


## MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

<b>Project:</b>	<b>Chatswood to Sydenham SSI-7400</b>		
<b>For period:</b>	<b>August 2022</b>	<b>Authorisation:</b>	
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<b>Date of issue:</b>	7 September 2022		

### **Introduction**

EMM Consulting Pty Limited (EMM) presents the August 2022 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.

### **Acoustic Advisor Activity**

- Review and/or endorsement of:
  - Barangaroo Noise and Vibration Monitoring Report September 21 to March 22 Rev 0 (review only);
  - CSM Construction Noise and Vibration Management Plan Rev 13 (review only);
  - LWW Waterloo Cable Pulling CNVIS Rev 4; and
  - WISD Construction Noise and Vibration Management Plan Rev 3.
- Review and endorsement of out of hours work applications (OOHWA) and extensions for:
  - Barangaroo OOHWA10 Escalator Delivery Rev 0;
  - LWW OOHWA236 Surry Hills BPS Randle Lane HV Cabling Rev 0 and Rev 1;
  - LWW OOHWA239 Waterloo Cable Pulling Rev 0;
  - MPISD OOHWA96 North Site Ausgrid connection works Rev 1;
  - MPISD OOHWA95 North Site hoarding works Rev 1;
  - PSISD OOHWA41 Footpath works Rev 3;
  - PSISD OOHWA43 Rev 6;
  - PSISD OOHWA44 Crane Installation Rev 5; and
  - WISD OOHWA42 Rev 3.
- Attendance at Sydney Metro and DPE monthly meeting, and ongoing meetings with CNISD, VCISD, Barangaroo Station, PSISD, MPISD, CSM and WISD contractors.

### **Inspections, audits and site visits**

The following was done:

- CNISD inspection with ER on 19 August 2022; and
- CSM inspection with ER on 24 August 2022.

### **Monitoring status**

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

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).

### **Noise and vibration complaints**

- Complaints from Chatswood (x2), Crows Nest (x6), Barangaroo (x4) and Waterloo (x2) were received:
  - the complaints at Chatswood and Waterloo were caused by approved OOH works and classified as unavoidable;
  - the complaints at Crows Nest were caused by standard construction hours demolition of the Hume Street Bridge using excavators with hydraulic hammers. All complaints were from commercial receivers in relation to noise and vibration from the works. Follow up actions from the contractor included detailed community consultation and noise and vibration measurements by the contractor's acoustics consultant. We are yet to see the noise and vibration monitoring report, however we are reasonably satisfied with the contractor's response based on the evidence seen to date. These works are now complete.
  - the four complaints at Barangaroo were from one resident about a range of matters including OOH noise during the recent Hickson Road steel beam removal and escalator delivery which required an ROL and therefore out of hours work. We are reasonably satisfied with the contractor's response which included ongoing consultation with the resident and noise measurements at a location representative of the complainant's house. These works are now complete.

### **Initiatives**

- Attended noise monitoring records are requested by EMM on a regular basis to verify that the appropriate level of information is being recorded by noise monitoring personnel and overall adherence to CNVMP and NMP requirements.

### **Non-compliances, incidents and events**

- Nil.

### **Ongoing and upcoming environmental risks**

- At Barangaroo, there is continued detailed demolition of structure below Hickson Road and of a capping beam using hydraulic hammers fitted to excavators. The contractor has explored alternate methods such as the use of pulverisers, however hydraulic hammers were required due to site constraints. We have reinforced with the contractor the requirement to consider alternate methods to hydraulic hammers and will continue to monitor this during future demolition scope.
- OOH works, particularly long running concrete pours and/or oversize deliveries at ISD sites at WISD, PSISD, VCISD and CNISD will continue.
- A significant phase of utilities works will continue at PSISD and WISD. OOHW is required due to ROL requirements and footpath permits from Council.
- Capping beam removal will continue at WISD during standard construction hours. The alternative lower noise method of wire saw and core drilling (consistent with successful removal of capping beam at PSISD) is being used where feasible and has proved to provide additional benefits in terms of dust suppression and smaller exclusion zones on site.
- Most ISDs are now approaching or are at/above ground level with noise levels increasing and works being more visible to the community and nearest noise-sensitive receivers. This increases the risk of noise impacts and complaints and will be monitored closely.

- Public domain works will be starting at Crows Nest in the coming months. This will require a substantial scope of utilities works of which some will be required OOH to facilitate utility service provider requirements.

**Recommendations (incl auditing):**

Nil

**Acronyms**

<i>CNISD</i>	<i>Crows Nest Integrated Station Development</i>
<i>CNVIS</i>	<i>Construction Noise and Vibration Impact Statement</i>
<i>CNVMP</i>	<i>Construction Noise and Vibration Management Plan</i>
<i>CSM</i>	<i>Central Station Metro</i>
<i>DPE</i>	<i>NSW Department of Planning and Environment</i>
<i>ER</i>	<i>Environmental Representative</i>
<i>ISD</i>	<i>Integrated Station Development</i>
<i>LWW</i>	<i>Line Wide Works</i>
<i>MPISD</i>	<i>Martin Place Integrated Station Development</i>
<i>NVA</i>	<i>Noise and Vibration Assessment</i>
<i>NVMP</i>	<i>Noise and Vibration Monitoring Plan</i>
<i>OOH</i>	<i>Out of hours</i>
<i>OOHW</i>	<i>Out of hours work</i>
<i>OOHWA</i>	<i>Out of Hours Work Application</i>
<i>OSOM</i>	<i>Oversize, overmass</i>
<i>PSISD</i>	<i>Pitt Street Integrated Station Development</i>
<i>ROL</i>	<i>Road Occupancy License</i>
<i>SSJ</i>	<i>Sydenham Station Junction</i>
<i>TSS</i>	<i>Traction Substation</i>
<i>VCISD</i>	<i>Victoria Cross Integrated Station Development</i>
<i>WISD</i>	<i>Waterloo Integrated Station Development</i>