

# ACOUSTICS ADVISOR MONTHLY REPORT

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

For period:	January 2024	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	7 February 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>		
AFJV approved OOHW Permits	Y	N/A
Bi-Annual Construction Monitoring Report Dec 2022 - June 2023	Y	
CNVMP Rev 11	In progress	
<b>Western Tunnelling Package (WTP), GLC</b>		
Construction Noise and Vibration Management Plan, rev G	Y	10/1/24
GLC verification monitoring reports	Y	N/A
<b>Westmead Utilities Relocation (WUR), Quickway</b>		
OOH permit 003, rev 1	Y	18/01/2024
<b>Eastern Tunnelling Package (ETP), JCG<sup>1</sup></b>		
JCG verification monitoring reports	Y	N/A
The Bays DNVIS Rev 3	In progress	
Hunter Street DNVIS rev 1	In progress	

Inspections / site visits		
Date	Location(s)	Details
15 January	Westmead: Utilities Relocation scope (Phase H)	David Hanson OOHW Inspection
	Good practice – movable noise barrier around concrete sawing, sawing completed before 10pm, battery lighting towers.	
16 January	Sydney Olympic Park, North Strathfield, Burwood North and Five Dock (Phase B2)	Larry Clark attended an OOH inspection (approx. 9pm to 1130pm). Representatives of Dept of Planning Compliance in attendance.
	<ul style="list-style-type: none"> <li>No noisy works seen or heard at SOP, NST, FDK (respite provided). Some low-level noise from activities within the FDK shaft / tunnel / station box excavation just barely audible on the landing outside the library at FDK west. Road plates in second avenue observed to be fixed and well-treated to minimise noise. No noise audible from FDK east shed.</li> <li>Noisy OOHWs at BWT – CCTV inspections Burwood Rd, and OS plant crane removal from south shaft site. Considerate crew behaviour noted throughout. Only non-tonal alarms heard; no loud radios heard; no excessive or unnecessary shouting or signalling with horns heard.</li> </ul>	
17 January	WTP: Clyde Dive, MSF west and east, Rosehill (Phase F)	Larry Clark joined ER inspection and witnessed location of compressors and location for tower crane at Clyde Dive
	No issues.	

<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

23 January	ETP Pyrmont (Phase G2)	Dave Anderson joined ER inspection and witnessed noise monitoring of tower crane at complainant's premises
	Tower crane not operating at time of visit to complainant's premises so follow up arranged for next day. Location shielded from other parts of the Pyrmont site; baseline levels 56dBL <sub>A90</sub> and 59dBL <sub>Aeq</sub> . Intermittent noise audible from Harbourside construction site, typically 56 to 58dBA.	
23 January	WTP Parramatta, Westmead (Phase F); WUR Westmead (Phase H)	Larry Clark attended OOH inspection 8pm to 9.45pm
	One tonal alarm on EWP heard briefly at PTA – GLC investigating. No signalling with horns during spoil loadout at PTA – successful toolbox training.	
24 January	Pyrmont incl. monitoring at resident – 50 Murray St (Phase G2)	David Hanson witnessed ETP monitoring at level 9 apartment.
	Diesel tower crane clearly audible at times from apartment, noise levels up to around 61dBA. Generator at base of crane clearly audible from receivers closer to the site.	
30 January	Pyrmont and Hunter Street (Phase G2)	Dave Anderson joined ER inspection
	Real time monitoring data requested from Pyrmont West. Demolition methodology discussed at Hunter Street.	

Meeting		
Date	With	Purpose
16, 23, 30 January	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
8, 15, 22, 29 January	AFJV, Sydney Metro, ER	Environment meeting, CTP
10, 24 January	Sydney Metro, GLC, ER	Environment meeting, WTP
16 January	DPE, ER	Monthly meeting with DPE compliance
15 January	Sydney Metro, GLC, ATC	Fortnightly works status
(Not held in January)	DPE, Sydney Metro, ER, AA	Monthly meeting with DPE
11, 25 January	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 report under review.
Ongoing	JCG investigating noise from diesel tower crane at Pyrmont East.

Examples of good practice in noise and vibration management	
Date	Contract / Location and details
15 January	Westmead Utility Relocation, Quickway: Movable noise blankets erected around concrete sawing on road, ongoing use of battery lighting towers.
23 January	No signalling with horns during spoil load-out at Parramatta – successful toolbox training.

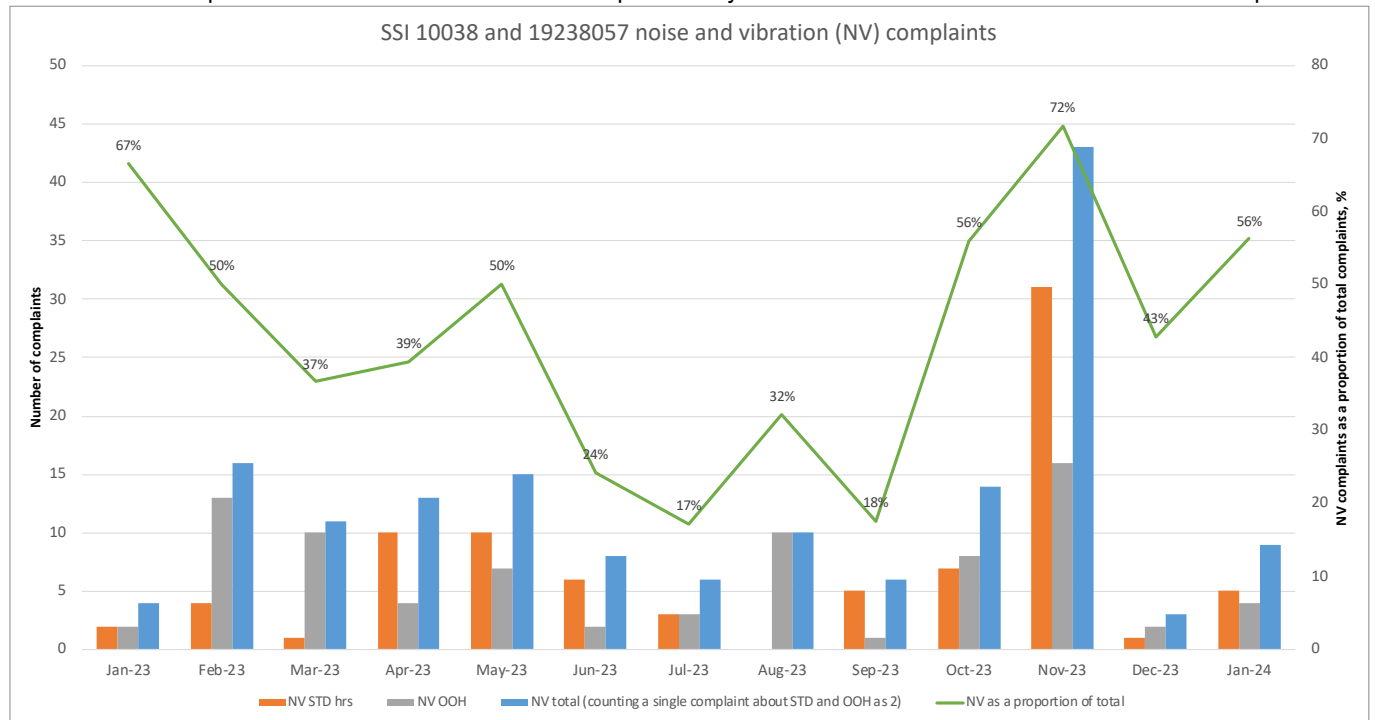
Ongoing and upcoming noise and vibration risks	
ETP:	
<ul style="list-style-type: none"> <li>Initial excavation (without acoustic sheds) starting at Pyrmont sites</li> <li>Structural demolition underway at Hunter Street sites</li> </ul>	
CTP:	
<ul style="list-style-type: none"> <li>Tunnelling ground borne noise and vibration</li> </ul>	
WTP:	
<ul style="list-style-type: none"> <li>Tunnelling ground borne noise and vibration</li> </ul>	
WUR:	
<ul style="list-style-type: none"> <li>Night works now underway under OOHW Permits 002 (Bailey St) and 003 (Hawkesbury Rd). Note: mainly 003 until end Feb (design issue at cnr Hassall and Bailey).</li> </ul>	

## Noise and vibration complaints

9 noise and vibration complaints attributed to Sydney Metro during January:

- 1 from Westmead regarding noise from heavy vehicles during standard hours
- 1 from North Strathfield regarding OOH utilities work
- 4 from Five Dock regarding, including 3 relating to OOH noise and 1 to standard hours
- 3 from *Pymont<sup>2</sup>* regarding *standard hours noise from Pymont sites*

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.



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