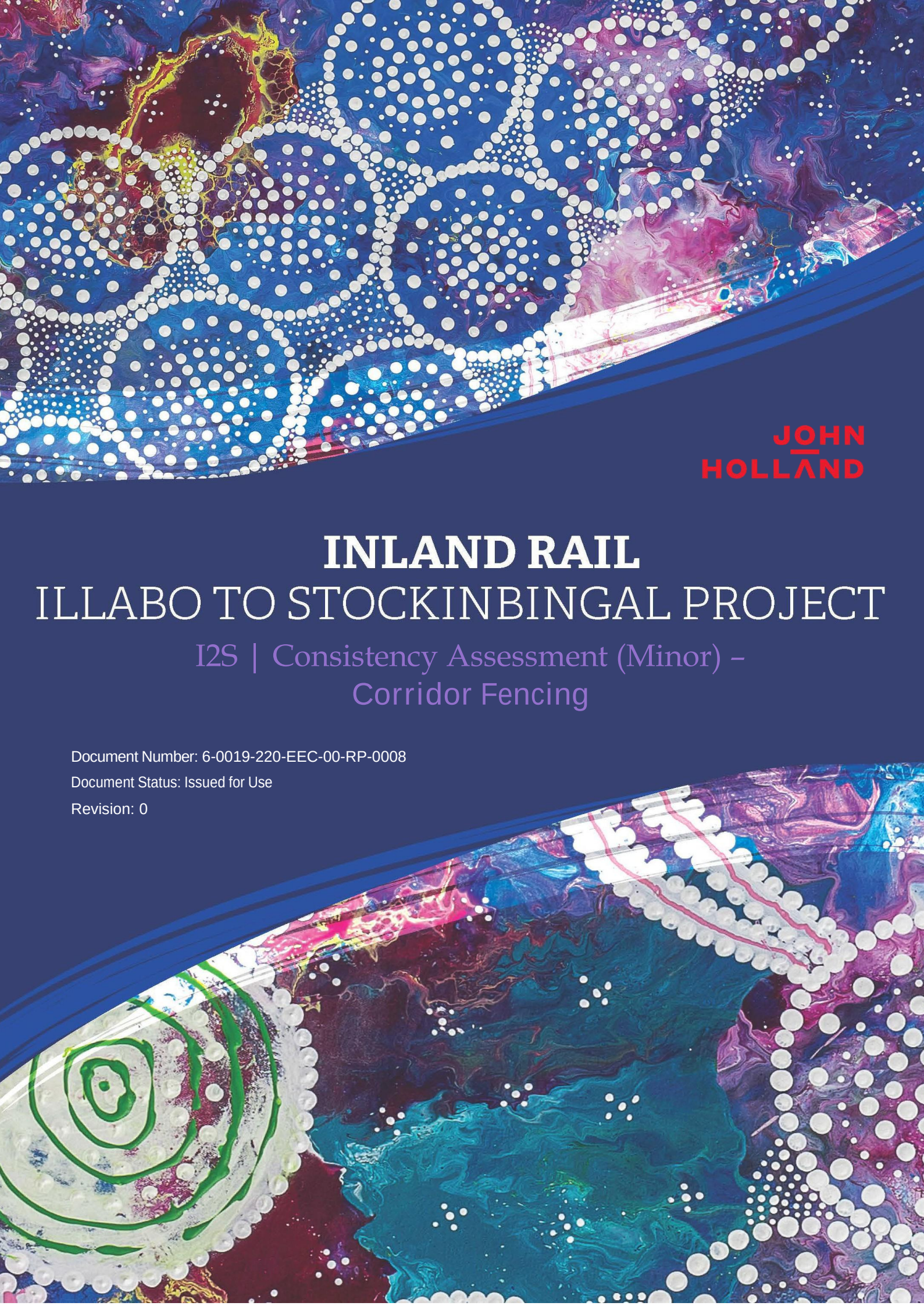




**JOHN
HOLLAND**

INLAND RAIL

ILLABO TO STOCKINBINGAL PROJECT

I2S | Consistency Assessment (Minor) –
Corridor Fencing

Document Number: 6-0019-220-EEC-00-RP-0008

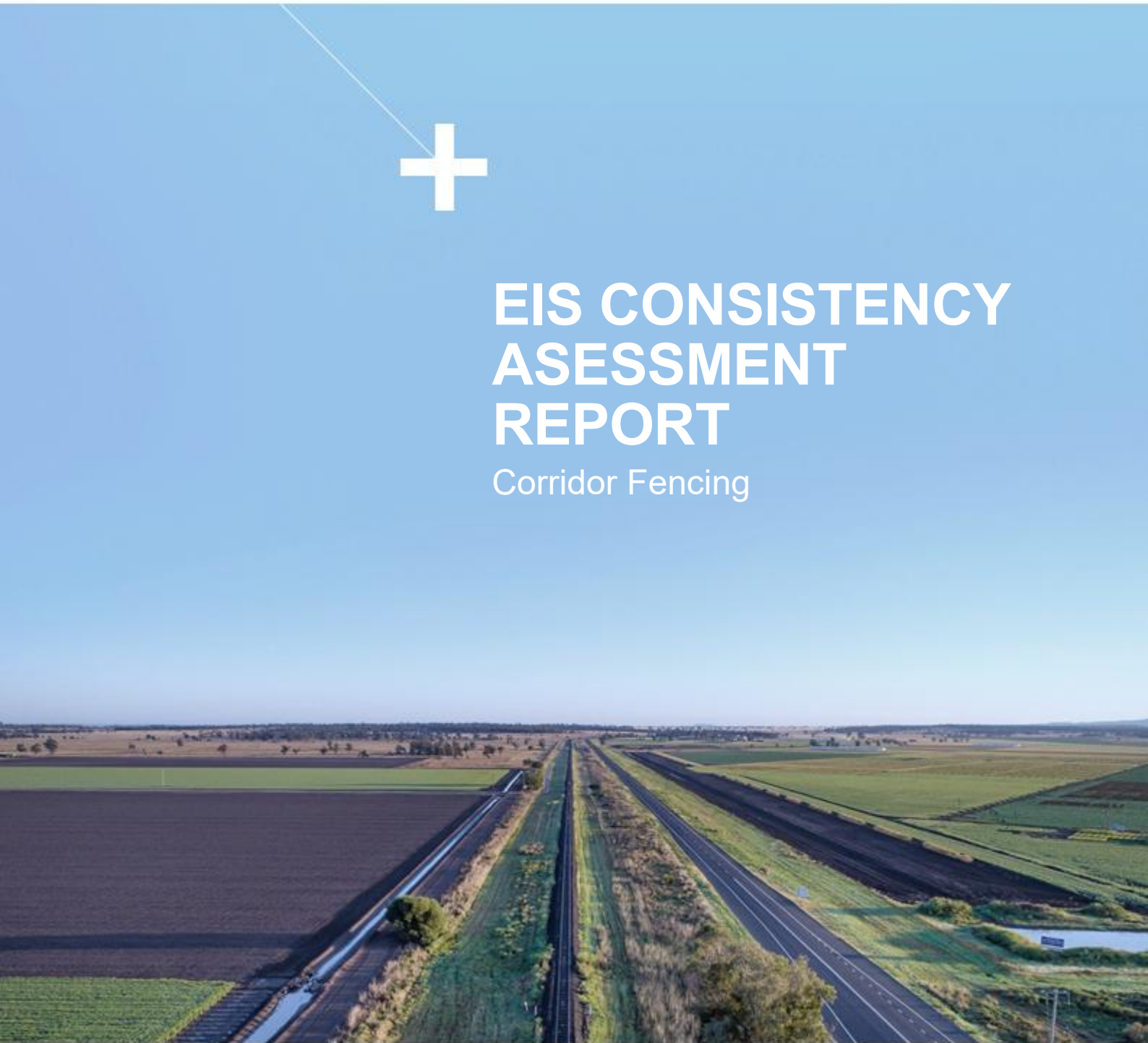
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Revision: 0



EIS CONSISTENCY ASSESSMENT REPORT

Corridor Fencing



Document Title	I2S Consistency Assessment (Minor) –Corridor Fencing		
IRPL Document No.	6-0019-220-EEC-00-RP-0008		
Prepared By	Daniel Lidbetter		
Document Owner	Daniel Lidbetter		
	REVIEWED BY		
Name	Daniel Lidbetter		
Title	Environmental Approvals Manager		
Signature Date	 Document Number 6-0019-220-EEC-00-RP-0008 Revision 0 Approved Mr Daniel Lidbetter - John Holland Pty Ltd Jun 1, 2026, 8:22 AM GMT+10:00 This review has been completed using Aconex Workflow for the Inland Rail - Illabo to Stockinbingal (I2S) Project.		

Revision	Date issued	Description
A	24/01/2026	Issued for Review
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IRPL Document Number: 6-0019-220-EEC-00-RP-0008

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Table of contents

Glossary	3
1 Introduction	4
1.1 Background.....	4
1.2 Purpose of consistency assessment.....	4
2 Proposed scope of work	5
3 Consistency assessment review	10
3.1 Environmental assessment.....	10
3.2 Matters of National Environmental Significance (MNES) assessment.....	14
3.3 Consistency review.....	15
4 Monitoring and Reporting	16
5 Conclusion	16
6 Certification	17
7 Appendices	19
Appendix A Fencing locations and sensitive area plans	20
Appendix B Heritage search results and AHIMS site cards	21
Appendix C Noise Assessment	22
Appendix D Design Package L6 (Relevant Drawings)	30

Table of tables

Table 2-1 Proposed Scope of Works.....	5
Table 3-1 Environmental assessment.....	10
Table 3-2 MNES assessment.....	14
Table 3-3 Consistency Review.....	15
Table 7-1 Noise catchment area summary.....	22
Table 7-2 Permitted work hours for the Project.....	23
Table 7-3 Noise Management Levels (NML) at residential receivers.....	25
Table 7-4 Proposed equipment and associated sound power levels.....	28
Table 7-5 Summary of NML exceedance ranges for standard hours at the Proposed Change CH450.35-CH450.46 (Dudauman Rd).....	28
Table 7-6 Summary of NML exceedance ranges for standard hours at CH455.35-CH455.41 (Stockinbingal).....	28
Table 7-7 Detailed prediction for Proposed Access at the Proposed Changes.....	29

Table of figures

Figure 2-1 Proposed Change at CH450.35-CH450.46 (Dudauman Rd).....	8
Figure 2-2 Proposed Change at CH455.35-CH455.41 (Stockinbingal).....	9
Figure 7-1 Map showing predicted noise impacts at the Proposed Change CH450.35-CH450.46 (Dudauman Rd).....	26
Figure 7-2 Map showing predicted noise impacts at the Proposed Change CH455.35-CH455.41 (Stockinbingal).....	27

Glossary

Specific terms and acronyms used throughout this Consistency Assessment are listed and described in the table below.

TERM	DEFINITION
Action Management Plan	EPBC Act: In relation to an action, means a plan for managing the impacts of the action on a matter protected by a provision of Part 3, such as a plan for conserving habitat of a species.
Change	Macquarie Dictionary: A variation, adjustment, alteration, deviation or transformation to the project scope, construction methodology or design.
Consistent	Macquarie Dictionary: Agreeing or accordant; compatible; not self-opposed or self-contradictory; constantly adhering to the same principles, course, etc.
Consistent with	Means that carrying out the project (as approved) will comply with the terms of the approval despite the proposed change. (See <i>Barrick Australia Ltd v. Williams</i> [2009] NSWCA 275)
Compatible	Macquarie Dictionary: Capable of existing in harmony. Capable of orderly, efficient integration with other elements in a system.
EPBC Act Approval	An approval of a controlled action issued by the Australian Government Minister under Section 133 of the Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i> .
Modification of an Approval	Section 5.25 <i>Environmental Planning and Assessment Act 1979</i> : Means changing the terms of the Division 5.2 approval, including revoking or varying a condition of the approval or imposing an additional condition on the approval.
Division 5.2 Approval	An approval under Division 5.2 of the NSW <i>Environmental Planning and Assessment Act 1979</i> for State Significant Infrastructure / Critical State Significant Infrastructure.

1 Introduction

1.1 Background

Australian Rail & Track Corporation (ARTC) completed an environmental impact statement (EIS) of the Inland Rail: Illabo to Stockinbingal (I2S) (the project EIS) in August 2022. The EIS identified a range of environmental, social and planning issues associated with the construction and operation of the Inland Rail: Illabo to Stockinbingal Project and proposed measures to mitigate and manage those potential impacts.

The EIS was exhibited by the Department of Planning, Housing and Infrastructure (DPHI) for a period of six (6) weeks, commencing on 14 September 2022 and concluding on 26 October 2022. Following public exhibition, submissions from stakeholders were received and addressed by Inland Rail in the submissions report.

The Minister for Planning and Public Spaces approved the Inland Rail: Illabo to Stockinbingal Project under Division 5.2, Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act) on 4 September 2024 (application number SSI-9406). The approval incorporated the Minister's Conditions of Approval (CoA).

For the purposes of this consistency assessment (CA), the approval issued by the NSW Minister for Planning and Public Spaces for the Inland Rail: Illabo to Stockinbingal Project is referred to as the Division 5.2 approval.

The Inland Rail: Illabo to Stockinbingal Project was referred to the Australian Government Minister for the Environment under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) due to potential substantial impacts to listed threatened species and communities and was subject to assessment via the NSW Bilateral agreement with the Commonwealth. The Australian Government Minister's approval was received on 28 October 2024 subject to conditions being met. For the purposes of this CA, the approval issued by the Australian Government Minister for the Environment for the Inland Rail: Illabo to Stockinbingal Project is referred to as the EPBC approval (2018/8233).

This Consistency Assessment (CA) evaluates whether the installation of permanent fencing is consistent with the impacts assessed in the Environmental Impact Statement (EIS). While the majority of the fencing is located within the approved construction footprint, several short sections extend marginally outside the Construction Impact Zone (CIZ) where the approved boundary does not fully accommodate the final tie-in locations along the corridor.

More details associated with the methodology and assessment of potential impacts to confirm consistency with those identified in the EIS are provided in the following sections.

1.2 Purpose of consistency assessment

This CA has been prepared in accordance with the Inland Rail Pty Ltd (IRPL) specification for NSW Consistency Assessments (0-0000-902-EEC-00-SP-0001_1). The purpose of this consistency assessment is to:

- Describe the proposed change relative to the Division 5.1 or 5.2 Approval and the EPBC Act Approval.
- Assess the environmental impacts associated with the proposed change relative to the Division 5.2 Approval and the EPBC Act Approval.
- Determine if the proposed change is consistent with the Division 5.1 or 5.2 Approval or whether further approval is required either for a modification application or a new project.
- Determine if the proposed change is consistent with the EPBC Act Approval or whether a variation to the conditions of approval / a conditioned action management plan or a new referral is required.

2 Proposed scope of work

This section is to be completed by the person requesting the consistency review- project engineer/ design engineer etc.

Table 2-1 Proposed Scope of Works

	DETAILS
PROPOSED SCOPE OF WORKS	The Proposed Change includes the following: Installation of permanent rail corridor fencing outside the CIZ. These fences are generally existing fences that require replacement (to comply with the agreed rail corridor fencing and ARTC specifications) however new fencing will be required to be installed in areas where there is not already existing fencing. Proposed Changes are shown in Figure 3-1 to Figure 3-4.
LOCATION (INCLUDING CHAINAGE/ GPS LOCATION)	The following locations of these fences outside the CIZ are: -CH450.35-CH450.46 (Dudauman Rd) -CH455.35-CH455.41 (Stockinbingal)
DESCRIPTION OF PROPOSED CHANGE	<u>Fencing installation</u> This Proposed Change will include fencing works (1.2m high rural mesh fencing) along the cadastral and permanent acquisition boundaries for a total length of approximately 195m. These fencing works occur adjacent to, or marginally outside, the approved CIZ in areas of agricultural land. The works are minor in scale and limited to the installation of fencing along cadastral and permanent acquisition boundaries. The works do not alter the form, footprint, or function of the approved Project. The Proposed Change is anticipated to involve the following work methodology: - Removal and disposal of existing fencing. - Installation of rural fencing (2 different types), using: 90/4 galvanised mesh netting with top, middle and bottom wire and 4-point barbed wire 8/90/30 galvanised mesh with top, middle and bottom wire and 4-point barbed wire. - Star pickets placed at a maximum 4 metre spacing, with every 5th star picket as a 'MaxY' post. - Strainer posts placed at intervals as required to stabilise and terminate the end of each respective fence line. 



	Example of a 'MaxY' post  Example of galvanised mesh netting  Example of a strainer post
NEED FOR PROPOSED CHANGE	John Holland has progressed from concept design to detailed design, which has identified the need for minor adjustments to the CIZ. The Proposed Change is required to address CIZ boundary alignment discrepancies and to ensure that permanent fencing is installed in the correct long-term positions aligned with the final property acquisition boundary. The design drawings relevant to the Proposed Change are included in Appendix D.
EQUIPMENT REQUIRED	The works included in this Consistency Assessment will involve the following plant and equipment: • Light vehicles (LVs) • Fencing trailer • Hand-held auger (post hole digger) • Power tools • Manual fence post driver • Motorised fence post driver • Hammer • Sledgehammer • Nips • Wire cutters • Pliers • Spray paint



	• Bunting • Flagging
WORK HOURS	Under Condition E1 of the conditions of approval for the Project, work would be undertaken during the following hours (standard hours): • 7:00 am to 6:00 pm Mondays to Fridays; • 7:00 am to 6:00 pm Saturdays; and • at no time on Sundays or public holidays. No out of hours work (OOHW) is anticipated to be required for the works. Should OOHW be required, OOHW would be undertaken in accordance with requirements included in E3 of the CoA.



Figure 2-1 Proposed Change at CH450.35-CH450.46 (Dudauman Rd)

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Issue Date: 03/05/2026

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Figure 2-2 Proposed Change at CH455.35-CH455.41 (Stockinbinal)

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3 Consistency assessment review

3.1 Environmental assessment

Table 3-1 Environmental assessment

FACTOR	Y/ N	DESCRIPTION
Are the proposed works outside the Construction Impact Zone (CIZ)?	Y	The proposed permanent fencing works occur at identified locations (CH450.35-CH450.46 and CH455.35-CH455.41) where design and boundary verification identified misalignments between the approved CIZ and the permanent boundaries. The existing CIZ footprint does not accurately reflect the long-term property boundary, resulting in fence lines that must be positioned slightly outside the approved CIZ to ensure accuracy and consistency with the final land acquisition extents.
Are the proposed works outside the Environment Protection Licence (EPL) footprint?	Y	The proposed change extends slightly beyond the EPL Premise Boundary Maps. Locations will be revised in a variation of the Premise Maps to the license prior to undertaking works. John Holland will manage any required EPL amendments or notifications directly with the EPA, consistent with existing project protocols.
Are the proposed works on land that require permission from a third party? (TfNSW/ Crown Lands/ property owner etc)	N	The proposed permanent fencing works are located on land that has already been acquired by IRPL/ARTC and is now incorporated into the ARTC rail corridor.
Does the proposed scope require out of hours work?	N	No out of hours work is required for installation of fences. Noise Assessment is included in Appendix C.
Will the works impact on sensitive receivers (air quality/ noise/ visual)?	N	No sensitive receivers have been identified to be impacted near work areas. At CH450.35–CH450.46 (Dudauman Road.) there is a residential receiver 1670m to the East, a residential receiver 1325m to the West, a residential receiver 1300m to the South-West, and a residential receiver 1475m to the North-West. No other receivers within a 2km radius of the works. Please note that the noise model shows that none of these receivers will be impacted by the works. At CH455.35–CH455.41 (Stockinbingal) there is a residential receiver 530m to the East and a second residential receiver 410m to the North-East. The town of Stockinbingal resides 900m to the East where there are a variety of residential, commercial, educational, and religious receivers present. Please note that the noise model shows that none of these receivers will be impacted by the works. Visual impacts will not differ from standard works already approved as part of the Project.
Is the proposed works area within non-native vegetation (ecologist verified)?	N	At CH450.35–CH450.46 (Dudauman Road.) no non-native vegetation has been identified within the proposed works area based on ecologist's Baseline Weeds Survey "I2S Weeds Report" dated Oct-25.

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		At CH455.35–CH455.41 (Stockinbingal), several non-native and declared weed species—including African Boxthorn (<i>Lycium ferocissimum</i>), European Olive (<i>Olea europaea</i>), Sweet Briar (<i>Rosa rubiginosa</i>) and Nepalese Firethorn (<i>Pyracantha crenulata</i>)—were recorded within approximately 60 metres of the proposed fencing location. These species do not occur within the immediate works footprint but are present within the surrounding landscape. Management of these non-native species will be undertaken in accordance with the Biodiversity Management Sub-Plan and the Biosecurity Management Sub-Plan, which comply with the requirements of the approved EIS, the NSW Biosecurity Act 2015 and the IRPL Biosecurity Strategy.
Is any native vegetation clearing required that has not been offset as part of the project's biodiversity offsets?	N	Two mapped native vegetation communities occur in proximity to the proposed works and shown in Appendix A SEP: PCT 277 – Blakely's Red Gum – Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion (Moderate Condition) PCT 76 – Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions No native vegetation is required to be trimmed, cleared, removed, or otherwise disturbed as part of this project change. Fencing posts (such as MaxY posts and star pickets) will be installed using a handheld auger in areas containing Threatened Ecological Communities (TEC) or their habitat to not impact biodiversity values of the CSSI. No strainer posts will be installed within the dripline of any trees associated with these PCTs. The fencing alignment will be positioned to maintain a buffer from remnant canopy and understorey vegetation. Proposed change does not require any new native vegetation clearing and does not trigger additional biodiversity offset obligations.
Are any known threatened species or heritage items records located within 50 m of the proposed works area?	Y	CH450.35–CH450.46 (Dudauman Rd): No Aboriginal or non-Aboriginal heritage items are located within 50 m of the proposed fencing alignment. The fencing traverses an area mapped as PCT 76 – Western Grey Box tall grassy woodland, assessed as poor condition in this section (consistent with the EIS landscape context of degraded, fragmented woodland). A small number of stags (dead standing trees) were identified during the pre-clearance survey "Pre-clearance Survey Report: Illabo to Stockinbingal-Inland Rail" Dated 26th Sept-25; however, no removal of trees or stags is required beyond what has already been assessed and approved under the Project's existing vegetation clearing approvals. The nearest previously recorded threatened fauna species—Spotted Harrier—is located more than 100

		m from the proposed works area and therefore outside the 50 m assessment threshold. On this basis, no threatened biodiversity values or heritage items are expected to be affected by the proposed works at Dudauman Road. At CH455.35–CH455.41 (Stockinbingal): Aboriginal heritage items are located within/adjacent to 50 m of the proposed works area, and several threatened fauna species have been recorded within 70 m (within the existing CIZ). This location occurs within / adjacent to Zone 11 East, an area where previous archaeological investigations identified Aboriginal cultural material. Specifically, three NSW AHIMS-registered sites occur within the 50 m buffer: AHIMS 50-2-0069 AHIMS 50-2-0055 AHIMS 50-2-0054 These sites consist of two low-density Aboriginal artefact scatters and one low-density Aboriginal artefact scatter. The following threatened fauna species have been recorded (their potential habitat-like) within 70 m of the proposed works: - Grey-crowned Babbler - Superb Parrot - Squirrel Glider These species and records occur within the already-approved CIZ and no new vegetation clearing is required beyond previously approved impacts
Has the proposed works area been surveyed for heritage?	Y	<u>Non-Aboriginal Heritage</u> Two non-Aboriginal heritage listed items have been identified near the proposal site (At CH455.35–CH455.41) in Stockinbingal. - the Stockinbingal Railway Station - Stockinbingal Heritage Conservation Area (heritage conservation area). - Kurrajong Trees (I77). Both are listed with 'local' significance under the Cootamundra LEP. The proposed fencing works proposed are 1km away from these heritage items and therefore will not be impacted. No non-Aboriginal heritage items are located within 50 m of the proposed fencing alignment along Dudauman Rd. <u>Aboriginal Heritage</u> The Proposed Change at CH455.35–CH455.41 in Stockinbingal lies within cultural heritage Survey Zone 11 East, which was surveyed and test-excavated as part of the EIS Aboriginal Cultural Heritage Assessment and subsequent investigations. If objects of potential heritage significance are found during work, then the “<i>Unexpected and Incidental Finds Protocol</i>” will be followed and adhered to, including the immediate stopping of works and the

		further assessment of archaeological potential and identification and application of mitigation measures. Nearby registered items: AHIMS 50-2-0054 / 50-2-0055 (isolated artefacts, Zone 11 East): addressed via surface collection (Apex Archaeology, 2025). No further archaeological mitigation is required for these sites. ARTC19 (50-2-0058 scarred tree, Zone 11 East): outside the proposed fencing section. AHIMS 50-2-0069 (scattered artefacts): This artefact scatter was recovered during test excavations (GML Heritage, 2020). No further archaeological mitigation is required for this site. The Unexpected Finds Procedure for Heritage and Human Remains will be available on site and is included in the Project induction.
Does the proposed scope require traffic management?	N	The proposed change will not modify the existing road network in the area. No diversions will be required on Dudauman that necessitate the enforcement of a Traffic Guidance Scheme (TGS) above and beyond those discussed in the Construction Traffic, Transport and Access Management Plan (CTTAMP). The proposed change involves no works on public roads and are wholly located on private property (ARTC acquired land). The number and type of construction vehicles required for the proposed works are aligned with the EAD. No increase in construction traffic is anticipated because of the proposed change. Both CH450.35–CH450.46 (Dudauman Road) and CH455.35–CH455.41 (Stockinbingal) locations will be accessed through already established access tracks and gates as part of the CTTAMP.
Is the works area within 40 m of a waterway or water body?	Y	CH450.35–CH450.46 (Dudauman Road): no presence of waterways within 40m. The Proposed Change at CH455.35–CH455.41 in Stockinbingal is located approximately 35 m from Dudauman Creek, an ephemeral watercourse identified in the EIS. The nature and scale of the proposed works occur entirely within previously assessed disturbance areas and will not alter drainage patterns, flow paths, or riparian function. This proximity does not trigger any new or unassessed hydrological impacts, as the works remain consistent with what was assessed in the EIS and Soil and Water Management Sub-Plan.
Will the works require material to be temporarily or permanently stockpiled outside a designed ancillary facility?	N	No temporary or permanent stockpiling will occur outside these approved locations, and no additional land or footprint expansion is required to support the works.

Will the proposed scope impact operations?	N	The proposed change will not impact operations.
Are the works minor in nature and comprise activities described generally consistent with that detailed in the project as approved under the Environmental Planning and Assessment Act 1979?	Y	The proposed change is minor in scope, limited to small-scale adjustments and remain fully consistent with the construction activities, methodologies, and impact envelope described and approved in EIS and the subsequent Infrastructure Approvals under the <i>Environmental Planning and Assessment Act 1979</i> . No additional disturbance, new impact pathways, or departures from the approved construction methods are proposed. The works do not require amendments to any conditions of approval.
Are the proposed works to be undertaken in accordance with the Project Approval, EPL, CEMP and Subplans?	Y	All works will be managed in line with the Project Approval, CEMP and sub-plans. The EPL will be varied by way of an update to the Premise Maps for the Project Boundary for the area of new fencing to be included in the EPL boundary as a variation to the license prior to fencing installation.

3.2 Matters of National Environmental Significance (MNES) assessment

The following matters of national environmental significance and impacts on Commonwealth land are required to be considered for the proposed works:

Table 3-2 MNES assessment

FACTOR	IMPACT (YES/NO)	CONSISTENT?
Any impact on a World Heritage property?	NO	The proposal is consistent, fencing installation will not cause any impacts on World Heritage.
Any impact on a National Heritage place?	NO	The proposal is consistent, fencing installation will not cause any impacts on any national heritage places.
Any impact on a wetland of international importance?	NO	The proposal is consistent with the EIS and CoA, the fencing installation will not cause any impacts to wetlands of international importance.
Any impact on a listed threatened species or communities?	NO	The proposal is consistent with the EIS and CoA, fencing installation will not cause any impacts to threatened species or communities.
Any impacts on listed migratory species?	NO	The proposal is consistent with the EIS and CoA, the fencing installation will not cause any impacts on migratory species.
Any impact on a Commonwealth marine area?	NO	The proposal is consistent with the EIS and CoA, the fencing installation will not cause any impacts to a Commonwealth marine area.
Does the proposal involve a nuclear action (including uranium mining)?	NO	The proposal is consistent, the fencing installation will not involve a nuclear action.
Additionally, any impact (direct or indirect) on Commonwealth land?	NO	The proposal is consistent, the fencing installation will not cause any direct or indirect impacts to Commonwealth land.

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3.3 Consistency review

Table 3-3 Consistency Review

CONSISTENCY QUESTION	DISCUSSION	CONSISTENT?
Are the proposed works being carried out as part of an approved project? E.g. Are works “generally in accordance with” project documents and plans, where relevant?	The Proposed Change does not constitute a modification, is not a radical transformation of the Project as a whole and is not an entirely new Project	Consistent
Is the modification such a radical transformation of the project as a whole, as to be, in reality, an entirely new project?	The Proposed Change is not a radical transformation and does not constitute a new project. It is a minor refinement to boundary fencing consistent with the approved project scope and the environmental impact envelope assessed in the EIS and managed under the existing CEMP sub-plans, REMMs and CoA.	Consistent
Are the proposed works a modification that is considered “consistent with” the project as approved? This will require the work in question to have environmental impacts contemplated by the approval (such as EA / EIS, CEMP, spoil management plan, heritage management plan or the like), including documents forming part of the approval, or as a minimum, very few additional impacts.	The proposed works will be managed in accordance with the CoA's, REMMs and EIS. All works will be undertaken in accordance with the CEMP and sub-plans as currently approved.	Consistent
When considering all previous consistency assessments and the potential cumulative impacts, are the proposed works still considered ‘consistent with’ the project as approved?	As above, the works were considered within the EIS up to the boundary with minor excursions outside the CIZ.	Consistent
Do the proposed works require a modification to a condition of approval for the proposed project?	No proposed modification to conditions required.	Consistent



4 Monitoring and Reporting

The proposed change has been assessed in relation to existing monitoring and reporting requirements in order to determine if there is further monitoring or reporting required as a result.

5 Conclusion

Based on the consistency assessment in this report, the Proposed Change is considered:

Further to the details provided in table 3 above, the proposed activity/design refinement is considered:

☒ Consistent with the Ministers Conditions of Approval, and the Statement of Commitments / Mitigation Measures.

☐ ~~Not consistent with the Ministers Conditions of Approval, and the Statement of Commitments / Mitigation Measures. A modification to the project approval must be prepared and submitted to the Department of Planning Infrastructure and Environment for approval.~~



6 Certification

Author

This consistency assessment provides a true and fair review of the proposed change for the I2S project.

Name: Maria Orlova

Signature: MO

Position: Environmental Advisor

Date: 23/02/2026

Organisation: John Holland

Inland Rail

The Proposed Change, subject to the implementation of all the environmental requirements of the project, is consistent with the Division 5.2 approval/~~is not consistent with the Division 5.2 approval and a modification is required.~~

[And]

The Proposed Change, subject to the implementation of all the environmental requirements of the project, is consistent with the EPBC approval/~~is not consistent with the EPBC approval and consultation with the Australian Government Department of the Environment and Energy is required prior to submitting a request to vary the conditions of approval/a conditioned action management plan/is not consistent with the EPBC approval and a new referral of the project is required.~~

[Or]

~~The Proposed Change is considered a radical transformation of the project as such a new project should be developed with new and separate planning approvals obtained as necessary.~~

Name: Daniel Lumby

Signature:



Position: Principal Environment Advisor

Date:

16/06/2026

Organisation:

Inland Rail

I have examined the Proposed Changes by reference to the Division 5.2 approval in accordance with Section 5.25(2) of the EP&A Act and I have examined the Proposed Changes by reference to the EPBC approval. I consider that the proposal is consistent/~~is not consistent~~ with the Division 5.2 approval and EPBC approval.

Name:

Christian Rogers

Signature:



Position:

(Manager)

I2S Project Director

Date:

16/06/2026

Organisation:

Inland Rail

I agree /~~do not agree~~ with the recommendations of the [~~Insert above signatory e.g. PEL~~] and approve /~~do not approve~~ of the carrying out the Proposed Change in accordance with those recommendations.



7 Appendices



Appendix A Fencing locations and sensitive area plans



Legend

Rail Features

- KM Chainage

Post-EIS Data

Ecology

I2S BDAR Fauna Records (WSP, 2024)

- Spotted Harrier
- Spotted Harrier - Nest (Confirmed)
- Superb Parrot

Road Names

EIS

Other Boundaries

- L6 Fencing (Design)

Chainages

- Chainage (Project, m)

CIZ

- CIZ (Original)



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STOCKINBINGAL



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SCOPE OF WORKS:



SITE CONTACTS		
GEN. SUPERINTENDENT	Greg Murdoch	0409 088 621
ENVIRONMENT MANAGER	Daniel Lidbetter	0427 768 613
SENIOR ENVIRO ADVISOR	Trent Doyle	0475 615 370
COMMUNITY NUMBER: 1800 732 761		
COORDINATE SYSTEM: GDA 2020 MGA ZONE 55	HEIGHT DATUM: AHD	HEIGHT DATUM: AHD
0100200 m		

SITE ENVIRONMENTAL PLAN

DUDAUMAN ROAD CH450.45

SEP/I2S

Locations are indicative only and may change as works progress.
Refer to design/engineering plans for details on clearing and boundary limits.
This SEP will be reviewed regularly as works progress.



Legend

Rail Features

- KM Chainage

Post-EIS Data

Heritage

- AHIMS I2S

Ecology

I2S BDAR Fauna Records (WSP, 2024)

- Grey-crowned Babbler
- Square-tailed Kite
- Squirrel Glider
- Superb Parrot

EIS

Other Boundaries

- L6 Fencing (Design)

Hydro

- Hydroline

Chainages

- Chainage (Project, m)
- ARTC Kilometerage

CIZ

- CIZ (Original)



INLAND RAIL
ILLABO TO STOCKINBINGAL



INLAND RAIL
JOHN HOLLAND

SCOPE OF WORKS:



SITE CONTACTS		
GEN. SUPERINTENDENT	Greg Murdoch	0409 088 621
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COMMUNITY NUMBER: 1800 732 761		
COORDINATE SYSTEM: GDA 2020 MGA ZONE 55	HEIGHT DATUM: AHD	HEIGHT DATUM: AHD
060120 m		

SITE ENVIRONMENTAL PLAN

DUDAUMAN ROAD CH455.35-455.41

SEP/I2S

Notes:
Locations are indicative only and may change as works progress.
Refer to design/engineering plans for details on clearing and boundary limits.
This SEP will be reviewed regularly as works progress.



Appendix B Heritage search results and AHIMS site cards

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 50-2-0055

Date recorded: 14-01-2021

Site Location Information

Site name: Burley Griffin Way Stockinbingal Artefacts 2

Easting: 579459 Northing: 6182387 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 5

Zone: 55 Location method: Non-Differential GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name
Ms. Tooby Lara

Organisation: GML Heritage

Address: Level 6, 372 Elizabeth St, Surry Hilys, NSW 2010 Australia

Phone: 0416094225 E-mail: larat@gml.com.au

Site Context Information

Land Form Pattern: Undulating Plain Land Use: Farming Low Intensity

Land Form Unit: Flat Vegetation: Open Woodland

Distance to Water (m): 100 Primary Report:

How to get to the site: Private property; permission needed from landholder. Recorded as part of the Inland Rail project.

Other site information:

Site location map



Site contents information

open/closed site:

Site condition:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
1. Artefact	1	1	1

Description:

Isolated quartz flake on edge of disturbed, old rail embankment. 2cm by 2cm.

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
2.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
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Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
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Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.			

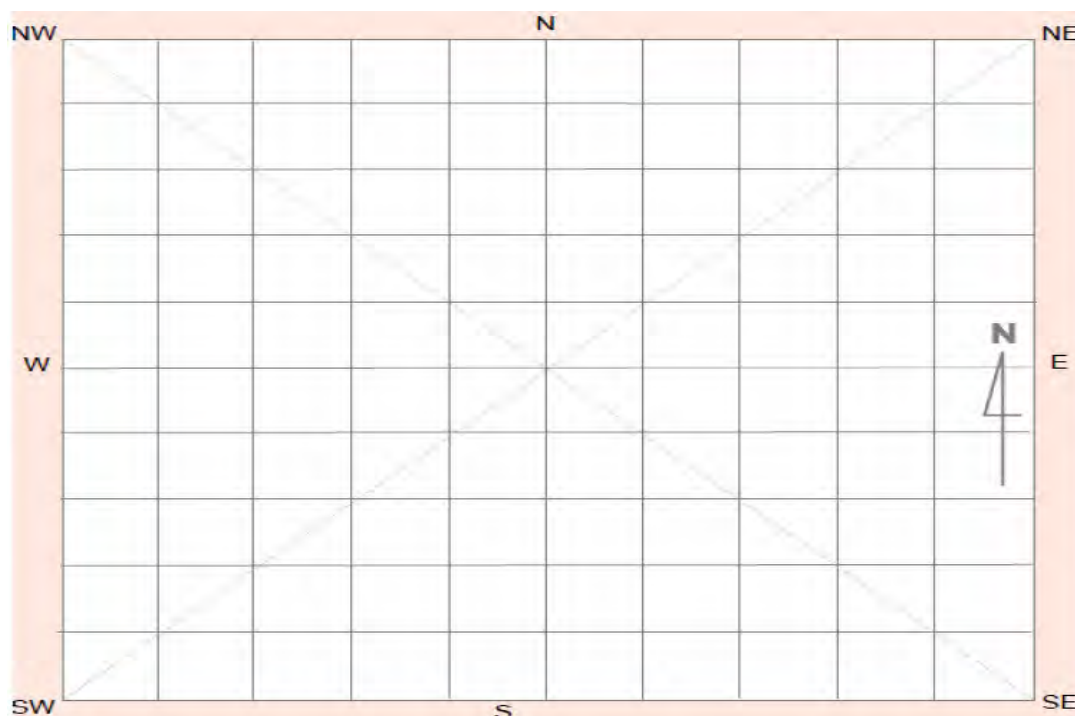
Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
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Other Site Info:

Site plan

Site photographs



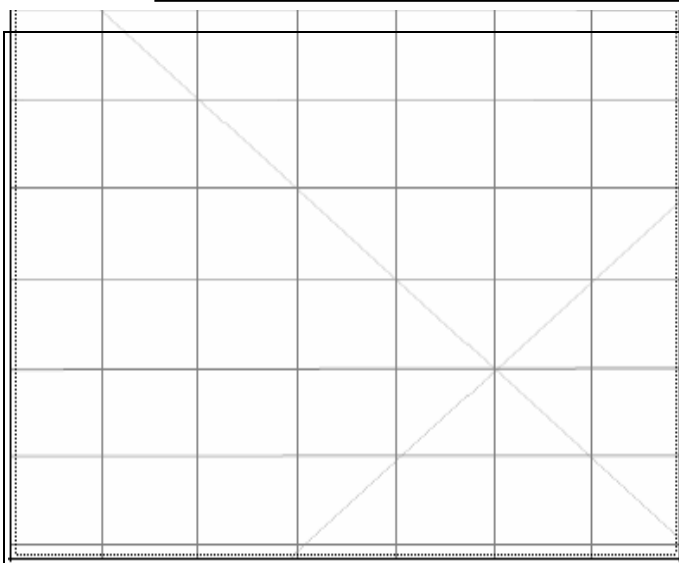
Description:

Detail

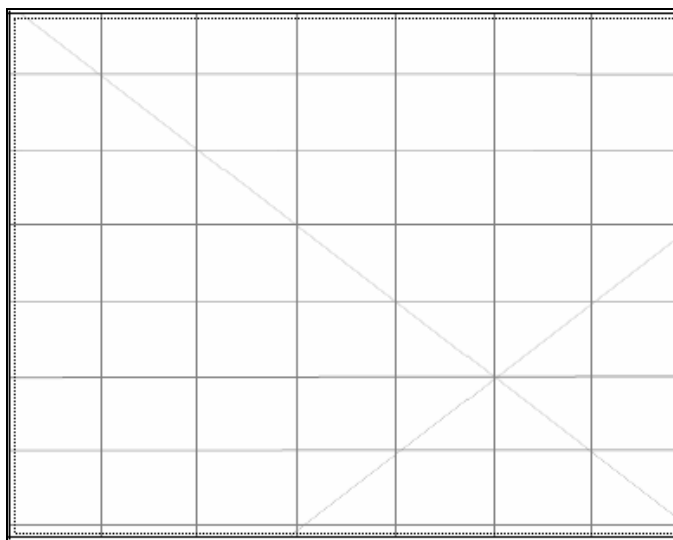


Description:

Context



Description:



Description:

Site restrictions

Do you want to
Restrict this site?:

☐

Restriction type:

Gender

☐

General

☐

Location

☐

Why is this site restricted?:

Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:

Aboriginal Site Impact Recording Form

Manager, Information Systems

Heritage NSW, Locked Bag 5020 NSW 2124

- 1 This form must be completed following impacts to AHIMS sites that are:
 - a) a result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW*
 - b) authorised by an Aboriginal Heritage Impact Permit (AHIP) issued by the Office of Environment and Heritage (OEH)
 - c) undertaken for the purpose of complying with Director General's Requirements issued by the Department of Planning and Infrastructure (DP&I) for:
 - State Significant Development (SSD - Part 4),
 - State Significant Infrastructure (SSI - Part 5.1), or
 - A Major Project (Part 3A - now repealed) under the *Environmental Planning and Assessment Act 1979 (EP&A Act)*, or
 - d) authorised by a SSD/SSI/Part 3A consent/approval under the EP&A Act.
- 2 Completed forms must be submitted to the AHIMS Registrar (www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm).
- 3 This form is intended to complement (not replace) the AHIMS Site Recording Form. Where there is a need to provide detailed information about the nature of a site, use the AHIMS Site Recording Form.
- 4 This form does not replace the need to submit reports to OEH (as a condition of an AHIP or SSD/SSI/Part 3A consent/approval)
This form must be submitted in addition to any reports.

AHIMS site ID: 50-2-0057

Date recorded: 10-10-2024

Site impact authorisation (select one)	Reference numbers, dates
☐ Archaeological Code (The impacts to this site were the result of test excavation carried out in accordance with the <i>Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW</i> .)	Date OEH was notified (under requirement 15c of the Code): OEH Regional office notified:
☐ AHIP (The impacts to this site were authorised by an AHIP.)	AHIP number: Date issued/signed: AHIMS permit ID/number:
☒ SSD/SSI/Part 3A application (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I)	Project number: SSI-94 Date Director General's Requirements issued: 20-05-2030 or Date of project approval: 20-09-2006
☐ SSD/SSI/Part 3A approved project (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)	

Site status following impacts:

- ☐ Not a site (The investigations concluded that this is not a site.)
- ☐ Valid site (The investigations confirmed that this is an Aboriginal site.)
- ☐ Partially destroyed (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)
- ☒ Destroyed (The site was completely destroyed following authorised impacts.)

Site Location Information:

Site name:

Easting: Northing: Coordinates must be in GDA94 (MGA)

Horizontal Accuracy (m):

Zone: Location method:

Recorder Information:

(The person responsible for the completion and submission of this form)

Title Surname First name

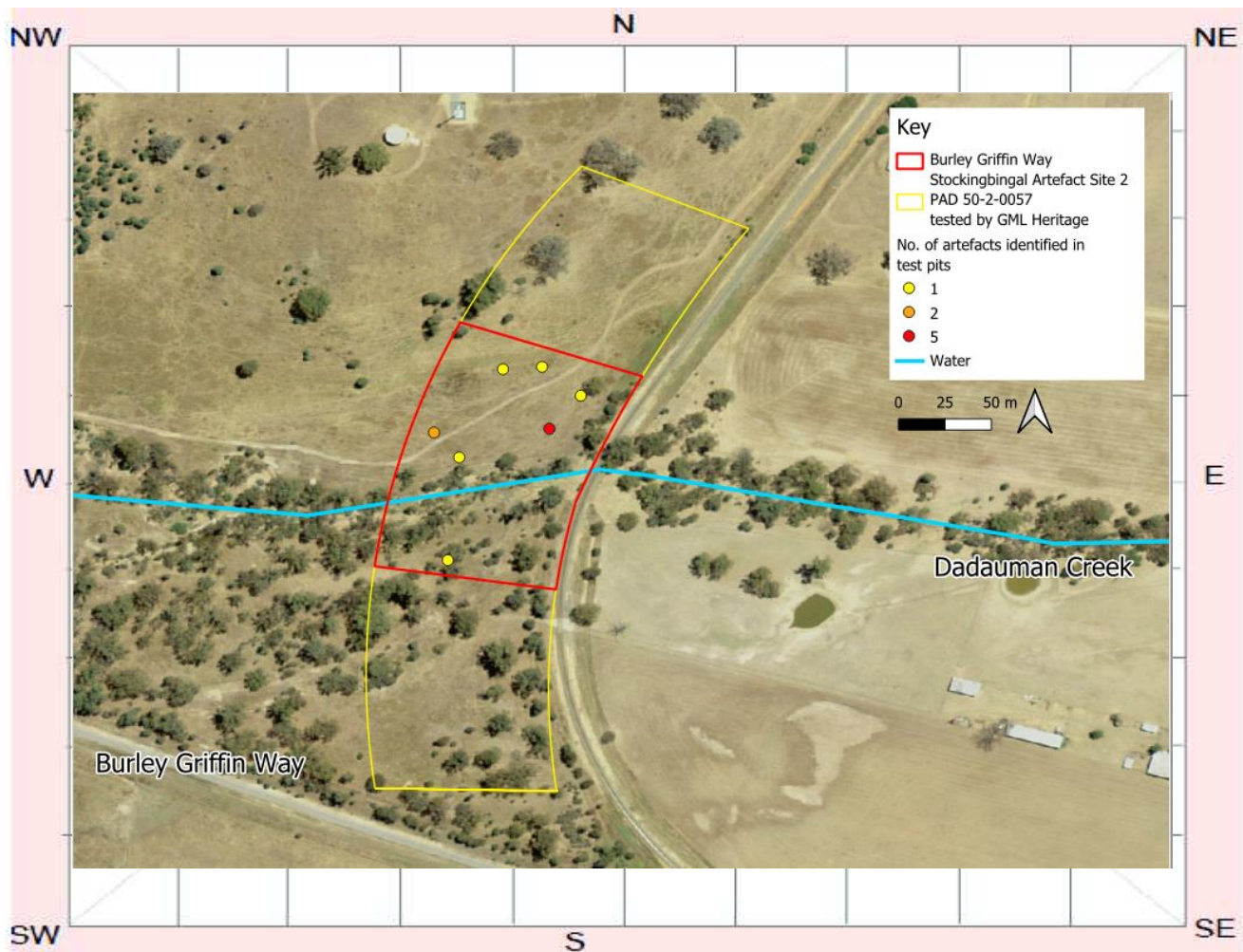
Organisation:

Address:

Phone: E-mail:

Location map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



Features:

Feature condition:

Disturbed

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

1.

Potential Archaeological Deposit

400

120

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

PAD originally identified by GML Heritage (2022 Inland Rail Illabo to Stockingbingal ACHAR). Excavations of the PAD identified 13 artefacts, mostly on the northern side of Dudauman Creek. This PAD is now 'not a site' and a new site associated with the artefacts has been created (Burley Griffin Way Stockinbingal Artefact Site 2 / 50-2-0069).

Features:

Feature condition:

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

2.

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

Features:

Feature condition:

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

3.

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

Features:

Feature condition:

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

4.

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

Features:

Feature condition:

Number of
features

Length of
feature(s)
extent (m)

Width of
feature (s)
extent (m)

5.

Description:

Scarred Trees

Scar Depth
(cm)

Regrowth
(cm)

Scar Length
(cm)

Scar Width
(cm)

Scar
shape

Tree
Species

Other Site
Info:

On the northern side of the creek, the A1 and A2 tended to blend together with little humous in the A1, and a tendency to increased clay fraction with depth. Scattered ironstone gravels through this area. Soils were largely similar on the southern side of the creek, although with a greater presence of ironstone gravels throughout, possibly indicating a tendency towards more flood deposition there.

Methodology and results

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

Zone 11 East was located to the north and south of Dudauman Creek. The landforms within this zone consisted of the flat along the top of the creek bank, the creek bank itself, and the level area to the south. Disturbance across the area was largely characteristic of surface impacts caused by grazing. The area along the creek was considered to have some archaeological potential. Test excavations were undertaken and identified 13 artefacts.

Management recommendations

Summary of any management recommendations for the AHIMS site

GML Heritage (2022 Inland Rail Illabo to Stockingbingal ACHAR) recommended the site be deregistered. A new site has been created to capture the smaller extent of the artefacts recovered during the excavations.

Post-investigation significance

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

Nil

Additional comments

Site photographs

Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



Figure 5.40 TU 230, representative of [Zone 11 East](#) north.
(Source: GML, 2020)

Description:



Figure 5.41 TU 235, representative of [Zone 11 East](#) creek.
(Source: GML, 2020)

Description:



Figure 5.42 TU 240, representative of [Zone 11 East](#) south.
(Source: GML, 2020)

Description:



Figure 5.52 Quartz from [Zone 11 East](#), TU 229, comprising of (left to right) two complete flakes, a distal flake, a medial flake, and a flaked piece. (Source: GML 2021)

Description:

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 50-2-0058

Date recorded: 15-02-2021

Site Location Information

Site name: Burley Griffin Way Stockinbingal Scar Tree 1

Easting: 579726 Northing: 6182771 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 4

Zone: 55 Location method: Non-Differential GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name
Ms. Tooby Lara

Organisation: GML Heritage

Address: Level 6, 372 Elizabeth St, Surry Hilys, NSW 2010 Australia

Phone: 0416094225 E-mail: larat@gml.com.au

Site Context Information

Land Form Pattern: Undulating Plain Land Use: Farming Low Intensity

Land Form Unit: Slope Vegetation: Open Woodland

Distance to Water (m): 500 Primary Report:

How to get to the site: Private property; permission needed from landholder. Recorded as part of the Inland Rail project.

Other site information: Recorded by James Ingram and Dylan Ingram (Bidya Marra Consultancy) with GML Martin Rowney.

Site location map



Site contents information

open/closed site:

Site condition:

Features:

1.

Modified Tree

Number of
features

2

Length of
feature(s)
extent (m)

70

Width of
feature (s)
extent (m)

20

Scar Depth
(cm)

40

Regrowth
(cm)

5

Scar shape

Oval

Tree Species

Box

Description:

Grey Box with two scars: one on the west site (coolamon/shield scar) (dimensions displayed, regrowth is estimated). The East side consists of a potential canoe scar which is 235cm long, 25cm wide, and 5-8cm deep.

Features:

2.

Number of
features

Length of
feature(s)
extent (m)

Width of
feature (s)
extent (m)

Scar Depth
(cm)

Regrowth
(cm)

Scar shape

Tree Species

Description:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
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Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

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Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.			

Description:

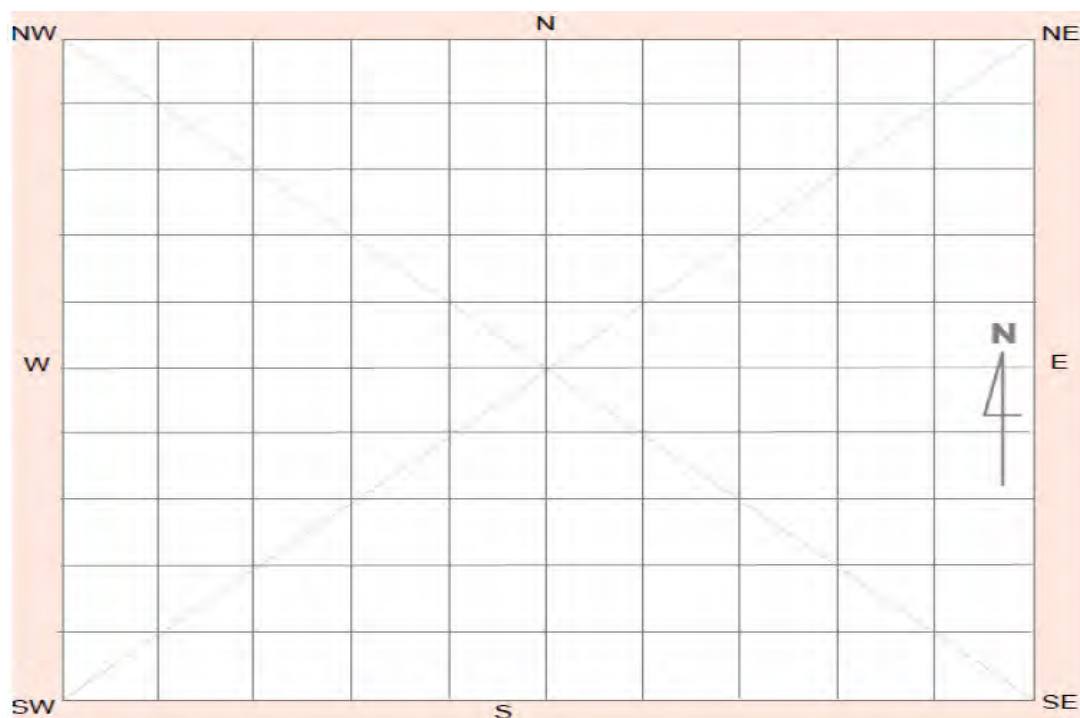
Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

----------------------	----------------------	----------------------	----------------------

Other Site Info:

Recorded by James Ingram and Dylan Ingram (Bidya Marra Consultancy) with GML Martin Rowney.

Site plan

Site photographs



Description: Scar tree from north



Description: West side 'canoe' scar



Description: East side 'coolamon / shield' scar with Dylan Ingram



Description: Detail of 'coolamon/shield' scar

Site restrictions

Do you want to Restrict this site?: ☐

Restriction type: Gender ☐ General ☐ Location ☐

Why is this site restricted?:

Further information contact

Title

Surname

First name

Organisation:

Address:

Phone: E-mail:

AHIMS site ID:

Date recorded:

17-10-2024

Site Location Information

Site name:

Burley Griffin Way Stockingbingal Artefact Site 2

Easting:

579582

Northing:

6182553

Coordinates must be in GDA94 (MGA)

Horizontal Accuracy (m):

0

Zone:

55

Non-Differential GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title

Surname

First name

Ms.

Morris

Hannah

Organisation:

Inland Rail

Address:

60 Carrington Street, Sydney 2000 NSW

Phone:

0452334339

E-mail:

HMorris@inlandrail.com.au

Site Context Information

Land Form
Pattern:

Undulating Plain

Land Use:

Farming Low Intensity

Land Form
Unit:

Slope

Vegetation:

Cleared

Distance to
Water (m):

40

Primary
Report:

GML Heritage 2022 Inland Rail Illabo to Stockingbingal
ACHAR

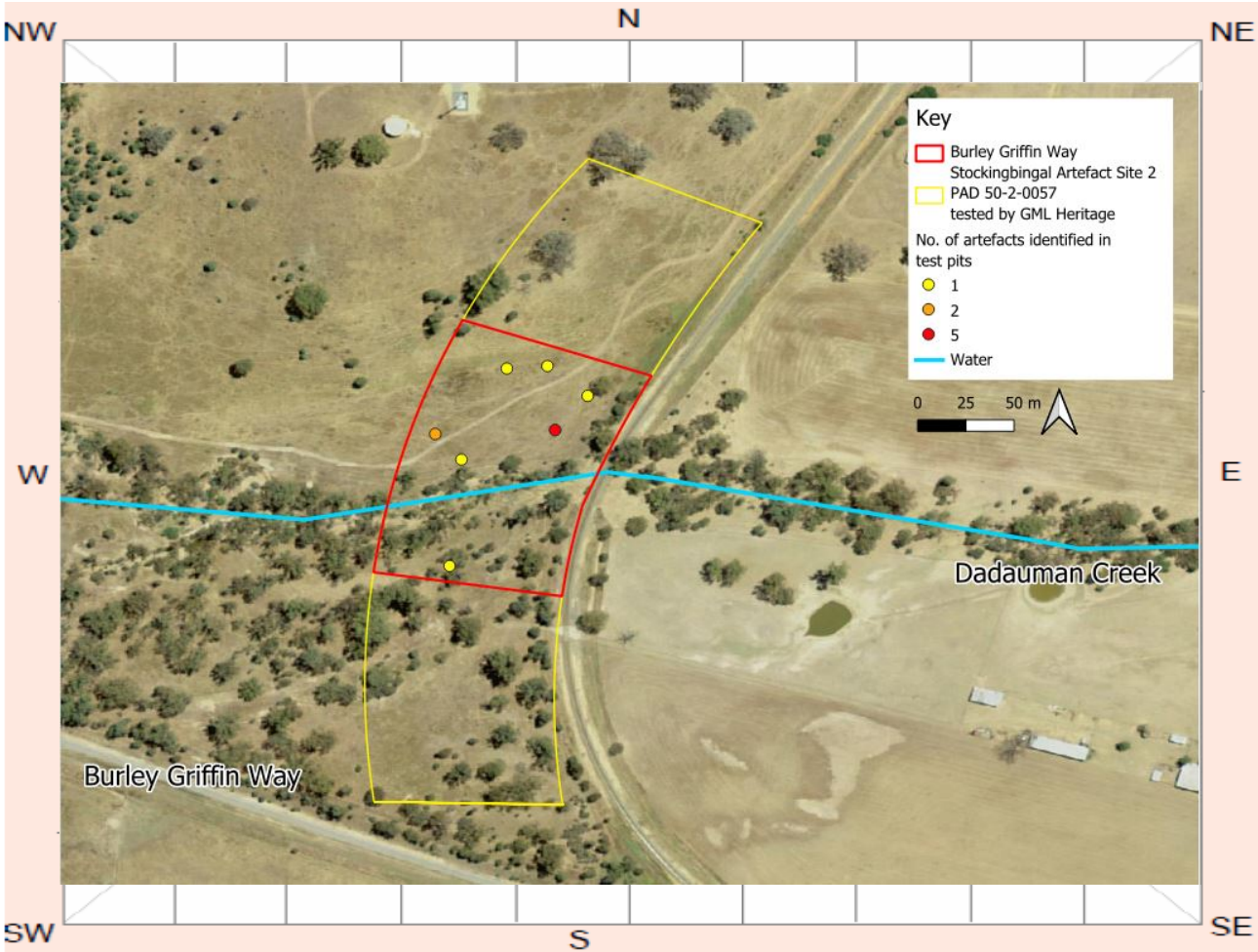
How to get
to the site:

Site is off Burely Griffin Way. It is located on private property. Seek permission for best access.

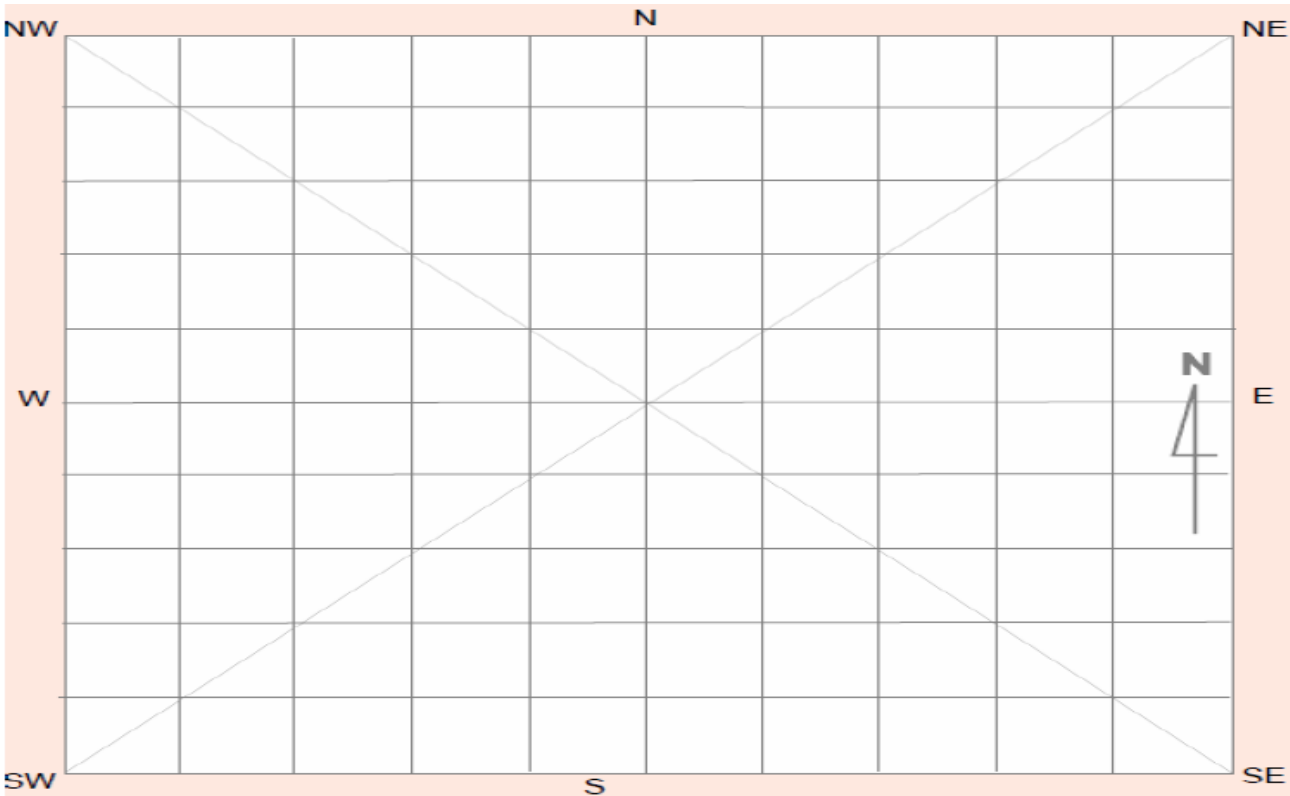
Other site
information:

This artefact scatter was recovered during test excavations (GML Heritage, 7-10 Dec 2020) of PAD 50-2-0057 (also referred to as Zone 11 East in the GML report). 13 artefacts were found in 7 of the 29 50x50cm test pits. The site runs more or less north to south with a curve to the north-east and south-east. This site is the area within the PAD where artefacts were recovered during the test exc.

Site location map



Site plan



Site contents information

open/closed site:

Site condition:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees			
					Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1.	Artefact	13	160	120				

Feature condition:

Description:

Artefacts varied in size with max dimensions of 7.5mm to 28mm and av. size of 15.5mm. Quartz is most frequent but there was also some silcrete, IMSTC and unidentified material. One chert flake might be possible geometric backed artefact. It had retouch on horizontal margin (approx 4-5 scars) and may have possible evidence of usewear on the opposite margin.

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees			
					Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2.								

Feature condition:

Description:

Features:

		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scarred Trees			
					Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
3.								

Feature condition:

Description:

Features:

4.

Feature condition:

Description:

Features:

5.

Feature condition:

Description:

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Site photographs



Figure 5.40 TU 230, representative of **Zone 11 East** north.
(Source: GML, 2020)

Description:



Figure 5.42 TU 240, representative of **Zone 11 East** south.
(Source: GML, 2020)

Description:



Figure 5.52 Quartz from Zone 11 East, TU 229, comprising of (left to right) two complete flakes, a distal flake, a medial flake, and a flaked piece. (Source: GML 2021)

Description:



Figure 5.41 TU 235, representative of Zone 11 East creek. (Source: GML, 2020)

Description:

Section 3

Site restrictions

Do you want to

Restrict this site?:

Restriction type:

Gender

General

Location

Why is this site restricted?:

Further information contact

Title

Surname

First name

Ms.

Morris

Hannah

Organisation:

Inland Rail

Address:

180 Ann Street, Brisbane, Qld

Phone:

0452334339

E-mail:

hmmorris@inlandrail.com.au

Site interpretation and community statement

The physical size of the artefacts is reflective of later stages of raw material reduction, although no artefacts were able to be refit. The small assemblage size also precludes interferences regarding targeted flake size selection. Overall, the scatter of artefacts in this assemblage are indicative of a low density background scatter suggestive of a low intensity use of this part of this area by Aboriginal people, rather than a dedicated occupation zone.

Aboriginal Site Impact Recording Form

Manager, Information Systems
Heritage NSW, Locked Bag 5020 NSW 2124

- 1 This form must be completed following impacts to AHIMS sites that are:
 - a) a result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW*
 - b) authorised by an Aboriginal Heritage Impact Permit (AHIP) issued by the Department Climate Change, Energy, the Environment and Water (DCCEEW)
 - c) undertaken for the purpose of complying with the Secretary's Requirements issued by the Department Climate Change, Energy, the Environment and Water for:
 - State Significant Development (SSD - Part 4),
 - State Significant Infrastructure (SSI - Part 5.1), or
 - A Major Project (Part 3A - now repealed) under the *Environmental Planning and Assessment Act 1979 (EP&A Act)*, or
 - d) authorised by a SSD/SSI/Part 3A consent/approval under the EP&A Act.
- 2 This form is intended to complement (not replace) the AHIMS Site Recording Form. Where there is a need to provide detailed information about the nature of a site, use the AHIMS Site Recording Form.
- 3 This form does not replace the need to submit reports to DCCEEW (as a condition of an AHIP or SSD/SSI/Part 3A consent/approval) This form must be submitted in addition to any reports.

AHIMS site ID:

Date recorded:

Site impact authorisation (select one)	Reference numbers, dates
☐ Archaeological Code (The impacts to this site were the result of test excavation carried out in accordance with the <i>Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW</i> .)	Date DCCEEW was notified (under requirement 15c of the Code): DCCEEW Regional office notified:
☐ AHIP (The impacts to this site were authorised by an AHIP.)	AHIP number: Date issued/signed: AHIMS permit ID/number:
☐ SSD/SSI/Part 3A application (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I)	Project number: SSI - 94 Date of the Secretary's Requirements issued: 06-09-2024
☒ SSD/SSI/Part 3A approved project (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)	or Date of project approval: 06-09-2024

Site status following impacts:

- ☐ Not a site (The investigations concluded that this is not a site.)
- ☐ Valid site (The investigations confirmed that this is an Aboriginal site.)
- ☐ Partially destroyed (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)
- ☒ Destroyed (The site was completely destroyed following authorised impacts.)

Site Location Information:

Site name:

Easting: Northing: Coordinates must be in GDA94 (MGA)

Horizontal Accuracy (m):

Zone: Location method:

Recorder Information:

(The person responsible for the completion and submission of this form)

Title Surname First name

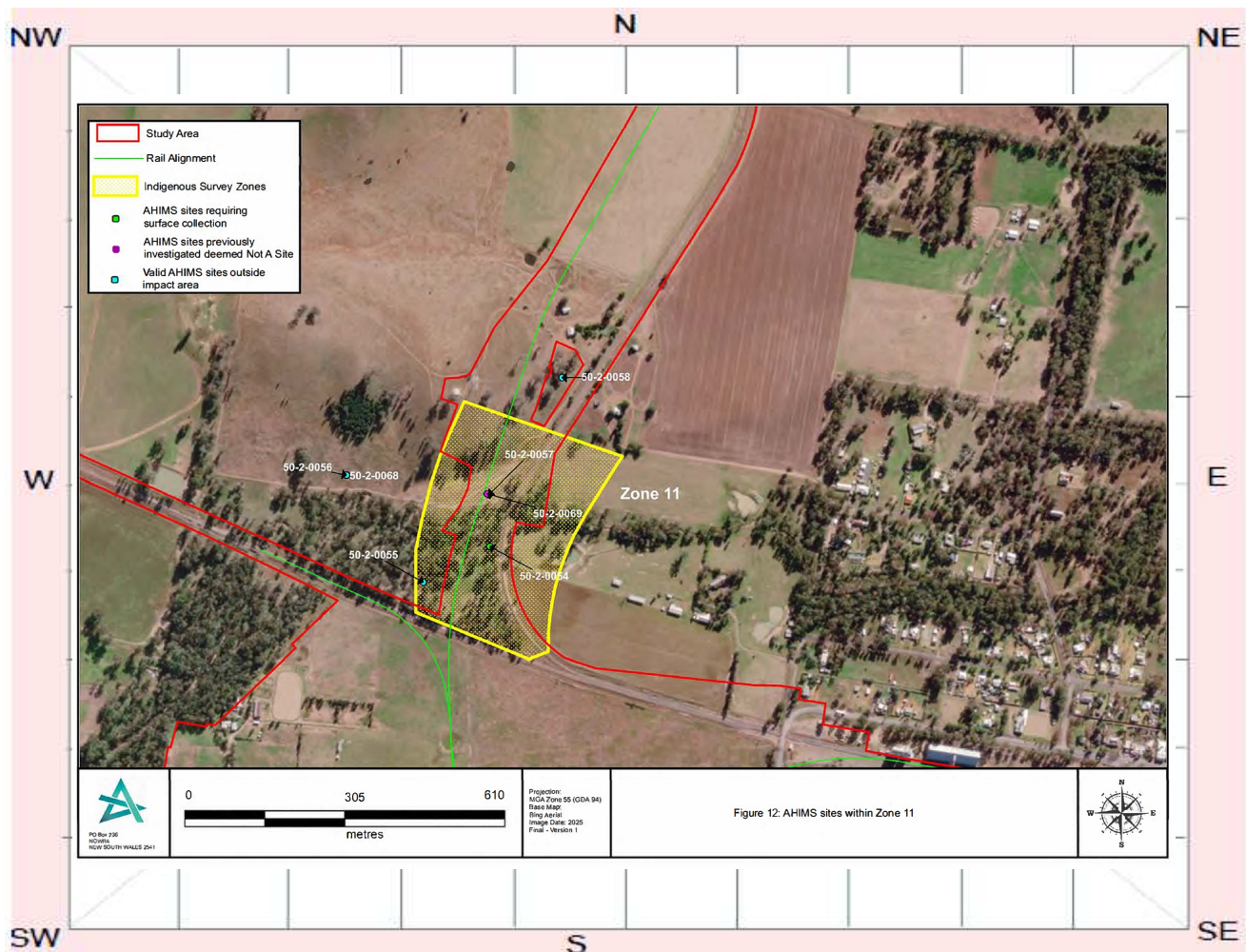
Organisation:

Address:

Phone: E-mail:

Location map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



Features:

Feature condition:

Disturbed

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

1.

Artefact

1

1

1

Description:

Single large partly used yellowy-brown chert core, approx. 8cm in length.

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Features:

Feature condition:

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

2.

Description:

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Features:

Feature condition:

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

3.

Description:

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Features:

Feature condition:

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

4.

Description:

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Features:

Feature condition:

5.

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

Description:

Other Site Info:

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
Scar shape			Tree Species

Methodology and results

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

Surface collection of site to mitigate impacts from proposed development. Site was collected in June 2025 by Archaeologists Leigh Bate and Peta Rice, with assistance from Norma Freeman from Young LALC and Darryl Charles from Wagga LALC

Management recommendations

Summary of any management recommendations for the AHIMS site

Current works fulfil the requirements of the Conditions of Approval for SSI-94. No further archaeological work is required within the CIZ for the project. Any works outside of the CIZ may require further assessment and mitigation.

Post-investigation significance

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

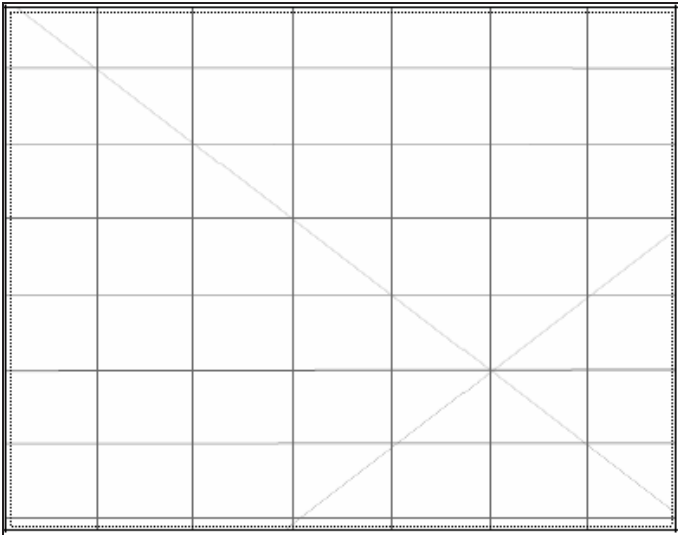
Additional comments

Site photographs

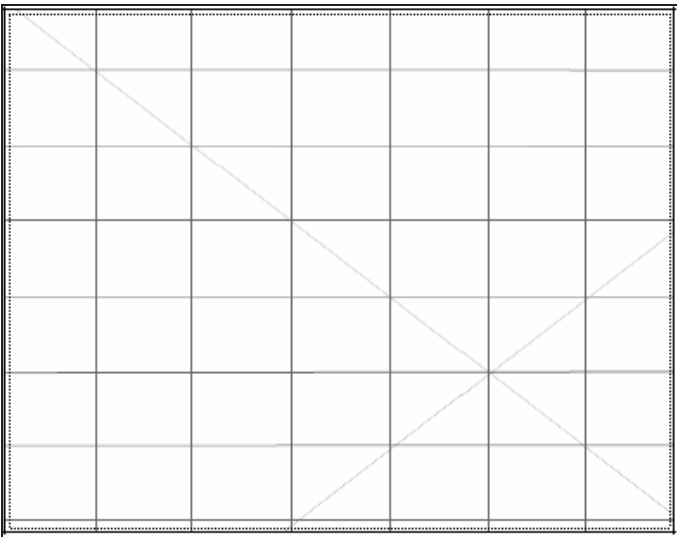
Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



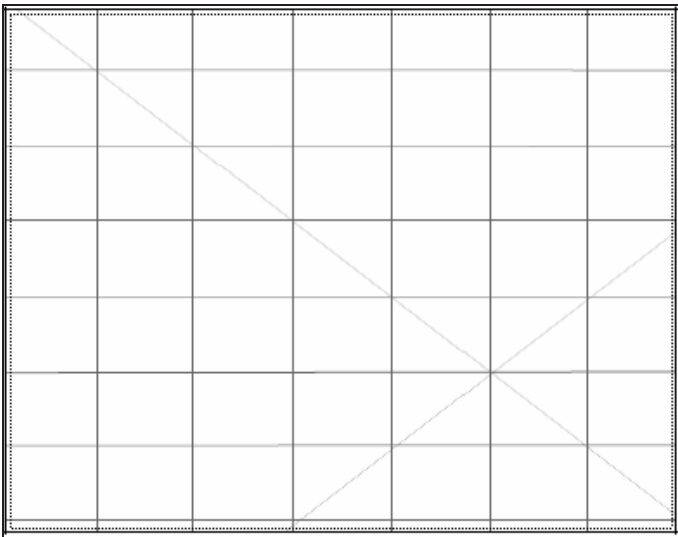
Description: 50-2-0054



Description:



Description:



Description:

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 50-2-0054

Date recorded: 14-01-2021

Site Location Information

Site name: Burley Griffin Way Stockinbingal Artefacts 1

Easting: 579586 Northing: 6182453 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 5

Zone: 55 Location method: Non-Differential GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name
Ms. Tooby Lara

Organisation: GML Heritage

Address: Level 6, 372 Elizabeth St, Surry Hillys, NSW 2010 Australia

Phone: 0416094225 E-mail: larat@gml.com.au

Site Context Information

Land Form Pattern: Undulating Plain Land Use: Farming Low Intensity

Land Form Unit: Flat Vegetation: Open Woodland

Distance to Water (m): 20 Primary Report:

How to get to the site: Private property; permission needed from landholder. Recorded as part of the Inland Rail project.

Other site information:

Site location map



Site contents information

open/closed site:

Site condition:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
1. Artefact	1	1	1

Description:

Single large partly used yellowy-brown chert core, approx. 8cm in length. core.

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
2.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Features:

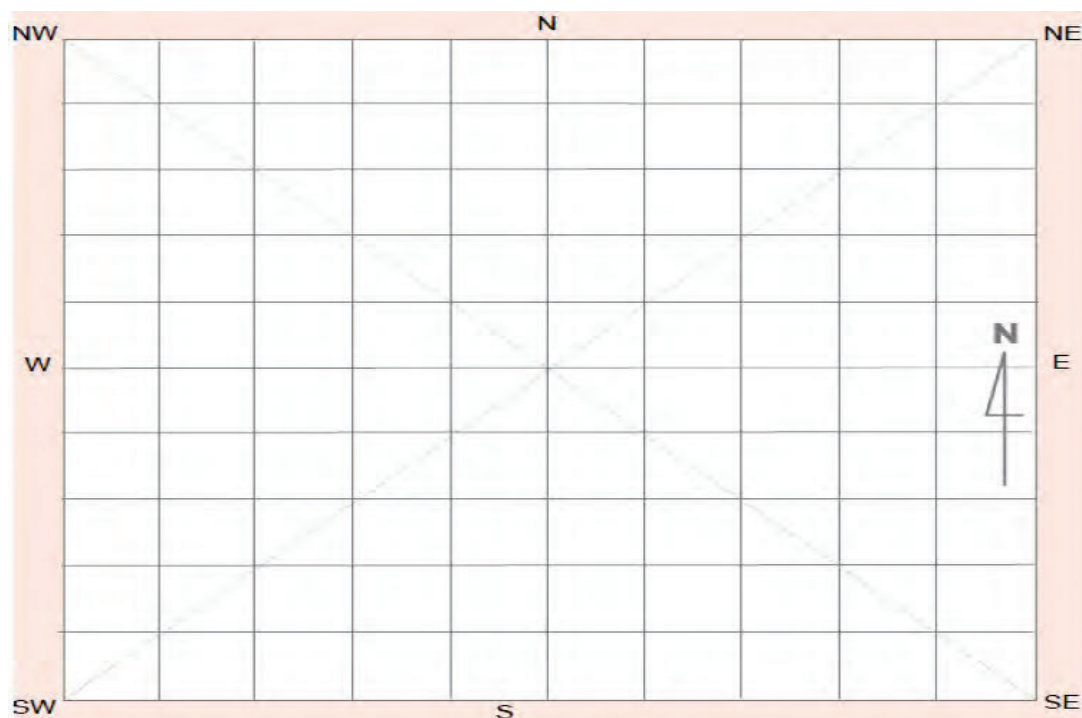
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.			

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species

Other Site Info:

Site plan

Site photographs



Description:

Description:

Description:

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type:

Why is this site restricted?:

Further information contact

Title	Surname	First name

Organisation:

Address:

Phone: E-mail:

Appendix C Noise Assessment

Existing Environment

Stockinbingal is situated at the northern end of the Project, approximately 20 km north-west of Cootamundra in the Cootamundra–Gundagai Regional LGA. The major towns surrounding the Project are Wagga Wagga, about 50 km to the south, Young to the north-east and Cootamundra to the east. The existing noise environment is typical of a rural landscape, zoned as Primary Production (RU1). Land within Stockinbingal and Illabo are zoned as Village (RU5), Public Recreation (RE1), Large Lot Residential (R5). Most of the Project site is sparsely settled and experiences little road traffic noise generally leading to low background noise levels.

Burley Griffin Way, Olympic Highway, and the existing rail lines are the primary noise sources within the Project site which are zoned as Infrastructure (SP2), however, traffic along these roads is typically of low volume and does not significantly impact the background noise levels of the surrounding environment. The most significant existing sources of vibration along the Proposal site include those generated by traffic on the local road network and existing rail operations at Illabo and Stockinbingal. Although not measured directly, vibration from existing road and rail sources would be below the structural damage and human comfort criteria for all vibration-sensitive receivers.

217 sensitive receivers have been identified through aerial-imagery combined with the Geocoded National Address File (G-NAF) within 2.6 kilometre of the Project area, with most being in Stockinbingal. Receivers generally consist of low-density residential areas, predominantly in the form of single storey residential dwellings. Residential receivers outside of Stockinbingal are typically isolated rural residential dwellings in open farmland.

Noise catchment areas (NCA) on the Project are provided in Table below. The NCA relevant to the Proposed Changes are in bold text.

Table 7-1 Noise catchment area summary

NCA	CORRESPONDING NOISE MONITOR ID	DESCRIPTION
NCA01	NM1	12 scattered rural receivers from south of the Olympic Highway to Old Sydney Road.
NCA02	NM2	16 scattered rural receivers between Old Sydney Road and Dirnaseer Road.
NCA03	NM3	7 scattered rural receivers between Old Sydney Dirnaseer Road and Old Cootamundra Road
NCA04	NM6	16 scattered rural receivers between Old Cootamundra Road and Burley Griffen Way
NCA05	NM4	Stockinbingal town area – 146 sensitive receivers including residences (125), educational (1),recreational (4) and commercial (12)
NCA06	NM5	20 scattered rural receivers north of Stockinbingal township and Burley Griffen Way to the northern extent of the project.

Work hours

The work hours permitted on the Project are provided in Table 6-2 below.

Table 7-2 Permitted work hours for the Project

APPLICABLE CONSTRUCTION PERIOD	COA	APPLICABLE WORKING HOURS		
		Monday- Friday	Saturday	Sunday / Public Holiday
Standard construction hours	E1	7:00am to 6:00pm	7:00am to 6:00pm	No work
CoA E2 construction hours ¹	E2	6:00am to 6:00pm	6:00am to 6:00pm	6:00am to 6:00pm
Highly noise intensive works ²	E4	8:00am to 6:00pm	8:00am to 1:00pm	No work
Standard Blasting Hours	Nil	9.00am to 5.00pm	9.00am to 1.00pm	No Blasting

Notes:

1) In accordance with CoA E2, works can only be undertaken during these times provided:

a) no work affects any given receiver between the hours of 6:00 pm on a Saturday and 7:00 am on a Monday every second week;

b) only low impact noise activities (defined in Condition E3(b)) are permitted between 6.00 am and 7.00 am; and

c) consultation with affected receivers occurs at least every three months, or more frequently following complaints recorded in the Complaints Register required by Condition B8, to determine respite or additional mitigation measures.

In consulting with the affected receivers, the following must be provided:

(i) a progressive schedule of anticipated hours of works beyond those permitted by Condition E1 for periods of no less than three months;

(ii) a description of the anticipated construction activities, location and duration of the work;

(iii) the noise characteristics and likely noise levels of the work;

(iv) the practical measures implemented to minimise noisy work and heavy vehicle movements before 7:00am and any time on a Sunday; and

(v) mitigation and management measures which aim to achieve the relevant noise management levels identified in the documents listed under Condition A1 (including the circumstances in which respite or other offers will be available and details about how the affected receivers can access these).

Evidence of consultation and the outcomes, including any changes to construction practices or staging, must be reviewed by the ER and provided to the Planning Secretary on request.

2) CoA E4, refers to highly noise intensive works that result in an exceedance of the applicable NML at same receiver.

Must only be undertaken in continuous blocks not exceeding three hours each with a minimum respite of at least one hour between each block of highly noise intensive work. For the purpose of this condition, 'continuous' includes any period during which there is less than a one-hour respite between ceasing and recommencing any work that is the subject of this condition.

Variation to work hours

Certain activities may be justified out outside of standard construction hours for and Condition E3 provides for specific circumstances including the following.

a) Safety and Emergencies, including:

- i. For the delivery of materials required by the NSW Police Force or other authority for safety reasons; or
- ii. Where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm.

On becoming aware of the need for emergency work in accordance with (a), the ER, the Planning Secretary and the EPA must be notified of the reasons for such work. Best endeavours must be used to notify all noise

Revision No: 0

Issue Date: 29/05/2026

IRPL Document Number: 6-0019-220-EEC-00-RP-0008

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and/or vibration affected residents and owners/occupiers of properties identified sensitive land use(s) of the likely impact and duration of that work.

- b) Low impact noise activities, that meet the following criteria:
- i. Construction that causes LAeq(15 minute) noise levels:
 - No more than 5 dB(A) above the rating background level at any residence in accordance with the ICNG, and
 - No more than the 'Noise affected' NMLs specified in Table 3 of the ICNG at other sensitive land use(s); and
 - ii. Construction that causes LAFmax noise levels no more than 15 dB above the rating background level at any residence during the night period as defined in the Noise Policy for Industry. and
 - iii. Construction that causes:
 - Continuous or impulsive vibration values, measured at the most affected residence no more than the preferred values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), or
 - Intermittent vibration values measured at the most affected residence no more than the preferred values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006).
- c) By Approval or agreement, including:
- i. Where different construction hours are permitted under an EPL in force in respect of the CSSI; or
 - ii. Works which are not subject to an EPL that are approved under an Out-of-Hours Work Protocol as required by Condition E5; or
 - iii. Negotiated agreements with directly affected residents and sensitive land use(s).

On becoming aware of the need for emergency work in accordance with Condition E3(a), the ER, the Planning Secretary and the EPA must be notified of the reasons for such work. JHG will use best endeavours to notify as soon as practicable all noise and/or vibration affected sensitive land uses of the likely impact and duration of this work.

All negotiated agreements with owners and occupiers of sensitive land uses to carry out work in accordance with Condition E3(c)(iii) must be in writing, and include the hours, duration and likely noise levels compared to the NML defined in the ICNG. The negotiated agreement must be agreed and finalised before the commencement of work affecting the sensitive land uses.

Noise management levels (NML)

Table 3-4 below, which was sourced from the ICNG, shows how NMLs at residential receivers are determined and how they are to be applied. The rating background level (RBL) is used when determining the noise management level (NML). The RBL is the overall single-figure background noise level measured in each relevant assessment period (during or outside the recommended standard hours). The term and methodology to obtain RBLs is described in detail within the RNP.

Table 7-3 Noise Management Levels (NML) at residential receivers

TIME OF DAY	NML LAEQ (15MIN)	HOW TO APPLY
STANDARD HOURS: MONDAY TO SATURDAY 7AM TO 6PM COA E2 CONSTRUCTION HOURS	RBL + 10 dB(A)	The noise affected level represents the point above which there may be some community reaction to noise. Where the predicted or measured LAeq (15 min) is greater than the noise affected level, the proponent should apply all feasible and reasonable work practices to meet the noise affected level. JHG should also inform all potentially impacted residents of the nature of works to be carried out, the expected noise levels and duration, as well as contact details.
	Highly noise affected >75dB(A)	The highly noise affected level represents the point above which there may be strong community reaction to noise. Where noise is above this level, JHG would carefully consider other ways to reduce noise to below this level. If no quieter work method is feasible or reasonable and the works proceed, the proponent would provide respite periods and communicate with the impacted residents.
OUTSIDE CONSTRUCTION STANDARD HOURS	RBL +5 dB(A)	A strong justification would typically be required for works outside the recommended standard hours. JHG should apply all feasible and reasonable work practices to meet the noise affected level. Where all feasible and reasonable practices have been applied and noise is more than 5 dB above the RBL, additional noise mitigation measures should be applied

Impact Assessment

Maps showing predicted noise impacts by impact class (defined in Table 6-2 and Table 6-3) are visible in Figure 6-1 and Figure 6-2.



Figure 7-1 Map showing predicted noise impacts at the Proposed Change CH450.35-CH450.46 (Dudauman Rd)

Revision No: 0

Issue Date: 29/05/2026

IRPL Document Number: 6-0019-220-EEC-00-RP-0008

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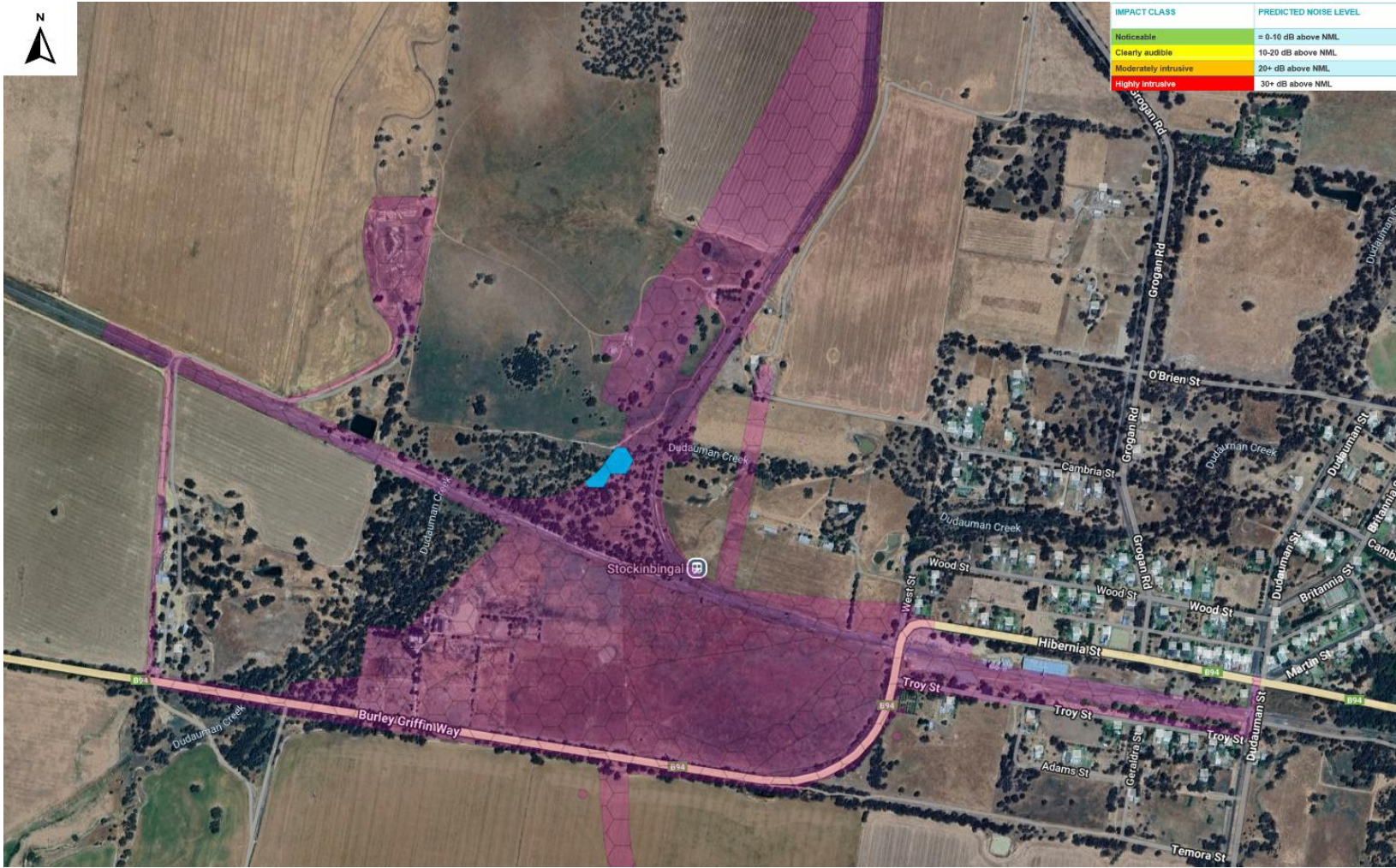


Figure 7-2 Map showing predicted noise impacts at the Proposed Change CH455.35-CH455.41 (Stockinbingal)

Revision No: 0

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Noise

Plant and equipment for the Proposed Access Points and their usage percentages are provided in Table 5-4.

Table 7-4 Proposed equipment and associated sound power levels

EQUIPMENT	QUANTITY	USAGE	REDUCTION	SWL
Auger (hand)	1	40%	0	11
Hand Tools (electric)	1	60%	0	99
Light vehicle	2	40%	5	85
Semi Trailer	1	30%	0	105
Truck (10 tonne)	1	30%	0	105

With reference to the ICNG, the number of sensitive receivers classified in each impact class for the standard hours period are summarised in Table 6-5 and Table 6-6 below:

Table 7-5 Summary of NML exceedance ranges for standard hours at the Proposed Change CH450.35-CH450.46 (Dudauman Rd)

IMPACT CLASS	PREDICTED NOISE LEVEL	PREDICTED NUMBER OF RECEIVERS
Noticeable	= 0-10 dB above NML	0
Clearly audible	10-20 dB above NML	0
Moderately intrusive	20+ dB above NML	0
Highly intrusive	> 30+dB above NML	0

Table 7-6 Summary of NML exceedance ranges for standard hours at CH455.35-CH455.41 (Stockinbingal)

IMPACT CLASS	PREDICTED NOISE LEVEL	PREDICTED NUMBER OF RECEIVERS
Noticeable	= 0-10 dB above NML	0
Clearly audible	10-20 dB above NML	0
Moderately intrusive	20+ dB above NML	0
Highly intrusive	> 30+dB above NML	0

It is noted that the works proposed as part of this CA are located within Section 5 and Section 6 of the chainages identified in the Project CEMP and Project NVMP. This location of proposed change and the associated noise levels are consistent with the daytime NML's as described in Table 8-11 (Dudauman Rd) and Table 8-14 (Stockinbingal) of the Project NVMP.



Detailed noise predictions

Detailed noise predictions are included below

Table 7-7 Above NML prediction for Proposed Access at the Proposed Changes.

Assessment: Warrens Lane					NML, LAeq, 15 minute				Predicted noise level, dBA		Exceedance summary											
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification				
												Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night	

*No impacted residents identified at both locations.

Appendix D Design Package L6 (Relevant Drawings)

Revision No: 0

Issue Date: 29/05/2026

IRPL Document Number: 6-0019-220-EEC-00-RP-0008

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