



MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

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| Project: | Chatswood to Sydenham SSI-7400 | | |
| For period: | September 2024 | Authorisation: |  |
| Prepared by: |  | | |
| Date of issue: | 4 October 2024 | | |

Introduction

EMM Consulting Pty Limited (EMM) presents the September 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:
 - Chatswood Dive CNVIS Rev 4
 - MTS Operational Noise and Vibration Program Rev 1
 - PSISD CMR January to June 2024 Rev 1.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
 - CNISD OOHWA 51 Raised Pedestrian Crossing Rev 2
 - PSISD OOHWA 64 Project Works July to October 2024 Rev 03
 - WISD OOHWA 66 Grinding and Line Marking Rev E
 - WISD OOHWA 67 Footpath Reinstatement Works Rev C
 - WISD OOHWA 68 Facade Modification Rev B
 - WISD OOHWA 69 Defect Rectification Rev A.
- Attendance at ongoing meetings with CNISD, VCISD, Barangaroo Station, PSISD, MPISD, and WISD contractors.

Inspections, audits and site visits

The following was complete:

- CNISD observations of OOHWA 49 Pacific Highway intersection works 5 August 2024.

Monitoring status

Real-time noise and vibration monitoring (with real-time access) is ongoing at VCISD south (noise only), Barangaroo and MPISD (vibration only). The monitor at VCISD will remain installed post completion as it's also a requirement for the OSD to have real-time noise monitoring in place.

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).

The real-time noise and vibration monitor at Barangaroo will be demobilised in October 2024 as works will be finishing up.

Despite the project now being in its operational phase, it is anticipated that PCs would continue to prepare periodic construction monitoring reports in accordance with their CNVMPs where operator attended and/or unattended noise monitoring continues to be a requirement at their respective sites.

Noise and vibration complaints

Complaints from Chatswood Dive (x1), CNISD (x4), PSISD (x1), VCISD (x3) and PSISD (x1) were received.

One complaint at CNISD has been classed as avoidable which was caused by a hydraulic hammer that was used after 12am to remove a small section of road pavement during road milling and re-sheeting works on the Pacific Highway. This activity was subsequently classified as emergency works, given that removal of the asphalt using alternate 'lower noise' means was not feasible in this instance and therefore the hydraulic hammer was used so that the works could be complete and the road returned to a safe condition for the following day's traffic.

Remaining complaints were for approved OOHW activities and have been classed as unavoidable.

Initiatives, continual improvement and feedback

Nothing to report.

Non-compliances, incidents and events

Nothing to report with respect to noise and vibration.

Operational noise and vibration

The measurements undertaken at 344 Mowbray Road in August 2024 indicate that ground-borne noise and vibration levels satisfy the commitments made in the Track Attenuation and Operational Ground-borne Noise Review that was prepared to address Condition D9. EMM will be undertaking further operational ground-borne noise and vibration measurements at 344 Mowbray Road in response to additional complaints that have been received from residents, as well as verifying baseline noise levels at 342 Mowbray Road, now that the project is operational. This monitoring is planned mid-October 2024.

In addition, noise and vibration measurements along the full project alignment as required by the Operational Noise and Vibration Monitoring Program (Condition D13) are planned to start in October 2024 and EMM will be closely involved in the technical peer review process of this work.

Ongoing and upcoming environmental risks

- Overall, most of the OOHW relating to utilities and public domain works across ISDs is now complete, with only minor rectification and defect work at select sites.
- At Chatswood Dive, the remediation works continue with the demolition of slabs and then excavation and loadout of contaminated materials principally involving excavators and truck and dogs. Currently a phase of backfilling and compaction is also occurring. All work is proposed during standard construction hours.
- At CNISD, public domain and utilities work in accordance with approved OOHWA 49 is now complete. There may be the need for minor defect work in October 2024.
- Similarly at VCISD, the public domain work at south and north sites are largely complete, with only minor works remaining at the south site which are planned for completion early October 2024.
- At Barangaroo, the final night of the Hickson Road traffic switch works is complete, with all remaining work occurring during standard hours only.

- Public domain works for MPISD are complete. A small scope of works is being conducted OOH for the MLC stairs captured under OOHW 104 Rev 3 with noise levels predicted to be NML compliant. An additional scope of works for final roadworks for MPSID are approved under OOHWA 109 Rev 3.
- 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 City of Sydney.
- Most works at WISD are complete. Some remaining public domain works will be held off and completed under the OSD phase of the development. Main outstanding works relate to resurfacing of Botany Road and Botany Road west footpath, some minor defect works and ventilation system grille adjustments as part of station ventilation system.

Recommendations (incl auditing):

Nothing to report.

Acronyms

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| 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> |