

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	May 2025	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	6 June 2025		

Acoustics Advisors		
Dave Anderson, Larry Clark, David Hanson and Sav Shimada		
Document review		
Document	Reviewed	Endorsed / approved
Central Tunnelling Package (CTP), AFJV	Nil	N/A
Western Tunnelling Package (WTP), GLC		
Main DNVIS Rev U	Y	Under review
Noise and Vibration Management Plan	Y	Under review
Noise monitoring results, in response to complaint ID6219	Y	N/A
Eastern Tunnelling Package (ETP), JCG ¹		
DNVIS Addendum Pyrmont TBM Support	Y	Under review
Noise and Vibration Monitoring Report March 2024 to March 2025, Rev B	Y	N/A
Pyrmont Station DNVIS addendum – tunnelling support, Rev 3	Y	Under review
Pyrmont Station DNVIS and tunnelling DNVIS addendum – alternative excavation techniques, Rev 3	Y	Under review
Tunnelling DNVIS Rev 7	Y	15 May 2025
Noise and vibration Management Plan + Monitoring Program – annual update Rev 5	Y	3 June 2025
Weekly realtime monitoring data to 1 June 2025	Y	N/A

Inspections / site visits		
Date	Location(s)	Details
13 May	Pyrmont and The Bays	Dave Anderson joined ER inspection
		No issues raised. Tonal alarm on gantry crane at Pyrmont West had been turned down the day after the last OOH inspection.
13 May	Pyrmont	Dave Anderson attended to witness OOH monitoring and supervision
		Good discussion with night works supervisor about noise related issues to look and listen out for.
27 May	Pyrmont and Hunter Street	Dave Anderson OOH AA / ER inspection
		DPHI attended the Pyrmont inspection (approx. 21:30 to 22:20). Witnessed spoil removal from Pyrmont East via a fleet of 9 trucks. Trucks observed to be in good condition and driven considerately. Where possible, finer material is loaded first to minimise noise from larger material impacting empty truck trays. No truck movements at Pyrmont West, steel roller door closed (in addition to fast-close door). No issues raised. Hunter Street (approx 22:40 to 23:20). Ventilation noise audible from the decline at Hunter Street East but not deemed intrusive. JCG subsequently confirmed that ventilation fans are fitted with attenuators and operate on reduced fan speed at night. Witnessed an EWP operating with tonal alarm at Hunter Street West.
28 May	WTP Parramatta, Westmead	Larry Clark joined ER inspection
		Discussion at Parramatta on application of CoA D36 hours for hammering within station box. Site hive monitor on Macquarie Lane eastern site boundary observed not to be in an upright position, due to temporary relocation for nearby works. GLC subsequently advised that this was rectified. Discussion at Westmead on tonal (beeper) alarm on recently repaired and operating gantry crane, and its low audibility offset, particularly at night when the shed doors are closed.

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

28 May	CTP Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays	Larry Clark OOHW inspection
	<p>Sydney Olympic Park: gates open but no activity visible on the surface and none audible from the site.</p> <p>North Strathfield: Sydney Trains pressure washing Sydney Train's station (not associated with Sydney Metro), but no activities visible on, or audible from, the site.</p> <p>Burwood North: no activities visible on, or audible from, the site.</p> <p>Five Dock: diaphragm pump within the east station box shaft faintly audible in Second Avenue.</p> <p>Diaphragm pump within the west station box shaft audible and sounding relatively loud, possibly cavitating, in East Street. Photo evidence subsequently provided by AFJV of noise mat treatment of pump.</p> <p>The Bays: no surface activities visible on, or audible from, the AFJV site.</p>	
29 May	CTP The Bays, Five Dock	Larry Clark joined ER inspection
	<p>No noise or vibration issues at The Bays. Discussion at Five Dock on loud diaphragm pump heard on previous nights OOHW AA inspection. AFJV provided photo evidence of noise mat treatment of diaphragm pump, which is expected to cease operation in two weeks.</p>	

Meeting

Date	With	Purpose
5, 19 May	Sydney Metro, GLC, ATC	Fortnightly works status
7 May	Sydney Metro, ATC	Briefing on update to Phase H
12 May	DPHI, ER	Monthly meeting with DPHI compliance
19, 26 May	AFJV, Sydney Metro, ER	Environment meeting, CTP
6, 13, 20, 27 May	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
15, 22 May	Sydney Metro, GLC	Discuss review comments on main DNVIS Rev U
22 May	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals
28 May	Sydney Metro, GLC, ER	Environment meeting, WTP

Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
27 May	ETP: EWP operating OOH with tonal alarm at Hinter Street West.
28 May	CTP OOHW inspection: see notes from inspection above re: diaphragm pump, treated with noise mats.

Examples of good practice in noise and vibration management

Date	Contract / Location and details
27 May	<p>ETP Pyrmont East: OOH spoil load-out - finer material is loaded first to minimise noise from larger material impacting empty truck trays</p> <p>ETP Pyrmont West: steel roller door closed OOH (in addition to fast-close door) as there were no vehicle movements in and out of the shed</p>

Ongoing and upcoming noise and vibration risks

ETP:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> Tree removal and other works along Clyde Dive ATC boundary adjacent to stables; acoustic shed demolition.

Noise and vibration complaints

6 noise and vibration complaints attributed to Sydney Metro during May as follows:

Location / activity	Standard hours	Out of hours	Both standard and out of hours	Total
Westmead				
Parramatta				
Clyde / Rosehill		1		1
Sydney Olympic Park				
North Strathfield				
Burwood North				
Five Dock			1	1
The Bays				
Pymont				
Hunter Street	3			3
Tunnelling ETP CTP WTP			1	1
Total	3	1	2	6

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.

