

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	November 2023	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	7 December 2023		

Acoustics Advisor		Alternate Acoustics Advisor(s)	
Dave Anderson		Larry Clark, David Hanson and Sav Shimada	
Document review			
Document	Reviewed	Endorsed / approved	
Central Tunnelling Package (CTP), AFJV			
AFJV approved OOHW Permits	Y	NA	
Sydney Olympic Park DNVIS Rev 8	Y	22/11/23	
Burwood North DNVIS Rev 11	Y	22/11/23	
Five Dock DNVIS Rev 12	Y	22/11/23	
Western Tunnelling Package (WTP), GLC			
Westmead sewer relining OOH DNVIS Rev B	Y	2/11/23	
Project-wide DNVIS Rev 6	Y	22/11/23	
Westmead Utilities Relocation (WUR), Quickway			
Detailed Noise and Vibration Impact Statement (DNVIS) Rev 2	Y	6/11/2023	
Eastern Tunnelling Package (ETP), JCG¹			
<i>Pymont Station DNVIS rev 3</i>	Y	2/11/2023	
<i>Consistency Assessment: Pymont East temporary shaft</i>	Y	N/A	
<i>Hunter Street DNVIS rev 1</i>	In progress		

Inspections / site visits		
Date	Location(s)	Details
7 November	<i>Pymont and Hunter St sites</i>	<i>Dave Anderson attended ER inspection</i>
		<i>Discussed opportunities to minimise noise from piling at Pymont East (auger-shaking to remove material). Confirmed demolition at Hunter St sites would prioritise pulverisers and that noise blankets (or similar) would be installed on/near scaffolding close to the active demolition area.</i>
7 November	The Bays, Burwood North	Larry Clark OOH 4 monthly verification noise monitoring TBY; and OOHW inspection BWT.
		Notes: No evidence of significant change in noise levels at TBY; opportunity for improvement at BWT – additional noise mats installed.
15 November	Westmead Utility Relocation	David Hanson joined ER Inspection. Good work practices observed, opportunities identified to fine-tune noise mitigation on 2 items.
	Western Tunnelling Package – Parramatta and Westmead	David Hanson joined ER Inspection. Good work practices observed, opportunity identified to adjust movement alarm sound level on 2 items of plant.
23 November	Westmead Utility Relocation	David Hanson witness OOH potholing works.
		Good work practices observed, several opportunities discuss to optimise noise mitigation.
23 November	<i>Pymont East</i>	<i>Dave Anderson attended to witness OOH delivery of oversize equipment. Works delayed, not witnessed</i>
30 November	<i>Pymont</i>	<i>Dave Anderson witnessed OOH installation of Instrumentation and Monitoring equipment. Alex McGuirk from DPE also attended.</i>
		<i>Good work practices, some opportunities for improvement identified and under discussion with JCG.</i>

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

Meeting		
Date	With	Purpose
7, 14, 28 November	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
1 November	GLC, ER	Review of WMD compressor noise
6, 13, 20, 27 November	AFJV, Sydney Metro, ER	Environment meeting, CTP
1, 15, 29 November	Sydney Metro, GLC, ER	Environment meeting, WTP
13 November	DPE, ER	Monthly meeting with DPE compliance
13 November	Sydney Metro, GLC, ATC	Fortnightly works status
23 November	DPE, Sydney Metro, ER, AA	Monthly meeting with DPE
6, 20, 30 November	Sydney Metro, Quickway, ER	Westmead Utilities Scope – Environment meeting

Noise and vibration issues, incidents, recommendations	
Date	Contract / Location and details
Ongoing	OOH compressor noise at Westmead exceeding NML – GLC continue to review and implement feasible and reasonable mitigation.

Examples of good practice in noise and vibration management	
Date	Contract / Location and details
15 November	Quickway, Westmead: quieter vac truck used compared with previous OOH inspections, orienting truck to direct noise away from receivers, bespoke temporary noise barrier to mitigate elevated vac truck sources.
15 November	GLC, Parramatta: Wire saw cutting for D-wall breakback reduced noise levels by >10dBA relative to hammering, and reduced vibration near heritage building (Roxy Theatre).
30 November	ETP, Pyrmont: excellent attention to detail in assembly of temporary noise barrier around work-site. No gaps, 4-sided enclosure, barrier close to source (reducing the number of upper floor apartments that could overlook the barrier)

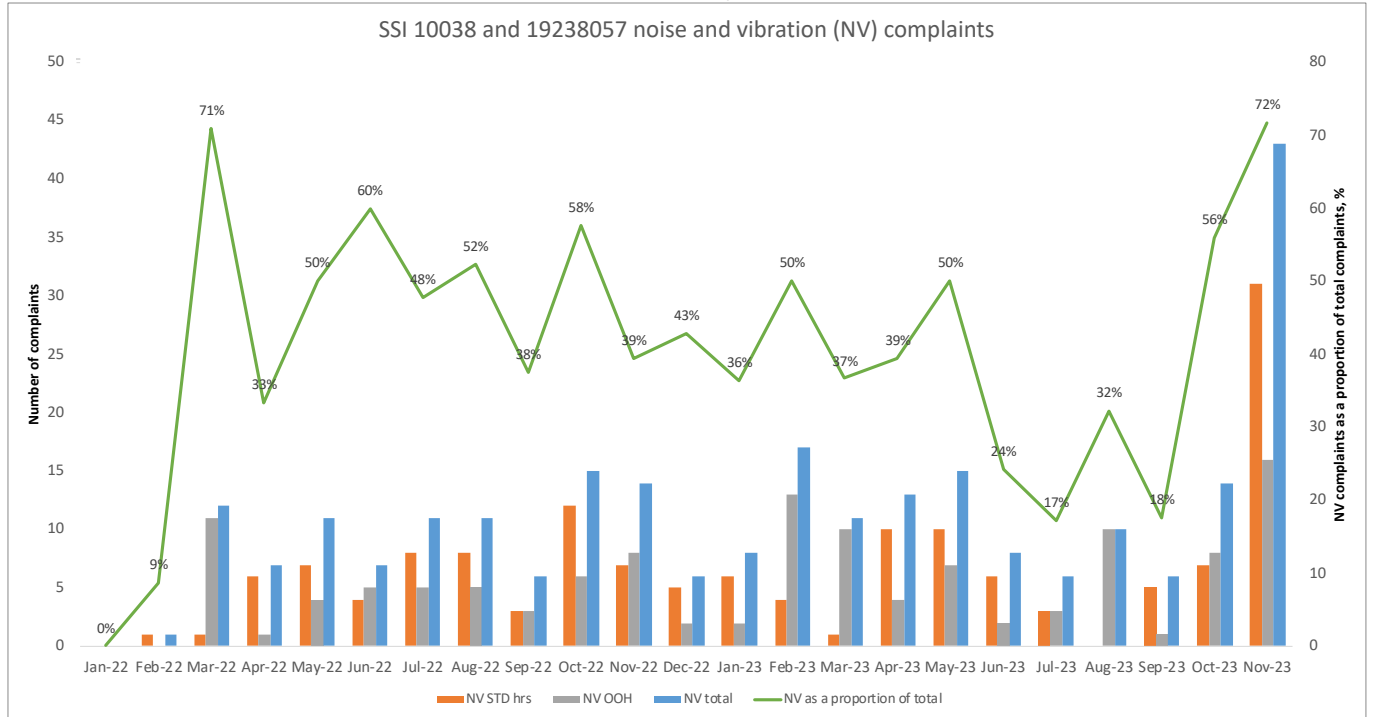
Ongoing and upcoming noise and vibration risks	
ETP:	<ul style="list-style-type: none"> Initial excavation starting soon at Pyrmont sites Tunnelling of the Hunter Street cavern and turn-back tunnels continuing, including 24/7 works. North heading commenced in October. Structural demolition underway at Hunter Street sites
CTP:	<ul style="list-style-type: none"> TBM transit upcoming at Five Dock
WTP:	<ul style="list-style-type: none"> Roadheader excavation at Westmead and Clyde Ongoing vibration management at Parramatta

Noise and vibration complaints

43 noise and vibration complaints attributed to Sydney Metro during November:

- 2 from Westmead regarding OOH work
- 1 from Parramatta regarding OOH work
- 1 from North Strathfield regarding OOH work
- 3 from Burwood North regarding OOH work
- 1 from Five Dock regarding OOH work
- 5 from tunnelling at Rodd Point and Five Dock (CTP) and 1 from tunnelling at Parramatta (WTP)
- 28 from *Pymont²*, 25 of which were related to one residential property
- 1 from *Hunter Street*

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.



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