



COMMERCIAL BUILDING C1

SSD 8529

BARANGAROO SOUTH

**ENVIRONMENTAL, CONSTRUCTION, AND SITE
MANAGEMENT PLAN**

ADDENDUM – Out of Hours Works

MARCH 2019

This Environmental, Construction and Site Management Plan (ECSMP) Addendum relates to an application for out of hours works at Barangaroo South.

An ECSMP was originally prepared in March 2018 as part of the project application. The following information in this Addendum updates the original ECSMP:

- a new section 3.2.6 describing crane and hoarding removal; and
- an updated section 5.1 which addresses noise and vibration issues generally.

Management and monitoring of noise and vibration generated from construction activity was originally addressed using measures in the *Barangaroo South; C1 Commercial Building - Construction and Operational Noise Report*. The existing *Noise & Vibration Management Sub-Plan* continues to be in use at the site, and has been updated to address the proposed out of hours works.

3.2.6 Crane and Hoarding Removal

Removal of the tower crane and hoarding around the C1 building would be undertaken out of standard working hours for safety of the public and construction staff. The hours of operation are outlined in the table below.

Activity	Days	Hours
Dismantling of Class B Hoarding	Mondays to Fridays	7pm-7am
Dismantling of Class A hoarding works	Sundays	8am-5pm
Dismantling of Tower Crane	Sundays	8am-5pm
Dismantling of Tower Crane Base	Sundays	8am-5pm
Paving works around the C1 Building	Sundays	8am-5pm
Services commissioning works (inside building)	Mondays to Fridays Saturdays and Sundays	7pm-7am 5am-7pm

Additional modelling undertaken by Wilkinson Murray in February 2019 assessed these proposed out of hours works in and around the C1 building. The modelled noise levels at sensitive receivers indicate that Interim Construction Noise Guideline goals would generally be met for the proposed out of hours works, and recommended additional measures for noise management.

The modelling of hoarding and crane removal assumed the following proposed equipment:

- 20 Tonne Franna Crane
- Hiab Truck
- 4 Tonne Forklift
- Scissor Lifts
- Impact Gun/ Rattle Gun to unscrew bolts

Mobile cranes and loading vehicles are proposed to be located in the existing loading zone in front of the C1 building on Hickson Road. The cranes and trucks may also occasionally need to use areas along Waterman's Quay adjacent to the C1 building for loading. Other equipment would be used around the perimeter of the C1 site as needed.

To manage the crane and hoarding removal out of standard working hours, additional measures are proposed which are further described in Section 5.1.

5.1 Noise & Vibration

The report from Wilkinson Murray dated July 2017 titled *Barangaroo South; C1 Commercial Building - Construction and Operational Noise Report* states that construction works and related activities would largely comply with construction noise management levels at surrounding residential receivers, and relevant vibration guidelines. Vibration is predicted to be imperceptible at the surrounding receivers.

Additional modelling undertaken by Wilkinson Murray in February 2019 titled *Barangaroo South Building C1, Application for Out of Hours Work Noise Assessment* assessed out of hours works in and around the C1 building. Again, the modelled noise levels at sensitive receivers indicate that Interim Construction Noise Guideline goals would generally be met for the proposed out of hours works. The letter recommended additional measures for noise management

Management Controls and Mitigation Measures

Noise and vibration would be managed as per the updated Noise & Vibration Management Sub-Plan. The Sub-Plan provides specific abatement guidance for the cumulative construction noise, which is the most likely process to exceed noise guideline levels. The primary mitigation measure is that the location of acoustically significant plant next to the T1 building should be avoided where possible.

The Sub-Plan has been updated to include proposed out of hours works, including removal of hoarding and cranes, paving and interior works.

The following additional measures are included in the updated Sub-Plan:

- Notifications in accordance with existing Community Communications Strategy. Ensure that this includes planned out of hours works such as crane and hoarding dismantling, and paving works.
- Focus early morning works on the southern and western side of the building during the night period where practicable and feasible, to reduce impact at receivers in Hickson Road.
- Instruct workers of the requirement to minimise noise emission to residences, including avoiding, as much as possible, metal hammering and rattle gun use.

Monitoring

Attended noise monitoring would be conducted:

- In response to complaints; or
- Where specific monitoring is needed.

Vibration monitoring would be conducted:

- In response to complaints, or
- Where specific monitoring is needed, for example, where vibration is produced near structures to confirm working distances.