

# ACOUSTICS ADVISOR MONTHLY REPORT

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

For period:	February 2025	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	7 March 2025		

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>			
DNVIS Burwood North Rev 16	Y	5 March 2025	
Weekly Noise Reports 17/1/25, 24/1/25, 31/1/25, 7/2/25	Y	N/A	
DNVIS The Bays Rev 10	Y	28 February 2025	
<b>Western Tunnelling Package (WTP), GLC</b>			
DNVIS Sewer CCTV Inspection works Rev D	Y	26 February 2025	
Three attended monitoring results for forklift surface operation at night, Clyde Dive	Y	N/A	
<b>Eastern Tunnelling Package (ETP), JCG<sup>1</sup></b>			
Weekly realtime monitoring data to 23 February '25		N/A	
Detailed Noise and Vibration Impact Statement - Pyrmont Station: Rev 6	Y	5 February 2025	

Inspections / site visits		
Date	Location(s)	Details
3 February	Harris Street, Pyrmont	Dave Anderson attended residents' home to check on noise and vibration monitoring equipment
	No recent issues with noise and vibration from cavern excavation; monitoring equipment left in place.	
5 February	WTP Parramatta, Westmead, Sydney Olympic Park	Larry Clark attended ER inspection
	Discussion on CFA piling breakback method at Parramatta. Discussion on acoustic shed demo at Westmead. Discussion on coordination with CTP for respite from High Noise Intensive Works.	
6 February	CTP The Bays	Larry Clark attended ER inspection
	Noted implementation of respite from High Noise Intensive Works.	
13 February	CTP Sydney Olympic Park, Burwood North, Five Dock, The Bays	Larry Clark attended ER inspection
	Discussion on addressing potentially tonal noise from vent fan at Burwood North.	
18 February	ETP Hunter Street, including tunnels, and Pyrmont.	Larry Clark attended ER inspection
	Shed doors observed to be shut. Discussion on the upcoming change to respite periods to make them consistent across both Hunter St sites. Discussion on road header excavation in the vicinity of 170 Harris St. Roadheader is being used instead of hammering for benching. Discussion on noises associated with upcoming piling at Hunter St west and opportunities for mitigation.	
20 February	CTP Five Dock, Burwood North, North Strathfield, Sydney Olympic Park	Larry Clark OOHV inspection
	No surface works at Five Dock and North Strathfield. Discussion on mitigation measures for generator at Burwood North. Monitor for NML compliance verification of concrete drop pipe deliveries at Sydney Olympic Park.	

<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

26 February	WTP Clyde Dive, including dive tunnel to view LEM in operation.	Larry Clark joined ER inspection
	Discussion on use of exclusion zone to eliminate forklift reversing alarm, and lights to eliminate tower crane overhead load alarm.	
20 February	<i>Hunter Street and Pyrmont</i>	<i>Dave Anderson OOH inspection</i>
	<i>Hunter Street East 9pm to 9.45pm, Pyrmont East and West 10pm to 10.45pm, return to Hunter Street East 11pm to 11.45pm. Accompanied by Michael Whittaker from JCG. Issues discussed on site included: tonal alarm on EWP and noisy HIAB crane engine at Hunter East; shed door open at Pyrmont West, gantry crane movement alarms at both Pyrmont sites.</i>	

### Meeting

Date	With	Purpose
3, 10, 17 February	AFJV, Sydney Metro, ER	Environment meeting, CTP
10, 24 February	Sydney Metro, GLC, ATC	Fortnightly works status
4, 11, 18, 25 February	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
5, 19 February	Sydney Metro, GLC, ER	Environment meeting, WTP
10 February	DPHI, ER	Monthly meeting with DPHI compliance
(6 March)	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals – deferred to 6 March

### Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
20 February	CTP Burwood North: generator potentially exceeding night NML. Additional noise mitigation implemented by AFJV and subsequent AFJV monitoring reported generator inaudible at project / receiver boundary.

### Examples of good practice in noise and vibration management

Date	Contract / Location and details
20 February	JCG environmental advisor attended the AA OOH inspection at Hunter Street and Pyrmont sites and was proactive in identifying and acting on noise and vibration mitigation, including immediate discussions with site staff to discuss and implement additional controls, where feasible.
20 February	Use by GLC at Clyde Dive of exclusion zone to eliminate forklift reversing alarm, and lights to eliminate tower crane overhead load alarm.

### Ongoing and upcoming noise and vibration risks

ETP:	<ul style="list-style-type: none"> <li>Pyrmont: Cavern excavation continuing 24/7, cross passage excavation to commence soon.</li> <li>Hunter Street: shaft excavation and piling works</li> </ul>
CTP:	<ul style="list-style-type: none"> <li>Demob and demolition at Five Dock. Managed by comms notifications and consultation.</li> </ul>
WTP:	<ul style="list-style-type: none"> <li>Piling near stables for high voltage slab protection works.</li> </ul>

## Noise and vibration complaints

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

Location / activity	Standard hours	Out of hours	Both standard and out of hours
Westmead			
Parramatta			
Clyde / Rosehill			
Sydney Olympic Park		1	
North Strathfield			
Burwood North	1	1	1
Five Dock	1		
The Bays	1		
Pyrmont	3	1	2
Hunter Street	3	3	
Tunnelling ETP CTP WTP	1	1	
<b>Total</b>	<b>10</b>	<b>7</b>	<b>3</b>

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 shown here may be less than the sum of standard and OOH complaints.

