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**PEARSON STREET BRIDGE
AND CASSIDY PARADE
FOOTBRIDGE –
CONSTRUCTION NOISE AND
VIBRATION IMPACT
STATEMENT ADDENDUM 2**

A2I | Albury to Illabo

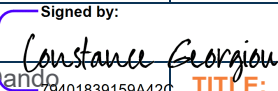
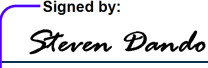
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A21 | ALBURY TO ILLABO
PEARSON STREET BRIDGE AND CASSIDY PARADE FOOTBRIDGE- CONSTRUCTION NOISE AND VIBRATION IMPACT STATEMENT
ADDENDUM 2

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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 section of the Inland Rail project
CA	Consistency Assessment
Cassidy Parade	Cassidy Parade footbridge enhancement site
CNVIS	Construction Noise and Vibration Impact Statement
CNVIS Addendum	This document
km	Kilometres
m	Metres
NML	Noise Management Level
OOH	Out-of-hours
Project	Albury to Illabo project approved under section 5.19 of the EP&A Act on 8 October 2024, as modified on 13 August 2025
Pearson Street	Pearson Street bridge enhancement site
Pearson Street Bridge and Cassidy Parade Footbridge CNVIS; the endorsed CNVIS	Pearson Street Bridge and Cassidy Parade Footbridge Construction Noise and Vibration Impact Statement (Doc No. 6-0052-210-EEC-W0-AS-0002_0)
RBL	Rating Background Level
SLR Predict	A2I noise and vibration management tool
T	Tonnes
W.001A	Work Scenario 1A – Tree Clearing at Cassidy Parade

1 INTRODUCTION

1.1 Purpose of this Addendum

This Construction Noise and Vibration Impact Statement Addendum (CNVIS Addendum) has been prepared to identify and assess the additional work scenario required to support and enable the wider scope of activities associated with the Cassidy Parade footbridge enhancement site (Cassidy Parade) works. This CNVIS Addendum will form part of the endorsed Pearson Street Bridge and Cassidy Parade Footbridge CNVIS (Doc No: 6-0052-210-EEC-W0-AS-0002_0) (endorsed CNVIS).

This CNVIS Addendum should be reviewed in conjunction with the endorsed CNVIS, including adopted rating background levels (RBLs), noise management levels (NMLs) and assessment criteria in accordance with the Infrastructure Approval (SSI-10055).

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ADDENDUM 2



FIGURE 1: WORK AREA FOR W.001A AT CASSIDY PARADE (CNVIS ADDENDUM)

2 NOISE ASSESSMENT

The potential construction noise levels from the proposed works have been predicted using SLR Predict, the A2I project-specific noise and vibration tool. This CNVIS Addendum assesses the work scenario identified in Table 2.

TABLE 2: WORK SCENARIO DESCRIPTION

ID	Scenario	Description	Total Lw
Cassidy Parade Footbridge			
W.001A	<ul style="list-style-type: none"> Site establishment 	<ul style="list-style-type: none"> Trimming and clearing of vegetation 	115/108 ¹

¹Work Areas 1 and 2 noted as 115 Lw; Work Area 3 noted as 108 Lw

2.1 Cassidy Parade – tree clearing (W.001A)

2.1.1 Scope

The new scenario forms part of the wider scope of works associated at Cassidy Parade. These works include clearing of vegetation for bridge removal and site access, along with making room for the future bridge columns, ramps and playground.

This CNVIS Addendum has assessed the required work area using SLR Predict, the A2I noise and vibration management tool, with the following noted:

Plant and equipment

- 2 x Chainsaws
- 2 x Elevated Work Platforms
- 1 x Truck Medium Rigid
- 1 x Flat Bed
- 1 x Tub Grinder (Mulcher) (only for work areas 1 and 2)
- 2 x Light Vehicles

Construction hours

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

2.1.2 Assessment

The additional work area has been assessed utilising SLR Predict. The plant and equipment list (as noted above) has been considered as a worst-case scenario within a 15-minute assessment period. The operating time (utilisation %) of each plant and equipment is representative to site working conditions.

2.1.3 Results

The SLR Predict results are presented in Appendix A, for day out of hours, as the most affected period.

Table 3 provides a summary of the exceedances identified through various assessments. It compares the following:

- W.001 exceedances identified in the endorsed CNVIS
- W.001A exceedances identified in the SLR Predict results for the work area in Figure 1

TABLE 3: EXCEEDANCE COMPARISONS FOR W.001A

ASSESSMENT RESULTS (DAYTIME OOH)	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE	
	CNVIS – W.001	SLR Predict – W.001A (additional work scenario)
Total Lw (dBA)	116	115/108 ¹
Noticeable (1-5 dB)	53	53
Clearly Audible (6-15 dB)	58	74
Moderately Intrusive (16-25 dB)	16	19
Highly Intrusive (>25 dB)	5	3

¹Work Areas 1 and 2 noted as 115 Lw; Work Area 3 noted as 108 Lw

Table 3 shows a slight increase in the intensity of impacts resulting from the additional work scenario (W.001A). There is a slight increase of receivers experiencing clearly audible (6-16 dB) and moderately intrusive (16-25 dB) impacts. However, there is a slight decrease of the Lw, and number of receivers experiencing highly intrusive (> 25 dB). The number of receivers experiencing noticeable (1-5 dB) impacts has remained the same.

The tree clearing works will be progressive in nature across all three work areas.

3 VIBRATION ASSESSMENT

3.1 Cassidy Parade – tree clearing (W.001A)

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

4 CONCLUSION

4.1 Mitigation and management measures

As this assessment is an addendum to the endorsed CNVIS for Pearson Street Bridge and Cassidy Parade Footbridge, the same mitigation and management measures apply as noted in Section 8 of the endorsed CNVIS.

4.2 Additional mitigation measures

As noted in Figure 2 to Figure 4 below and under Appendix A, the SLR Predict noise results include a section on all applicable additional mitigation measures. These 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 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

FIGURE 2: ADDITIONAL MITIGATION MEASURES MATRIX – NOISE

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

FIGURE 3: ADDITIONAL MITIGATION MEASURES MATRIX – VIBRATION

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		
<p>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.</p> <p>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.</p> <p>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.</p>			
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 4: ADDITIONAL MITIGATION MEASURES MATRIX – NOTES



APPENDICES



APPENDIX A

SLR Predict (W.001A) – Noise



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 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	Pearson Street & Cassidy Parade ADD1 - W.001B
Assessment Number	268
Stage	A2I Construction
Permit Number	
Start Date	2026-01-26
End Date	2026-01-26
Assessment Period	Day - out of hours

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: Work Area 1 (Height: Ground)	Total: 115		
Chainsaw 50% operation	105	2	No
Elevated Work Platform 25% operation	97	2	No
Light Vehicle (accelerating) 25% operation	95	2	No
Truck - light rigid 25% operation	97	1	No
Truck (flatbed) 30% operation	95	1	No
Tub Grinder/Mulcher (40-50hp) 75% operation	116	1	No
2: Work Area 2 (Height: Ground)	Total: 115		
Chainsaw 50% operation	105	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
Elevated Work Platform 25% operation	97	2	No
Truck - light rigid 25% operation	97	1	No
Truck (flatbed) 30% operation	95	1	No
Light Vehicle (accelerating) 25% operation	95	2	No
Tub Grinder/Mulcher (40-50hp) 75% operation	116	1	No
3: Work Area 3 (Height: Ground)	Total: 108		
Elevated Work Platform 25% operation	97	2	No
Truck - light rigid 25% operation	97	1	No
Truck (flatbed) 30% operation	95	1	No
Chainsaw 50% operation	105	2	No
Light Vehicle (accelerating) 25% operation	95	2	No
Hand tools (electric) 75% operation	102	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.

Assessment Results



	Residential	Non-Residential
 Highly Intrusive	3 properties	0 property
 Moderately Intrusive	19 properties	3 properties
 Clearly Audible	74 properties	15 properties
 Noticeable	53 properties	11 properties

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
1 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	84	31	Highly Intrusive
2 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	81	28	Highly Intrusive
24-26 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	79	26	Highly Intrusive
3 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	78	25	Moderately Intrusive
4 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	78	25	Moderately Intrusive
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	78	23	Moderately Intrusive
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	78	23	Moderately Intrusive
32 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	75	22	Moderately Intrusive
28 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	75	22	Moderately Intrusive
5 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	73	20	Moderately Intrusive
2 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	73	20	Moderately Intrusive

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
24 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	73	20	Moderately Intrusive
4 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	72	19	Moderately Intrusive
6 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	72	19	Moderately Intrusive
30 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	72	19	Moderately Intrusive
7 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	71	18	Moderately Intrusive
8 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	71	18	Moderately Intrusive
9 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	70	17	Moderately Intrusive
36 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	70	17	Moderately Intrusive
34 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	70	17	Moderately Intrusive
18 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	70	17	Moderately Intrusive
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	71	16	Moderately Intrusive
6 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	69	16	Moderately Intrusive

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
22 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	69	16	Moderately Intrusive
188 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	69	16	Moderately Intrusive
11 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	68	15	Clearly Audible
8 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	68	15	Clearly Audible
10 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	68	15	Clearly Audible
16 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	68	15	Clearly Audible
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OPW	NCA11	55	70	15	Clearly Audible
15 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	67	14	Clearly Audible
13 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	67	14	Clearly Audible
21 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	69	14	Clearly Audible
10 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	67	14	Clearly Audible
40 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	67	14	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
20 BROOKKONG AV, WAGGA WAGGA NSW 2650	COM	NCA11	70	84	14	Clearly Audible
7 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	67	14	Clearly Audible
1 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	66	13	Clearly Audible
12 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	66	13	Clearly Audible
17 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	65	12	Clearly Audible
14 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	65	12	Clearly Audible
12 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	65	12	Clearly Audible
14 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	65	12	Clearly Audible
11 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	65	12	Clearly Audible
188 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	65	12	Clearly Audible
Kildare Catholic College	OED	NCA11	55	67	12	Clearly Audible
19 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	64	11	Clearly Audible
16 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	64	11	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
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	66	11	Clearly Audible
18 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	64	11	Clearly Audible
21 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	66	11	Clearly Audible
16 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	64	11	Clearly Audible
44 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	64	11	Clearly Audible
42 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	64	11	Clearly Audible
21 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	64	11	Clearly Audible
17 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	64	11	Clearly Audible
15 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	64	11	Clearly Audible
13 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	64	11	Clearly Audible
9 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	64	11	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
188 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	64	11	Clearly Audible
20 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	63	10	Clearly Audible
18 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	63	10	Clearly Audible
20 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	63	10	Clearly Audible
1 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	63	10	Clearly Audible
1 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	63	10	Clearly Audible
1 INVERARY ST, TURVEY PARK NSW 2650	RES	NCA11	53	63	10	Clearly Audible
19 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	63	10	Clearly Audible
14 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	63	10	Clearly Audible
12 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	63	10	Clearly Audible
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	64	9	Clearly Audible
21 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	62	9	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
50 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	62	9	Clearly Audible
12 DONNELLY AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	62	9	Clearly Audible
8 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	62	9	Clearly Audible
202 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	62	9	Clearly Audible
25 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	61	8	Clearly Audible
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	63	8	Clearly Audible
23 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	61	8	Clearly Audible
24 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	61	8	Clearly Audible
22 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	61	8	Clearly Audible
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	63	8	Clearly Audible
2 INVERARY ST, TURVEY PARK NSW 2650	RES	NCA11	53	61	8	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
48 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	61	8	Clearly Audible
46 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	61	8	Clearly Audible
188 EDWARD ST, WAGGA WAGGA NSW 2650	OPW	NCA11	55	63	8	Clearly Audible
206 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	61	8	Clearly Audible
2/4-6 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	61	8	Clearly Audible
26 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	60	7	Clearly Audible
22 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	60	7	Clearly Audible
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	62	7	Clearly Audible
3 CASSIDY PDE, TURVEY PARK NSW 2650	RES	NCA11	53	60	7	Clearly Audible
6 STATION PL, WAGGA WAGGA NSW 2650	OCC	NCA11	45	52	7	Clearly Audible
8 DONNELLY AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	60	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
10 DONNELLY AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	60	7	Clearly Audible
198 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	60	7	Clearly Audible
204 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	60	7	Clearly Audible
4-6 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	60	7	Clearly Audible
34 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
31 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	61	6	Clearly Audible
32 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
28 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
29 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
26 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
27 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	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
28 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
24 NORMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	61	6	Clearly Audible
1 INVERARY ST, TURVEY PARK NSW 2650	RES	NCA11	53	59	6	Clearly Audible
60 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	59	6	Clearly Audible
6 STATION PL, WAGGA WAGGA NSW 2650	OCC	NCA11	45	51	6	Clearly Audible
29 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	59	6	Clearly Audible
196 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	59	6	Clearly Audible
4/4-6 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	59	6	Clearly Audible
21 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	60	5	Noticeable
30 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	58	5	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
1 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	58	5	Noticeable
38 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	58	5	Noticeable
20 BROOKONG AV, WAGGA WAGGA NSW 2650	COM	NCA11	70	75	5	Noticeable
2-4 STATION PL, WAGGA WAGGA NSW 2650	OCC	NCA11	45	50	5	Noticeable
25 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	58	5	Noticeable
23 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	58	5	Noticeable
3/12 SALMON ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	58	5	Noticeable
208 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	58	5	Noticeable
189 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	58	5	Noticeable
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	59	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
2 SALMON ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	57	4	Noticeable
4/4-6 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	57	4	Noticeable
Kildare Catholic College	OED	NCA11	55	59	4	Noticeable
21 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	58	3	Noticeable
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	58	3	Noticeable
1 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	56	3	Noticeable
1 CASSIDY PDE, TURVEY PARK NSW 2650	RES	NCA11	53	56	3	Noticeable
56 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
2 DONNELLY AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
4 DONNELLY AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
6 DONNELLY AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	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
27 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
3 FOX ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
5 FOX ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
8 SALMON ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
2A SALMON ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
170 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
214 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
212 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
181 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
191 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	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
9 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	56	3	Noticeable
56 COLEMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	55	2	Noticeable
58 COLEMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	55	2	Noticeable
57 COLEMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	55	2	Noticeable
61 COLEMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	55	2	Noticeable
21 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	57	2	Noticeable
1/1 BIMBEEN ST, TURVEY PARK NSW 2650	RES	NCA11	53	55	2	Noticeable
1 KILDARE ST, TURVEY PARK NSW 2650	RES	NCA11	53	55	2	Noticeable
2 FOX ST, WAGGA WAGGA NSW 2650	COM	NCA11	70	72	2	Noticeable
31 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	55	2	Noticeable
1 FOX ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	55	2	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
6 SALMON ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	55	2	Noticeable
1/173 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	55	2	Noticeable
WOMBOY 5/165 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	55	2	Noticeable
11 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	55	2	Noticeable
13 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	55	2	Noticeable
17 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	55	2	Noticeable
ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 2650	OED	NCA11	55	57	2	Noticeable
60 COLEMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	54	1	Noticeable
63 COLEMAN ST, TURVEY PARK NSW 2650	RES	NCA11	53	54	1	Noticeable
3/74 BROOKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	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
33 BROOKKONG AV, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
13 MURRAY ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
4 SALMON ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
173 EDWARD ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
7 FOX ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
12 FOX ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
15 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
19 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
27 THORNE ST, WAGGA WAGGA NSW 2650	RES	NCA11	53	54	1	Noticeable
140 EDWARD ST, WAGGA WAGGA NSW 2650	OED	NCA11	55	56	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 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 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