

# ACOUSTICS ADVISOR MONTHLY REPORT

## SYDNEY METRO WEST (SSI 10038 and SSI 19238057<sup>1</sup>)

For period:	April 2025	Authorisation:	Dave Anderson, Acoustics Advisor
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Date of issue:	7 May 2025		

Acoustics Advisors		
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Document review		
Document	Reviewed	Endorsed / approved
<b>Central Tunnelling Package (CTP), AFJV</b>		
Weekly Noise Reports to 28 February, all of March and up to 27 April	Y	N/A
<b>Western Tunnelling Package (WTP), GLC</b>		
Unwin Street Tree Removal DNVIS	Y	N/A
Construction Noise and Vibration Monitoring Report July 2024 to January 2025	Y	9 April 2025
DNVIS Priddle and Hawkesbury Roads	Y	28 April 2025
XP78 – 14 Oak Street vibration monitoring data	Y	N/A
Main DNVIS Rev T	Y	30 April 2025
<b>Eastern Tunnelling Package (ETP), JCG<sup>1</sup></b>		
Hunter Street Station DNVIS addendum – OOHW during / after shed removal, Rev 2	Y	3 April
Pymont Station DNVIS addendum – nozzle excavation, Rev 2	Y	10 April
Tunnelling DNVIS Rev 6	Y	Under review
Noise and Vibration Monitoring Report March 2024 to March 2025, Rev A	Y	Under review
Pymont Station DNVIS addendum – tunnelling support, Rev 2	Y	Under review
Noise and vibration Management Plan + Monitoring Program – annual update Rev 4	Y	Under review
Weekly realtime monitoring data to 28 April '25	Y	N/A

Inspections / site visits		
Date	Location(s)	Details
2 April	WTP Parramatta, Sydney Olympic Park, Westmead	Larry Clark joined ER inspection
	Discussion on CFA piling at 240 Church Street not requiring noisy shaking of auger, and not requiring noisy breakback because they are temporary works and the pile is trimmed when the concrete is wet. Discussion on CFA piling machine spoke attachment for cleaning the auger. Subsequent discussions concluded that this attachment could only be used on CFA machines and not on bored piling machines, which can generate high noise levels when the auger is shaken to dislodge spoil. Discussion on shed demolition at Westmead: GLC looking at options. Fan and cover noted on substation, due to overheating, in north east corner of the WMD site. GLC to follow up.	
3 April	CTP Burwood North and Five Dock.	Larry Clark joined ER inspection
	Tonal beeper on Telehandler 58718 E. AFJV to have it replaced with a broadband squawker. Discussion on noise blankets being placed around diaphragm pump, audible across Second Avenue from the partly dismantled shed at Five Dock east.	

<sup>1</sup> Sydney Metro West Concept and Stage 1 (SSI 10038), Sydney Metro West Stage 2: Bays to Sydney CBD (SSI 19238057) shown in italics

3 April	Pymont West	Dave Anderson attended to witness ground borne noise monitoring
	74t excavator operating with hammer attachment in Pymont West shaft site. Access not available to 28 Paternoster Row so AA carried out independent spot readings of ground borne vibration along the street (approx. 1315 to 1415) to gauge the extent of likely ground borne noise and vibration impact. Witnessed JCG monitoring in foyer of TBWA building opposite the site (approx. 1430 to 1500) with smaller hammers operating; levels reached 50dBA at times but were generally lower and within ambient. While on site, AA noted a spoil truck blast the horn unnecessarily while waiting at traffic signals at Pymont Street / Pymont Bridge Road junction; JCG has since reiterated driver behaviour expectations at haulage contractor toolbox talks.	
3 April	Hunter Street and Pymont	Dave Anderson OOHW inspection (approx. 2200 to 0130)
	<p>Attended by DPHI compliance, the ER, Sydney Metro environment and comms reps and JCG environment coordinator. Visited Pymont sites between approx. 2200 and 2345, then Hunter Street 0000 to 0030, then returned to Pymont 0045 to 0130. Notes:</p> <ul style="list-style-type: none"> <li>• Pymont <ul style="list-style-type: none"> <li>○ Spoil truck operation at Pymont East well coordinated, with trucks arriving and departing in pairs, shed doors kept closed as much as possible, considerate driver behaviour.</li> <li>○ Gantry crane tonal alarm at Pymont East just audible externally, but notably louder at Pymont West. JCG has since reduced the volume.</li> <li>○ Concrete trucks parked and idling in Pymont Street and Pymont Bridge Road at approx. 0125, awaiting entry to Pymont East site. JCG environment coordinator responded immediately and JCG has since reiterated the plan, including the layby area on Pymont Bridge Road</li> </ul> </li> <li>• Hunter Street <ul style="list-style-type: none"> <li>○ Spoil trucks parked on O'Connell Street, not idling, but one driver switched on in-cab sound system and briefly played loud music; JCG environment coordinator responded immediately and JCG has since reiterated driver behaviour expectations at haulage contractor toolbox talks.</li> </ul> </li> </ul>	
8 April	CTP Burwood North and Five Dock	Larry Clark OOHW inspection
	Observe signage works along Parramatta Road frontage at Burwood North – no issues. Diaphragm pump audible across Second Avenue from the partly dismantled shed at Five Dock east. It was noted that the closest and potentially most affected resident had the front door open, suggesting that the noise was not causing them a disturbance.	
9 April	WTP Clyde MSF East, MSF West, Clyde Dive, Rosehill	Larry Clark joined ER inspection
	Discussions on tree removal next to James Ruse Drive; mulching and stump grinding to be done the next day, not OOH. Observe vibration monitor installed at RTA heritage façade in preparation for breaking of adjacent concrete hardstand, and discussion on concrete between works and façade having been pre-cut. Observe day only hydroblasting down in station box at Rosehill. Discussion on measurement of noise levels of vent fans that will be moving to Parramatta, and consideration of station box reverberation.	
15 April	ETP Hunter Street East and West, Pymont East and West.	Larry Clark joined ER inspection.
	Tonal beeper alarm noted on EWP at Hunter St east – since removed from site. Discussion on respite hours not applying to hammering in the niche, and confirming 5dB penalty for Highly Noise Intensive Works included. Noted good respite hours signage around sites. Discussion on gantry crane alarm at Pymont west, which was not heard outside the shed during the inspection. Discussion on ventilation louvres recently installed on compressor shed timed to shut at 6pm and reopen at 7am. Doors on acoustic sheds shut. Hammering ground borne noise and vibration experienced in the lower floor of 60 Union Street.	
17 April	CTP Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays.	Larry Clark joined ER inspection
	Discussions on: works happening at each site post construction and handed over to transitional services; loud crane alarm at Five Dock; activities at sites over Easter and Anzac Day shutdown period.	

Meeting		
Date	With	Purpose
7, 14, 28 April	AFJV, Sydney Metro, ER	Environment meeting, CTP
7, 22 April	Sydney Metro, GLC, ATC	Fortnightly works status
1, 8, 15, 29 April	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP

16, 30 April	Sydney Metro, GLC, ER	Environment meeting, WTP
14 April	DPHI, ER	Monthly meeting with DPHI compliance
1 May	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals

### Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
3 April	ETP / Pyrmont: see notes from inspection above re: gantry crane alarm at Pyrmont West and OOH deliveries

### Examples of good practice in noise and vibration management

Date	Contract / Location and details
3 April	ETP / Pyrmont East: well coordinated OOH spoil truck movements, with considerate driver behaviour

### Ongoing and upcoming noise and vibration risks

#### ETP:

- Pyrmont: Cavern excavation continuing 24/7, spoil haulage and deliveries underway 24/7 (under an EPL variation), TBM tunnelling progressing and cross passage excavation underway.
- Hunter Street: shaft excavation and piling works by day, ongoing OOH tunnelling support works at Hunter Street East

#### CTP:

- With the exception of Five Dock, All CTP sites are now demobilised and handed over
- Shed demolition and demobilisation at Five Dock due to be complete in early May

#### WTP:

- Clyde acoustic shed demolition, ongoing tunnelling and cross passage works between Rosehill and Parramatta

## Noise and vibration complaints

13 noise and vibration complaints attributed to Sydney Metro during April (8 of which were from Pyrmont and 3 from Hunter Street):

Location / activity	Standard hours	Out of hours	Both standard and out of hours
Westmead			
Parramatta			
Clyde / Rosehill			
Sydney Olympic Park			
North Strathfield			
Burwood North			
Five Dock	1		1
The Bays			
Pyrmont	3	4	
Hunter Street	3		
Tunnelling ETP CTP WTP		1	
<b>Total</b>	<b>7</b>	<b>5</b>	<b>1</b>

Note: The chart shows noise and vibration (NV) complaints in standard hours and out of hours (OOH) periods. Some complaints relate to both time periods so the total number of NV complaints shown here may be less than the sum of standard and OOH complaints.

