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

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

Acoustics Advisor		Alternate Acoustics Advisor	(s)	
Dave Anderson		Larry Clark, David Hanson and Sav Shimada		
Document review				
Document			Reviewed	Endorsed / approved
Central Tunnelling Pac				
Various noise		on monitoring reports and records	Y	
Sydney Olympic Park DNVIS Rev 8			Y	15/9/23
Burwood DNVIS Rev 11		Y	15/9/23	
System Wide (Tunnelling) DNVIS Rev 5		Under review		
		North Strathfield DNVIS Rev 6	Under review	
Western Tunnelling Pa	ackage (W			
		Project-wide DNVIS Rev 6	Under review	4.0.10.10.0
Ve	estmead C	OH I&M installation DNVIS Rev B	Y	13/9/23
		6-monthly monitoring report	Under review	
Eastern Tunnelling Pa	скаде (ЕТ			
		Pyrmont Station DNVIS rev C	Under review	
Inspections / site vis	sits			
Date	Locati	on	Details	
	WTP F	arramatta, Westmead	Dave Anderson OC Parramatta dischar	
7 September	Notes: methodology now changed to Horizontal Directional Drilling (HDD) which is lower impact and quicker. Discussed noise mitigation with site supervisor and enviro. Spot noise readings on HDD rig suggest its sound power level is similar to a vacuum truck. Noise blankets in place (although removed later as a safety precaution due to high winds). No issues raised.			
	CTP F	ve Dock, Burwood North	Larry Clark joined t	the ER inspection
14 September	Notes: street sweeper observed parked, engine off			
	Hunter	Street	Dave Anderson OC header cavern min	OH to witness road ing in building above
19 September	Notes: access was provided to an unoccupied building for monitoring (formerly the Skinners Hotel, now in use as the site office during standard hours). Ground borne noise from road header audible between approx. 2045 and 2130. Spot readings were around 35 to 40dBA and the noise was not intrusive. The DNVIS estimated levels up to around 45dBA for this activity. No issues raised.			
20 September	Dive	arramatta, Westmead, Clyde	Larry Clark joined t	•
20 00000000		nspected compressor enclosure at We ble mitigation review. Discussed piling		
		/estmead		OH inspection of I&M
21 September	under re inspecte	compressor noise audible from outside eview), tonal gantry alarm also audible ed, saw cuts completed before 9.30pm	Westmead station site at times (shed not com , noise blankets in plac	(raised previously and plete yet). I&M worksite e. Vacuum truck was the

dominant source. Spot readings of drill rig suggest sound power level around 102dBA (much lower than assumed in the DNVIS). No issues raised.

Acoustic Studio: 202309 monthly AA report SMW 10038 and 19238057 September 23

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
5, 12, 19, 26 September	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
11, 18, 25 September	AFJV, Sydney Metro, ER	Environment meeting, CTP
4 September	Sydney Metro, GLC, ATC	Fortnightly works status
6, 20 September	Sydney Metro, GLC, ER	Environment meeting, WTP
11 September	DPE, ER	Monthly meeting with DPE compliance
28 September	DPE, Sydney Metro, ER, AA	Monthly meeting with DPE
6 September	Sydney Metro, Independent Auditor	Acoustics Advisor Audit Interview

Noise and vibration issues, incidents, recommendations	
Date	Contract / Location and details
Ongoing	OOH ventilation noise at Five Dock exceeding NML – AFJV to respond to AA comments on feasible and mitigation document.
Ongoing	GLC investigated and responded to AA observation of WMD noise OOH exceeding NML with acoustic shed incomplete; discussion of feasible and mitigation continuing.

Examples of good practice in noise and vibration management	
Date	Contract / Location and details
September	CTP using surface miner for ongoing cavern excavation at Five Dock, possible ground borne noise and vibration benefits
7 and 21 September	WTP night shift supervisor showed good grasp of OOH noise mitigation principles and active supervision of work behaviours
September	ET comms and stakeholder team continuing proactive engagement with stakeholders about upcoming wrks and associated impacts

Notes	
Date	Contract / Location and details
Ongoing	Tunnelling of the Hunter Street cavern and turn-back tunnels continuing, including 24/7 works. North heading commencing early October.
Ongoing	Roadheader excavation at Westmead and Clyde
Ongoing	Hammering commenced at North Strathfield and Clyde Dive

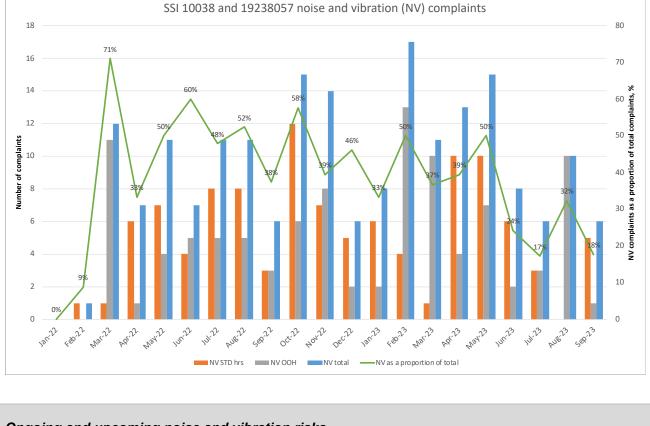
Noise and vibration complaints

6 noise and vibration complaints attributed to Sydney Metro during September:

- 1 from Burwood North regarding concrete trucks,
- 2 from Five Dock regarding noise from the Western site,
- 2 from Pyrmont², regarding demolition noise from the Western site,
- 1 from Hunter Street, regarding demolition noise

5 of the 6 complaints were from standard hours while one of the Five Dock complaints was about night-time (OOH) noise; this is under investigation.

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.



Ongoing and upcoming noise and vibration risks

- Ongoing management of noise impacts at Five Dock and Burwood North.
- Demolition concluding at Pyrmont, excavation starting
- Structural demolition starting at Hunter Street

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