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TM372-02-1-03F14 SMW-ETP_ADD_DNVIS-HSW-OOHW concreting (r4)

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Sydney Metro West Eastern Tunnelling Project - Addendum DNVIS - Hunter Street Station - OOH Concrete Pour at HSW

1 Introduction

A Detailed Noise and Vibration Impact Statement (DNVIS) has been prepared for the ETP Hunter Street Station surface worksites [1](the Hunter Street Station DNVIS). The DNVIS was prepared on behalf of John Holland CPB Contractors Ghella Joint Venture (JCG) to meet the requirements of Planning Approval (SSI 19238057) Condition D29 and the Sydney Metro Construction Noise and Vibration Standard (CNVS)[2] for the construction of the Sydney Metro West – Eastern Tunnelling Package (ETP) Works.

This Addendum DNVIS has been prepared consistent with the Hunter Street Station DNVIS to assess changes in the scope of works assessed in the DNVIS.

1.1 Changes to DNVIS assessed in this Addendum

This Addendum DNVIS assesses potential noise and vibration impacts from the delivery of concrete to the Hunter Street Station West worksite outside standard construction hours for the permanent lining of the station cavern. Table 1-1 summarises the proposed changes to the activities described in the Hunter Street Station DNVIS.

Table 1-1: Changes to construction works addressed in this DNVIS Addendum

Site	Change to construction works	Change to DNVIS?	Comment
Hunter Street East	No change to activities at Hunter Street East.	No	Hunter Street Station DNVIS Table C1-1 assumptions remain unchanged.
Hunter Street West	Concrete delivery during standard hours and out-of-hours (OOH) work periods.	Yes	Additional activities not included in the Hunter Street Station DNVIS Table C1-2 are outlined in Section 2 and Table C1 in APPENDIX C.

2 Construction works and hours

2.1 Construction works addressed in this Addendum DNVIS

2.1.1 Location of works

The works assessed in this addendum DNVIS include the works for the delivery of concrete to the Hunter Street West Site for the permanent lining of the Hunter Street cavern. The activity comprises four main steps:

(i) concrete agitator arrives on site and idles in the staging area on Hunter Street (within the existing ancillary facility);

(ii) concrete agitator moves to the testing/ mixing location on the work platform;

(iii) concrete agitator moves to the pump location and discharges to the concrete pump on the work platform; and

(iv) Concrete washout will occur at the pump location prior to the concrete agitator departing site.

There will be up to five concrete trucks on site at any time, at the different steps described above (see Table C1 in APPENDIX C for assumptions). The site layout and plant locations are identified on Figure C2-1 in APPENDIX C.2.

2.1.2 Construction works

The additional works assessed in this addendum DNVIS will be undertaken during both standard hours and OOH periods. The works are summarised in Table 2-1.

Table 2-1: Summary of construction works under this addendum DNVIS

Activity/ work area	Aspect	Construction hours	Applicable CoA/ EPL Condition (OOHW)	Timing of activity
Western worksite				
OOH concrete pours	Revised Cavern Lining from HSW (HW-OCH-B; HW-OCH-B1)	Standard hours + OOHW (E/N)	CoA D23(c)	Apr 26 (6 months)
Concurrent activities as per Hunter Street Station DNVIS	Excavation, including spoil haulage (**HWSE(20m)**)	Standard hours + OOHW (E)	CoA D39 | EPL L5.12 (Rock breaking & Respite)	Apr-25 to Mar-26
	Ground support works (**HWSW(20m)**)	Standard hours + OOHW (E)	CoA D39 | EPL L5.12 (Rock breaking & Respite)	May-25 to Mar-26
	Saw cutting rock at base of shaft (**HW-SC1**)	Standard hours + OOHW (E/N)	CoA D23(b) | EPL L5.3	Jan-26 to Mar-26
Eastern worksite				
Concurrent activities as per Hunter Street Station DNVIS	S2 Tunnel Lining (concreting/ deliveries) (HE2-TL; HE2-TL-BLIGH; HE2-TL2'; HE1-TL; **HE1-TL-C**)	Standard hours + OOHW (E/N)	CoA D23(d) | EPL5.10	Nov 25 to Oct-26

Activity/ work area	Aspect	Construction hours	Applicable CoA/ EPL Condition (OOHW)	Timing of activity
	S2 Excavation of northern portion of shaft (including spoil haulage) (**HE-SE-20m**)	Standard hours + OOHW (E)	CoA D23(b) | EPL L5.3	Feb-25 to May-26
	S2 Ground support works (**HESW(20m)**)	Standard hours + OOHW (E)	CoA D39 | EPL L5.12 (Rock breaking & Respite)	Feb-25 to May-26
	Saw cutting rock at base of Stage 2 (**HE-SC2**)	Standard hours + OOHW (E/N)	CoA D23(b) | EPL L5.3	Nov-25 to Mar-26

2.1.3 Construction traffic

No new construction traffic routes are proposed for the scope of works addressed in this addendum DNVIS. Based on the proposed activities presented in Table C1 in APPENDIX C, the construction traffic is consistent with what was assessed in the Hunter Street Station DNVIS. No further assessment is required.

2.1.4 Ground-borne noise and vibration

There are no new vibration intensive activities required for these works. No further assessment is required.

2.2 Construction Hours

Construction hours are as reported in the Hunter Street Station DNVIS Section 2.2.

The OOH concreting works at Hunter Street Station West will be undertaken during standard hours and out of hours (OOH) work periods. A variation to the Environmental Protection Licence (EPL) is being sought to permit the works between 6pm and 7am. If approved, the works will be completed under condition D23(c)(i).

2.2.1 Justification for OOHW

JCG require extended hours of concrete deliveries at the Hunter Street West site to ensure concrete quality requirements and design specifications can be achieved. Concrete pumping for the permanent lining of the station cavern has been relocated from the Hunter Street East site to Hunter Street West due to space requirements at Hunter Street East. Concrete pours for the turnback tunnels will continue from Hunter Street East.

The current arrangement for supply of concrete to the Hunter Street Cavern involves the use of a drop pipe at the Hunter Street East Site. The maximum concrete delivery rate through the Hunter Street East drop pipe is 16m3 per hour. Taking the example of a 684m^3 pour, the total concrete pour time would be 43 hours which would noise affect nearby stakeholders as described in the Hunter Street DNVIS and affect other works in the Hunter Street tunnel.

Establishing the proposed concrete pumping arrangement at the Hunter Street East Site (instead of Hunter Street West) would have significant impacts on nearby stakeholders including the Radisson Hotel and would also impact on logistics for tunnel deliveries to the site. Utilising the Hunter Street West platform for concrete deliveries reduces the total quantity of concrete agitators required to access the Hunter Street East platform and reduces the impact on nearby stakeholders including residents at 16 O'Connell Street.

The pours will be completed over 6 months. The pours are planned to be completed within 10 to 15 hours, between 7 am and 10 pm. On 16 occasions there will be a need for concrete pours to occur during the night period.

Table 2-2: Hunter Street West concrete pour out-of-hours work requirements

Concrete pour location	Approx Start Date (duration)	Frequency	Working hours*	Construction hours
Station Cavern	Mid April 2026 (6 months)	27 pours in 24 weeks = 1-3 pours/week	13no. x 15 hours pour 16no. x 25 hour pour	Standard hours + OOHW (D/E) Standard hours + OOHW (D/E/N)

Note: * Standard construction hours = 11 hours (7am to 6pm, weekdays); Evening (E) = 4 hours (6pm to 10pm); Night (N) = 9 hours (10pm to 7am, weekdays)

3 Construction noise and vibration objectives

The Hunter Street Station DNVIS Section 3 describes the Land Use Survey and Noise Catchment Areas used to identify sensitive receivers potentially impacted by the Project and establish receiver groups for the purpose of assessment and management of impact.

Construction noise and vibration objectives are detailed in the CNVS Section 2. A summary of the objectives as applicable to the Hunter Street Station works is provided in Table 4.1 of the Hunter Street Station DNVIS. Construction noise objectives specific to these works are presented in Table B1 in APPENDIX B of this report.

4 Construction noise and vibration assessment

4.1 Construction activities and work areas

The assessed construction scenarios are presented in Table 4-1. Assumptions regarding construction activities, plant and equipment and hours of operation for works assessed in this Addendum are presented in Appendix C.1 and C.2. Results have been provided for the 'no mitigation' option, with no additional physical noise reduction measures other than what is currently on site, and for the mitigated design, as presented in Appendix C.2 to C.4.

Cumulative impacts from works being undertaken at Hunter Street East have been considered in the noise assessment, based on information provided in the DNVIS, namely the S2 Tunnel Lining (concreting/deliveries), including delivery of concrete (from platform).

No high noise impact or vibration significant plant and equipment are required for the OOH concreting works.

Table 4-1: Assessed construction scenarios

Construction activity	Scenario ID	High impact item	Vibration significant item
Western worksite			
Revised Cavern Lining from HSW (no mitigation)	HW-OCH-B	No	No
Revised Cavern Lining from HSW (with mitigation)	HW-OCH-B1	No	No
Concurrent activity *as per Hunter Street Station DNVIS and summarised in Table 2-1*	*HWSE(20m); HWSW(20m); HW-SC1*	*Assessed in DNVIS*	*Assessed in DNVIS*
Eastern worksite			
Concurrent activity *as per Hunter Street Station DNVIS and summarised in Table 2-1*	*HE1-TL-C;* HE-SE-20m; HESW(20m); HE-SC2	*Assessed in DNVIS*	*Assessed in DNVIS*

4.2 Airborne noise assessment

The airborne noise prediction methodology is consistent with the Hunter Street Station DNVIS (Section 5.1). Airborne noise impacts during construction works have been predicted and compared to the noise management levels (NMLs). A receiver is considered construction noise affected when the predicted construction noise level is above the NML.

Table 4-3 and Table 4-4 present a summary of the number of residential receivers and other sensitive receivers (respectively) likely to be noise affected by the additional activities associated with the works. The tables are colour coded to indicate how much the predicted noise level is above the NML and the corresponding perceived noise impact, based on the CNVS, as noted in Table 4-2.

Table 4-2: Key to the predicted construction airborne noise results tables

Assessment	Time of day	Key			
$L_{Aeq(15min)}$ Residential	Standard hours[1] or Outside standard hours	1-10 dB(A) above NML (light green)	11-20 dB(A) above NML (yellow)	21-30 dB(A) above NML (orange)	>30 dB(A) above NML (purple)
$L_{Aeq(15min)}$ OSR	Standard hours or Outside standard hours	1-2 dB(A) above NML (green)	2-5 dB(A) above NML (light green)	5-10 dB(A) above NML (light yellow-green)	>10 dB(A) above NML (yellow)
Sleep disturbance	Night only	$L_{Aeq,15min}$ above 40 dB(A) or RBL plus 5 dB, whichever is the greater (yellow)		L_{Amax} above 52 dB(A) or RBL plus 15 dB, whichever is the greater (purple)	

Notes: 1. Highly noise affected (HNA) which is greater than 75dB(A) during standard construction hours is shown with Bold text and applies to residential receiver buildings only.

Table 4-3: Number of residential receivers over the airborne noise management levels (all NCAs)

Construction activity	Scenario ID	Highly noise affected[1]	Day (standard hours)				Day (outside standard hours)				Evening				Night				Sleep disturbance	
		L_{Aeq}	L_{Aeq}				L_{Aeq}				L_{Aeq}				L_{Aeq}				L_{Aeq}	L_{Amax}
		> 75 dB(A)	1 – 10 dB(A)	11 – 20 dB(A)	21-30 dB(A)	> 30 dB(A)	1 – 10 dB(A)	11 – 20 dB(A)	21-30 dB(A)	> 30 dB(A)	1 – 10 dB(A)	11 – 20 dB(A)	21-30 dB(A)	> 30 dB(A)	1 – 10 dB(A)	11 – 20 dB(A)	21-30 dB(A)	> 30 dB(A)	> 40 or RBL+5 dB(A)	> 52 or RBL+15 dB(A)
Revised Cavern Lining from HSW (no mitigation)	HW-OCH-B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Revised Cavern Lining from HSW (with mitigation)	HW-OCH-B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative HW-OCH-B1 and *HWSE(20m); HWSW(20m);* HE-SE-20m; HESW(20m)	HW-OCH-C1	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Cumulative HW-OCH-B1 and HE1-TL-C	HW-OCH-C2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Cumulative HW-OCH-B1 and HW-SC1; HE-SC2	HW-OCH-C3	1	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-

Note: Construction noise level cells are shaded based upon the predicted worst case NML exceedance in accordance with the key presented in Table 5.2

1. Highly noise affected applies to residential receivers, as per the ICNG (not applicable during the evening or night period).

Table 4-4: Number of other sensitive receivers over the airborne noise management levels (all NCAs)

Construction activity	Scenario ID	Educational[1, 2, 3]				Medical[1, 2, 3]				Recreational[1, 2, 3]				Place of worship[1,2, 3]				Commercial[1, 2]				Hotel/Motel/ Hostel[1,2, 4]				Other[1, 2]			
		L_{Aeq}				L_{Aeq}				L_{Aeq}				L_{Aeq}				L_{Aeq}				L_{Aeq}				L_{Aeq}			
		1 – 2 dB(A)	2 – 5 dB(A)	5-10 dB(A)	> 10 dB(A)	1 – 2 dB(A)	2 – 5 dB(A)	5-10 dB(A)	> 10 dB(A)	1 – 2 dB(A)	2 – 5 dB(A)	5-10 dB(A)	> 10 dB(A)	1 – 2 dB(A)	2 – 5 dB(A)	5-10 dB(A)	> 10 dB(A)	1 – 2 dB(A)	2 – 5 dB(A)	5-10 dB(A)	> 10 dB(A)	1 – 2 dB(A)	2 – 5 dB(A)	5-10 dB(A)	> 10 dB(A)	1 – 2 dB(A)	2 – 5 dB(A)	5-10 dB(A)	> 10 dB(A)
Revised Cavern Lining from HSW (no mitigation)	HW-OCH-B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	4	1	1	2	1	1	0	0	0	0
Revised Cavern Lining from HSW (with mitigation)	HW-OCH-B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	2	0	1	2	0	0	0	0	0	0
Cumulative HW-OCH-B1 and *HWSE(20m); HWSW(20m);* HE-SE-20m; HESW(20m)	HW-OCH-C1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0
Cumulative HW-OCH-B1 and HE1-TL-C	HW-OCH-C2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0
Cumulative HW-OCH-B1 and HW-SC1; HE-SC2	HW-OCH-C3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

Note: Highly noise affected does not apply to OSRs, as per the ICNG.

1. Commercial, recreational and other sensitive receivers have been assessed against the respective NMLs (see Table B1 in APPENDIX B), and exceedances have been presented in the count table. 'Other' includes industrial receivers, theatre, television or recording studios. For more detail on specific impacts to receivers refer to Appendix D (Table D.1) in the Hunter Street Station DNVIS
2. Impacts only applicable when facility is in use.
3. Other sensitive receivers are land uses detailed and assessed as per the ICNG Table 3.
4. Non-bracketed values are assessed against the Hotel night NML (interior noise level of 40 dB(A)), bracketed values are assessed against the day and evening NML (interior noise level of 50 dB(A)).

4.2.1 Residential receivers and hotels

4.2.1.1 Standard construction hours

The results summarised in Table 4-3 show that no residential receivers are construction noise affected by the concrete works during standard construction hours. The two nearest hotels, the A by Adina hotel, and The Grand Hotel will be construction noise affected during standard construction hours if no additional noise mitigation measures are incorporated into the site design. Reasonable and feasible mitigation measures have been incorporated into the site design to reduce noise from the concreting works. With these measures in place, concreting activities are below the NML for hotels during standard construction hours.

The Hunter Street Station DNVIS identified that the nearest sensitive receivers to the Hunter Street worksites, including the residential receiver at 16 O'Connell Street and the A by Adina hotel, The Grand Hotel and the Paradox Hotel will be construction noise affected during standard construction hours by the construction works at Hunter Street East and West, including excavation of the shaft. The results summarised in Table 4-3 and Table 0 in APPENDIX D show that during standard hours, the current site work (including excavation of the shaft) will dominate over the concreting works and there is minimal change (<1dB) in the overall construction noise levels at the nearest residential and hotel receivers.

4.2.1.2 Out of hours work

During the night period, Table 4-3 identifies that there are no residential receiver buildings impacted by the OOH concreting at Hunter Street West. Considering potential cumulative impacts from concurrent concreting works at Hunter Street east, the OOH concreting at Hunter Street West does not contribute to the overall noise levels at residential receivers.

The two nearest hotels, the A by Adina hotel, and The Grand Hotel will be construction noise affected during out of hours evening and night periods if no additional noise mitigation measures are incorporated into the site design. Reasonable and feasible mitigation measures have been incorporated into the site design to reduce noise from the concreting works. With these measures in place, concreting activities are below the NML for hotels during the evening period. Predicted noise levels are within 5 dB of the NML at night.

The Hunter Street Station DNVIS identified that the nearest sensitive receivers to the Hunter Street worksites, including the residential receiver at 16 O'Connell Street and the A by Adina hotel, The Grand Hotel and the Paradox Hotel will be construction noise affected during out of hours work by the construction works at Hunter Street East and West. The results summarised in Table 4-3 and Table 0 in APPENDIX D show that during the evening period, the current site work (including excavation of the shaft) will dominate over the concreting works and there is minimal change (<1dB) in the overall construction noise levels at the nearest residential and hotel receivers. During the night period, tunnel lining works at Hunter Street East will dominate construction levels at the hotels closer to the Hunter

Street East worksite. At the A by Adina hotel and The Grand Hotel the concreting work at Hunter Street west will dominate. There may be up to 2 dB increase at The Grand Hotel as a result of cumulative impact from the tunnel lining works at Hunter Street East.

Mitigation and management measures summarised in Section 9 of the Hunter Street Station DNVIS will continue to be implemented during the OOH works. Mitigation measures specific to the assessed OOH works (including monitoring requirements) are discussed in Section 5.

4.2.1.3 Sleep disturbance

There are no sleep disturbance impacts on residential receivers during the OOH concreting works at Hunter Street West.

The results summarised in Table 4-3 show that the two nearest hotels, the A by Adina hotel, The Grand Hotel may experience construction noise levels above the L_{Amax} sleep disturbance criteria. This is most likely to occur when trucks are accessing and egressing from site. During the pouring, the trucks will be mitigated as described in Section 5.

5 Mitigation and management measures

5.1 Specific mitigation measures

In addition to the mitigation and management measures outlined in Section 9 of the DNVIS, the following specific mitigation measures will be implemented as applicable during the OOH works associate with the completion and use of the site platforms, taking into consideration industry best practice methods in accordance with Planning Condition of Approval D28.

Table 5-1: Specific mitigation measures

Control measure	Description of the control measure	Feasible/ reasonable test	Adopted?
Limit OOHW activities identified in Table 2-1	OOH works would be limited to manage noise emission from site to the plant and activities nominated in Table C.1: Construction timetable/ activities/ equipment HUNTER STREET STATION (HUNTER WEST)	This measure could be feasibly and reasonably implemented.	Yes
Replace diesel concrete line pumps with electric	Noise from the line pump is mostly generated by the swing tube pushing the concrete through the pump, not the diesel engine, so no noise benefit from electric pump. In addition, the electric pump would require a large diesel generator with a similar engine size as the pump.	This measure is not reasonable as there is not sufficient noise benefit from the alternative pump.	No
Arrange plant and equipment on site to optimise mitigation	Concrete agis and pumps relocated from driveway to north east corner of platform to optimise noise reduction from barriers and enclosures to sensitive receivers (especially Adina and Grand hotels). Mixing truck relocated from staging area on Hunter Street to platform to increase distance and reduce noise to receivers. (see Figure 2-2 Option A in APPENDIX C).	This measure could be feasibly and reasonably implemented.	Yes

Control measure	Description of the control measure	Feasible/ reasonable test	Adopted?
Acoustic shed for Hunter Street West platform	Acoustic shed to cover entire Hunter Street West platform, enclosing all plant items with sound insulation/absorption specifications designed by Renzo Tonin & Associates.	Not feasible to construct an acoustic shed on the site large enough to house all plant items.	No
Acoustic enclosure for concrete line pumps	Temporary acoustic enclosure to completely enclose concrete line pumps (see Figure C2-1 Option B and Table C4 in APPENDIX C). The enclosure has allowance for a 1 metre opening along the bottom of the northern side of the enclosure (parallel to Hunter Street) for ventilation.	This measure could be feasibly and reasonably implemented.	Yes
Acoustic enclosure for concrete truck discharge point and washout	Expand temporary acoustic enclosure for concrete line pumps to completely enclose pump and concrete agitator truck during discharge to pump. Similar enclosure for wash out station and concrete agitator truck.	This measure is not feasible as there is insufficient space on site to accommodate the larger enclosures. In addition, this did not provide sufficient noise reduction (<2dB) compared to concrete line pump enclosure.	No
Temporary noise barrier (4m) around concrete agi and pump work area on platform	Install temporary noise barrier 4 metres high along the edge of the construction work platform at Hunter Street West to shield concrete agis and pumps from sensitive receivers. (see Figure C2-1 Option B and Table C3 in APPENDIX C). The barrier will allow a 1 metre opening along the bottom of the northern side of the enclosure (parallel to Hunter Street) for ventilation of the enclosure.	This measure could be feasibly and reasonably implemented.	Yes
Temporary noise barrier (4m) around staging area on Hunter Street	Temporary noise barrier 4 metres high located at northern and eastern side of staging area on Hunter Street worksite to shield noise to sensitive receivers (see Figure C2-1).	This measure is not feasible as there was insufficient noise reduction (less than 2 dB) due to elevated receivers and it would block emergency access to George Street.	No
Relocate concrete testing/ mixing to Hunter East worksite	Concrete mixing and testing must be completed immediately prior to the concrete being poured on site for quality control. This creates an additional concrete discharge point within the Hunter Street West worksite. Relocation of the mix/ test facility to the Hunter East worksite would reduce this noise.	This measure is not reasonable as there is insufficient noise reduction (<1 dB) from relocating the agi. This would also potentially increase impacts to receivers at Hunter Street East.	No
During night pours spin agitator bowls on slow rotation during concrete wash out	Limit noise emission from concrete washout. After 10:00 PM concrete wash out will be undertaken with the agitator bowls on slow rotation only (i.e. no high speed rotation) with a hose. Drivers will complete a thorough wash out back at the concrete supply yard (if necessary).	This measure could be feasibly and reasonably implemented.	Yes
Low pressure hose for concrete washout	All concrete washouts will be undertaken using a low pressure hose only.	This measure could be feasibly and reasonably implemented.	Yes
Provide respite from concrete pours at night	Provide a minimum of 2 nights respite following each 24 hour pour.	This measure could be feasibly and reasonably implemented.	Yes

Control measure	Description of the control measure	Feasible/ reasonable test	Adopted?
Supervision of OOHW	Supervision of OOHW by JCG will occur during all pours. Additional OOH inspections and monitoring (see Section 5.4) will be undertaken by the JCG environment team.	This measure could be feasibly and reasonably implemented.	Yes
Sitewide			
Switch off plant not in use.	Any plant not in use for an extended period (e.g. delivery trucks) would be switched off and not left idling on site.	This measure could be feasibly and reasonably implemented.	Yes
Traffic control to manage traffic on Hunter Street	Traffic management measures have been implemented at Hunter Street West, including road closure, to allow easier access and egress of delivery trucks to the site (including concrete trucks). Unnecessary stopping will be limited.	This measure could be feasibly and reasonably implemented.	Yes
Alternative audible alarms, such as 'quackers'	All plant would be fitted with non-tonal audible alarms as a minimum.	This measure could be feasibly and reasonably implemented.	Yes
Toolbox talks	Toolbox Talks will be provided to all personnel involved in the OOH works (as per the DNVIS), specifically targeted to manage the noise impacts from tunnelling support deliveries. Toolbox talks should encourage employees to limit the occurrence of high instantaneous noise sources that may trigger sleep disturbance by following good behavioural practices, including: - No unnecessary shouting or loud stereos/radios on site. - No dropping of materials from height, throwing of metal items and slamming of doors. - No unnecessary revving of plant and vehicle engines. - No unnecessary use of compression engine braking unless required for safety - No unnecessary signalling with horns - Ensure concrete agi drivers are instructed to undertake concrete wash out with the agitator bowls on slow rotation only (i.e. no high speed rotation) at night.	This measure could be feasibly and reasonably implemented.	Yes

5.2 Additional noise mitigation measures

The steps to be carried out to determine the additional airborne noise management measures to be implemented are identified in Section 9.4.1 of the DNVIS. Prior to the commencement of works, receivers identified in APPENDIX D will be notified to advise that noise from the works may at times be audible. Additional airborne noise management measures will be implemented as per D.3.

5.3 Consultation with noise affected receivers

The following proposed actions will be completed by the Communications Team prior to the OOH concrete works from Hunter Street West. JCG JV will start proactively engaging with stakeholders prior to the activities occurring and in accordance with the CNVS. Further details regarding consultation completed to date are provided in APPENDIX E.

Table 5-2: Proposed consultation plan prior to commencement of and during OOHW

Date	Item	Status
February 26	Face to face meetings and consultation with key stakeholders	In progress
March 26	Monthly notification	To commence
One week prior	Work notification	To commence
One week prior	Weekly email updates (ongoing) – work updates	To commence
One week prior	Direct emails to key stakeholders	To commence

5.4 Attended airborne noise monitoring

Consistent with Section 9.6.1 of the DNVIS, attended noise monitoring is to be undertaken to verify that noise levels resulting from the OOH concrete works at Hunter Street West are in accordance with (or below) the levels predicted in this report and confirm that all feasible and reasonable mitigation measures detailed in Section 5 and Section 9.3 of the DNVIS have been implemented.

Attended noise monitoring will be completed at the nominated receiver locations, subject to gaining access to properties. Where access to properties is denied, monitoring will be undertaken in publicly accessible areas on or near the nominated receivers. The nominated monitoring locations are:

Table 5-3: Nominated verification monitoring locations

Type of monitoring	NCA/ Receiver type	Nominated receiver address
Fixed, real-time	NCA06	HUN-W_NM1 – The Ivy (office printer room), 320 George St, SYDNEY*
Fixed, real-time	NCA06	1 HUN-W_NM2 - 10 Hunter Street, SYDNEY*
Attended	OSR (HOTEL)	A by Adina, L2-15_2 HUNTER STREET, SYDNEY
Attended	OSR (HOTEL)	The Grand Hotel, 30 HUNTER STREET, SYDNEY
Attended	HSW_NM1	10 Hunter Street (Street Level)
Attended	HSW_NM2	99 Pitt Street (Street Level)
Attended	HSW_NM3	300 George Street (Street Level)

Verification monitoring will be consistent with the DNVIS and the CNVMP (Appendix A), supplemented with the following verification process:

1. Site noise level checks

Noise monitoring would be undertaken on site to confirm plant sound power levels are consistent with (or below) the assumptions in Table C1 in APPENDIX C. Noise monitoring would be conducted during the daytime to confirm noise levels from plant items are at or below the levels prescribed in Table C1 before commencing use during the OOHW period. If measured noise levels are above the levels reported in Table C1, additional mitigation measures will be considered (where reasonable and feasible) to reduce noise levels from the identified source prior to its operation during the OOHW period or manage impacts as described in Section 5.2.

2. Initial and ongoing noise checks at receiver monitoring locations
Noise monitoring would be undertaken and compared to the predicted noise levels and the noise management levels for the evening and night period. Site inspection should be undertaken to confirm that all reasonable and feasible mitigation measures detailed in Section 5.1 above and Section 9.3 of the DNVIS have been implemented.

6 Impact classification

The impact classification from Section 10 of the DNVIS has been reviewed taking into consideration the outcomes of this Addendum assessment report. The predicted noise levels summarised in Section 4 indicate there is minimal change in noise impact during the day and evening period. At night there is up to 5 dB exceedance of the NML at the two hotels opposite the worksite (A for Adina hotel and The Grand Hotel). There is no impact to residential receivers.

There is no change in ground-borne noise, vibration or traffic noise impact as a result of the works.

Impacted receivers are consistent with those identified as construction noise impacted in the DNVIS. The duration of the OOH concreting works, approximately 6 months from mid-April 2026 (as noted in Table C1 in APPENDIX C of this Addendum) is within the duration of tunnel lining works at Hunter Street East (as noted in Table C1-2 in APPENDIX C of the DNVIS).

The impact classification for the OOH concreting works (mitigated) from Hunter Street West is **low** to **moderate** during the standard hours and evening period consistent with the classification in the DNVIS. During the night period the impact classification is considered **moderate** as noise from the works are above the NML at two hotel receivers.

Whilst predicted noise levels from the OOHW were found to exceed the NMLs, the impacts will be managed through the mitigation and management measures outlined in Section 9 of the DNVIS and Section 5 of this Addendum report, including suitable community notification and additional mitigation measures (as noted in Table D.3 in APPENDIX D) regarding the works and noise monitoring to verify noise levels.

7 Conclusion

In conclusion, works associated with the following construction activities have been described in this Addendum DNVIS to identify potential environmental risks associated with construction noise and vibration from the OOH concrete pours to be facilitated from the Hunter Street West worksite.

Construction noise and vibration objectives have been established in the DNVIS, consistent with the conditions of approval for the Project and the EIS.

Construction airborne noise

The predicted airborne noise levels during concrete pours at Hunter Street West are consistent with the predicted noise levels in the DNVIS during the standard hours and evening period. Predicted noise from the concrete works are higher than the predicted noise levels in the DNVIS at night. Reasonable and feasible physical noise mitigation measures in addition to the measures identified in the Hunter Street Station DNVIS (refer to Section 5.1) will be implemented to reduce noise towards the NML.

There are no noise affected residential receivers as a result of the OOH concreting works. The identified noise affected 'other sensitive receivers' (two hotels) are within 5 dB of the NML, with physical mitigation measures in place. Additional mitigation measures are identified in Table D.3 (APPENDIX D).

Construction ground-borne noise and vibration

There are no vibration significant plant or equipment proposed to be used during the OOH works. Ground-borne noise and vibration impacts are unchanged from the impacts presented in the DNVIS.

Document control

Date	Revision history	Non-issued revision	Issued revision	Prepared	Instructed	Reviewed / Authorised
06.02.2026	Initial issue (unchecked)	-	0	T.Gowen	-	-
10.02.2026	Updated following review	-	1	T.Gowen	-	M. Tabacchi
23.02.2026	Respond to AA/ER/SM comments	-	2	T.Gowen	-	M. Tabacchi
02.03.2026	Additional AA/SM comments	-	3	T.Gowen	-	M. Tabacchi
16.03.2026	Respond to EPA comments	-	3.1	T.Gowen	-	M. Tabacchi

File Path: R:\AssocSydProjects\TM351-TM400\TM372 mt SMW - Eastern Tunnelling Pkge\1 Docs\03 HUNTER ST\TM372-02-1-03F14 SMW-ETP_ADD_DNVIS-HSW-OOHW concreting (r3.1).docx

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References

[1] Renzo Tonin & Associates 2023 Sydney Metro West Eastern Tunnelling Package - Detailed Noise and Vi-bration Impact Statement – Hunter Street Station – 24 May 2023 (TM372-02-1-03F01 SMW-ETP_DNVIS-HUN (revB))

[2] Sydney Metro Construction Noise and Vibration Standard Version 4.3 (SM-20-00098866) – 4 November 2020

[3] Transport for NSW Construction Noise and Vibration Strategy (ref: ST-157/4.1) April 2019

[4] Sydney Metro West Out-of-hours Work Protocol (in progress)

[5] SLR Consulting Australia Pty Ltd 2021 Sydney Metro West - Major civil construction between The Bays and Sydney CBD - Technical Paper 2: Noise and Vibration October 2020

[6] Sydney Metro 2022 Sydney Metro West – Submissions Report - Major civil construction between The Bays and Sydney CBD

[7] Department of Environment and Climate Change 2009 NSW Interim Construction Noise Guideline (ICNG)

[8] Environment Protection Authority 2017 NSW Noise Policy for Industry (NPfI)

[9] Department of Environment, Climate Change and Water 2011 NSW Road Noise Policy (RNP)

[10] Department of Environment Conservation NSW 2006 Assessing Vibration; a technical guideline

[11] Environment Protection Authority 2000 NSW Industrial Noise Policy (INP)

[12] British Standard BS 6472-2008, Evaluation of human exposure to vibration in buildings (1-80Hz)

[13] Australian Standard AS 2187.2-2006 Explosives - Storage and Use - Use of Explosives

[14] British Standard BS 7385 Part2-1993, Evaluation and measurements for vibration in buildings Part 2

[15] German Standard DIN 4150-3: 2016-12, Structural vibration - Effects of vibration on structures, December 2016

[16] ASHRAE Applications Handbook (SI) 2003, Chapter 47 Sound and Vibration Control, pp47.39-47.40

[17] Australian Standard 2834-1995 Computer Accommodation, Chapter 2.9 Vibration, p16

[18] Australian Standard AS/NZS 2107:2000 Acoustics - Recommended design sound levels and reverberation times for building interiors

APPENDIX A Glossary of terminology

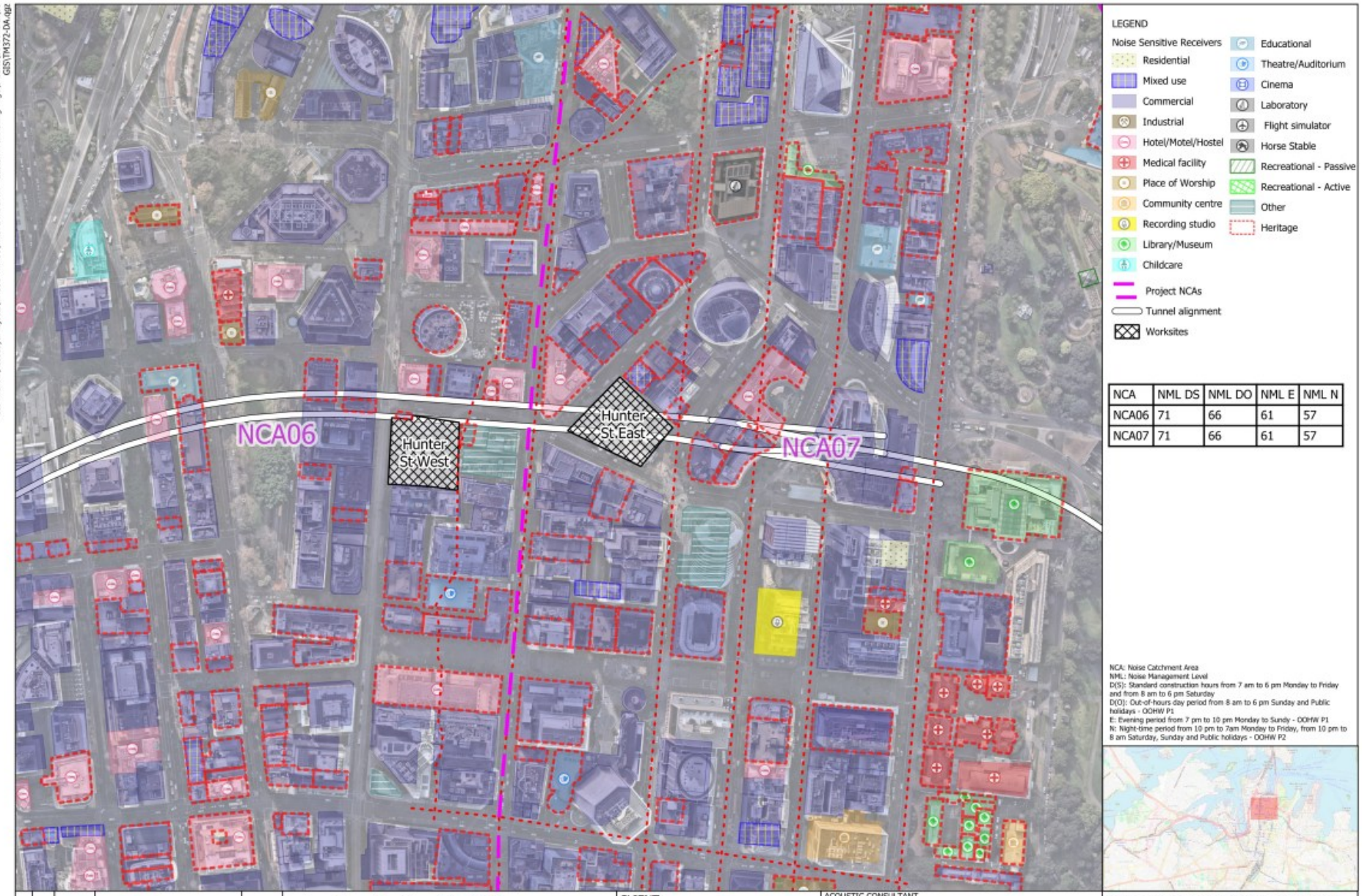
The following is a brief description of the technical terms used to describe noise to assist in understanding the technical issues presented.

Adverse weather	Weather effects that enhance noise (that is, wind and temperature inversions) that occur at a site for a significant period of time (that is, wind occurring more than 30% of the time in any assessment period in any season and/or temperature inversions occurring more than 30% of the nights in winter).
Ambient noise	The all-encompassing noise associated within a given environment at a given time, usually composed of sound from all sources near and far.
Assessment period	The period in a day over which assessments are made.
Assessment point	A point at which noise measurements are taken or estimated. A point at which noise measurements are taken or estimated.
Background noise	Background noise is the term used to describe the underlying level of noise present in the ambient noise, measured in the absence of the noise under investigation, when extraneous noise is removed. It is described as the average of the minimum noise levels measured on a sound level meter and is measured statistically as the A-weighted noise level exceeded for ninety percent of a sample period. This is represented as the L90 noise level (see below).
Decibel [dB]	The units that sound is measured in. The following are examples of the decibel readings of every day sounds: 0dB The faintest sound we can hear 30dB A quiet library or in a quiet location in the country 45dB Typical office space. Ambience in the city at night 60dB CBD mall at lunch time 70dB The sound of a car passing on the street 80dB Loud music played at home 90dB The sound of a truck passing on the street 100dB The sound of a rock band 120dB Deafening
dB(A)	A-weighted decibels. The A- weighting noise filter simulates the response of the human ear at relatively low levels, where the ear is not as effective in hearing low frequency sounds as it is in hearing high frequency sounds. That is, low frequency sounds of the same dB level are not heard as loud as high frequency sounds. The sound level meter replicates the human response of the ear by using an electronic filter which is called the "A" filter. A sound level measured with this filter switched on is denoted as dB(A). Practically all noise is measured using the A filter.
dB(C)	C-weighted decibels. The C-weighting noise filter simulates the response of the human ear at relatively high levels, where the human ear is nearly equally effective at hearing from mid-low frequency (63Hz) to mid-high frequency (4kHz), but is less effective outside these frequencies.
Frequency	Frequency is synonymous to pitch. Sounds have a pitch which is peculiar to the nature of the sound generator. For example, the sound of a tiny bell has a high pitch and the sound of a bass drum has a low pitch. Frequency or pitch can be measured on a scale in units of Hertz or Hz.
Impulsive noise	Having a high peak of short duration or a sequence of such peaks. A sequence of impulses in rapid succession is termed repetitive impulsive noise.
Intermittent noise	The level suddenly drops to that of the background noise several times during the period of observation. The time during which the noise remains at levels different from that of the ambient is one second or more.
L_{Max}	The maximum sound pressure level measured over a given period.
L_{Min}	The minimum sound pressure level measured over a given period.

L_1	The sound pressure level that is exceeded for 1% of the time for which the given sound is measured.
L_{10}	The sound pressure level that is exceeded for 10% of the time for which the given sound is measured.
L_{90}	The level of noise exceeded for 90% of the time. The bottom 10% of the sample is the L90 noise level expressed in units of dB(A).
L_{eq}	The "equivalent noise level" is the summation of noise events and integrated over a selected period of time.
Reflection	Sound wave changed in direction of propagation due to a solid object obscuring its path.
SEL	Sound Exposure Level (SEL) is the constant sound level which, if maintained for a period of 1 second would have the same acoustic energy as the measured noise event. SEL noise measurements are useful as they can be converted to obtain Leq sound levels over any period of time and can be used for predicting noise at various locations.
Sound	A fluctuation of air pressure which is propagated as a wave through air.
Sound absorption	The ability of a material to absorb sound energy through its conversion into thermal energy.
Sound level meter	An instrument consisting of a microphone, amplifier and indicating device, having a declared performance and designed to measure sound pressure levels.
Sound pressure level	The level of noise, usually expressed in decibels, as measured by a standard sound level meter with a microphone.
Sound power level	Ten times the logarithm to the base 10 of the ratio of the sound power of the source to the reference sound power.
Tonal noise	Containing a prominent frequency and characterised by a definite pitch.

APPENDIX B Sensitive receivers and noise management levels

B.1 NCAs and sensitive receiver identification



NCA	NML DS	NML DO	NML E	NML N
NCA06	71	66	61	57
NCA07	71	66	61	57

REV	BY	DATE	DESCRIPTION	APPROVER
r2	HB	19/06/25	Non-receiver update	TG
r1	DA	20/10/23	Heritage update	TG
r0	SS	03/04/23	Prepare figures	TG

B.2 NCAs and noise management levels

Table B1: Noise Sensitive Receivers and Construction Noise Management Levels (airborne noise) **HUNTER STREET STATION**

NCA	Receiver Type	Reference RBL	Existing Noise Levels, dB(A)						Airborne NMLs based on ICNG (external)					Sleep Dist. L_{Amax}		Comments
			RBL Day	RBL Evening	RBL Night	LAeq_D	LAeq_E	LAeq_N	NMLD(S)	NMLD(O)	NMLE	NMLN	NMLMS	$L_{Aeq(15min)}$	L_{AFmax}	
Residential receivers																Nearest worksite
NCA06	Predominantly Residential	B.06	61	56	52	66	62	63	71	66	61	57	62	57	67	Hunter Street
NCA07	Predominantly Residential	B.06	61	56	52	66	62	63	71	66	61	57	62	57	67	Hunter Street
ICNG 'Other sensitive' receivers (NML applicable when in use)																
Classrooms at schools and other educational institutions									55	55	55	55	55	-	-	Source: ICNG Section 4.1.2 Table 3, assuming a conservative façade loss of 10 dB(A)
Hospital wards and operating theatres									65	65	65	65	65	-	-	Source: ICNG Section 4.1.2 Table 3, assuming a conservative façade loss of 20 dB(A)
Places of worship									55	55	55	55	55	-	-	Source: ICNG Section 4.1.2 Table 3, assuming a conservative façade loss of 10 dB(A)
Passive recreation areas (e.g. area used for reading, meditation)									60	60	60	60	60	-	-	Source: ICNG Section 4.1.2 Table 3
Active recreation areas (e.g. sports fields)									65	65	65	65	65	-	-	Source: ICNG Section 4.1.2 Table 3
Commercial premises (including offices and retail outlets)									70	70	70	70	70	-	-	Source: ICNG Section 4.1.3
Industrial premises									75	75	75	75	75	-	-	Source: ICNG Section 4.1.3
Non-ICNG 'Other sensitive' receivers (NML applicable when in use)																
Hotel - daytime and evening									70	70	70	-	-	-	-	Source: CNVS Section 2.2.1 & AS2107 'maximum', assuming atleast 20 dB(A) facade loss
Hotel - night-time									-	-	-	60	60	-	-	Source: CNVS Section 2.2.1 & AS2107 'maximum', assuming atleast 20 dB(A) facade loss
Café/ Bar/ Restaurant									60	60	60	60	60	-	-	Source: CNVS Section 2.2.1 & AS2107 'maximum', assuming 10 dB(A) facade loss
Childcare centre (indoor sleeping areas)									55	55	55	55	55	-	-	Source: CNVS Section 2.2.1, assuming a conservative façade loss of 10 dB(A)
Childcare centre (play areas)									65	65	65	65	65	-	-	Source: CNVS Section 2.2.1
Public Building									60	60	60	60	60	-	-	Source: CNVS Section 2.2.1 & AS2107 'maximum', assuming 10 dB(A) facade loss
Studio building (music recording studio)									45	45	45	45	45	-	-	Source: CNVS Section 2.2.1 & AS2107 'maximum', assuming 20 dB(A) facade loss
Studio building (film or television studio)									50	50	50	50	50	-	-	Source: AS2107 'maximum', assuming 20 dB(A) facade loss
Theatre/ Auditorium									50	50	50	50	50	-	-	Source: CNVS Section 2.2.1 & AS2107 'maximum', assuming 20 dB(A) facade loss

Notes: D(S): standard construction hours from 7 am to 6 pm Monday to Friday and from 8 am to 6 pm Saturday
D(O): out-of-hours day period from 8 am to 6 pm Sunday and Public holidays - OOHW P1
E: evening period from 6 pm to 10 pm Monday to Sunday - OOHW P1
N: night-time period from 10 pm to 7 am Monday to Friday, from 10 pm am to 8 am Saturday, Sunday and Public holidays - OOHW P2
MS: Morning shoulder from 05:00 to 07:00 Monday to Friday, and from 06:00 to 08:00 Saturday, Sunday and Public holidays - OOHW P2

APPENDIX C Construction timetable/ activities/ management

C.1 Construction timetable/activities/equipment

Table C1: Construction timetable/ activities/ equipment **HUNTER STREET STATION (HUNTER WEST)**

Activity/ Work Area	Aspect	Plant/ Equipment (as provided by client)	Day	Evening	Night	Timing of Activity		Sound Power Level (Lw re: 1pW) in Noise Model, dB(A)			High noise plant	Vibration intensive plant	Notes
			7am - 6pm	6pm - 10pm	10pm - 7am	Start Date	Duration	L_{Aeq}	Penalty	L_{Amax}			
Post-breakthrough	Invert Lining (concreting)	Concrete line pump	2*	2*	2*	Apr-26	6 months	111	-	114	-	-	Located on Hunter Street West Platform. *SWL based on Pyrmont East pump (assume vibrators included in total SWL)
Revised Cavern Lining from HSW	Assessment ref: **HW-OCH-B1**	Concrete road agitator	8 p.h.	8 p.h.	8 p.h.			105	-	111	-	-	Enter via Hunter Street, discharge to line pump on Hunter Street West Platform. Max 5 agi's on-site at one time.
	[Site wide (East site): Concurrent activities as per Hunter Street Station DNVIS: - Excavation, including spoil haulage (HWSE(20m)) - Ground support works (HWSW(20m)) - Saw cutting rock at base of shaft (HW-SC1) - S2 Tunnel Lining (concreting/ deliveries) (HE2-TL; HE2-TL-BLIGH; HE2-TL2'; HE1-TL; HE1-TL-C)]	Concrete road agitator staging	2	2	2			99	-	101	-	-	Located on Hunter Street. Truck idling (low rpm). Assume activity is essentially continuous including washout - staged truck would be quickly replaced by next truck, assume 15 minutes 'ON'.
		Concrete road agitator testing	1	1	1			108^	-	115	-	-	Located on platform, inside tipping frame partial enclosure. Mixing agitator (high rpm). ^Assume 'ON' at total of 9 minutes over 15 minutes (i.e. 3 minutes per agi, 3 agis in 15 minutes to make up 10 agis per hour).
		Concrete road agitator discharging (or concrete wash out)	2	2	2			105		115			Located on platform, north-west corner (OPTION B). Mixing agitator (medium rpm). Assume continuous pour, so 15 minutes 'ON'.
		Concrete washout											Concrete agi will be washed out with a hose in the discharge location, before leaving site. Similar to or less than noise from concrete discharge.
		Forklift	1	1	1			99	-	103	-	-	Located on Hunter Street West Platform

C.2 Site Layout and barriers/ enclosures

Figure C2-1: Site Layout and barriers/ enclosures (Option B - Preferred Option)

HUNTER STREET STATION (HUNTER WEST) - OOH CONCRETE POURS

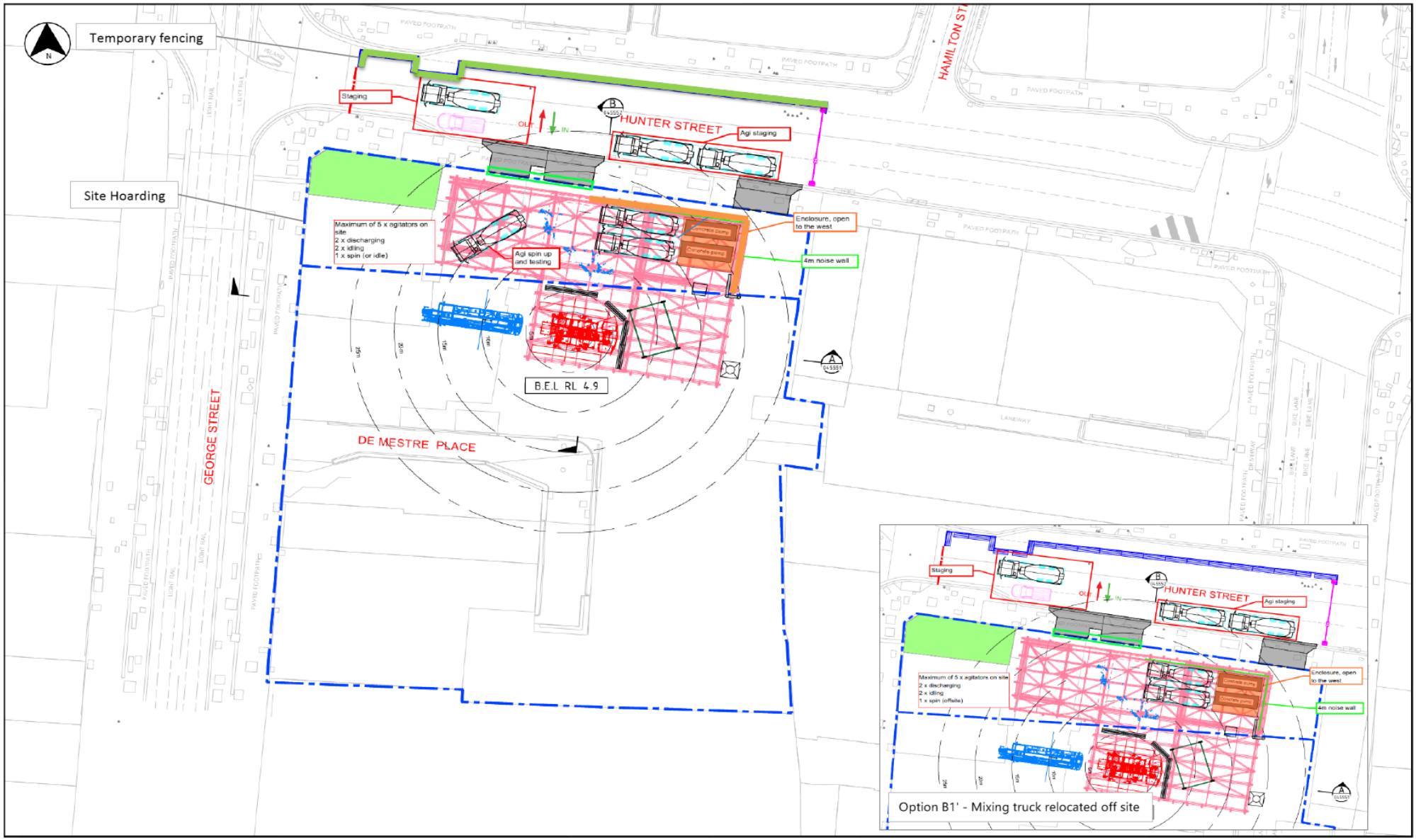
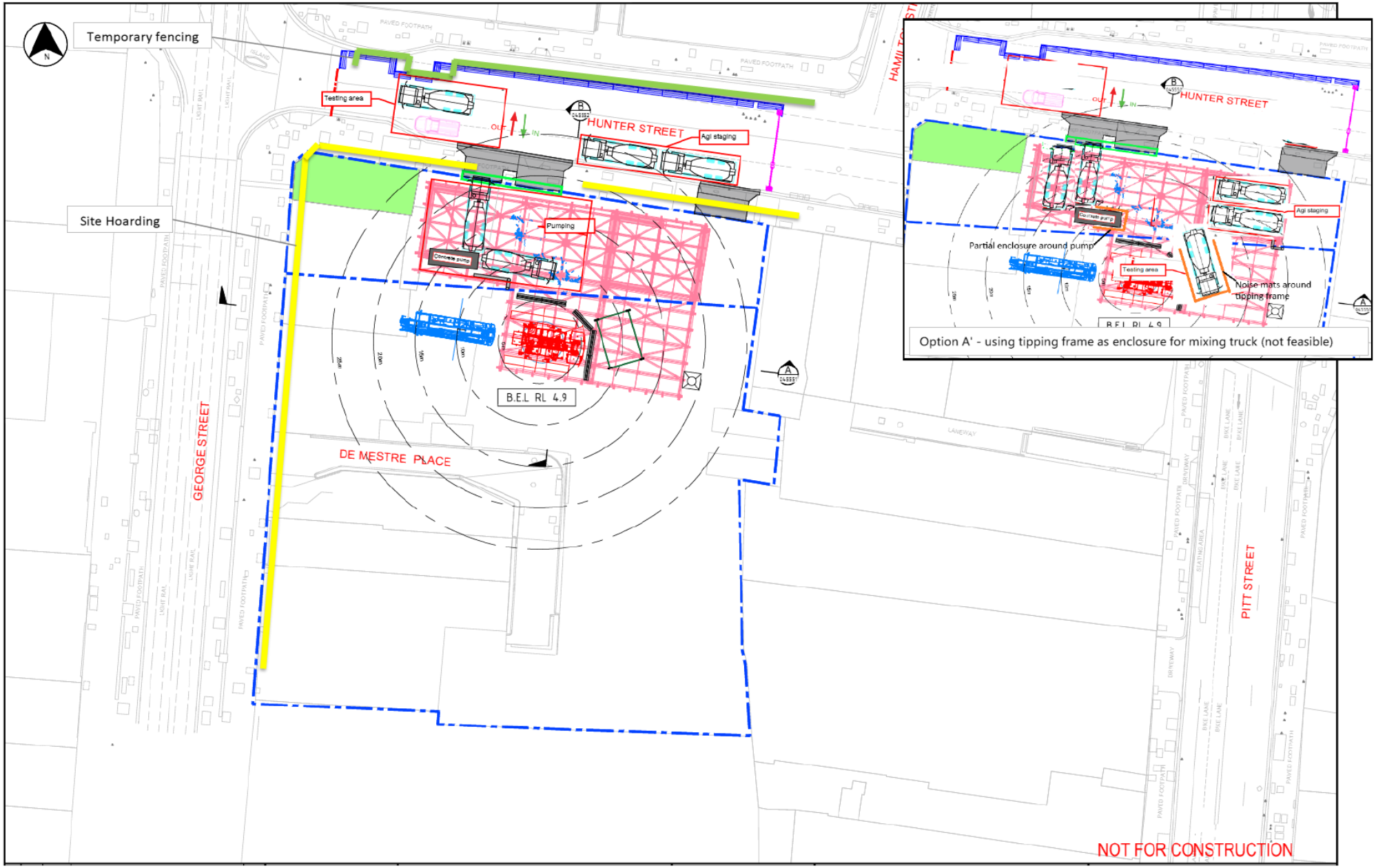


Figure C2-2: Site Layout and barriers/ enclosures (Option A)

Redesigned to Option B preferred option as Option A had insufficient noise reduction



C.3 Noise Wall / Hoarding Design Specifications

Table C3: Noise Wall / Hoarding Design Specifications — **HUNTER STREET STATION (HUNTER WEST) - OOH CONCRETE POURS**

Noise wall reference	Location	Noise wall/ hoarding height	Proposed Construction	Acoustic Rating of Construction*	Building element key
TNB01	HSW 4m noise barrier on platform as shown in Addendum Figure C2-1	4 m	17 mm plywood hoarding OR RVT's Soundex Curtain - Lite Barrier	Rw24 Rw28	

Notes:

Noise barrier performance: Low - Rw 10-15; Medium - Rw 15-20; Medium-High - Rw 20-25; High - Rw 25; Very High - Rw 30

* estimated by calculations and/or reference to other similar barrier type data

GENERAL

- The specified 'required rating' must be achieved by the product selected.
- By way of explanation, the Sound Insulation Rating Rw is a measure of the noise reduction property of the assembly, a higher rating implying a higher sound reduction performance.
- Note that the Rw rating of systems measured as built on site (R'w Field Test) may be up to 5 points lower than the laboratory result.
- The sealing of all gaps is critical in a sound rated construction. Use only sealer approved by the acoustic consultant.
- Check design of all junction details with acoustic consultant prior to construction.
- Check the necessity for HOLD POINTS with the acoustic consultant to ensure that all building details have been correctly interpreted and constructed.
- The information provided in this table is subject to modification and review without notice.
- The advice provided here is in respect of acoustics only. Supplementary professional advice may need to be sought in respect of fire ratings, structural design, buildability, fitness for purpose and the like.

C.4 Noise Enclosure Design Specifications

Table C4: Noise Enclosure Design Specifications

HUNTER STREET STATION (HUNTER WEST) - OOH CONCRETE POURS

Area to be Mitigated	Construction component	Reference ID	Indicative element construction	Building element key
Concrete pump acoustic enclosure See Figure C2-1	Walls	F063	SOUNDEX® Maxi Enclosure or equivalent	
	Roof	F063	SOUNDEX® Maxi Enclosure or equivalent	
	Openings - enclosure access opening - Approx 1 m along bottom of northern side, adjacent to 4 m noise wall	-	Openings should face away from neighbours or have direct line of sight to receivers broken by a noise barrier .	

Notes:

1. The final level of noise reduction required from an acoustic shed / enclosure is dependent on a number of factors, however one important factor is whether or not there are noisy plant on site which cannot be acoustically treated and operate outside the acoustic shed / enclosure. Depending on the number and noise emissions of such plant, it may be necessary to apply greater acoustic treatment to the acoustic shed / enclosure in order to keep its noise contributions down so that the total noise emissions from site meet the set environmental noise limits at neighbouring receptors.

LEGEND * estimated by calculations and/or reference to other similar wall type data. The client is advised not to commit to materials which have not been tested in an approved laboratory or for which an opinion only is available. Testing materials is a component of the quality control of the design process and should be viewed as a priority because there is no guarantee the forecast results will be achieved thereby necessitating the use of an alternative which may affect the cost and timing of the project. No responsibility is taken for use of or reliance upon untested materials, estimates or opinions.

GENERAL

- The underside of the roof and (where possible) internal walls should be lined with acoustic insulation to reduce the build-up of sound inside the shed
- The specified performances must be achieved by the product selected.
- The sealing of all gaps is critical in a sound rated construction. Use only sealer approved by the acoustic consultant.
- Check design of all junction details with acoustic consultant prior to construction.
- Check the necessity for HOLD POINTS with the acoustic consultant to ensure that all building details have been correctly interpreted and constructed.
- The information provided in this table is subject to modification and review without notice.
- The advice provided here is in respect of acoustics only. Supplementary professional advice may need to be sought in respect of fire ratings, structural design, buildability, fitness for purpose and the like.
- Only the buildings elements noted in Table C4 and Table C4a have been assessed. It is assumed that all other items will not impact the acoustic properties, or can be sufficiently acoustically treated.

APPENDIX D Construction airborne noise impacts

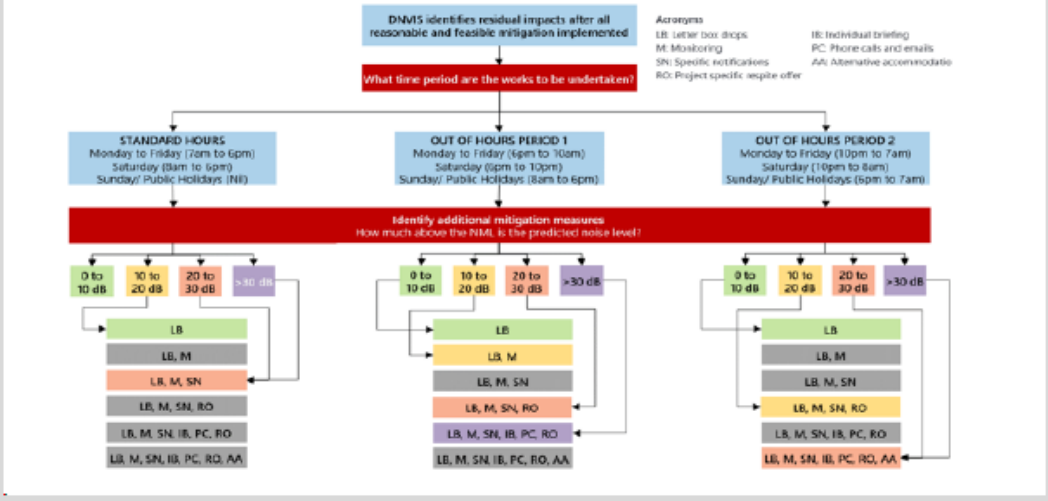
PROJECT SPECIFIC DATA INPUTS

Client:	John Holland CPB Ghella Joint Venture
Project Name:	Sydney Metro West ETP
Report Name:	Hunter Street West OOHW
CNVIS:	**Addendum DNVIS - Hunter Street Station - OOH Concrete Pour at HSW**
Table D.1:	Predicted construction noise levels
Table D.2:	Number of exceedances per NCA
Table D.3:	Additional noise mitigation and receiver notifications

	Scenario ID	Construction activity
	HW-OHC-B	Hunter West OOH Concreting Option B1 (HW-OHC-B1 in model)
	HW-OHC-B1	Hunter West OOH Concreting Option B3 with 4m barrier (HW-OHC-B3-4m in model)
	HW-OHC-B2-4m'	Hunter West OOH Concreting Option B3 with 4m barrier (no mix)(HW-OHC-B3-4m' in model)
	HW-OHC-MX	Hunter West OOH Concreting - Lmax
*	HW-SE(20m)	Hunter Street West shaft excavation at 20m below surface
*	HE-SE(20m)	Hunter Street East shaft excavation at 20m below surface
*	HW-SC1	Hunter West Saw cutting base of Stage 1
*	HE2-TL2'	Hunter East Tunnel lining Stage 2 area from O'Connell Street
*	HE1-TL-C	Hunter East Tunnel lining Stage 1 concrete pours only
*	HE-SC2	Hunter East Saw cutting Stage 2 work area
	HW-OCH-C1	Cumulative HW-OCH-B1 and HWSE(20m); HWSW(20m); HE-SE-20m; HESW(20m)
	HW-OCH-C2	Cumulative HW-OCH-B1 and HE1-TL-C
	HW-OCH-C3	Cumulative HW-OCH-B1 and HW-SC1; HE-SC2

Note: * Text shaded gold represents predicted noise levels from Hunter Street Station DNVIS

Figure 5.1: Additional airborne noise management measures



Additional mitigation measure	Code for Table D3
LB	M1
LB, M	M2
LB, M, SN	M3
LB, M, SN, RO	M4
LB, M, SN, IB, PC, RO	M5
LB, M, SN, IB, PC, RO, AA	M6

Table D1 Formatting		
Ds	E/N (OOH)	N (Sleep)
0-10 above NML	0-5 above NML	> Limit
>10 above NML	5-15 above NML	
>75 (HNA)	15-25 above NML	
	>25 above NML	

Ds = Standard Hours (Day)
HNA = Highly noise affected
E (OOH) =Evening (OOHW)
N (OOH) = Night (OOHW)
N (Sleep) = Night (Sleep)

D.1 Predicted noise levels

Table D.1: Predicted construction noise levels

Addendum DNVIS - Hunter Street Station - OOH Concrete Pour at HSW

| Receiver | | Predicted noise levels, dB(A) | | |

Table D.1: Predicted construction noise levels

Addendum DNVIS - Hunter Street Station - OOH Concrete Pour at HSW

Receiver		Predicted noise levels, dB(A)																																					
		Day (Standard)													Evening (OOHW)												Night (OOHW)												Night (Sleep)											
NCA	Address	NML	HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-SE(20m)	HE-SE(20m)	HW-SC1	HE2-TL2'	HE1-TL-C	HE-SC2	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3	NML	HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-SE(20m)	HE-SE(20m)	HW-SC1	HE2-TL2'	HE1-TL-C	HE-SC2	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3	NML	HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-SE(20m)	HE-SE(20m)	HW-SC1	HE2-TL2'	HE1-TL-C	HE-SC2	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3	NML	HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-SE(20m)	HE-SE(20m)	HW-SC1	HE2-TL2'	HE1-TL-C	HE-SC2
VNM_AT	HSW_NM1 - 10 Hunter Street (Street Leve	999	70	64	64	-	-	-	-	-	-	-	70	64	64	999	70	64	64	-	-	-	-	-	-	-	70	64	64	999	70	64	64	-	-	-	-	-	-	-	70	64	64	999	71	71	71	71	-	-	-	-	-	-
VNM_AT	HSW_NM2 - 99 Pitt Street (Street Level)	999	68	59	59	-	-	-	-	-	-	-	68	59	59	999	68	59	59	-	-	-	-	-	-	-	68	59	59	999	68	59	59	-	-	-	-	-	-	-	68	59	59	999	77	77	77	77	-	-	-	-	-	-
VNM_AT	HSW_NM3 - 300 George Street (Street Lev	999	66	64	63	-	-	-	-	-	-	-	66	64	63	999	66	64	63	-	-	-	-	-	-	-	66	64	63	999	66	64	63	-	-	-	-	-	-	-	66	64	63	999	69	69	69	69	-	-	-	-	-	-

D.2 Number of receivers above NMLs

Table D.2: Number of exceedances per NCA

Addendum DNVIS - Hunter Street Station - OOH Concrete Pour at HSW

NCA	Day (Standard)															Evening (OOHW)														Night (OOHW)														Night (Sleep)													
	dB(A) above NML	Number of exceedances														dB(A) above NML	Number of exceedances														dB(A) above NML	Number of exceedances														dB(A) above NML	Number of exceedances													
		HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-SE(20m)	HE-SE(20m)	HW-SC1	HE2-TL2'	HE1-TL-C	HE-SC2	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3			HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-SE(20m)	HE-SE(20m)	HW-SC1	HE2-TL2'	HE1-TL-C	HE-SC2	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3			HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-SE(20m)	HE-SE(20m)	HW-SC1	HE2-TL2'	HE1-TL-C	HE-SC2	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3			HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-SE(20m)	HE-SE(20m)	HW-SC1	HE2-TL2'	HE1-TL-C	HE-SC2	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3
NCA07	0 to 10															0 to 2														0 to 2														0 to 10													
	10 to 20															2 to 5						1		1			1			2 to 5														10 to 12													
	20 to 30															5 to 10									1			1		5 to 10							1	1			1		12 to 15													
	>30															>10										1			1	>10														>15													
	≥ 75dBA									1				1																																										
OSR_COM	0 to 10	9	6	4		2	4	1	2	2	1	2	8	7		0 to 2	1	3	1		1	1		1				1	3	0 to 2														0 to 10													
	10 to 20															2 to 5	8	3	3		1	3	1	1	2	1	2	7	4	2 to 5														10 to 12													
	20 to 30															5 to 10	4	2			11		1			2	11	2	5	5 to 10														12 to 15													
	>30															>10	1				14						15			>10														>15													
	≥ 75dBA	5	2			25		1			2	26	2	5																																									
OSR_EDU	0 to 10															0 to 2														0 to 2														0 to 10													
	10 to 20															2 to 5														2 to 5														10 to 12													
	20 to 30															5 to 10														5 to 10														12 to 15													
	>30															>10														>10														>15													
	≥ 75dBA																																																					
OSR_HTL	0 to 10	1														0 to 2					1						1			0 to 2	1	1	1				1	1			2		0 to 10	1	1	1										
	10 to 20															2 to 5	1				1					1	1		1	2 to 5	2	2	2								1		10 to 12	1	1	1										
	20 to 30															5 to 10														5 to 10	1						1	1			2		12 to 15													
	>30															>10					1						1			>10	1													>15													
	≥ 75dBA	1				4					2	4		2																																								
OSR_POW	0 to 10															0 to 2														0 to 2														0 to 10													
	10 to 20															2 to 5														2 to 5														10 to 12													
	20 to 30															5 to 10														5 to 10														12 to 15													
	>30															>10														>10														>15													
	≥ 75dBA																																																					
OSR_REC	0 to 10															0 to 2														0 to 2														0 to 10													
	10 to 20															2 to 5														2 to 5														10 to 12													
	20 to 30															5 to 10														5 to 10														12 to 15													
	>30															>10														>10														>15													
	≥ 75dBA																																																					
OSR_THR	0 to 10															0 to 2														0 to 2														0 to 10													
	10 to 20															2 to 5														2 to 5														10 to 12													
	20 to 30															5 to 10														5 to 10														12 to 15													
	>30															>10														>10														>15													
	≥ 75dBA																																																					
VNM_RTM	0 to 10															0 to 2														0 to 2														0 to 10													
	10 to 20															2 to 5														2 to 5														10 to 12													
	20 to 30															5 to 10														5 to 10														12 to 15													
	>30															>10														>10														>15													
	≥ 75dBA																																																					
VNM_OS	0 to 10															0 to 2														0 to 2														0 to 10													
	10 to 20															2 to 5														2 to 5														10 to 12													
	20 to 30															5 to 10														5 to 10														12 to 15													
	>30															>10														>10														>15													
	≥ 75dBA	1	1	1								1	1	1																																								

D.3 Additional management measures

Table D.3: Additional noise mitigation and receiver notifications **Addendum DNVIS - Hunter Street Station - OOH Concrete Pour at HSW**

Receiver		Additional noise mitigation and receiver notifications																								
		Day (Standard)							Evening (OOHW)							Night (OOHW)							Night (Sleep)			
NCA	Address	HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3	HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3	HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX	HW-OCH-C1	HW-OCH-C2	HW-OCH-C3	HW-OHC-B	HW-OHC-B1	HW-OHC-B2-4m'	HW-OHC-MX
NCA07	16 O'CONNELL STREET SYDNEY												M1	M1	M2						M1					
OSR_COM	273 George St, Sydney NSW 2000												M1													
OSR_COM	19-21 HUNTER STREET SYDNEY								M1				M1													
OSR_COM	101-103 PITT STREET, SYDNEY					M1			M1	M1			M2	M1	M1											
OSR_COM	103-105 PITT STREET SYDNEY								M1	M1	M1		M1	M1	M1											
OSR_COM	123 PITT STREET, SYDNEY					M1			M1				M2		M1											
OSR_COM	115 PITT STREET, SYDNEY												M1													
OSR_COM	109 PITT STREET, SYDNEY (SYDNEY)					M1			M1	M1			M2	M1	M1											
OSR_COM	20 HUNTER STREET, SYDNEY (SYDNEY)	M1				M1			M2	M1	M1		M2	M1	M1											
OSR_COM	341 GEORGE STREET, SYDNEY, NSW												M1													
OSR_COM	60 CARRINGTON STREET, SYDNEY, NSW												M1													
OSR_COM	333-339 GEORGE STREET, SYDNEY, NSW												M1													
OSR_COM	285-287 GEORGE STREET, SYDNEY, NSW					M1			M1				M2													
OSR_COM	275-281 GEORGE STREET, SYDNEY, NSW					M1							M2													
OSR_COM	330 GEORGE STREET, SYDNEY, NSW												M1													
OSR_COM	264-278 GEORGE STREET, SYDNEY, NSW					M1			M1				M2		M1											
OSR_COM	50 CARRINGTON STREET, SYDNEY, NSW												M1													
OSR_COM	309-315 GEORGE STREET, SYDNEY, NSW					M1			M1				M2													
OSR_COM	327 GEORGE STREET, SYDNEY, NSW												M1													
OSR_COM	319-321 GEORGE STREET, SYDNEY, NSW					M1							M2													
OSR_COM	320 GEORGE STREET, SYDNEY, NSW					M3			M1	M1	M1		M4	M1	M1											
OSR_COM	317 GEORGE STREET, SYDNEY, NSW					M1							M2													
OSR_COM	323 GEORGE STREET, SYDNEY, NSW												M1													
OSR_COM	329 GEORGE STREET, SYDNEY, NSW												M1													
OSR_COM	10 HUNTER STREET, SYDNEY, NSW					M1			M1	M1	M1		M2	M1	M1											
OSR_COM	301 GEOGRE STREET, SYDNEY, NSW					M1			M1	M1			M2	M1	M1											
OSR_COM	283 GEORGE STREET, SYDNEY, NSW					M1			M1				M2													
OSR_COM	107 PITT STREET, SYDNEY, NSW 2000					M1			M1	M1			M2	M1	M1											
OSR_COM	33-39 HUNTER STREET SYDNEY													M1	M1											
OSR_COM	68 PITT STREET SYDNEY												M1	M1	M1											
OSR_HTL	The Tank Stream Hotel, 97-99 PITT STREET, SYDNEY												M1			M1										
OSR_HTL	The Grand Hotel, 30 HUNTER STREET, SYDNEY					M1			M1				M2			M4	M1	M1			M1		Lmax	Lmax	Lmax	
OSR_HTL	A by Adina, L2-15_2 HUNTER STREET, SYDNEY												M1			M1	M1	M1			M1		Lmax	Lmax	Lmax	
OSR_HTL	A by Adina, L15-21_2 HUNTER STREET, SYDNEY															M1	M1	M1			M1					
OSR_HTL	Paradox Hotel, Lv 9-12 27 O'CONNELL STREET, SYDNEY														M1	M1					M1					
OSR_HTL	Sofitel Sydney Wentworth, 101 PHILLIP STREET, SYDNEY																				M1					

APPENDIX E Consultation Outcomes

Table E.1 Evidence of receiver specific consultation

Consultation ID	Date of consultation	Consultation trigger (D29, D30, D37, D38, other)	Consultation with	Consultation undertaken
E1.01	Jan 23 - Aug 25	General Consultation	Paradox Hotel Sydney (formerly Radission Blu Hotel)	Specific meeting to share noise and vibration modelling and identify preferred locations. Ongoing meetings and communications to detail upcoming work, consult on and outline mitigiation measures and understand impacts for Hotel. Meetings July & Aug 2025 to discuss and address out-of-hours noise complaints from hotel guests.
E1.02	Jan 23 - Aug 25	General Consultation	Tank Stream Hotel	Meeting to detail work, consult on and outline mitigiation measures and understand impacts for Hotel. Ongoing communications to discuss upcoming works and answer questions relating to the project.
E1.03	Jan 23 - Aug 25	General Consultation	A by Adina Hotel	Meeting to detail work, consult on and outline mitigiation measures and understand impacts for Hotel. Ongoing meetings and communications to detail upcoming works and answer questions relating to the project.
E1.04	Jan 23 - Aug 25	General Consultation	The Grand Hotel (Merivale)	Meeting to detail work, consult on and outline mitigiation measures and understand impacts for Hotel Ongoing communications to discuss upcoming works and answer questions relating to the project.
E1.05	Jan 23 - Aug 25	General Consultation	Hotel Sofitel Wentworth	Sent multiple emails to request meeting to detail work and undertand impacts for busineses. Ongoing communications to highlight upcoming works.
E1.06	Jan 23 - Aug 25	General Consultation	Merivale (ivy, Royal George, The Grand Hotel)	Ongoing comunications and meetings to detail upcoming, inspect premises, consult on and outline mitigiation measures and understand impacts for business. Ongoing communications to detail work and understand any upcoming events.
E1.07	Jan 23 - Aug 25	General Consultation	Brookfield	Fortnightly meeting to detail work, outline mitigiation measures and understand impact to tenants. Meetings concluded in March 2023. Ongoing communications and project updates.
E1.08	Jan - Nov 23	General Consultation	NSW Parliament	Meeting to detail work, consult on and outline mitigiation measures and understand impacts for businesses
E1.09	Jan 23 - Aug 25	General Consultation	NSW State Library	Meeting to detail work, outline mitigation measures and understand impacts for businesses. Ongoing communications and project updates.
E1.10	Jan - Nov 23	General Consultation	Chifley Café	Multiple meetings to outline work and program,understand concerns from businesses owner and outline mitigiation measures
E1.11	Jan 23 - Aug 25	General Consultation	Domain	Meetings with Asset Manager and Site Supervisor to detail work, outline mitigiation measures and how reduce impact on-site. Ongoing communications and project updates.
E1.12	Jan 23 - Aug 25	General Consultation	4-6 Bligh Street	Meeting with Building Manager to detail work, outline mitigiation measures and understand impacts for businesses. Ongoing communications.
E1.13	Jan 23 - Aug 25	General Consultation	68-96 Hunter St (Qantas House)	Meeting with Strata Committee to detail work, outline mitigiation measures and understand impacts for each business. Ongoing communications.
E1.14	Jan 23 - Aug 25	General Consultation	165 Macquarie Street (Australian Club)	Meeting to detail work, outline mitigiation measures and understand impacts for businesses and Hotel
E1.15	Jan 23 - Aug 25	General Consultation	175 Macquarie Street	Meeting to detail work, outline mitigiation measures and understand impacts for businesses
E1.16	Jan 23 - Aug 25	General Consultation	109 Pitt St Arcade Strata Committee	Ongoing meetings and communications to outline mitigiation measures and understand impacts for Strata Committee
E1.17	Jan 23 - Aug 25	General Consultation	109 Pitt Arcade Businesses	Initial meetings to detail work, outline mitigiation measures and understand impacts for indivdual businesses. Ongoing communications.
E1.18	Jan 23 - Aug 25	General Consultation	109 Pitt St Car Park	Meeting to detail work, outline mitigiation measures and understand impacts for businesses. Ongoing communications.
E1.19	Jan 23 - Aug 25	General Consultation	20 Hunter St	Meeting to detail work, outline mitigiation measures and understand impacts for businesses. Ongoing communications.
E1.20	Jan 23 - Aug 25	General Consultation	10 Hunter (NSW Sports Club)	Meeting to detail work, outline mitigiation measures and understand impacts for tenants Met individually with Hospitality venue located at rear of building (ground and basement) to discuss upcoming works and have emailed to schedule an additional meeting to discuss project
E1.21	Jan 23 - Aug 25	General Consultation	275 George	Meeting to detail work, outline mitigiation measures and understand impacts for tenants and location of hospitatlity venue
E1.22	Jan 23 - Aug 25	General Consultation	123 Pitt St (Angel Place)	Meeting to Building Management to detail work, outline mitigiation measures and understand impacts for tenants and understand locations of hospitality venues
E1.23	Jan 23 - Aug 25	General Consultation	283 George	Meeting with Strate Commitee detail work, outline mitigiation measures and understand impacts for indivudal businesses
E1.24	Jan 23 - Aug 25	General Consultation	31 Bligh St	Meeting to detail work, outline mitigiation measures, and understand impacts for business Installed Building Movement equipment Ongoing communications to detail work and understand any upcoming events.
E1.25	Jan 23 - Aug 25	General Consultation	25 Bligh St	Email sent to detail work, outline mitigiation measures and understand impacts for tenants Ongoing comunications.
E1.26	Jan 23 - Aug 25	General Consultation	66 Hunter	Emailed to request meeting and detail work, outline mitigiation measures and understand impacts for businesses. Ongoing communications and project updates.
E1.27	Jan 23 - Aug 25	General Consultation	68 Pitt Street	Email sent to outline work, mitigiation measures and understand impacts for tenants. Ongoing communications. Meeting with tenant July 2025 to discuss noise complaint during standard hours.
E1.28	Jan 23 - Aug 25	General Consultation	39 Hunter St	Meeting to detail work, outline mitigiation measures and understand impacts for business Outlined that business is trading company that may be disrupted by noise Responded to enquiries regarding road closures and out of hours work. Ongoing communications.

Consultation ID	Date of consultation	Consultation trigger (D29, D30, D37, D38, other)	Consultation with	Consultation undertaken
E1.29	Jan 23 - Aug 25	General Consultation	6-10 O'Connell St	Meeting to detail work, outline mitigation measures and understand impacts for tenants. Ongoing communications.
E1.30	Jan 23 - Aug 25	General Consultation	8-12 Chifley Square (103-107 Phillip)	Meeting to detail work, outline mitigation measures and understand impacts fortenants
E1.31	Jan - Nov 23	General Consultation	5 Elizabeth Street (Martin Place North)	Monthly Meeting to detail work, outline mitigation measures and understand impacts for tenants
E1.32	Jan 23 - Aug 25	D38-D39 Consultation	Milligan Group	Consultation regarding respite hours as per D38. Ongoing communications and coordination with Milligan Group development around adjoining property matters and construction activities.
E1.33	Jan 23 - Aug 25	D38-D39 Consultation	264-278 George (Australia Square)	Meeting to detail work, outline mitigation measures and understand impacts for businesses. Consultation regarding respite hours as per D38.
E1.34	Jan 23 - Aug 25	D38-D39 Consultation	70 Pitt	Consultation regarding respite hours as per D38
E1.35	Jan 23 - Aug 25	D38-D39 Consultation	16 Spring Street	Consultation regarding respite hours as per D38
E1.36	Jan 23 - Aug 25	D38-D39 Consultation	10-14 O'Connell Street	Consultation regarding respite hours as per D38
E1.37	Jan 23 - Aug 25	D38-D39 Consultation	1 O'Connell Street	Consultation regarding respite hours as per D38
E1.38	Jan 23 - Aug 25	D38-D39 Consultation	9 CASTLEREAGH STREET SYDNEY	Consultation regarding respite hours as per D38
E1.39	Jan 23 - Aug 25	D38-D39 Consultation	7 SPRING STREET, SYDNEY (SYDNEY)	Consultation regarding respite hours as per D38
E1.40	Jan 23 - Aug 25	D38-D39 Consultation	60 CARRINGTON STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.41	Jan 23 - Aug 25	D38-D39 Consultation	56 PITT STREET, SYDNEY (SYDNEY)	Consultation regarding respite hours as per D38
E1.42	Jan 23 - Aug 25	D38-D39 Consultation	52-56 MARTIN PLACE SYDNEY	Consultation regarding respite hours as per D38
E1.43	Jan 23 - Aug 25	D38-D39 Consultation	50 MARTIN PLACE SYDNEY	Consultation regarding respite hours as per D38
E1.44	Jan 23 - Aug 25	D38-D39 Consultation	50 CARRINGTON STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.45	Jan 23 - Aug 25	D38-D39 Consultation	37 MARGARET STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.46	Jan 23 - Aug 25	D38-D39 Consultation	350 GEORGE STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.47	Jan 23 - Aug 25	D38-D39 Consultation	323 GEORGE STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.48	Jan 23 - Aug 25	D38-D39 Consultation	327 GEORGE STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.49	Jan 23 - Aug 25	D38-D39 Consultation	329 GEORGE STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.50	Jan 23 - Aug 25	D38-D39 Consultation	330 GEORGE STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.51	Jan 23 - Aug 25	D38-D39 Consultation	333-339 GEORGE STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.52	Jan 23 - Aug 25	D38-D39 Consultation	317 GEORGE STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.53	Jan 23 - Aug 25	D38-D39 Consultation	319-321 GEORGE STREET, SYDNEY, NSW	Consultation regarding respite hours as per D38
E1.54	Jan 23 - Aug 25	D38-D39 Consultation	1 BLIGH STREET SYDNEY	Consultation regarding respite hours as per D38
E1.55	Jan 23 - Aug 25	D38-D39 Consultation	1 FARRER PLACE SYDNEY	Consultation regarding respite hours as per D38
E1.56	Jan 23 - Aug 25	D38-D39 Consultation	10 - 20 BOND STREET, SYDNEY (SYDNEY)	Consultation regarding respite hours as per D38
E1.57	Jan 23 - Aug 25	D38-D39 Consultation	16 O'Connell Street	Consultation regarding respite hours as per D38
E1.58	Jan 23 - Aug 25	General Consultation	16 O'Connell Street (residential)	Ongoing communications and project updates. Meetings with resident July/ August 2025 to discuss noise complaint, complete noise monitoring and provide construction lookahead.
E1.59	Jan 23 - Aug 25	General Consultation	16 O'Connell Street (commercial)	Ongoing communications and project updates. Meeting with property owner and tenant August 2025 to discuss noise complaint during standard hours, complete noise monitoring and provide construction lookahead .
E1.60	Feb-26	A20 Consultation	2 Hunter Street	Consultation and meeting regarding amendment to Hunter Street West ancillary facility.
E1.61	Feb-26	A20 Consultation	97-99 Pitt Street	Consultation regarding amendment to Hunter Street West ancillary facility
E1.62	Feb-26	A20 Consultation	30-32 Hunter Street	Consultation regarding amendment to Hunter Street West ancillary facility
E1.63	Feb-26	A20 Consultation	20 Hunter Street	Consultation and meeting with building manager regarding amendment to Hunter Street West ancillary facility.
E1.64	Feb-26	A20 Consultation	10-14 Hunter Street	Consultation regarding amendment to Hunter Street West ancillary facility

ACOUSTICS ADVISOR ENDORSEMENT

SYDNEY METRO WEST (SSI 19238057)

Review of	**Eastern Tunnelling Package:** Detailed Noise and Vibration Impact Statement (DNVIS) – Hunter Street Station – OOH Concrete Pour at Hunter Street West (HSW)	**Reviewed document reference:**	TM372-02-1-03F14 SMW-ETP_ADD_DNVIS-HSW-OOHW Concreting (r4) Rev 4 dated 16 March 2026
Prepared by:	[redacted] Alternate Acoustics Advisor		
Date of issue:	26 March 2026		

As approved Alternate Acoustics Advisor for the Sydney Metro West project, I reviewed and commented on previous revisions of this DNVIS addendum.

This Addendum has been prepared to assess potential noise and vibration impacts from the delivery of concrete to the Hunter Street Station West worksite outside standard construction hours for the permanent lining of the station cavern.

Revision 4 is an update of Revision 3, which I endorsed on 5 March 2026, incorporating minor typographical changes:

- A format legend for Table D1 has been added to the first page in Appendix D.
- Wording changed from ’13 x 17hr pours’ to ’13 x 15hr pours’ in Table 2-2.
- References updated from Appendix A to Appendix E

I endorse Revision 4 of this addendum for implementation, subject of course to the Environment Protection Licence (EPL) being varied to permit the works OOH.

[redacted]

[redacted] Metro West Alternate Acoustics Advisor