

# ACOUSTICS ADVISOR MONTHLY REPORT

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

For period:	September 2024	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	7 November 2024		

Acoustics Advisor	Alternate Acoustics Advisor(s)		
Dave Anderson	Larry Clark, David Hanson and Sav Shimada		
<b>Document review</b>			
Document	Reviewed	Endorsed / approved	
<b>Central Tunnelling Package (CTP), AFJV</b>			
Weekly Noise Reports 20/9/24, 27/9/24, 4/10/24, 11/10/24, 18/10/24	Y	N/A	
DNVIS Five Dock Rev 13	Y	Under Review	
Noise and Vibration Management Plan Rev 14	Y	Under Review	
<b>Western Tunnelling Package (WTP), GLC</b>			
Noise and Vibration Monitoring Report January to July 2024	Y	3 October 2024	
CEMP Rev E	Y	N/A	
Attended noise monitoring results, OOH grout deliveries, Clyde Dive	Y	N/A	
Attended noise monitoring results, OOH cross passage spoil handling, Sydney Olympic Park	Y	N/A	
<b>Eastern Tunnelling Package (ETP), JCG<sup>2</sup></b>			
Weekly realtime monitoring data for periods ending: 6, 13, 20 and 27 October	Y	N/A	
Documents relating to proposed strengthening of Skinners Hotel building	Y	N/A	
Hunter Street - DNVIS addendum for OOH Platform Completion (rev 4)	Y	N/A	
<b>Westmead Utility Relocation (WUR), Quickway</b>			
Environmental Compliance Review Report	Y	N/A	

Inspections / site visits		
Date	Location(s)	Details
1 October	Hunter Street and Pyrmont sites	Dave Anderson attended ER inspection.
	No issues raised.	
25 October	Pyrmont East	Dave Anderson
	Daytime inspection to confirm acoustic shed completion and site operational status. JCG to carry out plant noise check on vac truck (reg XO 46QB)	
28 October	Pyrmont	Dave Anderson attended OOH inspection, DPHI also in attendance
	Temporary compressor and Water Treatment Plant audible at Pyrmont East. Temporary compressor since replaced by permanent system. JCG completed sound power level checks on permanent compressor and arranging same for Water Treatment Plant.	
29 October	Sydney Olympic Park	Larry Clark OOH inspection. Sydney Metro and AFJV environment representatives in attendance.
	Measurements of CTP's noise-treated diesel tower crane at SOP, and scaffolding activities audible from within the station box, NML compliant at the nearest residential boundary (2C Figtree Drive). Good practice: no music radios; no tonal alarms; no excessive shouting; no signalling with horns, or other noise heard that could be considered unnecessary. Noise-treated diesel tower crane noise subjectively judged to be free of tones or other potentially annoying characteristics. Minimising scaffolding impact noise as much as feasible and reasonable during night-time discussed at subsequent regular environment team meeting.	

<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

31 October	Clyde Dive	Larry Clark OOH inspection. Sydney Metro and GLC environment representatives in attendance.
	Attempted measurements of GLC's grout deliveries, and electric tower crane operation: grout delivery only just barely audible for a very brief period during an unusual break in the noise of traffic on James Ruse Drive. Electric tower crane audible briefly during operations and breaks in James Ruse Drive traffic noise. Good practice: no music radios; no tonal alarms; no excessive shouting; no signalling with horns, or other noise heard that could be considered unnecessary. Electric tower crane noise subjectively judged to be free of tones or other potentially annoying characteristics.	
30 October	Pyrmont	David Hanson witnessed JCG ground-borne noise monitoring at 115 Pyrmont St

### Meeting

Date	With	Purpose
3 October	GLC, Sydney Metro, ER	GLC presentation on Northern Unwin St works
21, 28 October	AFJV, Sydney Metro, ER	Environment meeting, CTP
15, 21 October	Sydney Metro, GLC, ATC	Fortnightly works status
1, 15, 22, 28 October	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
14 October	DPHI, ER	Monthly meeting with DPHI compliance
2, 16, 30 October	Sydney Metro, GLC, ER	Environment meeting, WTP
24 October	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals cancelled this month

### Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details

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

Date	Contract / Location and details
29 October	AFJV noise treatments of diesel tower crane at SOP prior to crane installation. Measurements of CTP's noise-treated diesel tower crane at SOP, and scaffolding activities audible from within the station box, NML compliant at the nearest residential boundary (2C Figtree Drive).
31 October	Very good practice by GLC at Clyde Dive: <ul style="list-style-type: none"> <li>use of quiet electric tower crane at CLJ for OOH works, and substitution of warning lights instead of audible alarm for overhead load alert. No tones or other potentially annoying characteristics heard from crane.</li> <li>comprehensive consideration and treatment of potential noise issues associated with OOH grout deliveries, including: shipping container noise barrier; igloo screen and noise barrier; forward movement only of agi grout delivery trucks to eliminate reversing alarm noise; no signalling with horns; washout area located away from residences. Grout deliveries almost entirely inaudible at nearest residences.</li> </ul>
1 October	[Reported previous month but repeated here because it occurred in October]: Spoil trucks operating on Hunter Street observed driving considerably, not using horns or engine brakes and with no obvious defects in manufacturer noise mitigation (eg exhaust mufflers).

### Ongoing and upcoming noise and vibration risks

ETP:	<ul style="list-style-type: none"> <li>Pyrmont: TBM tunnelling and cavern excavation underway 24/7</li> </ul>
CTP:	<ul style="list-style-type: none"> <li>Cross passage ground borne noise and vibration. Being managed by door knocking by comms.</li> <li>Upcoming TBM dismantle and removal at Sydney Olympic Park. NML compliant noise levels measured.</li> <li>Demob and demolition at Five Dock. Managed by comms notifications and consultation.</li> </ul>
WTP:	<ul style="list-style-type: none"> <li>OOH concrete deliveries at CLJ. Being managed by application of noise treatments. Activity only just audible for a brief period of unusually low traffic on James Ruse Drive.</li> <li>Unwin Street works adjacent to RTA heritage façade. Management measures being discussed.</li> </ul>

## Noise and vibration complaints

15 noise and vibration complaints attributed to Sydney Metro during October, 9 of which were from Pyrmont:

Location / activity	Standard hours	Out of hours	Standard and out of hours
Westmead		2	
Parramatta			
Clyde / Rosehill		1	
Sydney Olympic Park		1	
North Strathfield		1	
Burwood North			
Five Dock			
The Bays			
Pyrmont	7	1	1
Hunter Street		1	
Tunnelling			
ETP		0	
CTP		1	
WTP		0	
<b>Total</b>	<b>7</b>	<b>8</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.

