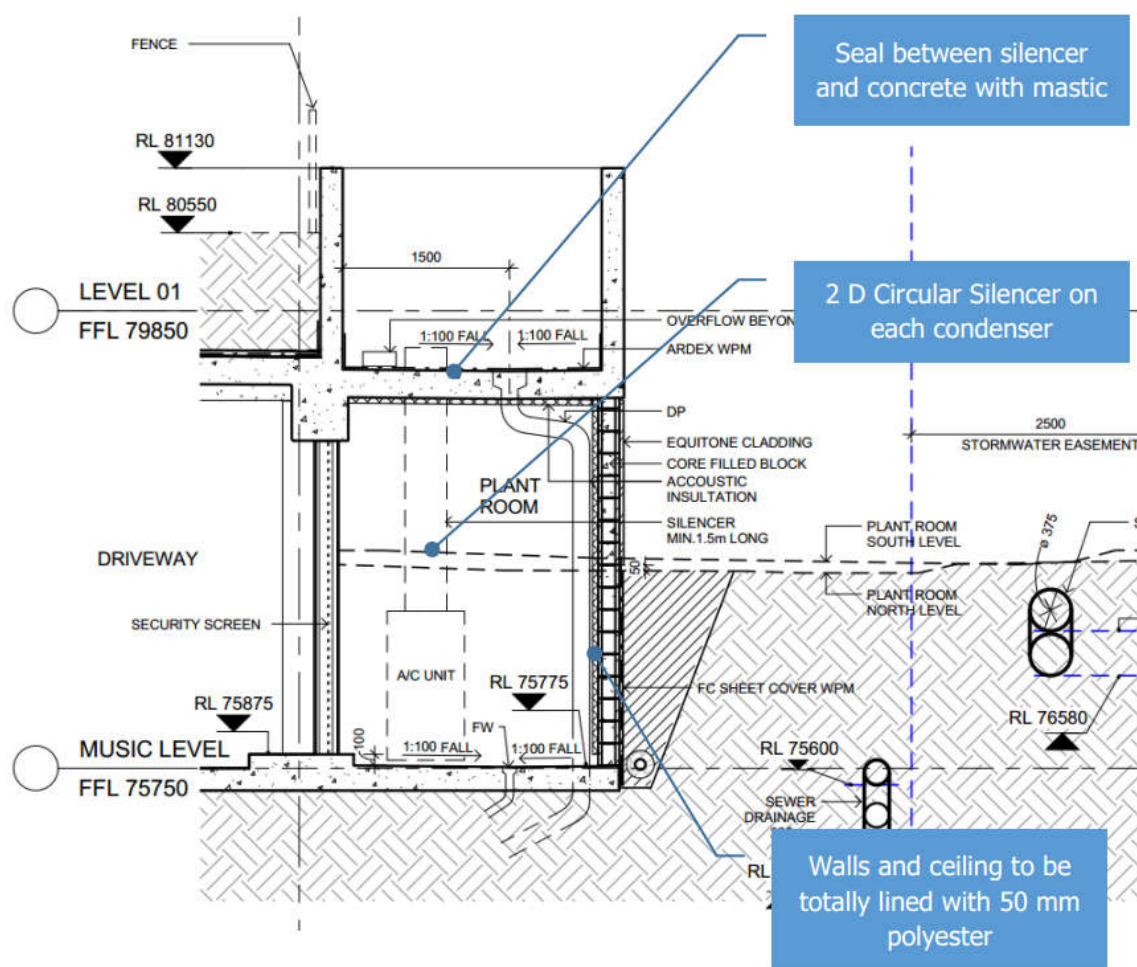
| | | |
|--------|----------------------------|---|
| MECU-2 | Mitsubishi PURY-P850YS-LMA | Noise Level 65.5 dBA at 1m – 53 dBA at 1 m (night mode) |
| MECU-3 | Mitsubishi PURY-P300YS-LMA | Noise Level 62.5 dBA at 1m – 50 dBA at 1 m (night mode) |

The revised location includes the following noise control measures that have been adopted to ensure that compliance with the site-specific noise criteria that has been detailed in the Project Application will be achieved and that the relocation of the plant room does not result in any additional environmental impact due to noise.

- The condenser plant is in a plant area that is contained in the new facility carpark below ground level. As a result, noise from the condenser intakes will be contained to the inside of the carpark.
- The outlets of the condensers have 2D circular silencer installed on top of the units.
- Internal walls are to be lined with acoustic absorption material.
- The condenser units that may operate in the evening are to be set on night mode to further reduce noise generated by the units.

These measures are illustrated in Figure 2:

Figure 2: Mitigation Measures



Conclusion

An assessment of the revised condenser plantroom to be relocated and integrated into the podium structure has been conducted with respect to site specific noise criteria consistent with the conditions of consent for the development.

Noise measures have been included into the design of the plant area to endure that the acoustic amenity of residences to the east at 18 Gerrard Street is protected. Accordingly, from an acoustic perspective, the change in the location of the plant area will be acceptable.

I trust this information is sufficient. Please contact us if you have any further queries.

Yours faithfully

WILKINSON MURRAY PTY LIMITED

A handwritten signature in black ink, reading "Brian Clarke". The signature is written in a cursive, flowing style with a large initial 'B'.

Brian Clarke
Senior Associate