ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

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

Alternate Acoustics Advisor(s)
Larry Clark, David Hanson and Sav Shimada

Document review

Document review		
Document	Reviewed	Endorsed / approved
Central Tunnelling Package (CTP), AFJV		
Weekly Noise Reports 21/06/24, 28/06/24, 5/7/24 and 12/7/24	Y	N/A
DNVIS North Strathfield Rev 9	Y	25/7/24
DNVIS Sydney Olympic Park Rev 9	Y	Under review
Bi-annual monitoring report January to June 2024	Y	Under review
GBNV monitoring 25 Nelson Road	Y	N/A
Western Tunnelling Package (WTP), GLC		
Attended noise and vibration monitoring reports at Bailey St, Westmead	Y	N/A
Attended noise monitoring reports at Bailey St and Hassall St, Westmead.	Y	N/A
Attended noise monitoring reports for 27 June, 3 and 10 July at Sydney Olympic Park	Y	N/A
Unattended noise monitoring report for 21 and 22 July at Sydney Olympic Park		
DNVIS, Westmead to Sydney Olympic Park, Rev O	Y	19/7/24
CEMP Rev D	Y	N/A
Westmead Utilities Relocation (WUR), Quickway		
Works now completed		
Eastern Tunnelling Package (ETP), JCG ¹		
Monitoring records and data	Y	N/A
Further detail for complaints at Pyrmont East 22 July 2024	Y	N/A

Inspections / site visits				
Date	Location(s)	Details		
	Sydney Olympic Park,	Larry Clark OOH inspection. Sydney Metro, GLC environment and DPHI		
4 July	Parramatta, Westmead	compliance representatives in attendance.		
-	No noise or vibration issues or	No noise or vibration issues or actions arising.		
9 July	Hunter Street and Pyrmont	Dave Anderson joined ER inspection		
	Noted need to relocate real time noise monitor at Pyrmont West site. Realtime monitor has since been relocated to site boundary.			
	Pyrmont East	Larry Clark OOH inspection.		
10 July	Music radio on site audible across Edward Street. Construction team were toolboxed on noise mitigation requirements.			
	Burwood North	Larry Clark OOH inspection during driveway works at Burwood North south		
10 July	Burwood North	site. Sydney Metro and AFJV environment representatives in attendance.		
	Excavator with a tonal alarm identified and replaced for the next OOH shift.			
10 July	Sydney Olympic Park	Larry Clark OOH inspection.		
	Telehandler with a tonal alarm identified and rectified the next day.			

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

Acoustic Studio: 202407 monthly AA report SMW July 24_issue.docx

17 July	Clyde Dive	Larry Clark joined ER inspection.		
	•	Quiet operation of electric tower crane observed. Discussion on vac truck and water lance breakback of piles, instead of noisier usual jackhammer method, future slab protection works.		
17 July	Burwood North	Larry Clark witnessed OOH concrete delivery trial.		
	Observations provided and subsequently satisfactorily addressed.			
18 July	Sydney Olympic Park and North Strathfield	Larry Clark joined ER Inspection.		
,	No noise or vibration issues	No noise or vibration issues or actions arising.		
18 July	Pyrmont East	Dave Anderson attended OOH inspection to witness monitoring of concrete deliveries (approx 8 to 9pm)		
	No noise or vibration issues or actions arising.			
30 July	Pyrmont	Dave Anderson joined ER inspection		
	JCG checking noise levels fr	rom street sweeper and will confirm status of exhaust system on vac truck.		

Meeting

meeting		
Date	With	Purpose
1, 8, 15, 22, 29 July	AFJV, Sydney Metro, ER	Environment meeting, CTP
1, 15, 29 July	Sydney Metro, GLC, ATC	Fortnightly works status
2, 9, 16, 23, 30 July	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
8 July	DPHI, ER	Monthly meeting with DPHI compliance
10, 24 July	Sydney Metro, GLC, ER	Environment meeting, WTP
12, 26 July	Quickway, Metro, ER	Westmead Utilities Scope – Environment meeting
25 July	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals

Date	Contract / Location and details
22 July	ETP / Pyrmont East. Dust scrubber ventilation system commenced commissioning, but validation monitoring
	identified sound power level was greater than assumed in the DNVIS, and 7 complaints were received (3 during the
	night and the rest the following morning).
	After the first complaint, scrubber fan noise was reduced by running it at 50% capacity from approx. 0030hrs.
	Two further complaints were received, and the fan was switched off around 0230hrs.
	Additional mitigation was implemented on 23 July and JCG's monitoring indicated approximately 20dBA of noise
	reduction. There have been no further complaints about the issue.

Examples of good practice in noise and vibration management	
Date	Contract / Location and details
17 July	WTP Clyde Dive: vac truck and water lance used for pile breakback, rather than noisier jackhammer method

Ongoing and upcoming noise and vibration risks	
ETP:	
•	Demolition at Hunter Street now close to street level, leading to higher noise impacts for some nearby receivers.
•	Shaft excavation, including hammering (prior to acoustic shed) at Pyrmont West
•	Cavern excavation underway 24/7 at Pyrmont East
CTP:	
	Tunnelling and cross passage ground borne noise and vibration
	 Upcoming TBM breakthrough, dismantle and removal at Sydney Olympic Park.
WTP:	
	TBM dismantle and removal at Sydney Olympic Park

Noise and vibration complaints

28 noise and vibration complaints attributed to Sydney Metro during July:

- 3 from Westmead
- 1 from Five Dock
- 11 from Pyrmont, 7 of which related to OOH noise on 22 July
- 5 from Hunter St, from businesses about daytime noise, vibration and respite hours
- 8 relating to WTP TBM dismantling work at Sydney Olympic Park

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 may be less than the sum of standard and OOH complaints.

