

# ACOUSTICS ADVISOR MONTHLY REPORT

## SYDNEY METRO WEST - Stage 1 (SSI 10038), Stage 2 (SSI 19238057<sup>1</sup>) and Stage 3 (SSI 22765520<sup>2</sup>)

For period:	June 2025	Authorisation:	Larry Clark, Acoustics Advisor
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Acoustics Advisors		
Dave Anderson, Larry Clark, David Hanson and Sav Shimada		
Document review		
Document	Reviewed	Endorsed / approved
<b>Central Tunnelling Package (CTP), AFJV</b>		
May 2025 monthly noise monitoring report 28 April to 31 May 2025	Y	N/A
Noise and Vibration Monitoring Report January to May 2025	Y	Under review
Q1 (Jan to Mar 2025) Stage 1 D51 Outcomes of Consultation Report	Y	N/A
<b>Western Tunnelling Package (WTP), GLC</b>		
Main DNVIS Rev V	Y	5 June 2025
Noise and Vibration Management Plan Rev I	Y	24 June 2025
<b>Eastern Tunnelling Package (ETP), JCG<sup>1</sup></b>		
Noise and vibration Management Plan + Monitoring Program – annual update Rev 5	Y	3 June 2025
Pymont Station DNVIS and tunnelling DNVIS addendum – alternative excavation techniques, Rev 3	Y	12 June 2025
DNVIS Addendum Pymont TBM Support Rev 6	Y	13 June 2025
DNVIS Addendum Hunter Street East Mined tunnelling Rev 2	Y	25 June 2025
Q1 (Jan to Mar 2025) Stage 2 D37 Outcomes of Consultation Report	Y	N/A
Weekly realtime monitoring data to 22 June 2025	Y	N/A
DNVIS Addendum Pymont TBM Support Rev 7 – including Union St concrete pours		Under review
DNVIS Addendum Hunter Street – Skinners Hotel Strengthening Rev 0		Under review
Attended monitoring data from Hunter Street and Pymont	Y	N/A
<b>Stage 3<sup>2</sup></b>		
<u>Low Impact Works assessment for Clyde / Rosehill pothole / slit trenching early works investigations</u>	<u>Y</u>	<u>Under review</u>
<u>Clyde / Rosehill pothole / slit trenching early works investigations – OOHW application 001</u>	<u>Y</u>	<u>Under review</u>

Inspections / site visits		
Date	Location(s)	Details
4 June	WTP MSF East and West, Rosehill, Clyde dive	Larry Clark joined ER inspection
	Discussion on vibration monitoring results at RTA façade during adjacent excavation and upcoming vibratory rolling. Observation of good, extensive noise mats setup across an opening of the ATC Stables lap and cap fencing near the north west corner of MSF West. No noise or vibration issues at Rosehill. Discussion at Clyde Dive on vibration trigger for ATC stables for upcoming works adjacent the boundary.	
5 June	CTP Sydney Olympic Park, North Strathfield, Burwood North	Larry Clark joined ER inspection
	High Noise Impact Activity of hammering out ramp within tunnel portal at Sydney Olympic Park. Action: works other than Low Impact Works to be monitored attended where real time unattended monitoring has	

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

<sup>2</sup> Sydney Metro West stage 3: Rail infrastructure, stations, precincts and operations (SSI 22765520) shown underlined

	ceased. Tonal movement beeper on a forklift to be replaced with a broadband squawker. ER report notes this action closed. No noise or vibration issues at North Strathfield. Hyroblasting of nozzle defects at Burwood North not Low Impact Works and to be monitored attended with the real time unattended monitoring having ceased.	
11 June	WTP Parramatta, Westmead	Larry Clark joined ER inspection
	Generators running 24/7 at Parramatta but well attenuated and quiet, and to not be needed soon. Discussion on electric, and attenuation if diesel, tower crane possibly to be used for demob at Westmead.	
12 June	CTP The Bays, Five Dock	Larry Clark joined ER inspection
	No noise or vibration issues at The Bays. High Noise Impact activity of hammering in Five Dock west station box, with real time unattended monitoring still in place.	
17 June	ETP Pyrmont, including caverns	Dave Anderson joined ER inspection
	Some trucks noted to be noisier than others and JCG subsequently reviewed the service history and exhaust system of one of the trucks identified. Cavern excavation noted to be primarily via roadheader, but some hammering required to break up larger rock elements and to trim the invert edges.	
18 June	WTP Clyde Dive	Larry Clark joined ER inspection
	Discussion on vibration trigger for ATC stables for upcoming works adjacent the boundary. Observation of good noise mat setup adjacent to generator near tower crane and grout delivery station location – soon to cease with substation to be energised.	
18 June	ETP Pyrmont east and west, Hunter Street east and west	Dave Anderson and Larry Clark OOHW inspection
	Observations and measurements of truck entries to, and exits from, Pyrmont east acoustic shed. Observation of open personnel door at Pyrmont west, immediately closed by JCG environment representative, and subsequently actioned with “Keep Door Closed” sign posted on the door. Scissor lift observed with tonal movement beeper. JCG advised subsequently that its replacement with a broadband squawker had been organised. Observation of a noisier spoil truck, to be looked into by JCG. Observation of quiet reverse movement of OSOM delivery into Hunter St east site.	
19 June	CTP Sydney Olympic Park, Burwood North, Five Dock	Larry Clark joined ER inspection
	No noise or vibration issues.	
24 June	ETP Hunter St east and west, Pyrmont east and west, The Bays (tunnel and X passages 10, 11, 12)	Larry Clark joined ER inspection
	Discussion at Hunter St on hammering under CoA D39. Observations and discussion on close out of actions from OOHW inspection 18 June.	
25 June	WTP Parramatta, Westmead	Larry Clark joined ER inspection
	Discussion on noise when TBM shield commences cutting into vertical wall in Parramatta station box after transit, and agreement to do attended noise monitoring for the event, and during TBM transit. Discussion on tower crane at Westmead for demob may not be needed – GLC considering alternatives.	

## Meetings

Date	With	Purpose
10 June	Sydney Metro, JCGJV, ER	DNVIS Addendums noise & vibration comments closeout
2, 16, 30 June	Sydney Metro, GLC, ATC	Fortnightly works status
16 June	DPHI, ER	Monthly meeting with DPHI compliance
2, 16, 23 June	AFJV, Sydney Metro, ER	Environment meeting, CTP
3, 19, 17, 24 June	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
19 June	GLC	Non- project specific discussion on best practice and AA expectations for attended noise monitoring and reporting
26 June	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals
11, 25 June	Sydney Metro, GLC, ER	Environment meeting, WTP

## Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
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6 June	<i>ETP. Cross passage hammering at XP9 continued into the evening period and led to 2 noise complaints from residents of 120 Saunders Street, Pyrmont. The extension of this work into the evening period had been notified via letterbox drop earlier that day but JCG acknowledge that this could have been better communicated to affected residents. The AA is reviewing the noise monitoring data to determine whether levels were likely to be within the groundborne noise management level (GBNML) applicable during the evening period. If levels were above the GBNML then at least 7 days' notification would have been required under Sydney Metro's Overarching Community Communications Strategy (OCCS).</i>
26 June	CTP: NCR044. Non-compliance with CoA D51, as modified by Mod 6 in November 2024: <i>"The outcomes of the community consultation, the identified respite periods and the scheduling of the likely out-of-hour work must be provided to the ER and AA before the out of hours work commences..."</i> . Action for closure: Sydney Metro advises that no further OOHW programmed for CTP noting Substantial Completion on all surface worksites has now been achieved. In the event of any planned OOHW then CoA D51 requirements will be completed.

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

Date	Contract / Location and details
4 June	Observation of good, extensive noise mats setup across an opening of the ATC Stables lap and cap fencing near the north west corner of WTP MSF West.
18 June	Observation of quiet reverse movement of OOH OSOM delivery into ETP Hunter St east site.

### 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), cross passage excavation underway.*
- *Hunter Street: shaft excavation and piling works by day, ongoing OOH tunnelling support works at Hunter Street East. Potential cumulative impact from Milligans development adjacent to Hunter Street West; demolition work at that site likely to start in August.*

#### CTP:

- All CTP sites are now demobilised and handed over noting that the final surface site handover was achieved at Five Dock on 12 May 2025.

#### WTP:

- Tree removal and other works along Clyde Dive ATC boundary adjacent to stables; acoustic shed demolition.

## Noise and vibration complaints

11 noise and vibration complaints attributed to Sydney Metro during June, 7 of which were from Hunter Street:

Location / activity	Standard hours	Out of hours	Both standard and out of hours	Total
Westmead				
Parramatta				
Clyde / Rosehill				
Sydney Olympic Park				
North Strathfield				
Burwood North				
Five Dock		1		1
The Bays				
Pymont		1		1
Hunter Street	4	3		7
Tunnelling				
ETP		2		2
CTP				
WTP				
<b>Total</b>	<b>4</b>	<b>7</b>	<b>0</b>	<b>11</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.

