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INLAND RAIL

URANQUINTY YARD – CONSTRUCTION NOISE AND VIBRATION IMPACT STATEMENT ADDENDUM 2

A2I I Albury to Illabo

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0	02/12/2025	For information	02/12/2025

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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
CNVIS	Construction Noise and Vibration Impact Statement
CNVIS Addendum	This document
Uranquinty Yard CNVIS	Uranquinty Yard Construction Noise and Vibration Impact Statement (Doc No. 6-0052-210-EEC-W1-AS-0001)
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
RBL	Rating Background Level
SLR Predict	A2I noise and vibration management tool
T	Tonnes
W.010A	Work Scenario 10A – Sandy Creek access works

1 INTRODUCTION

1.1 Purpose of the Addendum

This Construction Noise and Vibration Impact Statement Addendum (Addendum) has been prepared to identify and assess the work area required for an additional work scenario (W.010A) to support and enable the wider scope of activities associated with the Uranquinty Yard clearances enhancement site (Uranquinty Yard), as shown in Figure 2 below.

This Addendum will form part of the endorsed Construction Noise and Vibration Impact Statement (CNVIS) (Doc No: 6-0052-210-EEC-W1-AS-0001) for Uranquinty Yard.

This Addendum should be reviewed in conjunction with the CNVIS for Uranquinty Yard, 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: WORK AREA FOR W.010A (URANQUINTY YARD ADDENDUM)

2 NOISE ASSESSMENT

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

TABLE 2: WORK SCENARIO DESCRIPTION

ID	Scenario	Description	Total Lw
W.010A	Sandy Creek Access Works	Access point and track works to support the Sandy Creek bridge works	108

2.1 Sandy Creek access works (W.010A)

2.1.1 Scope

The additional work scenario (W.010A) required for Uranquinty Yard forms part of the wider scope associated at the Uranquinty Yard clearances enhancement site and will enable the works associated with Sandy Creek bridge. The work area for this additional work scenario has been identified in the Consistency Assessment (CA) for Uranquinty Yard (Doc no: 6-0052-210-EAP-W1-AS-0001).

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

Activity

- Access point and track works

Plant and equipment

- Excavator 15T
- Plate compactor
- Light vehicles

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.

2.1.2 Assessment

As noted above, the work area for W.010A has been assessed utilising SLR Predict. The full plant and equipment list (plate compactor and excavator – at 100% utilisation) has been considered as a worst-case scenario within a 15-minute assessment period.

There is a limitation in allowing a comparison of the SLR Predict results with other work scenarios presented in the endorsed CNVIS due to the difference in location, distance and plant and equipment. Due to this limitation, this new work scenario will be assessed on its own in two different assessment periods, approved daytime and daytime OOH.

2.1.3 Results

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

Table 3 and Table 4 provide a summary of the exceedances identified through various assessments, with the following noted:

- W.010A exceedances identified in the SLR Predict results during approved daytime hours
- W.010A exceedances identified in the SLR Predict results during daytime OOH

TABLE 3: NOISE EXCEEDANCES FOR W.010A (APPROVED DAYTIME)

ASSESSMENT RESULTS	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE
	SLR Predict – W.010A (approved daytime)
Total Lw (dBA)	108
Cleary Audible (1-10 dB)	4
Moderately Intrusive (11-20 dB)	0
Highly Intrusive (>20 dB)	0

TABLE 4: NOISE EXCEEDANCES FOR W.010A (DAYTIME OOH)

ASSESSMENT RESULTS	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE
	SLR Predict – W.010A (daytime OOH)
Total Lw (dBA)	108
Noticeable (1-5 dB)	10
Clearly Audible (6-15 dB)	4
Moderately Intrusive (16-25 dB)	0
Highly Intrusive (>25 dB)	0

Table 3 shows four affected residential receivers with the potential to experience clearly audible (1-10 dB) noise impacts, with Table 4 showing 14 affected residential receivers with the potential to experience noticeable (1-5 dB) and clearly audible (6-15 dB) noise impacts.

The number of affected receivers affected during approved daytime and daytime OOH is very small, as the work area for W.010A is located on the western edge of town, with minimal receivers in close proximity.

The residential receivers potentially affected by the new work scenario (W.010A), were also identified as being impacted by the following scenarios, in the endorsed CNVIS:

- W.003 – Contamination sampling
- W.004 – Geotechnical investigation
- W.005 – Track work – peak
- W.006 – Track work – typical
- W.010 – Sandy Creek bridge work – peak
- W.011 – Sandy Creek bridge work – typical

3 VIBRATION ASSESSMENT

3.1 Sandy Creek access works (W.010A)

There are no vibration intensive plant and equipment proposed as part of W.010A; therefore, no vibration impacts are expected.

4 CONCLUSION

4.1 Mitigation and management measures

As this Assessment is an addendum to the endorsed Uranquinty Yard CNVIS, the same mitigation and 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 Appendix A and Appendix B, 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 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

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

FIGURE 3: ADDITIONAL MITIGATION MEASURES MATRIX - NOISE & VIBRATION

APPENDICES

APPENDIX A

SLR Predict (W.010A) – 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	Uranquinty Addendum2 - W.010A
Stage	A2I Construction
Permit Number	N/A
Start Date	2026-01-12
End Date	2026-01-13
Assessment Period	Day - standard

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: Work Area (Height: Ground)	Total: 108		
Excavator - Tracked (20T) 100% operation	105	1	No
Compactor (plate) 100% operation	104	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
Highly Intrusive	0 property	0 property
Moderately Intrusive	0 property	0 property
Clearly Audible	4 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
2 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	49	59	10	Clearly Audible
1 O'CONNOR ST, URANQUINTY NSW 2652	RES	NCA09	49	52	3	Clearly Audible
4 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	49	52	3	Clearly Audible
6 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	49	51	2	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
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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
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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.010A) – 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.

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Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
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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	4 properties	0 property
Noticeable	10 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
2 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	44	59	15	Clearly Audible
1 O'CONNOR ST, URANQUINTY NSW 2652	RES	NCA09	44	52	8	Clearly Audible
4 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	44	52	8	Clearly Audible
6 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	44	51	7	Clearly Audible
8 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	44	49	5	Noticeable
14 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	44	48	4	Noticeable
10 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	44	48	4	Noticeable
1 PEARSON ST, URANQUINTY NSW 2652	RES	NCA09	44	48	4	Noticeable
3 O'CONNOR ST, URANQUINTY NSW 2652	RES	NCA09	44	47	3	Noticeable
12 MORGAN ST, URANQUINTY NSW 2652	RES	NCA09	44	47	3	Noticeable
3 BRIDGE ST, URANQUINTY NSW 2652	RES	NCA09	44	46	2	Noticeable
2 BEST ST, URANQUINTY NSW 2652	RES	NCA09	44	46	2	Noticeable
12 BEN ST, URANQUINTY NSW 2652	RES	NCA09	44	45	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
6066 OLYMPIC HWY, URANQUINTY NSW 2652	RES	NCA09	44	45	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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Vibration - Additional Mitigation Measures Matrix			
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OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

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