


MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

Project:	Chatswood to Sydenham SSI-7400		
For period:	February 2024	Authorisation:	
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Introduction

EMM Consulting Pty Limited (EMM) presents the February 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 Activity

- Review and/or endorsement of:
 - CNISD January Noise Monitoring Report Rev 0
 - LWW Chatswood Remediation CNVIS Rev 0
 - PSISD Attended Noise Measurement Report Rev 1, Rev 2 and Rev 3
 - PSISD CMR Q3 and Q4 2023 Rev 0.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
 - CNISD OOHWA 32 Clarke Street Paving Rev 2
 - CNISD OOHWA 33 Pacific Highway Intersection Works
 - CSM OOHWA 71 V3 Tiling
 - MPISD OOHWA 108 Public Domain Works Rev 3
 - PSISD OOHWA 59 Rev 5
 - VCISD OOHWA 29 Berry St High Voltage Works Rev 1
 - VCISD OOHWA 31 Traffic Loop Reconnection Works Rev 0
 - WISD OOHWA 52 Civil Investigations Rev 8
 - WISD OOHWA 63 Oversize Shed Removal Rev A.
- Attendance at ongoing meetings with CNISD, VCISD, Barangaroo Station, PSISD, MPISD, and WISD contractors.

Inspections, audits and site visits

The following was completed:

- WISD inspection with ER on 8 February 2024
- CNISD OOH inspection with ER and DPHI on 14 February 2024
- MPISD inspection with ER on 14 February 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 (noise only), and MPISD (vibration only).

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 VCISD PC has requested discontinuation of real-time noise monitoring at the north site. This is because the risk of airborne noise levels impacting the community to the extent of needing a RTNM network is diminishing, and the risk of exceeding Condition E38 is low based on recent noise monitoring results and planned future fit-out, testing and commissioning works. This request is currently under review by the AA whilst we await the most recent construction noise and vibration monitoring report.

Noise and vibration complaints

Complaints from CNISD (x5), VCISD (x1) and PSISD (x3) were received. All complaints were in relation to OOH (utilities) and have been classed as unavoidable by the respective PCs.

The five complaints at CNISD were from two separate complainants and were in relation to the Pacific Highway intersection OOH works.

The complaints at PSISD were in relation to OOH on Pitt Street, with two coming from Kimpton Margot Hotel (KMH) and one from Princeton apartments.

In terms of KMH, there have been some ongoing complaints raised by Duty and Night Managers and Door Men. Attended measurements in January 2024 confirmed external noise levels in accordance with noise predictions. In terms of noise within the KMH rooms, measured internal noise levels are lower than predictions due to a higher than assumed noise attenuation across the façade. The PC and KMH are in ongoing regular communication on how best to manage noise impacts.

Initiatives, continual improvement and feedback

Monthly attended noise monitoring continues at CNISD which has been conditioned by the AA and ER as part of the 24-hour fit-out and delivery OOHWA approval. The monitoring is undertaken by the PCs acoustic consultant. This has been a useful means of monitoring performance and identifying opportunities for continual improvement. The past iteration of this monitoring focussed on the Pacific Highway intersection works.

At PSISD, earlier ROLs have been secured for Pitt Street to assist in commencing works earlier (1 lane from 6.00pm and two lanes from 8.00pm) and either stopping works earlier in the night, or providing a few extra hours of productivity. The use of this time is being negotiated between the PC and KMH.

The CNISD PC has successfully removed the Site B tower crane during standard hours. The initial plan was to undertake this work during OOH periods, consistent with the method used for the Site A tower crane, due to the need to occupy Pacific Highway with a large mobile crane under ROL. The PC identified the opportunity to place the mobile crane on the newly constructed Hume Street bridge which meant that the crane disassembly, load-out and transport offsite could be undertaken during standard hours. The removal of the Site A tower crane was a disruptive package of work for the community, so the re-working of the Site B tower crane removal methodology presented a positive outcome in minimising OOH noise impacts.

Non-compliances, incidents and events

Nothing to report in relation to noise and vibration.

Ongoing and upcoming environmental risks

- At CNISD, the Pacific Highway intersection works at Oxley and Hume Streets continue. We understand there are eight shifts remaining at Oxley Street and ten shifts at Hume Street where hammering, sawing, excavator, and vacuum truck use are required which will generate moderate to high noise levels. Beyond these shifts, works will be generally limited to lower noise activities

such as installation of light poles, cable pulling and commissioning works. These works are currently scheduled weekly across Sunday, Monday and Wednesday nights, with expected completion in April/May 2024. Hammering and sawing activities occur prior to midnight only. Earlier ROLs have been secured from Transport for NSW which have reduced the overall shifts required. We continue to monitor these works closely with a particular focus on ensuring noise controls such as noise blankets and noise tents are used wherever feasible and reasonable and installed in accordance with best practice.

- Public domain works at CNISD are progressing and will continue sporadically for the coming months during standard construction hours. Most of these works will be on Clarke Street, Crows Nest.
- At CNISD, small sections of capping beam positioned centrally within the site will be progressively removed once access is established. The largest remaining section is near the Pacific Highway boundary near Hume Street. Remaining sections will be removed using hydraulic hammers mounted to excavators during standard construction hours.
- Utility works continue at PSISD and WISD. The majority of WISD works are complete. Whilst an additional phase of public domain works is anticipated for March and April. OOHW is required due to ROL requirements and footpath permits from Council.
- Extensions to OOHWA at WISD are largely a result of limited works being completed under previous approvals following design issues, contractor availability and liaison with utility service providers.
- An OOHWA was submitted for the removal of the ISD site offices located between Botany Road and Wyndham Road, requiring two nights work and a contingency for a third night was included. This work is planned for March 2024.
- 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. However the PC is in ongoing negotiation for this to also occur on Raglan Street subject to worker safety concerns. This phase of works is still under review and assessment following feedback from the ER and AAs.

Recommendations (incl auditing):

Nothing to report.

Acronyms

AMMs	<i>Additional Mitigation Measures</i>
CMR	<i>Construction Monitoring Report</i>
CTR	<i>Compliance Tracking Report</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>
CSM	<i>Central Station Metro</i>
DPE	<i>NSW Department of Planning and Environment</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>
NCR	<i>Non-Compliance Report</i>
NML	<i>Noise Management Level</i>
NVA	<i>Noise and Vibration Assessment</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>
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>
OSOM	<i>Over Size, Over Mass</i>
PCB	<i>Precast Beams</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>
SSJ	<i>Sydenham Station Junction</i>
SWMC	<i>Southwest Metro Corridor</i>
TSOM	<i>Trains, Systems, Operations and Maintenance</i>
TSS	<i>Traction Substation</i>
VCISD	<i>Victoria Cross Integrated Station Development</i>
WISD	<i>Waterloo Integrated Station Development</i>