



MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

Project:	Chatswood to Sydenham SSI-7400		
For period:	June 2024	Authorisation:	
Prepared by:			
Date of issue:	5 July 2024		

Introduction

EMM Consulting Pty Limited (EMM) presents the June 2024 AA Noise and Vibration Report for the Sydney Metro City and Southwest project as required by SSI 15_7400 A27 (g) vi.

A reference table for the acronyms used in this report is provided on the last page.

Acoustics Advisor (AA) Activity

- Review and/or endorsement of:
 - Barangaroo NVMR Oct 2023 to Mar 2024 Rev 1
 - CNISD CMR Oct 2023 to Mar 2024 Rev 0
 - Barangaroo Attended Vibration Monitoring Report for 25 Hickson Rd Rev 1
 - MTS ONVMP V02
 - Chatswood Dive Site – Remediation Works CNVIS V3
 - Chatswood Dive Site – Remediation Works – noise and vibration monitoring reports
 - WISD Raglan and Cope Street CNVIS Rev 2.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
 - CNISD CTR Q3 and Q4 2023
 - CNISD OOHWA 33.2 Pac Hwy Intersection Rev 8
 - CNISD OOHWA 41 Road milling Rev 1
 - CNISD OOHWA 42.3 Sydney Water Encasing Rev 5
 - CNISD OOHWA 43.2 Light pole installation Rev 2
 - CNISD OOHWA 47 TVS Louvres Rev 0
 - CNISD OOHWA 48 Electrical Outages Rev 1
 - CSM OOHWA 73 June to October 2024 V2
 - MPISD OOHWA 108 Public Domain Works Rev 6
 - MPISD OOHWA 109 Road Works Rev 1
 - PSISD OOHWA 63 April to June 2024 Rev 3
 - PSISD OOHWA 64 Project Works July to October 2024 Rev 0
 - VCISD OOHWA 33 Application for WAD intersection works Rev 1
 - WISD OOHWA 65 Raglan and Cope Culvert Rev C.
- Attendance at ongoing meetings with CNISD, VCISD, Barangaroo Station, PSISD, MPISD, and WISD contractors.

Inspections, audits and site visits

The following was completed:

- WISD observations at Raglan and Cope Street OOHWA 16 June 2024
- CNISD observations of light pole installation OOHWA 16 June 2024
- WISD inspection with ER on 20 June 2024
- MPISD inspection with ER on 21 June 2024.

Monitoring status

Real-time noise and vibration monitoring (with real-time access) is ongoing at CNISD, VCISD north and south (noise only), Barangaroo, PSISD south and MPISD (vibration only).

The PSISD PC is requesting a review of RTNM requirements for PSS following site handover to MTS which will restrict access to the noise monitor going forward. This is under review by AA.

The WISD contractor is operating real-time noise monitors to assist with site noise management. This is not a requirement of their CNVMP and is optional only. We have access to this data on an as-needs basis only (eg when complaints are received).

There have been sporadic outages of the VCISD south real-time noise monitor due to battery and/or modem issues. The extent of the outages has reduced after successful upgrades to the power supply yet there appear to be residual issues that recently caused a 3-day outage in late June. We've requested that the PC monitor this situation closely to minimise the potential for future lost data.

Noise and vibration complaints

Complaints from Chatswood Dive (x2), PSISD (x1), Tunnels (TSOM) (x1) and VCISD (x1) were received.

The complaint related to tunnels was from a stakeholder located near Waterloo station. This complaint is currently under investigation by the PC.

The two complaints from Chatswood Dive were for sheet piling works that were undertaken during standard construction hours and have been classed as unavoidable. The sheet piling works are now complete. The remaining complaints at PSISD and VCISD were for works that were allowed under approved OOHWA and were classed as unavoidable.

Initiatives, continual improvement and feedback

Due to the multiple active OOHWA at CNISD, EMM will be attending site on a regular basis to observe controls and undertake noise measurements to verify against the predictions. The main outcomes from these measurements will be reported back to the PC and Sydney Metro along with opportunities for improvement and lessons learned for future OOHWA. OOHWA in June 2024 was sporadic and one inspection was undertaken of light pole installation works.

Monthly attended noise monitoring at CNISD has no longer been conditioned by the AA and ER as part of the 24-hour fit-out and delivery OOHWA approval, due to diminishing risk levels of this work.

Non-compliances, incidents and events

No non-compliances related to acoustics.

Ongoing and upcoming environmental risks

- Overall, the key ongoing risk for the project from an acoustics perspective continues to be OOHWA relating to utilities and public domain works.

- At Chatswood Dive, the sheet piling works that were subject to several noise and vibration complaints over the past two monthly reporting periods are now complete. The demolition of slabs and footings using hydraulic hammer on excavators will continue for four to six weeks. Beyond this, works will be largely limited to excavation and loadout of contaminated materials principally involving excavators and truck and dogs. These activities would continue to be daytime and represent a much lower risk. Works are anticipated to be complete by end of August 2024.
- There are several active OOHWA in place at CNISD which are related to final utility and public domain works surrounding the station. Due to request by Sydney Metro, ER and AA, the PC is in the process of consolidating the various OOHWA into one to streamline the management of these works. In addition to the current commitments made with respect to noise mitigation and management, this consolidation will include the provision for up to four nights of work a week, with a night of respite after two consecutive nights of work.
- At VCISD, four to five weeks of public domain work have commenced at north and south sites. The south site works will be four consecutive nights a week. The north site work will be three nights a week with a respite night after the first two consecutive nights given the proximity and higher noise sensitivity of surrounding receivers to these works. Where possible, relatively noisier work will be complete during standard construction hours.
- Public domain works for MPISD are in the final stages. Extensions to OOHWA at MPISD are largely a result of limited works being completed under previous approvals and have been prepared to cover off remaining public domain works which are generally minor.
- Utility works are largely complete at PSISD with only some minor stormwater tie in required. Remaining works for PSN and PSS associated with public domain, include hoarding removal and minor façade works. Any minor building defects have been incorporated into the updated OOHWA for these activities as they require ROL or footpath possession from CoS.
- The majority of works at WISD are complete. Some remaining public domain works will be held off and completed under the OSD phase of the development. Extensions to OOHWA at WISD for lighting install, civil investigation and civil works (OOHWA 47 Rev 10, OOHWA 52 Rev 9 and OOHWA 54 Rev 9) are largely a result of limited works being completed under previous approvals following design issues, contractor availability, liaison with utility service providers and safety constraints.
- At WISD the design requirements for stormwater and asset protection have changed and enabled the OOH components to be significantly scaled down. It is currently anticipated that Wellington Street works will be completed during daytime hours. Half road closures are commenced on Raglan and Wellington Streets to alleviate worker safety concerns and to complete majority of works in standard hours. A phase of works for road milling and resurfacing on Wellington Street is still under review and assessment following feedback from the ER and AA. This remains ongoing and the request from the AA and ER is for the PC to complete Wellington Street and Cope Street during daytime hours.
- WISD culvert works for Raglan and Cope Street were effectively completed during the OOH period on 15/16 June 2024. However AA has just been advised that structural issues have been identified where the stormwater culvert crosses the sewer line that now poses an integrity and safety risk long term. Accordingly, there will be a further weekend of works involving up to two days, evenings and nights of continuous work mid to late July. An updated OOHWA and program will be reviewed prior to approval. Any remaining works are within existing road closure areas and can be completed during standard hours.

Recommendations (incl auditing):

Nothing to report.

Acronyms

AA	<i>Acoustics Advisor</i>
AMMs	<i>Additional Mitigation Measures</i>
CMR	<i>Construction Monitoring Report</i>
CSW	<i>City and Southwest</i>
CNISD	<i>Crows Nest Integrated Station Development</i>
CNVIS	<i>Construction Noise and Vibration Impact Statement</i>
CNVMP	<i>Construction Noise and Vibration Management Plan</i>
CNVMPR	<i>Construction Noise and Vibration Management Program Report</i>
CoS	<i>City of Sydney</i>
CSM	<i>Central Station Metro</i>
CTR	<i>Compliance Tracking Report</i>
DPHI	<i>NSW Department of Planning, Housing and Infrastructure</i>
ER	<i>Environmental Representative</i>
ISD	<i>Integrated Station Development</i>
LWW	<i>Line Wide Works</i>
MPISD	<i>Martin Place Integrated Station Development</i>
MTS	<i>Metro Trains Sydney</i>
NCR	<i>Non-Compliance Report</i>
NML	<i>Noise Management Level</i>
NVMP	<i>Noise and Vibration Monitoring Plan</i>
NVMR	<i>Noise and Vibration Monitoring Report</i>
NVAMR	<i>Noise and Vibration Annual Monitoring Report</i>
ONVMP	<i>Operational Noise and Vibration Management Plan</i>
OOH	<i>Out of hours</i>
OOHW	<i>Out of hours work</i>
OOHWA	<i>Out of Hours Work Application</i>
OOHWP	<i>Out of Hours Work Protocol</i>
OSD	<i>Over Station Development</i>
PC	<i>Principal Contractor</i>
PSISD	<i>Gadigal Station (formerly Pitt Street) Integrated Station Development</i>
PSN	<i>Pitt Street North</i>
PSS	<i>Pitt Street South</i>
ROL	<i>Road Occupancy License</i>
RTNM	<i>Real Time Noise Monitor</i>
SYAB	<i>Sydney Yard Access Bridge</i>
SWMC	<i>Southwest Metro Corridor</i>
TSOM	<i>Trains, Systems, Operations and Maintenance</i>
VCISD	<i>Victoria Cross Integrated Station Development</i>
WISD	<i>Waterloo Integrated Station Development</i>