

# ACOUSTICS ADVISOR MONTHLY REPORT

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

<b>For period:</b>	February 2024	<b>Authorisation:</b>	Dave Anderson, Acoustics Advisor
<b>Prepared by:</b>	Dave Anderson		
<b>Date of issue:</b>	7 March 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	
Project-wide – DNVIS Rev K	Y		
Clyde Endeavour Energy works – DNVIS Rev A	Y	6/3/24	
<b>Westmead Utilities Relocation (WUR), Quickway</b>			
Monitoring records incl plant noise audits	Y	N/A	
OOH permit 002, rev 5	Y	4/3/24	
OOH permit 003, rev 4	Y	22/2/24	
<b>Eastern Tunnelling Package (ETP), JCG<sup>1</sup></b>			
JCG verification monitoring reports	Y	N/A	
CNVMP and Monitoring Program Rev 1	Y		
The Bays DNVIS Rev 3	Y	7/3/24	
Hunter Street DNVIS rev 2	Y	13/2/24	
Hunter Street DNVIS addendum – OOH load-out	Y		
Pymont DNVIS Rev 4	Y		

Inspections / site visits		
Date	Location(s)	Details
8 February	Five Dock (CTP)	Larry Clark OOH inspection
	Environmental issue: measured noise levels above those predicted in the DNVIS. AFJV subsequently advised feasible and reasonable mitigation being implemented at the time. Action: Additional monitoring to be conducted once the TBM is fully within the tunnel to check the next phase of works that will have an ongoing impact.	
13 February	Hunter Street (ETP)	Dave Anderson joined ER inspection
	High rise demolition methodology discussed, noting challenges with using alternatives to hammering for the composite floor structures at 9 Hunter Street.	
22 February	Westmead (WUR Phase H)	David Hanson OOH inspection
	Road sawing and trenching on cnr Hawkesbury and Bailey for Telstra pits. All sawing completed before 10pm. Battery electric road saw no longer being used as batteries run out after only 15 minutes. Good use of noise blankets to screen noise sources.	
26 February	Five Dock (CTP)	Larry Clark witnessed collection of noise and vibration monitors from Rickard Street
	No actions arising.	

<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

28 February	Clyde (WTP)	Larry Clark joined ER inspection
	No actions arising.	
29 February	Five Dock (CTP)	Larry Clark OOH inspection
	Environmental issue: measured noise levels above those predicted in the DNVIS. Action: track corrective action until closure. Environmental event: Unattended logger on Church boundary affected by 70dBA noise from a vent fan on the site container placed between it and the station box shaft about a month ago, removing its usefulness for monitoring or complaint follow up. Action: Monitor to be relocated to a more appropriate location.	

Meeting		
Date	With	Purpose
6, 13, 20, 27 February	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
5, 12, 19 February	AFJV, Sydney Metro, ER	Environment meeting, CTP
7, 21 February	Sydney Metro, GLC, ER	Environment meeting, WTP
13 February	DPHI, ER	Monthly meeting with DPHI compliance
12, 26 February	Sydney Metro, GLC, ATC	Fortnightly works status
22 February	DPHI, Sydney Metro, ER, AA	Monthly meeting with DPHI
8, 22 February	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 with DPHI.
<i>Under review</i>	<i>JCG completed its investigation of noise from diesel tower crane at Pymont East and documented the outcome by email, together with an update to the DNVIS.</i>
Ongoing	Ground-borne noise and vibration from tunnelling on CTP (both TBMs and cross passage excavation): monitoring reports not able to be verified by the AA. Following up with Metro and AFJV to confirm levels are consistent with predictions and AMMs are implemented in accordance with DNVIS.
Ongoing	Recent AFJV monitoring concluded that noise levels above predictions were not from AFJV works. The AA does not support this conclusion. AFJV has committed to raising this as an Environmental Issue and to modifying the noise monitoring form if necessary.

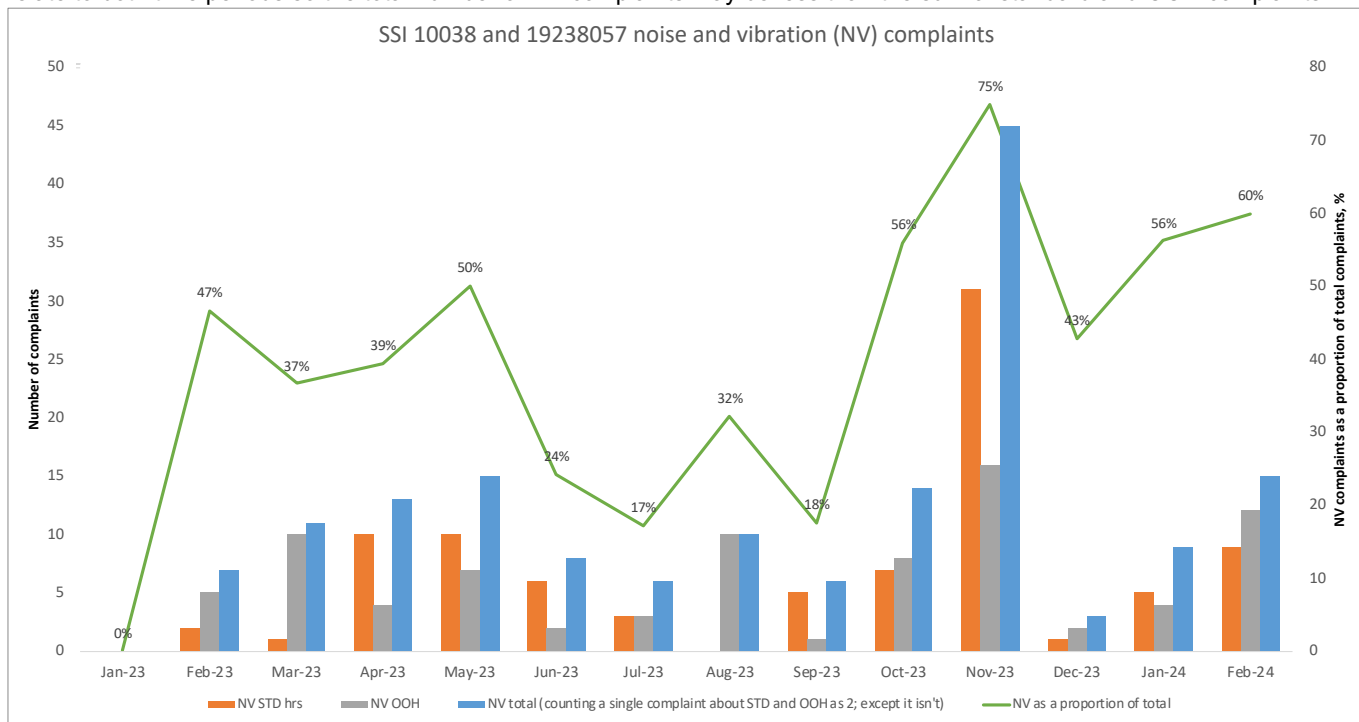
Examples of good practice in noise and vibration management	
Date	Contract / Location and details
22 February	Westmead Utility Relocation, Quickway: Movable noise blankets erected around concrete sawing on road, ongoing use of battery lighting towers. Good awareness from personnel around noise control.

Ongoing and upcoming noise and vibration risks	
ETP:	
<ul style="list-style-type: none"> <li>Initial excavation (without acoustic sheds) starting at Pymont 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> <li>Hoarding along western boundary of Five Dock west site scheduled for removal, which is expected to result in noise levels being higher than those predicted in the DNVIS</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 underway under OOHW Permits 002 (Bailey St) and 003 (Hawkesbury Rd).</li> </ul>	

15 noise and vibration complaints attributed to Sydney Metro during February:

- 1 from Clyde regarding OOH noise from a pump
- 1 from Burwood North regarding OOH noise from the water treatment plant
- 2 from Five Dock regarding OOH noise from the western site
- 9 from tunnelling and cross passage excavation around Five Dock and Rodd Point
- 1 from tunnelling in Silverwater
- 1 from *Hunter Street<sup>2</sup>* regarding standard hours noise from *Hunter Street East*

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