

ACOUSTICS ADVISOR MONTHLY REPORT SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	January 2023	Authorisation:	Dave Anderson, Acoustics Advisor
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Acoustics Advisor		Alternate Acoustics Advisor(s)	
Dave Anderson		Larry Clark	
Document review			
Document	Reviewed	Endorsed / approved	
Central Tunnelling Package (CTP), AFJV			
OOH234 Traffic set up at Roberts Street, The Bays	Y	5/1/23	
OOH239 Electrical works at Sydney Olympic Park	Y	13/1/23	
OOH213 TBM water main connection at The Bays – Rev04	Y	13/1/23	
Power Enabling Works (PEW), Quickway			
OOH013 Road restoration works – Rev 5.1	Y	17/1/23	
Property damage claims	Under review		
Metro Brownfield Enabling Works (MBEW), Transport for Tomorrow (TfT)			
OOH protocol	Y	8/12/22	
Western Tunnelling Package (WTP), GLC			
DNVIS Rev F	Under review		
CNVMP Rev E	Under review		
Eastern Tunnelling Package (ETP), JCG			
Low Impact Works Plan	Under review		
Preliminary CEMP	Under review		
Out of Hours Protocol	Under review		
DNVIS for preliminary works at Hunter Street East	Under review		
DNVIS for Low Impact Works, project wide	Under review		
DNVIS for preliminary works, project wide	Under review		
Construction Noise and Vibration sub-plan (inc monitoring program)	Under review		
Low Impact Works form 04	Y	N/A	

Inspections / site visits		
Date	Location	Details
10 January 2100 to 2215	Darling St Rozelle between Victoria Rd and Belmore / Waterloo Streets	Larry Clark accompanied Mike Woolley, ER, and Pam Tummers, Sydney Metro, on an inspection of Quickway road restoration works.
18 January 0900 to 1130	Rosehill and Clyde MSF	Larry Clark accompanied ER on inspection. Noise Champion poster to be replaced on notice boards.
19 January 0930 to 1230	Sydney Olympic Park and Burwood North	Larry Clark accompanied ER on inspection. Respite provisions for rock drilling to be reviewed.
25 January 1300 to 1430	102 Pyrmont Street, Pyrmont	Dave Anderson attended inspection and meeting with recording studios
25 January 2120 to 2150	Westmead	Dave Anderson and Larry Clark inspection. HV works in progress at eastern end of Park Parade

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

25 January 2200 to 2215	Parramatta	Dave Anderson and Larry Clark inspection, no works in progress
25 January 2230 to 2240	Sydney Olympic Park	
25 January 2245	North Strathfield	
25 January 2255	Burwood	
25 January 2305	Five Dock	
25 January 2245 to 2250	North Strathfield	
25 January 2330 to 2345	The Bays	Dave Anderson and Larry Clark inspection. Minor works in progress at The Bays site.

Meetings

Date	With	Purpose
10, 17, 24, 31 Jan	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
11, 18, 25 Jan	Sydney Metro, GLC, ER	Weekly environment meeting, WTP
9, 16, 30 Jan	AFJV, Sydney Metro, ER	Environment meeting, CTP
16, 23, 30 Jan	Sydney Metro, GLC, ATC	Weekly works status
20 Jan	TfT, Sydney Metro, ER	Brownfield enabling works meeting

Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
10 January	Quickway road restoration, Rozelle. Delivery truck left idling for an extended period and without a driver present. Although not audible beyond about 10m from the truck, Quickway are to remind drivers not to leave vehicles idling – they should be switched off.
19 January	<p>Rock drilling witnessed on 19 January at the eastern end of the Burwood North site during the 11am to 12noon respite period is a non-compliance with AFJV's NVMP, specifically Management Measure MMNV19 in Table 9-1, which states that "high noise-generating activities...will be carried out in blocks that do not exceed three hours each, with a minimum respite period of one hour between each block." Rock hammering at the site had paused for the respite period, however, rock drilling is included in the Planning Approval definition of Highly Noise Intensive Works and should have ceased too according to the NVMP.</p> <p>The impact of this non-compliance is considered minor, noting that:</p> <ul style="list-style-type: none"> Condition of Approval D36 requires respite for Highly Noise Intensive Work (only) if it results in an exceedance of the applicable NML (whereas MMNV19 does not include reference to an NML); AFJV measured noise levels of 64dBA at the nearest property boundary during rock drilling alone, which even with the addition of a 5dB penalty as specified in Section 4.2.1 of the Burwood North DNVIS, does not exceed the 75dBA Highly Noise Affected Level in the ICNG, which would appear to be the appropriate NML. <p>The AA considers that this was not a non-compliance with CoA D36, based on measured noise levels for the rock drilling and our interpretation of D36. However, it is a non-compliance with Condition C10 which requires that CEMP sub-plans be implemented for the duration of the works. We understand that the NVMP, and possibly the DNVIS, are to be revised to be more consistent with the Conditions of Approval.</p>

Examples of good practice in noise and vibration management

Date	Contract / Location and details
10 January	Quickway road restoration Rozelle. Only non-tonal movement alarms heard. Electric hammer drill being used for reo dowel installations. No radios, excessive shouting or other unnecessary noise. Temporary bitumen cover to be excavated had been loosened by hydraulic hammer at intervals along its length to facilitate lifting and removal by excavator. Crew considered to be behaving in a professional, considerate and efficient manner. Noise monitoring of activities observed during inspection.

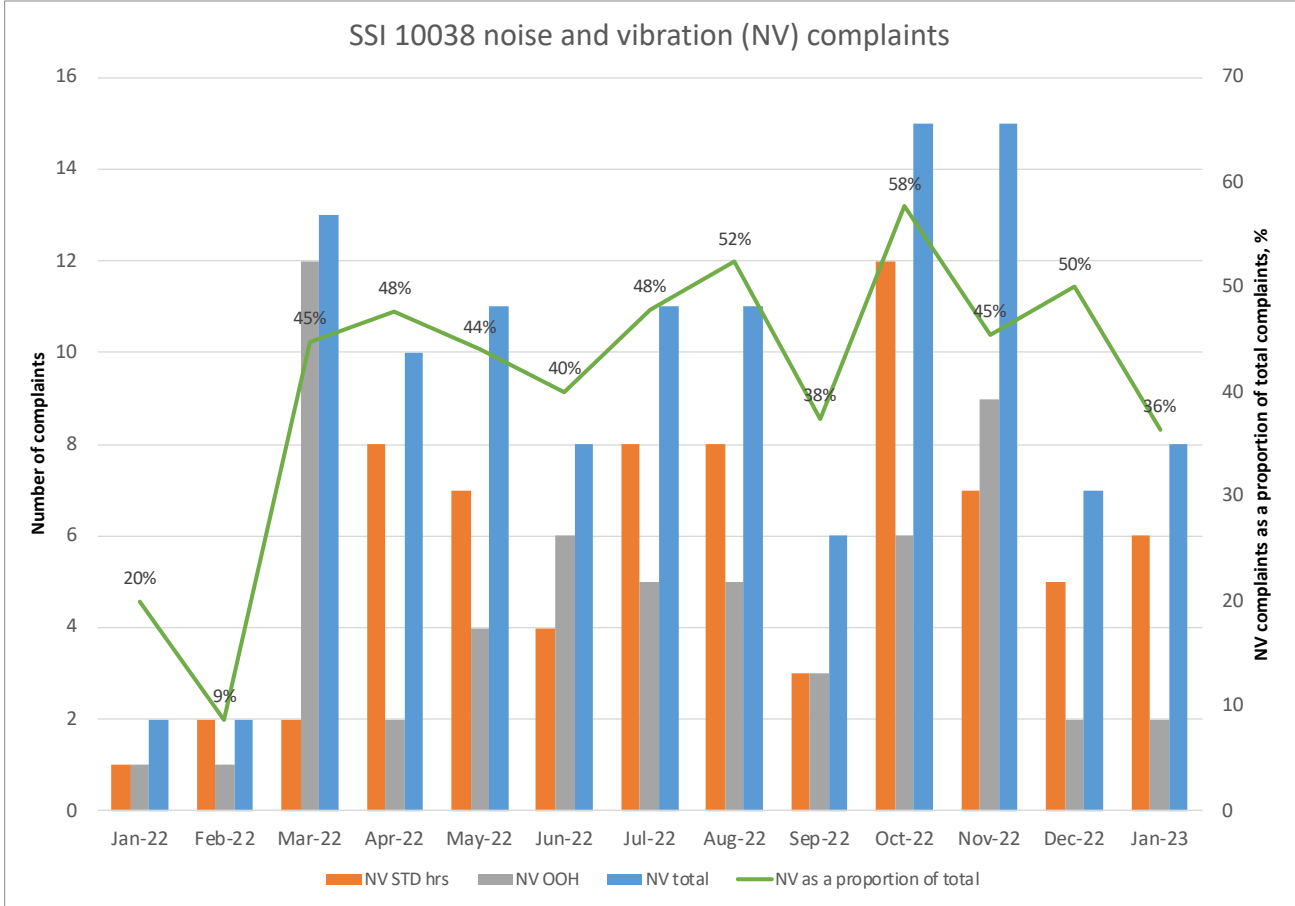
	Vibration advised to have been monitored during hydraulic breaking before inspection. Shrouding attached to three sides of hydraulic hammer, to reduce fly rock potential but possibly also reducing noise levels. Small, trailer-mounted vac unit (not in use at the time) observed to have a noise information label.
25 January	Central Tunnelling Package, Sydney Olympic Park, North Strathfield, Burwood, Five Dock. No OOH works in progress, and minor OOH works at The Bays inaudible, consistent with advice provided prior to the inspection.

Notes	
Date	Contract / Location and details
Mid-February	ETP Low Impact Works commence

Noise and vibration complaints

8 noise and vibration complaints during January; 2 from Westmead, 1 from Sydney Olympic Park, 3 from Burwood and 2 from Five Dock.

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.



No noise and vibration complaints for SSI 19238057 during the period.

Ongoing and upcoming noise and vibration risks

- Upcoming piling near to the horse stables at Rosehill Gardens.
- Piling break back to follow completion of piling at North Strathfield, Westmead and Parramatta