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MARTINUS INLAND RAIL

OLYMPIC HIGHWAY UNDERBRIDGE - CONSTRUCTION NOISE AND VIBRATION IMPACT STATEMENT - ADDENDUM

A2I I Albury to Illabo

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GLOSSARY

Specific terms and acronyms used throughout this plan are listed and described in Table 1 below.

TABLE 1: DEFINITIONS

TERM	DEFINITION
A2I	Albury to Illabo Project approved under Section 5.19 of the EP&A Act on 8 October 2024 and modified 13 August 2025.
Addendum	Addendum to the endorsed Construction Noise and Vibration Impact Statement
CA	Consistency Assessment
CoA	Conditions of Approval for SSI-10055
CNVIS	Construction Noise and Vibration Impact Statement
km	Kilometres
m	Metres
NDD	Non-destructive digging
NML	Noise Management Levels
Olympic Highway	Olympic Highway underbridge enhancement site
OOH	Out-of-hours
Project	Albury to Illabo Project approved under Section 5.19 of the EP&A Act on 8 October 2024
RBL	Rating Background Level
SLR Predict	SLR Predict, the A2I noise and vibration management tool
SSI	State Significant Infrastructure
T	Tonnes
W.001B	Work Scenario 1 – Site establishment
W.002B	Work Scenario 2 – Site operation

1 INTRODUCTION

1.1 Purpose of this Addendum

This Construction Noise and Vibration Impact Statement Addendum (Addendum) has been prepared to identify and assess a new work area required to support and enable the wider scope of activities associated with the Olympic Highway underbridge enhancement site (Olympic Highway), as shown in Figure 1 below.

The area will be utilised as a stockpile area to support the Olympic Highway underbridge site, as well as the wider A2I project. This Addendum will form part of the endorsed Construction Noise and Vibration Impact Statement (CNVIS) (Doc No: 6-0052-210-EEC-J6-AS-0001) for Olympic Highway underbridge. This Addendum should be reviewed in conjunction with the CNVIS for Olympic Highway, including adopted rating background levels (RBL), noise management levels (NML) and assessment criteria in accordance with the Conditions of Approval (CoA) (SSI-10055).

FIGURE 1: NEW WORK AREA REQUIRED FOR OLYMPIC HIGHWAY STOCKPILE LOCATION (W.001B AND W.002B)

2 NOISE ASSESSMENT

2.1 Site establishment (W.001B)

2.1.1 Scope

A new work scenario (new work area) is required for Olympic Highway to accommodate the establishment of a stockpile area, which forms part of the wider scope associated at Olympic Highway underbridge enhancement site. This new work area has been identified as being required as noted in the Junee Precinct Construction Boundary Changes Consistency Assessment (Junee CA) (Doc No: 6-0052-210-EAP-J0-AS-0001).

The new work scenario will be assessed using SLR Predict, the A2I noise and vibration management tool, with the following noted (as per the endorsed CNVIS):

Activity

- Site compound delivery and set up
- Laydown construction

Plant and equipment

- 1 x Articulated dump truck
- 1 x Crane (mobile)
- 1 x Elevated work platform
- 1 x Excavator – slasher
- 1 x Front end loader
- 1 x Generator
- 3 x Hand tool (electric)
- 2 x Light vehicle
- 1 x Roller (static)
- 1 x Tractor – Slasher
- 2 x Truck – medium rigid
- 1 x Truck & dog
- 1 x Watercart

Construction hours

- Standard approved construction hours:
  - 7am to 6pm Monday to Friday, inclusive
  - 7am to 6pm Saturday
- Daytime out-of-hours (OOH)
  - 8am to 6pm Sunday and Public Holidays

The same activities, plant and equipment and construction hours are relevant for this CNVIS Addendum.

2.1.2 Assessment

As noted above, the new work scenario has been assessed utilising SLR Predict. The full plant and equipment list (as per the endorsed CNVIS) has been considered as a worst-case scenario within a 15-minute assessment period. The operating time (utilisation %) of each plant and equipment has remained the same as per the endorsed CNVIS.

There is a limitation in allowing a comparison of the results with other work scenarios in the endorsed CNVIS due to the difference in location and distance. Due to this limitation, this new work scenario will be assessed on its own, with a comparison of affected receivers between daytime hours and daytime OOH.

2.1.3 Results

The SLR Predict results are presented in Appendix A and B, for daytime hours and daytime OOH.

Table 2 and Table 3 provide a summary of the exceedances identified through various assessments, with the following noted:

- Table 2 - W.001B exceedances identified in the SLR Predict results for the new work areas shown in Figure 1 (approved daytime)
- Table 3 - W.001B exceedances identified in the SLR Predict results for the new work areas shown in Figure 1 (daytime OOH)

TABLE 2: NOISE EXCEEDANCES FOR W.001B (APPROVED DAYTIME)

ASSESSMENT RESULTS	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE
	W.001B – SLR Predict (approved daytime)
Total Lw (dBA)	116
Clearly Audible (1-10 dB)	11
Moderately Intrusive (11-20 dB)	0
Highly Intrusive (>20 dB)	0

TABLE 3: NOISE EXCEEDANCES FOR W.001B (DAYTIME OOH)

ASSESSMENT RESULTS	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE
	W.001B – SLR Predict (daytime OOH)
Total Lw (dBA)	116
Noticeable (1-5 dB)	14
Clearly Audible (6-15 dB)	11
Moderately Intrusive (16-25 dB)	0
Highly Intrusive (>25 dB)	0

Table 2 notes the affected residential receivers experiencing clearly audible (1-10 dB) noise impacts, with Table 3 noting the majority of residential receivers experiencing noticeable (1-5 dB) and clearly audible (6-15 dB). Compared to other work scenarios in the endorsed CNVIS, the number of affected receivers is relatively small, as the Olympic Highway stockpile area is located on the northern edge of town with minimal receivers in close proximity.

The receivers potentially impacted by the new work area (W.001), are also identified as being impacted by the following scenarios (as per the endorsed CNVIS):

- W.003 – geotechnical investigation
- W.006 – track work – peak
- W.007 – track work – typical
- W.008 – track tamping.

2.2 Site operation (W.002B)

2.2.1 Scope

A new work scenario (new work area) is required for Olympic Highway to accommodate the use of a stockpile area, which forms part of the wider scope associated at Olympic Highway underbridge enhancement site. This new work area has been identified as being required as noted in the Junee Precinct Construction Boundary Changes Consistency Assessment (Junee CA) (Doc No: 6-0052-210-EAP-J0-AS-0001).

The new work scenario will be assessed using SLR Predict, the A2I noise and vibration management tool, with the following noted (as per the endorsed CNVIS):

Activity

- Operation of the site compound
- Delivery/removal of materials/equipment

Plant and equipment

- 4 x Lighting towers
- 1 x Generator
- 1 x Light Truck
- 4 x Light Vehicles
- 1 x Front End Loader
- 1 x Watercart.

Construction hours

- Standard approved construction hours:
  - 7am to 6pm Monday to Friday, inclusive
  - 7am to 6pm Saturday
- Daytime out-of-hours (OOH)
  - 8am to 6pm Sunday and Public Holidays
- Evening OOH:
  - 6pm to 10pm Monday to Sunday (including Public Holidays)
- Night OOH:
  - 10pm to 7am Monday to Saturday
  - 10pm to 8am Sunday (including Public Holidays

2.2.2 Assessment

As noted above, the new work scenario has been assessed utilising SLR Predict. The full plant and equipment list (as per the endorsed CNVIS) has been considered as a worst-case scenario within a 15-minute assessment period. The operating time (utilisation %) of each plant and equipment has remained the same as per the endorsed CNVIS.

There is a limitation in allowing a comparison of the results with other work scenarios in the endorsed CNVIS due to the difference in location and distance. Due to this limitation, this new work scenario will be assessed on its own, with a comparison of affected receivers between daytime hours and daytime OOH.

2.2.3 Results

The SLR Predict results are presented in Appendix C and D, for daytime OOH and night-time OOH.

Table 4 provides a summary of the exceedances identified through various assessments, with the following noted:

- W.002B exceedances identified in the SLR Predict results for the new work areas shown in Figure 1 (daytime OOH)
- W.002B exceedances identified in the SLR Predict results for the new work areas shown in Figure 1 (night-time OOH)

TABLE 4: NOISE EXCEEDANCES FOR W.002B (DAYTIME OOH AND NIGHT-TIME OOH)

ASSESSMENT RESULTS	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE	
	W.002B – SLR Predict (daytime OOH)	W.002B – SLR Predict (night-time OOH)
Total Lw (dBA)	112	112
Noticeable (1-5 dB)	12	28

ASSESSMENT RESULTS	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE	
	W.002B – SLR Predict (daytime OOH)	W.002B – SLR Predict (night-time OOH)
Clearly Audible (6-15 dB)	3	18
Moderately Intrusive (16-25 dB)	0	0
Highly Intrusive (>25 dB)	0	0
Above Sleep Disturbance (>Screening Level)	0	12
Above Sleep Awake (>65 dB)	0	0

Table 4 shows the affected residential receivers experiencing noticeable (1-5 dB) and clearly audible (6-15 dB) noise impacts, with 12 residential properties having the potential to experience sleep disturbance impacts. Compared to other work scenarios in the endorsed CNVIS, the number of affected receivers is relatively small, as the Olympic Highway stockpile area is located on the northern edge of town with minimal receivers in close proximity.

The receivers potentially impacted by the new work scenario (W.002B), are also identified as being impacted by the following scenarios (as per the endorsed CNVIS):

- W.003 – geotechnical investigation
- W.006 – track work – peak
- W.007 – track work – typical
- W.008 – track tamping.

3 VIBRATION ASSESSMENT

3.1 Site establishment (W.001B)

There are no vibration intensive plant and equipment proposed as part of W.001B and therefore, no vibration impacts are expected.

3.2 Site operation (W.002B)

There are no vibration intensive plant and equipment proposed as part of W.002B and therefore, no vibration impacts are expected.

4 CONCLUSION

4.1 Mitigation and management measures

As this Addendum forms part of the endorsed CNVIS for Olympic Highway underbridge the same noise and vibration management measures apply as noted in Section 8 of the CNVIS.

4.2 Additional mitigation measures

As noted in Figure 2, Figure 3 and under Appendices A to D, the SLR Predict results include a section on all applicable additional mitigation measures. The additional mitigation measures will be implemented where appropriate.

Airborne Noise - Additional Mitigation Measures Matrix				
Time Period	Exceedance of NML	Perception	Duration	Communication Category/Management Measure
OOHW Daytime PeriodSunday 7am - 6pm(including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
OOHW Evening PeriodMonday - Sunday 6pm - 10pm(including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
			>2 consecutive rest periods	CO1, CO2, RO
OOHW Night PeriodMonday - Sunday 10pm - 7am(including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
			>2 consecutive sleep periods	CO1, CO2, RO, AO
	>25	Highly intrusive	Any	CO1, CO2, RO
			>2 consecutive sleep periods	CO1, CO2, RO, AO, AltA

FIGURE 2: ADDITIONAL MITIGATION MEASURES MATRIX – NOISE

Additional Mitigation Measures	
Measure	**Abbreviation**
Communication (Category 1)[1]	CO1
Communication (Category 2)[2]	CO2
Respite Offer[3]	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: CO1: Communication to provide information on the OOHW via methods such as letter box drop, email, newsletter, media advertisements and/ or website prior to the works commencing.

Note 2: CO2: Communication should be personalised (e.g. door knock, meeting, telephone call). Contact with these residents should commence early to enable feedback to be considered by the proposal.

Note 3: RO are not applicable to non-residential receivers. RO may comprise of pre-purchased movie tickets, dinner vouchers or similar. RO can also be provided by limiting high noise generating works and allowing at least a one-hour respite period between blocks of work. Where possible, the timing of this respite should be discussed with the impacted community.

Receiver Types			
Code	**Description**	**Code**	**Description**
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building

FIGURE 3: ADDITIONAL MITIGATION MEASURES MATRIX – NOISE & VIBRATION

APPENDICES

APPENDIX A

SLR Predict - W.001B (approved daytime)

Construction Noise and Vibration Impact Statement (CNVIS)

This report presents the outcomes of detailed noise/vibration modelling relating to specific construction activities proposed on site in accordance with the methodology outlined in the *Construction Noise and Vibration Management Plan* (CNVMP) and overarching *Construction Noise and Vibration Impact Statement* (CNVIS).

Prior to detailed noise/vibration modelling being undertaken, work activities are reviewed and considered in relation to industry best practice, consistent with the requirements of the CNVMP. Consideration is first given to eliminating the noise/vibration emissions so far as reasonably practicable. Where elimination is not practicable, efforts are been made to reduce the risk as far as practical by implementing noise and vibration management measures as outlined in the overarching CNVIS and CNVMP.

Examples of these measures include selecting the quietest equipment and processes to complete the works, considering staging and periods of respite to minimise prolonged periods of noise and vibration exposure, and maximising distances between construction activities and sensitive receivers.

Consultation with Affected Receivers
In accordance with CoA E78, the CNVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the Work. Details of this consultation are provided in the overarching CNVIS for each enhancement site.

Assessment Details

Author Name	
Author Email	noiseassessments@martinus.com.au
Author Organisation	Martinus Rail
Project Name	A2I - Albury to Illabo
Assessment Name	Olympic Highway Stockpile - W.001
Stage	A2I Construction
Permit Number	Olympic Highway CNVIS Addendum
Start Date	2025-12-01
End Date	2026-12-20
Assessment Period	Day - standard

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: Site establishment W.001 (Height: Ground)	Total: 116		
Articulated Dump Truck 25% operation	109	1	No
Crane (mobile) 30% operation	104	1	No
Elevated Work Platform 25% operation	97	1	No
Excavator - Tracked (20T) 100% operation	105	1	No
Front End Loader 50% operation	113	1	No
Generator - attenuated 100% operation	92	1	No
Hand tools (electric) 75% operation	102	3	No
Light Vehicle (steady state) 25% operation	87	2	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.
Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
Roller - static 100% operation	107	1	No
Tractor - Slasher 50% operation	108	1	No
Truck - medium rigid (20T) 25% operation	103	2	No
Truck - road truck/ truck & dog (30T) 25% operation	108	1	No
Water Cart 100% operation	107	1	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.
Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Assessment Results

	Residential	Non-Residential

Assessment Results

	Highly Intrusive	0 property	0 property
	Moderately Intrusive	0 property	0 property
	Clearly Audible	11 properties	0 property
	Above HNA	0 property	0 property

Legend

	Project Boundary
	Work Areas
	Barriers

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
60 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	52	58	6	Clearly Audible
21 ILLABO RD, JUNEE NSW 2663	RES	NCA14	52	57	5	Clearly Audible
8 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	52	56	4	Clearly Audible
10 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	52	56	4	Clearly Audible
7 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	52	55	3	Clearly Audible
5 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	52	54	2	Clearly Audible

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
9 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	52	53	1	Clearly Audible
3 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	52	53	1	Clearly Audible
1 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	52	53	1	Clearly Audible
6 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	52	53	1	Clearly Audible
4 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	52	53	1	Clearly Audible

Recommended Mitigation Measures

This assessment has been conducted with regard to the relevant CNVIS and CNVMP. To manage noise and vibration impacts, project specific mitigation measures may be considered such as reviewing construction staging methodology to identify opportunities to schedule intensive works during less sensitive time periods and by providing a clear process for community engagement and complaints. Likewise, the requirements and actionable items within the overarching CNVIS and CNVMP should be considered and adopted where appropriate. Following the consideration of project specific noise mitigation measures, additional noise mitigation measures to be explored are described in the Inland Rail NSW Construction Noise and Vibration Framework (CNVF) and summarised below.

Airborne Noise - Additional Mitigation Measures Matrix				
Time Period	**Exceedance of NML**	**Perception**	**Duration**	**Communication Category/Management Measure**
OOHW Daytime Period Sunday 7am - 6pm (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
OOHW Evening Period Monday - Sunday 6pm - 10pm (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
			>2 consecutive rest periods	CO1, CO2, RO
OOHW Night Period Monday - Sunday 10pm - 7am (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
			>2 consecutive sleep periods	CO1, CO2, RO, AO
	>25	Highly intrusive	Any	CO1, CO2, RO
			>2 consecutive sleep periods	CO1, CO2, RO, AO, AltA

Vibration - Additional Mitigation Measures Matrix			
Time Period	**Duration**	**Exceedance of 'preferred' value**	**Exceedance of 'maximum' value**
OOHW Daytime Period Sunday 8am-6pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Evening Period Mon-Sun 6pm-10pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

Additional Mitigation Measures	
Measure	**Abbreviation**
Communication (Category 1)[1]	CO1
Communication (Category 2)[2]	CO2
Respite Offer[3]	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: CO1: Communication to provide information on the OOHW via methods such as letter box drop, email, newsletter, media advertisements and/ or website prior to the works commencing.
Note 2: CO2: Communication should be personalised (e.g. door knock, meeting, telephone call). Contact with these residents should commence early to enable feedback to be considered by the proposal.
Note 3: RO are not applicable to non-residential receivers. RO may comprise of pre-purchased movie tickets, dinner vouchers or similar. RO can also be provided by limiting high noise generating works and allowing at least a one-hour respite period between blocks of work. Where possible, the timing of this respite should be discussed with the impacted community.

Receiver Types			
Code	**Description**	**Code**	**Description**
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building

APPENDIX B

SLR Predict - W.001B (daytime OOH)

Construction Noise and Vibration Impact Statement (CNVIS)

This report presents the outcomes of detailed noise/vibration modelling relating to specific construction activities proposed on site in accordance with the methodology outlined in the *Construction Noise and Vibration Management Plan* (CNVMP) and overarching *Construction Noise and Vibration Impact Statement* (CNVIS).

Prior to detailed noise/vibration modelling being undertaken, work activities are reviewed and considered in relation to industry best practice, consistent with the requirements of the CNVMP. Consideration is first given to eliminating the noise/vibration emissions so far as reasonably practicable. Where elimination is not practicable, efforts are been made to reduce the risk as far as practical by implementing noise and vibration management measures as outlined in the overarching CNVIS and CNVMP.

Examples of these measures include selecting the quietest equipment and processes to complete the works, considering staging and periods of respite to minimise prolonged periods of noise and vibration exposure, and maximising distances between construction activities and sensitive receivers.

Consultation with Affected Receivers
In accordance with CoA E78, the CNVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the Work. Details of this consultation are provided in the overarching CNVIS for each enhancement site.

Assessment Details

Author Name	
Author Email	noiseassessments@martinus.com.au
Author Organisation	Martinus Rail
Project Name	A2I - Albury to Illabo
Assessment Name	Olympic Highway Stockpile - W.001
Stage	A2I Construction
Permit Number	Olympic Highway CNVIS Addendum
Start Date	2025-12-01
End Date	2026-12-20
Assessment Period	Day - out of hours

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: Site establishment W.001 (Height: Ground)	Total: 116		
Articulated Dump Truck 25% operation	109	1	No
Crane (mobile) 30% operation	104	1	No
Elevated Work Platform 25% operation	97	1	No
Excavator - Tracked (20T) 100% operation	105	1	No
Front End Loader 50% operation	113	1	No
Generator - attenuated 100% operation	92	1	No
Hand tools (electric) 75% operation	102	3	No
Light Vehicle (steady state) 25% operation	87	2	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.
Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
Roller - static 100% operation	107	1	No
Tractor - Slasher 50% operation	108	1	No
Truck - medium rigid (20T) 25% operation	103	2	No
Truck - road truck/ truck & dog (30T) 25% operation	108	1	No
Water Cart 100% operation	107	1	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.
Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Assessment Results

	Residential	Non-Residential

Assessment Results

	Highly Intrusive	0 property	0 property
	Moderately Intrusive	0 property	0 property
	Clearly Audible	11 properties	0 property
	Noticeable	14 properties	0 property

Legend

	Project Boundary
	Work Areas
	Barriers

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
60 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	58	11	Clearly Audible
21 ILLABO RD, JUNEE NSW 2663	RES	NCA14	47	57	10	Clearly Audible
8 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	56	9	Clearly Audible
10 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	56	9	Clearly Audible
7 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	55	8	Clearly Audible
5 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	54	7	Clearly Audible

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
9 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	53	6	Clearly Audible
3 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	53	6	Clearly Audible
1 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	53	6	Clearly Audible
6 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	53	6	Clearly Audible
4 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	53	6	Clearly Audible
3 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	52	5	Noticeable
1 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	52	5	Noticeable
11 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	52	5	Noticeable
2 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	51	4	Noticeable
9 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	50	3	Noticeable
9 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	50	3	Noticeable
13 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	50	3	Noticeable
20 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	49	2	Noticeable
2 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
4 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable
8 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable
2 RIDGE ST, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable
90 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable
6 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable

Recommended Mitigation Measures

This assessment has been conducted with regard to the relevant CNVIS and CNVMP. To manage noise and vibration impacts, project specific mitigation measures may be considered such as reviewing construction staging methodology to identify opportunities to schedule intensive works during less sensitive time periods and by providing a clear process for community engagement and complaints. Likewise, the requirements and actionable items within the overarching CNVIS and CNVMP should be considered and adopted where appropriate. Following the consideration of project specific noise mitigation measures, additional noise mitigation measures to be explored are described in the Inland Rail NSW Construction Noise and Vibration Framework (CNVF) and summarised below.

Airborne Noise - Additional Mitigation Measures Matrix				
Time Period	**Exceedance of NML**	**Perception**	**Duration**	**Communication Category/Management Measure**
OOHW Daytime Period Sunday 7am - 6pm (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
OOHW Evening Period Monday - Sunday 6pm - 10pm (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
			>2 consecutive rest periods	CO1, CO2, RO
OOHW Night Period Monday - Sunday 10pm - 7am (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
			>2 consecutive sleep periods	CO1, CO2, RO, AO
	>25	Highly intrusive	Any	CO1, CO2, RO
			>2 consecutive sleep periods	CO1, CO2, RO, AO, AltA

Vibration - Additional Mitigation Measures Matrix			
Time Period	**Duration**	**Exceedance of 'preferred' value**	**Exceedance of 'maximum' value**
OOHW Daytime Period Sunday 8am-6pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Evening Period Mon-Sun 6pm-10pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

Additional Mitigation Measures	
Measure	**Abbreviation**
Communication (Category 1)[1]	CO1
Communication (Category 2)[2]	CO2
Respite Offer[3]	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: CO1: Communication to provide information on the OOHW via methods such as letter box drop, email, newsletter, media advertisements and/ or website prior to the works commencing.
Note 2: CO2: Communication should be personalised (e.g. door knock, meeting, telephone call). Contact with these residents should commence early to enable feedback to be considered by the proposal.
Note 3: RO are not applicable to non-residential receivers. RO may comprise of pre-purchased movie tickets, dinner vouchers or similar. RO can also be provided by limiting high noise generating works and allowing at least a one-hour respite period between blocks of work. Where possible, the timing of this respite should be discussed with the impacted community.

Receiver Types			
Code	**Description**	**Code**	**Description**
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building

APPENDIX C

SLR Predict - W.002B (daytime OOH)

Construction Noise and Vibration Impact Statement (CNVIS)

This report presents the outcomes of detailed noise/vibration modelling relating to specific construction activities proposed on site in accordance with the methodology outlined in the *Construction Noise and Vibration Management Plan* (CNVMP) and overarching *Construction Noise and Vibration Impact Statement* (CNVIS).

Prior to detailed noise/vibration modelling being undertaken, work activities are reviewed and considered in relation to industry best practice, consistent with the requirements of the CNVMP. Consideration is first given to eliminating the noise/vibration emissions so far as reasonably practicable. Where elimination is not practicable, efforts are been made to reduce the risk as far as practical by implementing noise and vibration management measures as outlined in the overarching CNVIS and CNVMP.

Examples of these measures include selecting the quietest equipment and processes to complete the works, considering staging and periods of respite to minimise prolonged periods of noise and vibration exposure, and maximising distances between construction activities and sensitive receivers.

Consultation with Affected Receivers
In accordance with CoA E78, the CNVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the Work. Details of this consultation are provided in the overarching CNVIS for each enhancement site.

Assessment Details

Author Name	
Author Email	noiseassessments@martinus.com.au
Author Organisation	Martinus Rail
Project Name	A2I - Albury to Illabo
Assessment Name	Olympic Highway Stockpile - W.002
Stage	A2I Construction
Permit Number	Olympic Highway CNVIS Addendum
Start Date	2025-12-01
End Date	2026-12-20
Assessment Period	Day - out of hours

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: Compound operation W.002 (Height: Ground)	Total: 112		
Front End Loader 50% operation	113	1	No
Generator - attenuated 100% operation	92	1	No
Light Vehicle (steady state) 25% operation	87	4	No
Water Cart 100% operation	107	1	No
Truck - light rigid 50% operation	97	1	No
Lighting Tower 100% operation	80	4	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.
Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Assessment Results

		Residential	Non-Residential
	Highly Intrusive	0 property	0 property
	Moderately Intrusive	0 property	0 property
	Clearly Audible	3 properties	0 property
	Noticeable	12 properties	0 property

Legend

	Project Boundary
	Work Areas
	Barriers

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
60 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	55	8	Clearly Audible
21 ILLABO RD, JUNEE NSW 2663	RES	NCA14	47	53	6	Clearly Audible
10 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	53	6	Clearly Audible
8 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	52	5	Noticeable
7 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	51	4	Noticeable
5 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	50	3	Noticeable
9 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	49	2	Noticeable
3 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	49	2	Noticeable
1 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	49	2	Noticeable
6 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	49	2	Noticeable
4 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	49	2	Noticeable
3 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable
1 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
11 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable
2 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	47	48	1	Noticeable

Recommended Mitigation Measures

This assessment has been conducted with regard to the relevant CNVIS and CNVMP. To manage noise and vibration impacts, project specific mitigation measures may be considered such as reviewing construction staging methodology to identify opportunities to schedule intensive works during less sensitive time periods and by providing a clear process for community engagement and complaints. Likewise, the requirements and actionable items within the overarching CNVIS and CNVMP should be considered and adopted where appropriate. Following the consideration of project specific noise mitigation measures, additional noise mitigation measures to be explored are described in the Inland Rail NSW Construction Noise and Vibration Framework (CNVF) and summarised below.

Airborne Noise - Additional Mitigation Measures Matrix				
Time Period	**Exceedance of NML**	**Perception**	**Duration**	**Communication Category/Management Measure**
OOHW Daytime Period Sunday 7am - 6pm (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
OOHW Evening Period Monday - Sunday 6pm - 10pm (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
			>2 consecutive rest periods	CO1, CO2, RO
OOHW Night Period Monday - Sunday 10pm - 7am (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
			>2 consecutive sleep periods	CO1, CO2, RO, AO
	>25	Highly intrusive	Any	CO1, CO2, RO
			>2 consecutive sleep periods	CO1, CO2, RO, AO, AltA

Vibration - Additional Mitigation Measures Matrix			
Time Period	**Duration**	**Exceedance of 'preferred' value**	**Exceedance of 'maximum' value**
OOHW Daytime Period Sunday 8am-6pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Evening Period Mon-Sun 6pm-10pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

Additional Mitigation Measures	
Measure	**Abbreviation**
Communication (Category 1)[1]	CO1
Communication (Category 2)[2]	CO2
Respite Offer[3]	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: CO1: Communication to provide information on the OOHW via methods such as letter box drop, email, newsletter, media advertisements and/ or website prior to the works commencing.
Note 2: CO2: Communication should be personalised (e.g. door knock, meeting, telephone call). Contact with these residents should commence early to enable feedback to be considered by the proposal.
Note 3: RO are not applicable to non-residential receivers. RO may comprise of pre-purchased movie tickets, dinner vouchers or similar. RO can also be provided by limiting high noise generating works and allowing at least a one-hour respite period between blocks of work. Where possible, the timing of this respite should be discussed with the impacted community.

Receiver Types			
Code	**Description**	**Code**	**Description**
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building

APPENDIX D

SLR Predict - W.002B (night-time OOH)

Construction Noise and Vibration Impact Statement (CNVIS)

This report presents the outcomes of detailed noise/vibration modelling relating to specific construction activities proposed on site in accordance with the methodology outlined in the *Construction Noise and Vibration Management Plan* (CNVMP) and overarching *Construction Noise and Vibration Impact Statement* (CNVIS).

Prior to detailed noise/vibration modelling being undertaken, work activities are reviewed and considered in relation to industry best practice, consistent with the requirements of the CNVMP. Consideration is first given to eliminating the noise/vibration emissions so far as reasonably practicable. Where elimination is not practicable, efforts are been made to reduce the risk as far as practical by implementing noise and vibration management measures as outlined in the overarching CNVIS and CNVMP.

Examples of these measures include selecting the quietest equipment and processes to complete the works, considering staging and periods of respite to minimise prolonged periods of noise and vibration exposure, and maximising distances between construction activities and sensitive receivers.

Consultation with Affected Receivers

In accordance with CoA E78, the CNVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the Work. Details of this consultation are provided in the overarching CNVIS for each enhancement site.

Assessment Details

Author Name	
Author Email	noiseassessments@martinus.com.au
Author Organisation	Martinus Rail
Project Name	A2I - Albury to Illabo
Assessment Name	Olympic Highway Stockpile - W.002
Stage	A2I Construction
Permit Number	Olympic Highway CNVIS Addendum
Start Date	2025-12-01
End Date	2026-12-20
Assessment Period	Night - out of hours

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: Compound operation W.002 (Height: Ground)	Total: 112		
Front End Loader 50% operation	113	1	No
Generator - attenuated 100% operation	92	1	No
Light Vehicle (steady state) 25% operation	87	4	No
Water Cart 100% operation	107	1	No
Truck - light rigid 50% operation	97	1	No
Lighting Tower 100% operation	80	4	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.
Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Assessment Results

		Residential	Non-Residential
	Highly Intrusive	0 property	0 property
	Moderately Intrusive	0 property	0 property
	Clearly Audible	18 properties	0 property
	Noticeable	28 properties	0 property
	Above Sleep Disturbance	12 properties	0 property
	Above Sleep Awake	0 property	0 property

Legend

	Project Boundary
	Work Areas
	Barriers

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
60 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	40	55	15	Clearly Audible Above Sleep Dist
21 ILLABO RD, JUNEE NSW 2663	RES	NCA14	40	53	13	Clearly Audible Above Sleep Dist
10 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	40	53	13	Clearly Audible Above Sleep Dist
8 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	40	52	12	Clearly Audible Above Sleep Dist
7 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	51	11	Clearly Audible Above Sleep Dist
5 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	50	10	Clearly Audible Above Sleep Dist
9 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	49	9	Clearly Audible Above Sleep Dist
3 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	49	9	Clearly Audible Above Sleep Dist
1 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	49	9	Clearly Audible Above Sleep Dist
6 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	40	49	9	Clearly Audible Above Sleep Dist

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
4 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	40	49	9	Clearly Audible Above Sleep Dist
3 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	48	8	Clearly Audible Above Sleep Dist
1 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	48	8	Clearly Audible
11 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	48	8	Clearly Audible
2 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	40	48	8	Clearly Audible
9 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	47	7	Clearly Audible
9 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	46	6	Clearly Audible
13 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	46	6	Clearly Audible
20 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	45	5	Noticeable
90 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	40	45	5	Noticeable
42 MAIN ST, JUNEE NSW 2663	RES	NCA14	40	44	4	Noticeable
2 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	44	4	Noticeable
4 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	44	4	Noticeable

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
8 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	44	4	Noticeable
2 RIDGE ST, JUNEE NSW 2663	RES	NCA14	40	44	4	Noticeable
6 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	44	4	Noticeable
2 BOUNDARY ST, JUNEE NSW 2663	RES	NCA14	40	43	3	Noticeable
193 OLYMPIC HWY, JUNEE NSW 2663	RES	NCA14	40	43	3	Noticeable
4 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	43	3	Noticeable
15 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	43	3	Noticeable
16 RIDGE ST, JUNEE NSW 2663	RES	NCA14	40	42	2	Noticeable
10 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	42	2	Noticeable
16 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	42	2	Noticeable
100 WATERWORKS RD, JUNEE NSW 2663	RES	NCA14	40	42	2	Noticeable
11 RIDGE ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
3 PRINCE ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable

Results by Receiver

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
5 RIDGE ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
1 RIDGE ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
10 RIDGE ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
8 RIDGE ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
6 RIDGE ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
22 KNIGHT ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
37 QUEEN ST, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
8 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
14 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable
2 CUTTLE CCT, JUNEE NSW 2663	RES	NCA14	40	41	1	Noticeable

Recommended Mitigation Measures

This assessment has been conducted with regard to the relevant CNVIS and CNVMP. To manage noise and vibration impacts, project specific mitigation measures may be considered such as reviewing construction staging methodology to identify opportunities to schedule intensive works during less sensitive time periods and by providing a clear process for community engagement and complaints. Likewise, the requirements and actionable items within the overarching CNVIS and CNVMP should be considered and adopted where appropriate. Following the consideration of project specific noise mitigation measures, additional noise mitigation measures to be explored are described in the Inland Rail NSW Construction Noise and Vibration Framework (CNVF) and summarised below.

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Time Period	**Exceedance of NML**	**Perception**	**Duration**	**Communication Category/Management Measure**
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	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
OOHW Evening Period Monday - Sunday 6pm - 10pm (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
	>25	Highly intrusive	Any	CO1, CO2
			>2 consecutive rest periods	CO1, CO2, RO
OOHW Night Period Monday - Sunday 10pm - 7am (including public holidays)	<5	Noticeable	Any	CO1
	5 - 15	Clearly audible	Any	CO1
	16 - 25	Moderately intrusive	Any	CO1, CO2
			>2 consecutive sleep periods	CO1, CO2, RO, AO
	>25	Highly intrusive	Any	CO1, CO2, RO
			>2 consecutive sleep periods	CO1, CO2, RO, AO, AltA

Vibration - Additional Mitigation Measures Matrix			
Time Period	**Duration**	**Exceedance of 'preferred' value**	**Exceedance of 'maximum' value**
OOHW Daytime Period Sunday 8am-6pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Evening Period Mon-Sun 6pm-10pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

Additional Mitigation Measures	
Measure	**Abbreviation**
Communication (Category 1)[1]	CO1
Communication (Category 2)[2]	CO2
Respite Offer[3]	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: CO1: Communication to provide information on the OOHW via methods such as letter box drop, email, newsletter, media advertisements and/ or website prior to the works commencing.
Note 2: CO2: Communication should be personalised (e.g. door knock, meeting, telephone call). Contact with these residents should commence early to enable feedback to be considered by the proposal.
Note 3: RO are not applicable to non-residential receivers. RO may comprise of pre-purchased movie tickets, dinner vouchers or similar. RO can also be provided by limiting high noise generating works and allowing at least a one-hour respite period between blocks of work. Where possible, the timing of this respite should be discussed with the impacted community.

Receiver Types			
Code	**Description**	**Code**	**Description**
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building

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