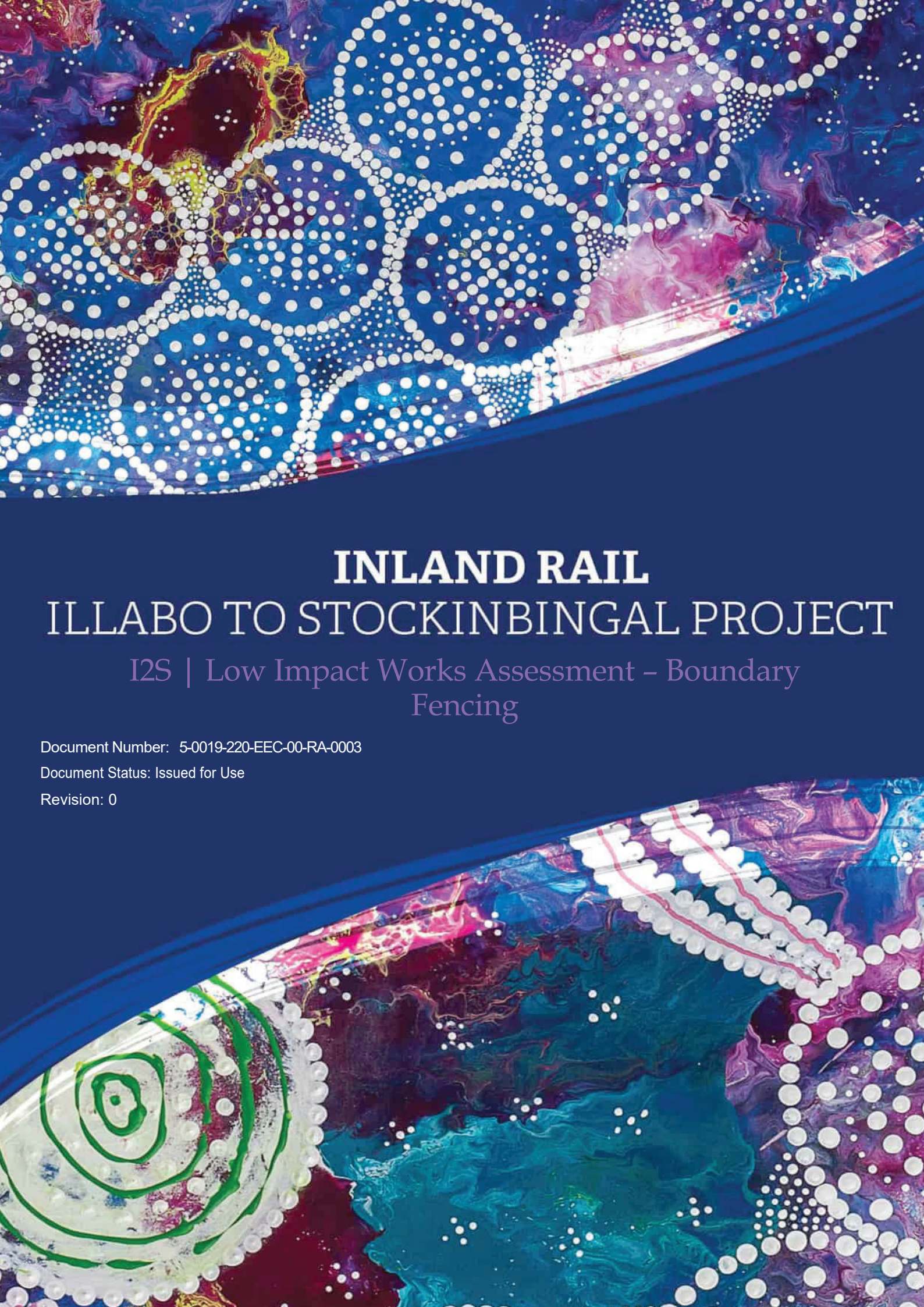




INLAND RAIL

ILLABO TO STOCKINBINGAL PROJECT

I2S | Low Impact Works Assessment – Boundary
Fencing

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Revision: 0

Document Control

Document Title	I2S Low Impact Works Assessment
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Prepared By	Tess Anastakis and Ryan Maxwell
Document Owner	Andy Robertson
APPROVED BY	
Name	Andy Robertson
Title	Environment and Sustainability Manager
Signature	Refer to Aconex Workflow dated XX/XX/XXXX
Date	

Specialist Inputs

Please note that this table will be updated as the assessments are prepared. Each assessment will also include the relevant specialist inputs directly into the reports.

APPROVALS AND PLANNING SPECIALIST	
Name	Scott Grunsell
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Company	Apical Environmental Services
Inputs provided (i.e. review, specialist advice)	Review of risk assessment process and suggested mitigation
HERITAGE SPECIALIST	
Name	Fiona Leslie
Title	Director
Company	MTS Heritage
Inputs provided (i.e. review, specialist advice)	Letter endorsement of non-ground disturbance works within Indigenous Survey Zones.
ECOLOGY SPECIALIST	
Name	Michial Sutherland
Title	Manager
Company	NGH



Inputs provided (i.e. review, specialist advice)	Biodiversity advice for low impact works
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Revision History

REVISION	DATE ISSUED	DESCRIPTION
A	01/04/2025	Issued for Review
B	21/05/2025	Issued for Review
0	26/05/2025	Issued for Use

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1 Revisions and Distribution

1.1 Revisions

Draft issues of this document are identified as Revision A, B, C etc. Following acceptance by the document approver, the first finalised revision will be Revision 0. Subsequent revisions will have an increase of “1” in the revision number (1, 2, 3 etc.).

1.2 Distribution

The controlled master version of this document is available for distribution as appropriate and maintained on the document management system being used on the project. All circulated hard copies of this document are deemed to be uncontrolled.

Client's Representative	Conrad Strachan (IRPL)
Project Director	Rob Pitt (JHG)
Rail Systems Manager	Andy Buchanan (JHG)
Quality & Completions Manager (Project Quality Representative)	Shane Aberdeen (JHG)
Environmental and Sustainability Manager	Andy Robertson (JHG)
Environmental Representative	Ricardo Prieto-Curiel (Wolfpeak)
Environmental Representative	Derek Low (Wolfpeak)
Environmental Representative	Tim Elder (Wolfpeak)

1.3 Certification

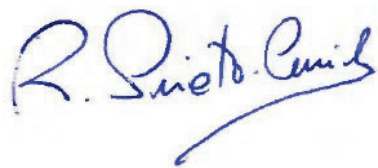
This assessment applies to the Low Impact Work (LIW) definitions checked in The proposed works are considered (tick one):

☒	Consistent with the Minister's Conditions of Approval (CoA) SSI-9406 and the definition of 'Low Impact Work' and are not defined as 'Construction'.
☐	Not consistent with the Minister's Conditions of Approval (CoA) SSI-9406 and/or defined as 'Construction'.

Environmental Representative

Note: The Environmental Representative (ER) has reviewed the Unexpected and Incidental Finds Protocol (Aconex Ref: **5-0019-220-PES-00-PR-0001**) in accordance with CoA A17 and determined it to be compliant with the relevant approvals.

ER Reviewed ☒	ER Endorsed ☒	ER Approved ☐
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Signed	
Name	Ricardo Prieto-Curiel
Name	Derek Low
Name	Tim Elder
Position	Environmental Representative
Date	27 May 2025

Comments	This endorsement verifies that the ER is satisfied that the works meet the definition of low impact works under the terms of the Approval. This endorsement does not verify that all pre-work requirements have been fulfilled.
Name	

1.4 Definitions and Abbreviations

Definitions and abbreviations to be applied to this assessment are listed below.

Table 1-1: Definitions and abbreviations

Term/Abbreviation	Definition
ACT	John Holland's Accountable Culture Tool
ARTC	Australian Rail Track Corporation
AMS	Activity Method Statement
Ancillary Facility	A temporary facility for construction of the CSSI including office and amenities compound, construction compound, material crushing and screening plant, batching plant, materials storage compound, maintenance workshop, testing laboratory, car parking facilities, a site used for assembly of infrastructure and a fixed material stockpile area.
A2P	Albury to Parkes
BC Act	<i>Biodiversity Conservation Act 2016</i>
BCS	Biodiversity, Conservation and Science Division of the Environment and Heritage Group of the NSW Department of Climate Change, Energy, the Environment and Water
BMSP	Biosecurity Management Sub-plan required under CoA Condition C25
CBMP	Construction Biodiversity Management Sub-Plan required under CoA Condition C20
CCS	Community Communication Strategy
CEMP	Construction Environmental Management Plan as defined in Conditions C12 and C13.
CH	Chainage
CMP	Construction monitoring Program
CNVMP	Construction Noise and Vibration Management Sub-plan required under CoA Condition C19
CoA	The Minister's Conditions of Approval for the CSSI
Construction	Includes work required to construct the CSSI as defined in the documents listed in Condition A1, including commissioning trials of equipment and temporary use of any part of the CSSI, but excluding low impact work which is carried out or completed prior to approval of the CEMP
Consultation	To provide information and actively engage with and obtain and consider feedback from stakeholders during development of post approval documents. How the feedback has been considered and whether any changes have been made in response to this feedback is then documented and communicated back to stakeholders. Consultation should not be limited to one-way notification about the project.
CSWMP	Construction Soil and Water Management Sub-plan required under CoA Condition C22
CNVMP	Construction Noise and Vibration Management Sub-Plan required under CoA Condition C19
CSSI	Critical State Significant Infrastructure, as generally described in Schedule 1 (of the Conditions of Approval), the carrying out of which is approved under the terms of the Conditions of Approval.
CTTAMP	Traffic, Transport and Access Management Sub Plan required under Condition CoA C21
D&C	Design and Construct

Term/Abbreviation	Definition
DEECCW	NSW Department of Climate Change, Energy, the Environment and Water
DPHI	Department of Planning, Housing and Infrastructure
DPI Agriculture	NSW Department of Primary Industry – Agriculture
Environmental Assessment Documentation	- Inland Rail – Illabo to Stockinbingal Environmental Impact Statement (ARTC 2022) - Illabo to Stockinbingal Project Response to Submissions (ARTC 2023) - Response to Submissions – Appendix E - Biodiversity Development Assessment Report version 12 (IRDJV, June 2024) - I2S – Mitigation Measures (Inland Rail, April 2024) - Illabo to Stockinbingal (SSI-9604) Additional and Appropriate Measures for Box Gum Woodland Impacts (Inland Rail, June 2024) - Technical and Approvals Consultancy Services: Illabo to Stockinbingal – Box Gum Woodland Gum Flat Rehabilitation Opportunity (IRDJV, June 2024)
EID	Environment in Design
EIS	The Environmental Impact Statement referred to in Condition A1 submitted to the Planning Secretary seeking approval to carry out the CSSI described in it, as revised if required by the Planning Secretary under the EP&A Act, and including any additional information provided by the Proponent in support of the application for approval of the CSSI
EMS	Environmental Management System
EMIS	Environmental Management Information System
Environment	Includes all aspects of the surroundings of humans, whether affecting any human as an individual or in his or her social groupings.
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPA	NSW Environment Protection Authority
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)
EPL	<i>Environment Protection Licence under the Protection of the Environment Operations Act 1997 (NSW)</i>
ER	Environmental Representative for the CSSI as approved by the Planning Secretary
ESCPs	Erosion and Sediment Control Plans
ESD	Ecologically Sustainable Development
FEMP	Flood Emergency Management Sub-plan required under CoA Condition C24
GMRs	Global Mandatory Requirements
HMP	Heritage Management Sub-plan required under CoA Condition C23
Heritage NSW	Heritage NSW, Department of Climate Change, Energy, the Environment and Water
HSE	Health, Safety and Environment
IBC	Intermediate Bulk Container
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
IMS	John Holland Integrated Management System
ISCA	Infrastructure Sustainability Council of Australia

Term/Abbreviation	Definition
ISC	Infrastructure Sustainability Council
IS	Infrastructure Sustainability
IRPL	Inland Rail Pty Ltd
I2S	Illabo to Stockinbingal
JHG	John Holland Group
km	kilometres
LAA	Land Access Agreement
LALC	Local Aboriginal Land Council
LGA	Local Government Area
LIW	Low Impact Work as defined by Table 1 of the CoA (CSSI-9406).
LIWA	Low Impact Work Assessment (i.e. this Risk Assessment document)
LLS	Local Land Services
MAF	Minor Ancillary Facility
Material Harm	is harm that: (a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial; or results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).
Non-compliance	An occurrence, set of circumstances or development that is a breach of this approval.
NSW	New South Wales
OEMP	Operational Environmental Management Plan
OSR	Old Sydney Road
OOHW	Out-of-Hours Work
OOHWP	Out-of-Hours Work Protocol
PCT	Plant Community Type
Planning Secretary	Planning Secretary of the Department (or nominee, whether nominated before or after the date on which this approval was granted).
PIRMP	Pollution Incident Response Management Plan
PDCA	Plan-Do-Check-Act
POEO Act	<i>Protection of the Environment Operations Act 1997 (NSW)</i>
RMAR	rail maintenance access road
RAPs	Registered Aboriginal Parties
Relevant Councils	Cootamundra Gundagai Regional Council; Junee Council
RTS	The Proponent's response to issues raised in submissions received during the public exhibition of the CSSI application.
ROL	Road Occupancy Licence
SEARs	Secretary's Environmental Assessment Requirements
SEMP	Site Establishment Management Plan
SAP	Site Access Point

Term/Abbreviation	Definition
SEP	Site Environmental Plan
SES	NSW State Emergency Services
SIMP	Social impact Management Plan
SMART	Specific, Measurable, Achievable, Realistic and Timely
SME	Subject Matter Expert
SQE	Safety, Quality and Environment
SuMP	Construction Sustainability Management Plan
TEC	Threatened Ecological Community
TRA	Task Risk Assessment
Total Station	Surveying tool that measures distance and angles, and is made up of a theodolite, an electronic distance metre, and a control panel.
TfNSW	Transport for NSW
The 'Blue Book'	<i>Managing Urban Stormwater – Guidelines published by Landcom, 2004</i> and used for industry best practice erosion and sediment control planning and management
UMMs	Updated Mitigation Measures
Work	Any physical work for the purpose of the CSSI including construction and low impact work but not including operational maintenance work
WRA	Workplace Risk Assessment

2 Introduction

2.1 Background

Inland Rail is an approximate 1,600 kilometres (km) freight rail network that will connect Melbourne and Brisbane via regional Victoria, New South Wales (NSW) and Queensland. Comprising 12 sections, a staged approach is being undertaken to deliver Inland Rail.

The Australian Rail Track Corporation (ARTC), with Inland Rail Pty Ltd (IRPL) as its subsidiary for the Inland Rail project, received infrastructure approval for the Illabo to Stockinbingal (I2S) section of Inland Rail in September 2024. The approval for I2S (the Project) was granted by the Minister for Planning and Public Spaces under section 5.19 of the *NSW Environmental Planning and Assessment Act 1979* (EP&A Act).

The Project is located in south-western New South Wales (NSW) in the Riverina region (Figure 1-1). Illabo is a small town of approximately 132 people (Australian Bureau of Statistics, 2021) located at the southern end of the alignment, 16 kilometres (km) north-east of Junee in the Junee Local Government Area (LGA). Stockinbingal is a town of approximately 347 people (Australian Bureau of Statistics, 2021) 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 Project comprises a new rail corridor that would connect Illabo to Stockinbingal. The alignment branches out from the existing rail line north-east of Illabo and travels north to join the Stockinbingal–Parkes Line west of Stockinbingal. The route will travel primarily through undeveloped land predominantly used for agriculture. The project includes modifications to the tie-in points at Illabo and Stockinbingal to allow for trains to safely enter and exit the Illabo to Stockinbingal section of Inland Rail. The alignment also crosses several local and private roads, watercourses and privately owned properties. Additionally, no major towns are located within the project site between Illabo and Stockinbingal.

The Project will include a total extent of approximately 42.5 km, including 39 km of new, greenfield railway which will incorporate the following key features:

- Connection to other rail lines, including Stockinbingal to Parkes line, Lake Cargelligo line, and Main Southern Railway
- One crossing loop and maintenance siding
- Level crossings and stock crossings
- Bridges over rivers and other watercourses, floodplains, and roads
- Upgrades of around 3.5km of existing track for the tie-in works to the existing Main South Line at Illabo
- New track to maintain Lake Cargelligo line connection either side of the proposal
- Realignment and road-over rail bridge for a section of the Burley Griffin Way at Stockinbingal
- Realignment of Ironbong Road to allow for safe sight lines at the new active level crossing
- Ancillary infrastructure to support the proposal, inclusive of signalling and communications, drainage, drainage control areas, signage and fencing, and services and utilities
- Construction infrastructure, including ancillary facilities, and a temporary workforce accommodation facility

The Project will also include upgrades to approximately 3 km of existing track associated with tie-in works and construction of an additional 1.7 km of new track to maintain the existing rail network connections. Road upgrade works will also be undertaken to re-align approximately 1.4 km of Burley Griffin Way to provide a road-over-rail bridge at Stockinbingal. Re-alignment of Ironbong Road will also be completed to allow for safe sight lines. A temporary workforce accommodation camp will also be constructed to house the workforce for the duration of works.

2.2 Purpose of this Report

The purpose of this Low Impact Work Assessment (LIWA) is to provide an assessment of environmental impacts for the low impact works associated with activities at specific locations along the alignment.

The LIWA provides an overview of the activities and approach that John Holland Group (JHG) will take to undertake Low Impact Works (LIW). It also includes the mitigation measures to be applied throughout the LIW.

This Assessment Report is for select activities deemed to meet the definition of low impact work under the CoA.

This report is applicable to only the activities and the locations listed in Table 4-1 of this report. This assessment includes:

- a list of proposed activities and their locations to be completed including their access routes
- the environmental risk assessments that have assessed each environmental impact associated with each proposed activity at its location, including the access to and from that location
- SEPs (Site Environmental Plans)
- outlines how John Holland Group (JHG) propose to manage LIW, related to the following aspects, during LIW associated with the I2S Project:
 - Heritage (both Aboriginal Heritage and non-Aboriginal Heritage)
 - Biodiversity and Biosecurity
 - Noise and Vibration
 - Soils
 - Erosion and Sediment Control
 - Contamination
 - Waste
 - Traffic and Transport
 - Access
 - Specialist mitigation and advice where required (i.e. in areas where specialist advice would be needed to address potential impacts).

The key objective of this LIWA is to provide an assessment of the potential risks associated with LIW, to determine if the proposed activities meet the LIW definition as provided in the Conditions of Approval (CoA) (CSSI-9406) (Table 3-3).

The relevant CoA, Revised Mitigation Measures (RMMs) and ARTC Construction Environmental Framework – A2P (Document Ref No: 0-0000-900-EEC-00-SP-0002_2) will be implemented to minimise potential environmental impacts and to inform JHG staff and subcontractors of the environmental requirements associated with LIW activities. Additionally, the Unexpected and Incidental Finds Protocol has been developed in accordance with CoA Condition A17 and will be implemented during all LIW activities for the Project. A copy of the Unexpected and Incidental Finds Protocol is available via Aconex (ref: **5-0019-220-PES-00-PR-0001**). Table 2-1 provides an overview of the conditions that need to be met prior to the commencement of LIW and how these have been complied with.

Table 2-1: Conditions required to be complied with prior to the commencement of LIW

Condition (CoA SSI-9406)	How the condition has been satisfied
A17 Prior to the commencement of low impact work, an Unexpected and Incidental Finds Protocol must be developed for: a) threatened species and threatened ecological communities; b) contamination, hazards and contaminated land; c) Aboriginal Cultural Heritage; and d) non-Aboriginal Heritage. The Unexpected and Incidental Finds Protocol must include procedures for: i) all Work in the associated location to stop to prevent further impact; and ii) notifying the Planning Secretary and relevant state agencies in writing. Work must not recommence until the relevant state agencies have been consulted and any required approvals have been obtained. The Unexpected and Incidental Finds Protocol must be made publicly available prior to low impact work commencing and must be implemented during low impact work.	An Unexpected and Incidental Finds Protocol has been developed for the project in accordance with CoA A17. The Protocol has been made publicly available. Aconex reference: 5-0019-220-PES-00-PR-0001
E94 The Proponent must consult with all landowners where the project will either temporarily or permanently impact farm operations, access to the property from public roads and/or to other parts of the property owned by the landowner to ensure that impacts to the use of properties are minimised and mitigated. This consultation must include, but not be limited to: (a) safe and convenient stock and machinery movement across the rail corridor, including provision and maintenance of livestock holding pens; (b) the safe and efficient operation of agricultural aerial activities; (c) provision and maintenance of fencing of a type suited to stock and livestock husbandry operations conducted on the property (including barrier fencing where appropriate); and (d) relocation of farm infrastructure necessitated by the CSSI. Details of consultation and agreed management measures must be included in the Individual Property Management Plans required by Condition E95. Note: Acquisition or adjustment of property and access that includes Crown land/roads must consider the relevant provisions in the Land Acquisition (Just Term Compensation) Act 1991, Crown Land Management Act 2016 and/or the Roads Act 1993.	Consultation in accordance with this CoA will be undertaken with for all relevant landowners as detailed in Section 5.
E143 An Unexpected Heritage Finds and Human Remains Procedure must be prepared to manage unexpected heritage finds in accordance with any guidelines and standards prepared by Heritage NSW and submitted to the Planning Secretary for information before the commencement of Work.	An Unexpected and Incidental Finds Protocol has been developed for the project in accordance with CoA E143. The Protocol has been made publicly available. Aconex reference: 5-0019-220-PES-00-PR-0001

Condition (CoA SSI-9406)	How the condition has been satisfied
E144 The Unexpected Heritage Finds and Human Remains Procedure, as submitted to the Planning Secretary, must be implemented for the duration of Work. Note: Human remains that are found unexpectedly during the carrying out of Work may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately	An Unexpected and Incidental Finds Protocol has been developed for the project in accordance with CoA E144. The Protocol has been made publicly available. Aconex reference: 5-0019-220-PES-00-PR-0001
E117 The Proponent must prepare and implement a Workforce Code of Conduct for employees and contractors involved in the construction of the CSSI. The Code of Conduct must be prepared by a suitably qualified and experienced person(s) in the human resources sector and made publicly available prior to work commencing. The Code of Conduct sets out the ethical standards that employees are expected to adhere to in the construction site and interaction with the local community.	The Workforce Code of Conduct has been made publicly available. The approved Workforce Code of Conduct is available via Aconex reference: 5-0019-220-PHR-00-SM-0001
B3 The Community Communication Strategy must be submitted to the Planning Secretary for approval no later than one (1) month before the commencement of any Work.	The Community Communication Strategy was approved by the Planning Secretary on the 13/11/24. Aconex reference: 6-0001-220-EEC-00-LT-0003
B12 A Community Complaints Mediator that is: a) independent of the design and construction personnel; and b) accredited under the National Mediator Accreditation System, administered by the Mediator Standards Board must be nominated by the Proponent, approved by the Planning Secretary and engaged while the Complaints Management System required by Condition B6 is in operation. The nomination of the Community Complaints Mediator must be submitted to the Planning Secretary for approval within one month before the commencement of Work.	A Community Complaints Mediator (Jack Ellis) was appointed to the project by the DPHI on 1/10/2024. Aconex reference: IR2200-DCACT-000879
A7 The Department must be notified in writing of the dates of commencement of Work (in relation to low impact works), construction and operation at least one (1) month before those dates.	Notification of commencement of LIW was issued to the Department on 4/10/24. Aconex reference: 6-0000-220-EEC-00-LT-0007
B18 A website or webpage providing information in relation to the CSSI must be established before commencement of Work and maintained for the duration of construction, and for a minimum of 24 months following the completion of construction, or unless otherwise agreed with the Planning Secretary. Up-to-date information (excluding confidential commercial information) must be published before the relevant work commencing and maintained on the website or dedicated pages including: information on the current implementation status of the CSSI;	A website has been established for the project, available at: https://inlandrail.com.au

Condition (CoA SSI-9406)	How the condition has been satisfied
a copy of the documents listed in Condition A1 of this approval, and any documentation relating to any modifications made to the CSSI or the terms of this approval; a copy of this approval in its original form, a current consolidated copy of this approval (that is, including any approved modifications to its terms), and copies of any approval granted by the Minister to a modification of the terms of this approval; a copy of each statutory approval, licence or permit required and obtained in relation to the CSSI; a current copy of each document required under the terms of this approval must be published before the commencement of any work to which they relate or before their implementation, as the case may be; and a copy of the compliance and audit reports required under this approval. A copy of each document required to be made publicly available under this approval must be published within 14 days of the finalisation or approval of the relevant document unless an alternate timeframe is prescribed by another condition of this approval. Where the information / document relates to a particular work or is required to be implemented, it must be published before the commencement of the relevant work to which they / it relates or before its implementation. All information required in this condition is to be provided on the Proponent's website, ordered in a logical sequence and be easy to navigate. Notes: <i>The intention of this condition is to increase transparency and for information/documents required as part of the approval to be provided proactively and publicly in an easily accessible manner. Where information is excepted by this condition, it is intended that these documents are provided in their redacted form.</i> <i>The Planning Secretary may instruct the Proponent to finalise and upload any report or documents to the Project's website in accordance with Condition A4.</i> <i>The publishing of documents should occur a minimum of a week before the relevant Work / activity is going to commence.</i> <i>In determining what information should be published under this condition, the proponent should have regard to the principles in Division 2 of Part 2 of the Government Information (Public Access) Act, 2009.</i> <i>Documents should be named to be consistent with the conditions of approval where possible. The name should also give an overall impression of what the document is about. The names should be simple and concise (no more than 50 characters) without any unnecessary punctuation or under scoring in the title.</i>	

Condition (CoA SSI-9406)	How the condition has been satisfied
B7 The Complaints Management System must make the following information publicly available to facilitate community enquiries and manage complaints, from one (1) month before the commencement of Work and for 12 months following the completion of construction of the CSSI: - a 24- hour telephone number for the registration of complaints and enquiries about the CSSI; - a postal address to which written complaints and enquires may be sent; - an email address to which electronic complaints and enquiries may be transmitted; and - a mediation system for complaints unable to be resolved. This information must be accessible to all in the community regardless of age, ethnicity, disability or literacy level.	Complaints Management System prepared and information under the Complaints Management System made public available in the following website: https://inlandrail.com.au/
E1 Work must be undertaken during the following hours: (a) 7:00 am to 6:00 pm Mondays to Fridays; (b) 7:00 am to 6:00 pm Saturdays; and (c) at no time on Sundays or public holidays.	Out of Hours Work may be required to be conducted for the works included in this assessment. Out of hours work may only be conducted in accordance with CoA E3.
E3 Despite Conditions E1 and E2 work may be undertaken outside the hours specified in the following circumstances: (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; or (b) Low impact noise activities, including: (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 uses; and ii) construction that causes LAFmax noise levels no more than 15 dB(A) above the rating background level at any residence during the night period as defined in the Noise Policy for Industry (EPA, 2017); and (iii) construction that causes: • continuous or impulsive vibration values, measured at the most affected residence, are 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, are no more than the preferred	LIW must comply with CoA E3 where Out of Hours Works are proposed to be undertaken outside the rail corridor (as described in the definition of 'Low impact work' in SSI-9406).

Condition (CoA SSI-9406)	How the condition has been satisfied
values for human exposure to vibration, specified in Table 2.4 of Assessing vibration: A technical guideline (DEC, 2006); or (c) By approval or agreement, including: (i) where different construction hours are permitted or required 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 uses. On becoming aware of the need for emergency work in accordance with Condition E3(a)(ii) above, the ER, the Planning Secretary and the EPA must be notified of the reasons for such work. The Proponent must 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 those 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.	
The following conditions must be met prior to Works, however, are not applicable to this assessment:	
E135 Prior to the commencement of any ground disturbance work within areas identified as requiring archaeological investigation or salvage identified in documents listed in Condition A1, the Proponent must prepare and implement an Additional Aboriginal Archaeological Survey Methodology and an Aboriginal Archaeological Test Excavation Methodology. The methodology must include procedures for additional archaeological survey of Zones 5, 6, 9 and 10, and management protocols including consultation with the Registered Aboriginal Parties, for any Aboriginal objects and sites identified during the survey.	No ground disturbing LIW included in this assessment is proposed within the Indigenous Survey Zones, including those identified as requiring archaeological investigations or salvage. Only walking and driving on existing roads or tracks will be permitted in these areas as advised in Appendix C – LIW Heritage Advice Letter. More information relating to the management of Aboriginal Heritage is provided in Section 6
E140 Ground disturbance works and construction work may not commence in those areas where archaeological excavation and surface collection of Aboriginal objects is required (including areas identified as requiring further assessment) until the archaeological works described in the Aboriginal Cultural Heritage Assessment reports listed in Condition A1 have been completed.	No ground disturbance work or Construction work will be undertaken in those areas where archaeological excavation and surface collection of Aboriginal objects is required i.e. those sites which require management in line with the ACHAR mitigation measures. This is further detailed in Section 6.
E145 Before commencement of any work, a structural engineer must undertake condition surveys of all buildings, structures, utilities and the like identified in the documents listed in Condition A1 as being at risk of damage. The results of the surveys must be documented in a Condition Survey	No buildings or structures identified in the Environmental Assessment Documentation as being at risk of damage are affected by the LIW included in this assessment.



Condition (CoA SSI-9406)	How the condition has been satisfied
Report for each item surveyed. Copies of Condition Survey Reports must be provided to the owners of the items surveyed, and no later than one month before the commencement of construction.	For DPHI correspondence on the interpretation of this condition, please see Aconex reference: IR2200-CA-000017

3 Description of the Proposed LIW Activities

This assessment is for LIW activities as part of the Illabo to Stockinbingal project “the Project” (CSSI 9406).

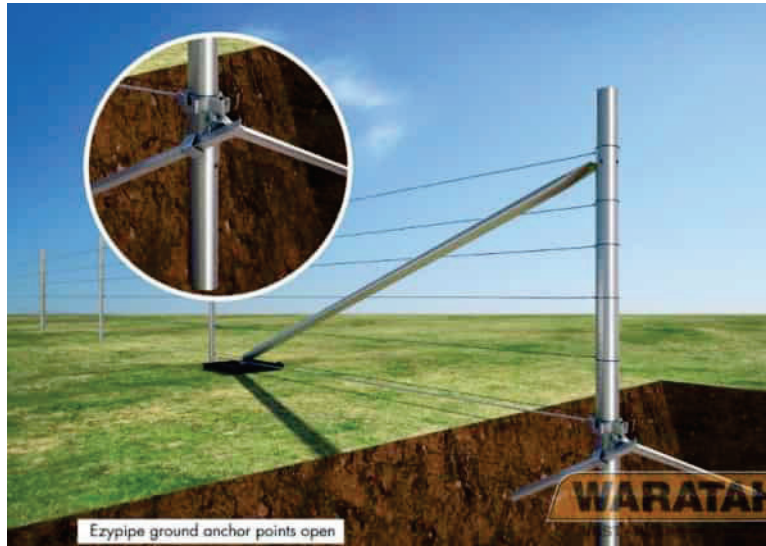
Table 3-1: Details of the proposed works

Details of Proposed Works	
Purpose of the proposed low-impact works	The purpose of the installation of fencing along the I2S Project corridor and removal of existing fencing and gates is provided as follows. • Demarcate the Project boundary for both Project personnel and community members/landowners • Ensure that no unauthorised works occur outside the Project • Prevent unauthorised access of personnel into the Project • Ensure livestock are contained and do not enter the Project. • In response to consultation/requests from landowners with regards to fencing. •
Description of the proposed low-impact works	Scope: • Removal and disposal of existing fencing and gates • 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 meter 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 (i.e. immediately before and after creek lines or gullies, long stretches of impassable vegetation, or at property boundaries) Example of a ‘MaxY’ post

Details of Proposed Works



Example of galvanised mesh netting



Example of a strainer post

Greater detail relating to fencing specifications are available via the John Holland Activity Method Statement (AMS) prepared for fencing installation, available via Aconex (reference number **5-0019-220-PRK-00-MS-0002**). The AMS provides details on:

- Fencing specifications
- Compliance with relevant Australian Standards for fencing.

In accordance with CoA E135 and E140, fencing will not be installed in areas where archaeological excavation and surface collection of Aboriginal objects is required (including areas identified as requiring further assessment) until the archaeological works described in the Aboriginal Cultural Heritage Assessment reports listed in Condition A1 have been completed. The zones identified in CoA A1 as requiring additional archaeological investigation (i.e. test, survey, salvage, surface collection) are shown in SEPs (Appendix A – Site Environmental Plans (SEPs)).

Fencing posts (such as MaxY posts, pictured above, 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. Survey pegs or star pickets may also be placed in areas containing TEC or their habitat.

Other methods agreed with the Project ecologist may be used. Areas containing TEC or their habitat are indicated in SEPs (Appendix A – Site Environmental Plans (SEPs)).

Details of Proposed Works	
	Strainer posts will be used to terminate fence lines at changes in topography, watercourses or vegetated corridors deemed impassable by the Project ecologist. These methods will avoid impacts to biodiversity values of the CSSI prior to the retirement of biodiversity credits in accordance with CoA E26. Impacts to biodiversity values and the framework for managing biodiversity impacts during LIW are defined further in Appendix F – Low Impact Work Biodiversity Advice. The boundary fencing design is provided in Appendix A – Site Environmental Plans (SEPs). Where changes to the proposed design are required, all fencing will adhere to the restraints indicated in SEPs (avoiding all vegetation prior to ecological pre-clearance, fencing around farm dams, etc). No fencing is to be installed within Indigenous Survey Zones 1-11 East prior to the relevant heritage approvals being obtained (CoA E135-E140). Approximately 40.4km of temporary boundary fencing is proposed to be installed along the I2S alignment (80.8km in total, for both sides of the alignment). Under this LIWA, approximately 26.5km (52.8km for both sides if the alignment) are proposed.
Location	Fencing will be installed at various locations/chainages across the site as detailed in the SEPs provided in Appendix A – Site Environmental Plans (SEPs). Fencing will be installed between the below chainages within the CIZ: • CH0-430 • CH1350-7665 • CH8400-11300 • CH11445-12190 • CH14275-14235 • CH18530-18440 • CH21000-22240 • CH24350-25590 • CH26890-33760 • 35040-35900 • CH36500-37700 • CH37700-42300 These areas will be subject to ecological assessment in accordance with the biodiversity advice provided in Appendix F – Low Impact Work Biodiversity Advice. No fencing is to be installed outside the CIZ or within active waterways, as indicated in SEPs (Appendix A – Site Environmental Plans (SEPs)). No fencing is to be installed within Indigenous Survey Zones 1-11 East.
Proposed plant and equipment	<u>Fence installation:</u> • Light vehicles (LVs) • Fencing trailer • Hand-held auger (post hole digger) • Concrete mixer • Power tools • Manual fence post driver • Motorised fence post driver • Hammer • Sledgehammer • Nips • Wire cutters • Pliers • Spray paint • Bunting • Flagging
Proposed dates of works:	The works proposed as part of this application are for a period commencing following the approval of this LIWA to the commencement of Construction, subject to all relevant approvals being obtained.
Will works outside of the	<i>If 'Yes', justification is to be provided, and an activity specific noise assessment is required to predict potential noise impacts and identify impacted sensitive receivers:</i>

Details of Proposed Works	
standard hours of construction be required? <i>Standard hours as specified by the relevant SSI approval.</i>	Not anticipated The approved working hours for the LIW activities included in this assessment are: - Monday to Friday: 7am to 6pm - Saturday: 7am to 6pm - Sunday and public holidays: no work Works included in this assessment are largely anticipated to be undertaken during the working hours (standard hours) specified under CoA E1. However, where OOHW are required (for works not subject to an EPL), works will be compliant with the criteria in E3(b), consistent with the definition of LIW in SSI-9406 as per the following. (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 uses; and (ii) construction that causes LAFmax noise levels no more than 15 dB(A) above the rating background level at any residence during the night period as defined in the Noise Policy for Industry (EPA, 2017); and (iii) construction that causes: - continuous or impulsive vibration values, measured at the most affected residence, are 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, are no more than the preferred values for human exposure to vibration, specified in Table 2.4 of Assessing vibration: A technical guideline (DEC, 2006); Any required OOHWs will be assessed to ensure they comply with E3(b) and any approval required for the OOHWs will be obtained prior to the OOHW activities. Noise monitoring will be conducted in response to complaints (where monitoring will assist with resolving the complaint) or during any out of hours works.

A summary of the access gates that will be utilised for the work has also been included below in Table 3-2. Any Minor Ancillary Facilities (MAFs) required for these works will be applied for in a separate application and will be subject to approval by the ER in accordance with CSSI CoA C9.

This LIWA has determined that the proposed works will not adversely impact on heritage or significantly impact biodiversity in accordance with the definition of LIW in CSSI-9406 (provided in Table 3-3).

Table 3-2: Available access gates for the proposed works

SAP ID	Location	Gate Location (CH)	Property Boundary
i	Existing Olympic Hwy LX	-700	01 - Pam McInerney & Peter Curran
XLVIII	Warrens Lane	400	01 - Pam McInerney & Peter Curran
XLIX	Old Sdney Rd	1300	2 – David & Jenny Thompson
2	Olympic Highway	2793	2 – David & Jenny Thompson 3 – Helen Dunstan
3 South	Old Sydney Rd	5600	3 – Helen Dunstan
3 North	Old Sydney Rd	5600	04 - John Green
xxxix	Ironbong Rd	8000	05 - Mal & Maria Lloyd-Jones
4	Ironbong Rd	8200	06 - Tony Lloyd-Jones
li	Eulomo Settlement Rd	8750	05 - Mal & Maria Lloyd-Jones
lii	Ironbong Rd	8750	06 - Tony Lloyd-Jones
xxxv	Ironbong Rd	8800	05 - Mal & Maria Lloyd-Jones, 06 - Tony Lloyd-Jones
xxxvi	Ironbong Rd	9700	05 - Mal & Maria Lloyd-Jones
4A	Ironbong Rd	11400	05 - Mal & Maria Lloyd-Jones ARTC (Deakin), ARTC (Gumflat)
iv	Ironbong Rd	11950	ARTC (Deakin), ARTC (Gumflat)
vii	Ironbong Rd	16000	7 – ARTC – (formerly Eric & Diane McKenzie; Yvette McKenzie)
xii South Access	Dirnaseer Rd	18450	7 – ARTC – (formerly Eric & Diane McKenzie; Yvette McKenzie)
xiii	Private Road of Dudauman Road South	19800	08 / 09 – Chris Friend 10 – David Carr (CC)
xix	Private Road of Old Cootamunda Road	24580	11 – Charlie Ryals 12 – Nigel Emery
xxi	Private Road of Old Cootamundra Road	27470	12 – Nigel Emery
6	Old Cootamundra Rd	28250	12 - Nigel Emery, 13 - Peter McClintock
LIII	Dudauman Rd North	29950	13 - Peter McClintock
7	Private Rd of Dudauman Rd North	30850	15 - Tony & Diana Hill
LI	Dudauman Rd North	31000	15 - Tony & Diana Hill
xxii	Dudauman Rd North	32150	14 - Tony & Diana Hill; Alex Hill
xxiii	Dudauman Rd North	32150	14 - Tony & Diana Hill; Alex Hill
xxx	Corbys Lane	33780	16 – Tony & Diana Hill; Alex Hill, 17 – Tim Berryman
7A	Dudauman Rd North	34950	18 – Peter Kepreotes (Tony Hill)
LII	Temora St	37200	17 – Tim Berryman
8	Burley Griffin Way (East)	37250	17 – Tim Berryman
xxvi	Burley Griffin Way (West)	37300	ARTC – Harold Park
XLV	Burley Griffin Way (East)	37500	19 – ARTC – (formerly Linx Haulage)
XLIV	Hibernia St	37550	Stockinbingal Yard
10	Hibernia St	37550	Stockinbingal Yard
XLIII	West St	37700	20 – Little & Gray

SAP ID	Location	Gate Location (CH)	Property Boundary
xxxi	West St	38200	21 – Craig Morton
11	Grogan Road	40250	21 – Craig Morton
xxix	McLaughlins Ln	40700	21 – Craig Morton
xxvii	McLaughlins Ln	40700	21 – Craig Morton
XLI	Grogan Road	40950	ARTC Corridor
XLII	Freeman's Lane	41665	ARTC Corridor

3.1 Conditions of Approval and Classification of LIW

This assessment has been developed in accordance with the Conditions of Approval (CoA) definitions of Low Impact Work, which is provided in Table 3-3. The checked boxes indicate the applicable clauses of LIW definition that is included in this assessment.

Table 3-3: LIW as defined in CSSI-9406

Ref	Description	Applicable
	The work subject to this submission meets the definition of Low Impact Work under SSI 9406 by being (where a green shaded check box is ticked, the ER shall endorse this form):	
(a)	survey works including carrying out general alignment surveys, installing survey controls (including installation of global positioning system (GPS)), installing repeater stations, carrying out surveys of existing and future utilities and building and road dilapidation surveys;	☒
(b)	Investigations including investigative drilling, contamination investigations and excavation	☐
(c)	installation of mitigation measures including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments;	☒
(d)	property acquisition adjustment work including installation of property fencing;	☒
(e)	archaeological testing under the Code of practice for archaeological investigation of Aboriginal objects in NSW (Department of Environment Climate Change and Water, 2010) or archaeological monitoring undertaken in association with Low Impact work to ensure that there is no impact on heritage items;	☐
(f)	archaeological and cultural salvage undertaken in accordance with a strategy or salvage operation required by the conditions of this approval;	☐
(g)	maintenance work to existing buildings and structures as required to facilitate the carrying out of the CSSI; and	☐
(h)	other activities determined by the ER to have minimal environmental impact which may include relocation and connection of utilities, establishment of minor ancillary facilities in accordance with Condition C9 construction of minor access roads (other than access roads' connection to the road network), temporary relocation of pedestrian paths and the provision of property access.	☐
(i)	Site establishment work approved under a Site Establishment Management Plan in accordance with Condition C5.	☐
Despite the above, the following works are not Low Impact Work:		
(i)	where heritage items, or threatened species or their habitat, or threatened ecological communities (within the meaning of the Biodiversity Conservation Act 2016), are adversely affected or potentially adversely affected by any low impact work as defined in (a) to (i) above, that work is construction, unless otherwise determined by the Planning Secretary in consultation with Heritage NSW, BCS or DPI Fisheries (in the case of impact upon fish, aquatic invertebrates or marine vegetation); and	☐

Ref	Description The work subject to this submission meets the definition of Low Impact Work under SSI 9406 by being (where a green shaded check box is ticked, the ER shall endorse this form):	Applicable
(ii)	any Work undertaken outside the hours specified in Condition E1 that exceeds noise management and vibration levels as identified in Condition E3(b)	☐
Will Low Impact Work?		
Adversely affect or potentially adversely affect Heritage Items		YES ☐ NO ☒
Adversely affect or potentially adversely affect Threatened Species (or their habitat)		YES ☐ NO ☒
Adversely affect or potentially adversely affect Threatened Ecological Communities (within the meaning of the <i>Biodiversity Conservation Act 2016</i>)		YES ☐ NO ☒
Adversely affect or potentially adversely affect matters of national significance (within the meaning of the <i>Environmental Protection and Biodiversity Conservation Act 1999</i>)		YES ☐ NO ☒
If the answer is "YES" to any of the above, then the work is Construction (unless otherwise agreed or determined by the Planning Secretary in consultation with Heritage NSW, EHG or DPI Fisheries.		

The determination of these proposed works being LIW is provided in Section 6 of this document.

3.2 Change Management

In accordance with CoA A27(b) of the Infrastructure Approval (CSSI 9406), the Project team has initially identified locations for each Low Impact Work (LIW) activity for the ER's consideration by evaluating:

- Proximity to a sensitive receiver or environment
- Environmental constraints identified within existing GIS layers of the EIS
- Subject matter expert (SME) advice
- General requirements of the EIS, CoA and associated IRPL and JHG IRPL guidelines and documents.

To comply with the CoAs and to ensure the ER is involved in the change management process, the process for managing changes for access or any other scope associated with works in this LIW will be the following:

1. If the scope of work or access is found that it will deviate from the detail or maps included in the LIWA document, The Project team will contact the JHG Environmental Representative to advise of the change.
2. The documentation to be prepared for changes in the scope must include an assessment of impacts and confirmation that the LIW change remains within the definition of LIW. The relevant documentation will be provided to the ER and IRPL over Aconex, which will require review by ARTC and endorsement or approval by the ER.

4 Workforce Notification

4.1 Induction

All personnel (including sub-contractors) will attend a compulsory site induction that includes an environmental component prior to commencement on-site. This is done to ensure all personnel involved in the Project are aware of the requirements of LIW and to ensure the implementation of mitigation measures as indicated in this assessment. The Project induction includes a summary of the following environmental factors:

- Obligations on I2S, including individual obligations under the *Protection of the Environment Operations Act 1997 (NSW)* and approvals (SSI-9406) and EPBC (2018-8233).

- Noise and vibration
- Waste management
- Biodiversity and biosecurity
- How to use and follow a Site Environmental Plan (SEP)
- Water
- Soil, erosion and sediment control
- Heritage (including Aboriginal and non-Aboriginal Heritage)
- Contamination
- Community and stakeholder management items including (but not limited to) stakeholder access requirements/protocols, biosecurity measures, contact requirements, specific roads to use/avoid, open/close gates, where animals located

4.2 Pre-Start Briefing

The details included in this application and permit will be communicated to all staff at the daily pre-start meeting.

The Construction Superintendent (or delegate) will conduct a daily pre-start meeting with the site workforce before the commencement of work each day (or shift) or where changes occur during a shift. Daily pre-start meetings are generally succinct in nature and take approximately 10-15 minutes.

Specific environmental components relevant to the location of works to be undertaken will be communicated by the relevant foreman (or delegate) and environmental personnel and will include any environmental issues that could potentially be impacted by, or impact on, the day's activities (as defined in the relevant Site Environment Plan). Further, any specific community and stakeholder items/issues relevant to the works will be discussed at the pre-start briefing.

All attendees will be required to sign on to the pre-start and acknowledge their understanding of the issues explained.

4.3 In-field Reference Materials

A copy of this application and permit will be required to be retained in the field by the Site Supervisor for reference as required.

Site Environmental Plans (SEPs) are visual figures that outline the location of protection measures, monitoring requirements, sensitive receivers and environmentally sensitive areas. SEPs are to be used in project inductions, during site set-up and as part of general work management.

SEPs identify control measures and mitigation strategies outlined in the operational control documentation such as this assessment. As more information relating to land access becomes available to JHG, SEPs may be updated to reflect the correct work method (as per the change management process in Section 3.2) and will be developed specifically for each work area.

A copy of the SEPs prepared for these works have been included in Appendix A – Site Environmental Plans (SEPs)



4.4 Training

Targeted environmental awareness training will be provided to individuals or groups of workers with a specific authority or responsibility for environmental management or those undertaking an activity with a high risk of environmental impact. John Holland will establish and maintain a register of environmental training carried out, including dates, names of persons trained and trainer details. JHG are required to complete relevant safety inductions for works within the rail corridor.

4.5 Roles and Responsibilities

An outline of responsibilities for site personnel throughout the duration of LIW is included in **Table 4-1**.

Table 4-1: Roles and responsibilities

Role	Responsibility
Environmental and Sustainability Manager	• Implementation of procedures • Liaise with specialist consultants and IRPL. • Notify regulators and relevant stakeholders as required • Complete incident investigation and reporting (where required) • Updates to scheduled activities and management plans as a result of varying on-site conditions and any changes are communicated to the Project Team • Ensures compliance on site with the project approvals, including this assessment.
Site Supervisors	• Ensure that this Assessment Report and relevant documentation are communicated to all site personnel under their management and are being fully implemented on site • Stop work as required • Ensure that any scope changes are approved by ER/IRPL prior to undertaking works. • Delineate the area • Contact Environmental Manager and Project Manager • Manage access into and out of the site
Specialist consultants – Ecologist, Archaeologist, Contaminated Land Expert, Site Auditor (Contamination)	• Indicate the required exclusion area or “no-go” zone for any nearby works • Advise on any controls that should be put in place to due to changing on-site conditions • Develop any required management plan (or equivalent) for the management of LIW • Call on other technical specialists as required to assist in any identification and management of LIW • Assist in the completion of any required notifications in consultation with the Project Environment Team • Assist in implementation of the unexpected and incidental finds procedure
ARTC / Inland Rail	• Liaise between relevant government agencies and relevant stakeholders in relation to any incidents • Provide written approval for works • Liaise between relevant government agencies for any ARTC approvals and/or with other stakeholders as required in relation to incidents/events.
Community and Stakeholder Engagement Team	• Develop and maintain open lines with the community, stakeholders, and landowners to ensure their concerns and feedback are effectively captured and addressed • Provide notifications to the community for LIWA and manage the complaints management process associated with LIWA. • Facilitate engagement activities, such as public meetings, information sessions, and consultations • Coordinate with the Project Team to integrate community feedback into project planning and decision-making processes

Role	Responsibility
	- Prepare and disseminate clear, accurate, and timely information about activities and changes to ensure transparency - Conduct consultation for written approval to use private access roads, provide notification to landowners and sensitive receivers ahead of the works and for noise consultation
Environmental Representative(s) (ER)	- Consider and recommend improvements to work practices to reduce environmental impact and enhance community well-being - Review and validate project documentation to ensure consistency with planning approvals and environmental regulations - Conduct regular site inspections to monitor compliance with environmental standards and provide on-site environmental advice to support the project team

5 Consultation

Consultation with relevant land holders is required at least 7 days before the commencement of works relating to that landholder. Landholders relating to this application will be notified of works to be undertaken on their property. The Community Notification has been provided in Appendix E—Community Notification

Complaints and enquiries will be managed in accordance with the I2S Community Communication Strategy (**4-0000-220-PCS-00-ST-0001**), which was endorsed by the ER on the 15th October, 2024.

Complaints may include any interaction with a stakeholder who expresses dissatisfaction with the project, policies, contractor's services, staff members, actions or proposed actions during the project.

All communications with stakeholders including consultation, engagement and management of complaints are captured by JH in Consultation Manager as detailed in the Community Communication Strategy (available via Aconex transmittal reference: **IR2200-CA-000024**). This includes communications relating to written approval to use private access roads and notifications to landowners and sensitive receivers relating to noise.

John Holland will attend to enquiries and complaints in a responsive and consistent manner to ensure feedback is considered and addressed in a timely and productive way. This will help ensure that the Project benefits from local input and impacts on the community are minimised wherever possible.

Community enquiries and complaints will generally be received via:

- Inland Rail's 24-hour telephone number: 1800 732 761
- Inland Rail's email: inlandrailnsw@inlandrail.com.au

The 24-hour telephone number and email address will be answered by John Holland, during business hours and Possessions, any Out of Hours phones calls not associated with possessions will be directed to a call Centre who will notify John Holland the following day. All complaints will be managed in accordance with the Community Communication Strategy. John Holland will notify Inland Rail of all content specific to the Project for investigation and response in accordance with required response time frames. The phone number and email are included on all written project communications.

All calls to 1800 732 761 are answered and responded to 24 hours a day, seven days a week

In accordance with CoA E96, JHG will also consult with all landowners where the works proposed under this LIWA will either temporarily or permanently impact farm operations, access to the property from public

roads and/or to other parts of the property owned by the landowner to ensure that impacts to the use of properties are minimised and mitigated. The consultation will include the following.

- a. safe and convenient stock and machinery movement across the rail corridor, including provision and maintenance of livestock holding pens;
- b. the safe and efficient operation of agricultural aerial activities;
- c. provision and maintenance of fencing of a type suited to stock and livestock husbandry operations conducted on the property (including barrier fencing where appropriate); and
- d. relocation of farm infrastructure necessitated by the CSSI.

Details of consultation and agreed management measures will be included in the Individual Property Management Plans required by CoA E95. As detailed in the John Holland AMS for the works (**5-0019-220-PRK-MS-0002**), the type of fencing shall be as nominated on the design drawings and Property Adjustment Plans (PAP's), as agreed in design consultation with the landowners.

5.1 Emergency Contacts

A list of key emergency services contacts is provided in Table 5-1: Emergency services contacts. Specific contacts from ARTC/IRPL and JHG will be included in each SEP for staff in the field to be able to contact the relevant parties in the event of an incident or unexpected find.

Table 5-1: Emergency services contacts

Emergency Contact	Contact Details	When to contact
Environment Protection Authority (EPA)	131 555	In the event of confirmed contamination
SafeWork NSW	131 050	In the event of confirmed contamination
RSPCA / WIRES	1300 094 737	To report injury to wildlife
Heritage NSW	(02) 9873 8500	In the event of confirmed heritage item or suspected human remains
NSW Police	(02) 6922 2599 (Wagga Wagga District Command) 000 (emergency only)	In the event of suspected human remains
DPHI Unit (Compliance)	1300 305 695	In the event of an incident
Cootamundra – Gundagai Council	1300 459 689	As required
Junee Council	(02) 6924 8100	As required

5.2 Review

This assessment will be reviewed as needed in response to circumstances where on-site conditions vary from the time of desktop assessment.

5.3 Hold Points

The following hold points have been identified in the Albury to Parkes (A2P) Construction Environmental Management Framework (CEMF) and are to be included in planning to manage risks

associated with these activities. Hold points are anticipated to be triggered by this LIW associated with general approvals are confirmed to be in place prior to commencement.

Table 7-3: Environment Hold Points from the A2P CEMF

Hold Point	Release Authority	Milestone
All Approvals required for commencement of early works or other works (as the case may be) have been obtained prior to commencing those works.	ARTC Environmental Manager or delegate	Submission of evidence to ARTC 5 days before commencing works, including a list of applicable approval requirements (including under any CoA) and a statement of how those requirements have been satisfied
Outside Hours Work Permit for proposed out of hours works	ARTC Environmental Manager or delegate	Submission of evidence to ARTC 5 days before commencing works
Relaxation of impact to sensitive receivers	ARTC Environmental Manager or delegate	Submission of evidence to ARTC 5 days before commencing works
Flora and Fauna No Go Zones assessed and protected/delineated prior to commencing any relevant works	ARTC Environmental Manager or delegate	Submission of evidence to ARTC 5 days before commencing works.
Cultural Heritage No Go Zones have been assessed, protected/delineated and (where relevant) salvaged prior to commencing any works	ARTC Environmental Manager or delegate	Submission of evidence to ARTC 5 days before commencing works.
Disturbance footprint/Construction Impact Zone to be delineated by a surveyor before works commence.	ARTC Environmental Manager or delegate	Submission of evidence to ARTC 5 days before commencing works.

5.4 Incident Reporting

If an environmental incident occurs whilst conducting LIW activities, the ARTC Environmental Event Management Process and the JH Incident Management Procedure (JH-MPR-SQE-010) is to be used to manage all incidents. In accordance with A34 and A35, the Planning Secretary must be notified via the Major Projects Website immediately after the Proponent becomes aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one) and set out the location and nature of the incident. Subsequent notification to the Planning Secretary must be given and reports submitted in accordance with the requirements set out in Appendix A of the Infrastructure Approval (CSSI 9406).

For non-compliances (in accordance with CoA A36), the Planning Secretary must be notified via the Major Projects Website within seven days after JHG becomes aware of any non-compliance. The notification must identify the CSSI (including the project number and the name of the CSSI if it has one), set out the condition/s that is non-compliant, the nature of the breach; the reason for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

All events are to be entered into the Horizon360 software for reporting and close-out.

Soteria is John Holland's Health, Safety, Environment, & Sustainability platform. Soteria is a web-based application for entry and review of events, incident Management, NCRs, infringements, investigations and action data. Incidents must also be lodged through Aconex. The Project Environment Advisor and/or appropriate delegates will immediately notify (verbally) IRPL of any incidents or non-compliances.

This includes any environmental or heritage incidents or the Unexpected Finds Protocol and associated procedures. Soteria will be regularly updated with identified corrective actions, non-compliances, proposed actions, close-out dates, and the owner of specific actions. Upon completion of proposed actions, the Project



Environment Advisor will update the register to review and ensure close out as appropriate and has been addressed in a timely manner.

5.5 Inspections

Inspections of the works will include monitoring for the implementation of environmental controls in accordance with this assessment, and performance of the controls.

The Project Environment Team will undertake inspections during LIW approximately fortnightly or as required evaluate the effectiveness of environmental controls. The inspection checklist will be used and documented using John Holland's reporting system, Soteria. Additional inspections may be undertaken by other appropriate delegates.

If any maintenance and/or deficiencies in environmental controls or in the standard of environmental performance are observed, they will be recorded in Soteria. Records will also include details of any maintenance required, the nature of the deficiency, any actions required and an implementation priority.

All inspections will be uploaded/recorded in Soteria along with any corresponding corrective action items or non-conformances.



6 Environmental Impact and Risk Assessment

This environmental impact and risk assessment considers whether the LIW for the works proposed meets the relevant conditions of approval and Revised Mitigation Measures (REMMs) from the EIS. This assessment also considers whether these CoA's and RMMs can be implemented in a compliant manner (where relevant) as part of the proposed works. Mitigation measures to be implemented on-site have been included in Table 6-1: Summary of impacts and Section 7 Mitigation Measures

For the purposes of determining whether the proposed activities meet the description of LIW, a summary for each environmental aspect has been considered below.

6.1 Risk and Impact Assessment

The following table (Table 6-1) provides a description of the risks identified based on the outcomes of the assessment. The table below provides a summary of the risks identified per aspect. The SEPs show constraints across the areas included in this assessment and mitigation measures to be applied on-site, and are included in Appendix A – Site Environmental Plans (SEPs).

Table 6-1: Summary of impacts

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
Aboriginal Heritage	No ground disturbing LIW activities included in this package were identified as being in the Indigenous Survey Zones listed in the EIS (Zones 1-11 East). Specialist heritage advice provided in Appendix C – LIW Heritage Advice Letter allows for non-ground disturbing activities (walk-through, visual observation and driving on existing vehicle tracks) to occur within Indigenous Survey Zones 1-11 East. No ground disturbance is to occur in the Indigenous Survey Zones to avoid harm to Aboriginal sites or objects prior to the management measures detailed in the Project ACHAR being implemented. These zones are identified in SEPs (see Appendix A – Site Environmental Plans (SEPs)). Driving through Indigenous Survey Zones 1-11 East is included in this assessment. Personnel will walk through these zones and drive only on existing vehicle tracks with light vehicles to validate and visually examine them, which will aid in informing the design and upcoming geotechnical activities in these zones. No ground disturbance will occur in areas of Aboriginal Heritage sensitivity prior to the relevant Heritage approvals being obtained. A summary of items sensitive with respect to Aboriginal Heritage are provided in Appendix H – Aboriginal Heritage Items, Places or Objects. The activities described in this assessment are not vibration intensive works that are liable to create ground borne vibration. The works identified in this assessment can proceed under the definition of LIW. <u>Additional mitigation measures:</u> - Indigenous Survey Zones 1-11 and any other known Aboriginal artefacts or sites (including ARTC1, 4, 8, 13, 15, 16, 17 and 20) will be physically demarcated and signposted prior to works occurring in proximity to those areas to ensure no unauthorised works or damage occur in those areas. - On-site personnel will be regularly briefed on the exact locations of Indigenous Survey Zones.	YES Works will be undertaken in accordance with the following conditions and REMMs. - Conditions A17 - Condition E127 & E128 - Condition E143 & E144 - AH1 - AH7 - AH11 - Condition E130 - Condition E135 - Condition E140 - Condition E142

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
Non-Aboriginal Heritage	- All site personnel will be inducted to the Project before the commencement of work activities. The project induction includes a visual depiction of sensitive Aboriginal Heritage areas (including Indigenous Survey Zones 1-11 East and other Aboriginal Heritage items) along the alignment, and their restrictions. - Indigenous Survey Zones 1-11 East are indicated on SEPs. Hard copies are available on-site and provided to all JHG site personnel via email. - The Unexpected and Incidental Finds Procedures for Heritage are available on site, at each MAF and provided to all JHG site personnel via email. - Consultation with Heritage NSW and relevant local council will occur as required to ensure impact to Aboriginal Heritage items are avoided and mitigated. No consultation is expected to be required for this portion of LIW. Consultation requirements would be undertaken in line with the conditions of approval and the Unexpected and Incidental Finds Protocol and Procedure(s). - Site personnel will have access to geospatial data indicating areas of Aboriginal Heritage (Indigenous Survey Zones 1-11 East, plus a 25m buffer zone on each border) available whilst moving across the alignment. <u>Heritage listed items:</u> Two non-Aboriginal heritage listed items have been identified within the proposal site: - the Stockinbingal Railway Station - Stockinbingal Heritage Conservation Area (heritage conservation area). Both are listed with 'local' significance under the Cootamundra LEP. The fencing works proposed by this LIWA are >100m away from these heritage items and therefore will not be impacted. Two non-Aboriginal heritage items have been identified during the EIS phase as holding potential heritage significance: - Billabong Creek Rail Underbridge – approximately 70m from the proposed fence works. - Historic sawmill site – location between 11600 and 11700 with unknown heritage significance, approximately 40m from the proposed fence works. No impact is expected to occur to non-Aboriginal heritage listed items during this portion of LIW. No equipment used for this portion of work is likely to generate significant ground-borne vibration that will damage structures of non-Aboriginal Heritage. Although not anticipated, if vibration intensive plant/equipment are used, it will be outside the minimum working distances of buildings in accordance with Construction Noise and Vibration Guideline – Public Transport Infrastructure. Where vibration intensive works are within the minimum working distances, attended vibration monitoring will be undertaken confirm that vibration levels are within the acceptable range to prevent cosmetic building damage. Vibration monitoring is therefore not likely to be required during LIW. Potential impacts to non-Aboriginal heritage items may include: - potential for vibration impacts close the proposal site as a result of construction works and the movement of plant, vehicles and machinery	YES Works will be undertaken in accordance with the following conditions and REMMs. - NAH1 - NAH2 - NAH4 - Conditions A17 - Condition E127 & E128 - Conditions E143 and E144

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	- accidental damage because of the movement of machinery and equipment. - changes to the visual landscape, noise and vibration Impacts to non-Aboriginal Heritage are not expected to occur as a result of the works included in this application, as the works do not require vibration generating equipment. Items of non-Aboriginal Heritage are indicated as no-go zones in the LIW induction, and as such, are unlikely to face accidental damage due to plant movements. <u>Additional mitigation measures:</u> - Non-Aboriginal heritage sites will be clearly defined as exclusion zones in SEPs, with appropriate barriers such as bollards and hazard tape where required to ensure their preservation and to mitigate the risk of inadvertent damage. - The project teams will be updated on the exact locations of these heritage-sensitive areas and the importance of complying with restrictions via toolboxes, pre-starts, SEPs, and the LIW induction. - Regular checks and documentation procedures will be established to monitor the integrity and adherence to No-Go zone restrictions. - Consultation with Heritage NSW and relevant local council will occur as required to ensure impact to non-Aboriginal heritage assets are avoided and mitigated. No consultation is expected to be required for this portion of LIW due to the low-risk nature of the works. Consultation requirements would be undertaken in line with the conditions of approval and the Unexpected and Incidental Finds Protocol and Procedure(s). - Where vibration intensive works are undertaken within minimum working distances of structures, including heritage structures, attended vibration monitoring will be undertaken to confirm that vibration levels are within the acceptable range to prevent cosmetic building damage. Consultation with a noise and vibration consultant will be undertaken for any vibration monitoring required.	
Biodiversity and Biosecurity	The Project site is predominantly Category 1 Land (exempt land where native vegetation can be cleared without approval from Local Land Services, low conservation grasslands or land containing only low conservation groundcover (not being grasslands)) and has been heavily fragmented and disturbed due to ongoing agricultural practices, with existing habitat connectivity to remnant vegetation to the east and west limited to creek lines and road reserves. LIW will be undertaken in a manner to avoid areas with known biodiversity values or their accompanying habitat. This measure has been precursor to the assessment of other environmental factors to eliminate avoidable direct and indirect impacts to biodiversity. Ecologist pre-clearance of fence lines will be undertaken prior to work commencement in areas requiring it (including lands not ecologically surveyed), as per biodiversity advice provided in Appendix F – Low Impact Work Biodiversity Advice. This will ensure that no impacts to the biodiversity values of the CSSI will occur prior to the retirement of biodiversity credits. Ecologist pre-clearance forms will be provided to the ER and IRPL at appropriate intervals.	YES Works will be undertaken in accordance with the following conditions and REMMs. - Condition C9 - Condition E27 - BD-4 - BD-5 - BD-6

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	Any additional mitigation measures imposed by Land Access Agreements (LAA) and Individual Property Management Plans for LIW will be included as mitigation measures as they become available to JHG. Crossing property boundaries within the alignment and to access the alignment have been avoided to the maximum extent practicable. Property boundaries have been included in the SEPs where applicable (Appendix A – Site Environmental Plans (SEPs)). <u>Additional mitigation measures:</u> • Bollards and bunting will be used where required to delineate the approved works area from no-ground disturbance zones. • On-site personnel will receive an induction on biodiversity and biosecurity which includes; • A list of TEC's and their habitat, • Instructions for no-go and no-ground disturbance areas, • What to do in the case of an unexpected find. • TEC zones are indicated on SEPs. Hard copies are available in site Utes and provided to all JHG site personnel via email. SEPs are provided in Appendix A – Site Environmental Plans (SEPs). • Lands not surveyed are included in SEPs. • The Unexpected and Incidental Finds Procedures for biodiversity are available in site Utes and provided to all JHG site personnel via email. • A biosecurity fact sheet is provided in site Utes. • Biosecurity risk will be mitigated through the implementation of a Cleanliness Declaration Checklist. The checklist will be completed when making between-property movements as part of conducting the activities included in this assessment. This checklist ensures that prior to making between-property movements, vehicles and personnel footwear are visually inspected and free of organic material. Vehicles will be required to be brush down if required to remove any organic material. • Personnel footwear and vehicles will then be disinfected with disinfectant prior to moving to the next property. The checklist remains valid as long as the vehicle/equipment/personnel stay within the designated work area (the CIZ footprint) and have not crossed a property boundary or other designated boundary.	

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	- Site personnel will have access to geospatial data indicating areas containing TECs or their habitat available whilst moving across the alignment. - Covers will be placed on top of open excavations if they are to remain open overnight to prevent fauna entrapment.	
Noise and Vibration	Due to the nature of the proposed LIW in this assessment daily noise and vibration impacts are expected to be negligible. No OOHW are anticipated for the activities outlined in this assessment. Where out of hours works are required, they must be conducted in accordance with CoA E3 as per the definition of 'Low impact work'. A noise assessment has been prepared for all activities included in this assessment (Appendix B – Noise Assessment). Noise modelling was undertaken using a 'worst case scenario' approach to determine noise impacts at the closest receiver to the works during standard hours. Table 6-2 below provides a summary of the dBA exceedances (if any) of the NML for the installation of boundary fencing at the closest residential receivers to the works. More detail is presented in Appendix B – Noise Assessment. Any out of hours works will be applied for separately via permit. Results of standard hours noise modelling show a <75 LA_{eq15minute} at the closest receiver to the works and therefore receivers are not considered to be highly noise affected in accordance with the Construction Noise and Vibration Guideline – Public Transport Infrastructure. It's also noted that this is worse-case scenario as many receivers are located a considerable distance from the LIW, and therefore noise impacts will be lower for those receivers. RMMs and CoAs will be applied to the LIW for these works, including project notification and verification monitoring in response to complaints where it may assist with issue resolution. No LIW access routes included in this package were identified as being in the highly affected dBA range at the closest sensitive receiver. Noise impacts from access routes will be temporary in nature, due to the intermittent nature of access/egress.	YES Works will be undertaken in accordance with the following conditions and REMMs - Condition C7 - Condition C8 - Condition C9 - Condition E2 (c) - Condition E3 - Condition E6 and E7 - NV8 - E1 - E2 - Condition C8

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS																							
	Additional mitigation measures: Table 6-2 Noise management levels for sensitive receivers <table><tr><th>Timing</th><th>RBL (dBA)¹</th><th>NML (dBA)</th><th>Highly noise affected level (dBA)</th></tr><tr><td>Standard hours</td><td>35</td><td>45</td><td>75</td></tr><tr><td>Out of hours—Day</td><td>35</td><td>40</td><td>N/A</td></tr><tr><td>Out of hours—Evening</td><td>30</td><td>35</td><td>N/A</td></tr><tr><td>Out of hours—Night</td><td>30</td><td>35</td><td>N/A</td></tr></table> ^{1.} Background levels are below the minimum assumed rating background noise levels at all measurement locations along the proposal site; as such, they have been adjusted to 35dBA during the day period, and 30dBA during the evening and night periods. As a minimum, all affected stakeholders including sensitive receivers and relevant road and government authorities (where applicable) will be notified of the works to be undertaken in or around their properties and/or assets at least 7 days prior to works commencement in accordance with the Community Communication Strategy (CCS). Generally, affected stakeholders will be notified of; • A diagram that identifies the location of the proposed works in relation to nearby cross streets and local landmarks • The nature, scope and duration of the works, including start and finish times • Changes to traffic conditions, where applicable • The expected noise impacts on receivers • Information on how to obtain further information or make a complaint, including an after-hours number • and Inland Rail Program website. All engagement with stakeholders will be recorded in Consultation Manager as per the requirements under the CCS. The recommended mitigation as per the ARTC NSW Construction Noise and Vibration Framework Is provided below and will be implemented for this portion of work where reasonable and feasible. <table><tr><th>Mitigation measures</th></tr><tr><td>Using portable temporary acoustic screens where effective to screen the noise emissions.</td></tr><tr><td>Avoid the simultaneous operation of noisy plant within discernible range of noise sensitive receivers where possible.</td></tr></table>	Timing	RBL (dBA) ¹	NML (dBA)	Highly noise affected level (dBA)	Standard hours	35	45	75	Out of hours—Day	35	40	N/A	Out of hours—Evening	30	35	N/A	Out of hours—Night	30	35	N/A	Mitigation measures	Using portable temporary acoustic screens where effective to screen the noise emissions.	Avoid the simultaneous operation of noisy plant within discernible range of noise sensitive receivers where possible.	
Timing	RBL (dBA) ¹	NML (dBA)	Highly noise affected level (dBA)																						
Standard hours	35	45	75																						
Out of hours—Day	35	40	N/A																						
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Avoid the simultaneous operation of noisy plant within discernible range of noise sensitive receivers where possible.																									

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	Where available, equipment selection will favour the use of quieter and less vibration emitting construction methods. Using noise source controls, such as the use of residential class mufflers, to reduce noise from all plant and equipment including bulldozers, cranes, graders, excavators and trucks Static plant should be located as far as possible from sensitive receivers, be located to take advantage of natural acoustic screening such as terrain, site buildings, etc and where necessary for reduction of noise impacts, provided with an acoustic enclosure. A telephone, email and web-based community information service shall be established to allow the community to obtain additional information on construction activities, provide feedback or make a complaint. Regular communications on the activities and progress of the proposal shall be provided to the community (e.g. via newsletter, email and/or website). Noise or vibration monitoring in response to complaints shall be undertaken where the results or the process assist in resolving or understanding the receiver's issue. Where vibration levels are predicted to approach the criteria for cosmetic building damage or limits for critical or sensitive areas, attended vibration measurements shall be undertaken at the commencement of vibration generating activities to confirm that vibration limits are within the acceptable range. A respite period shall be provided for receivers impacted by weekend work (see Definitions). The respite period will ensure that no single receiver is impacted for two consecutive periods of weekend work. Respite will be provided every second weekend commencing at 1pm on Saturday and concluding at 7am on Monday. Additionally, Project inductions and pre-starts will include that; • Non-tonal reversing alarms must be fitted and used on all construction vehicles and mobile plant. • Quieter and less noise emitting construction methods should be used whenever possible. • Avoid shouting and slamming doors to minimise unnecessary noise. • All vehicles accessing the project site must comply with local speed restrictions. • Plant equipment engines should be turned off when not in use to reduce potential noise impacts on surrounding stakeholders. Based on the assessment of noise impacts, these works can be undertaken as low impact works. Noise monitoring equipment will be carried in site vehicles in case of monitoring required to be undertaken in response to complaints or during OOHW.	

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
Soils (ERSED)	Excavation during these LIW will be minimal which may result in a small number of temporary stockpiles. Stockpile sites may be required to store material. Stockpiles are to be managed in accordance with the 'Blue Book' (Landcom 2004) as well as Condition C9 of the CoA. The risk of soil erosion is deemed low. Mitigation measures included in this LIW Assessment will be sufficient in mitigating the potential impacts associated with soil and ERSED management. <u>Additional mitigation measures:</u> • Appropriate sediment and erosion control devices are to be installed on site to minimise transport of sediment for geotechnical works. Indicative control measures to be used as appropriate are outlined the SEPs. In addition, sediment/erosion controls such as the installation of coir logs, sediment fencing and the application of geofabric will be installed where required (near drains, waterways and high slope angles). • Erosion and sediment control measures would be maintained and left in place until the works are complete and areas are stabilised. • Reinstatement of voids will be completed to ensure stable landform consistent with the surrounding environment. • All temporary stockpiles will be covered with geofabric or plastic sheeting to prevent wind and water erosion (where wind and water erosion is anticipated). Stockpiles will be removed from site as soon as possible to reduce potential erosion and sediment control risks. • The volume of excavated material to be removed from site will be minimised by maximising reuse of excavated material where possible and practical. • All erosion and sediment control measures are to be inspected, and any damage would be rectified. Control measures are required to be inspected regularly during and after rainfall events to ensure their effectiveness over the duration of the works. • Sediment would be cleared from behind barriers/sand bags/filtration devices on a regular basis and all controls would be managed to ensure they always work effectively.	YES Works will be undertaken in accordance with the following conditions and REMMs - Condition C9 - Condition E150 - SC9
Contamination	Site investigations undertaken as part of the Environmental Assessment for I2S identified a number of areas requiring further investigation and potential remediation (i.e. AECs). Works included in this LIWA are at low risk of mobilising contaminants. In the event contaminated land or material is encountered, it will be managed in accordance with the Unexpected and Incidental Finds Protocol and mitigation measures specific for working in and around each AEC.	YES Works will be undertaken in accordance with the following conditions and REMMs - Condition A17

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	Some works within this LIWA are within AEC. These areas are indicated in SEPs. Soil contamination could occur as a result of any accidental spills or leaks of fuels, oils and other chemicals from equipment and vehicles during construction. The REMMS relevant to this LIW assessment are sufficient in managing potential contamination risks associated with the works. <u>Additional mitigation measures:</u> • Vehicles are to drive on established pathways and farm tracks as much as reasonably practicable. • AECs indicated on SEPs with their appropriate mitigation measures, where applicable to the works. • Works in proximity to AECs must be undertaken in accordance with the appropriate mitigation measures determined by a contamination specialist and endorsed by the Site Auditor. The proximity around each AEC that is required will also be agreed with the Site Auditor to confirm the extent of locations where mitigation measures are required (above and beyond the current measure of undertaking works under the Unexpected and Incidental Finds Protocol). • Driving over AECs are of low risk at mobilising contaminants as no contamination is expected to be present at the surface. • Contamination encountered will be managed in accordance with the Unexpected and Incidental Finds Protocol for Contamination. • Spill kits (50L) will be stored in site vehicles and their nominated locations indicated on SEPs. • Site personnel will be made aware of AECs via SEPs. • All refuelling operations (if any are required) will occur >50m from a waterway, ephemeral watercourse or wetland. All refuelling activities will be undertaken in either a bunded area or with a drip tray.	- Condition E159 - Condition E161
Waste	Waste streams in high volumes are not expected to be generated from the LIW activities in this assessment. All excavations will be backfilled into the hole. All excess materials will be removed offsite. Waste generated may include: • Hard plastic • Soft plastic • Organic/food waste • Paper/cardboard • Vegetative waste (as a result of vehicle wheel cleaning and boot brush) • Concrete • General Solid Waste (GSW) and spoil (excavated material)	YES Works will be undertaken in accordance with the following conditions and REMMs - WM3 - Condition C9 - Condition E165 - Condition E163

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	- Steel/metal <u>Additional mitigation measures:</u> - All spoil generated as a result of the excavations will be backfilled into the excavations. Any excess spoil will be disposed of offsite. - All waste being disposed of offsite must be classified in accordance with the NSW Waste Classification Guidelines. Waste will be disposed of at a facility licensed to accept the waste type. - Plastic bags will be in place in site vehicles to ensure that any waste produced by the team remains in the site vehicles and is contained. - Drilling mud and fluid as a result of the excavations will be stored in an Intermediate Bulk Container (IBC) or other suitable receptacle until its offsite disposal at a facility licensed to accept the waste. IBC tanks will be either banded or overlaid with geofabric (or other protective material) and surrounded with sandbags where immediate disposal offsite is not available. - All waste will be recycled where possible. - Waste generation will be avoided where possible, and where avoidance is not reasonably practicable, waste generation will be reduced. - Concrete to stabilise fence posts will be required. Mixing of concrete will occur on site within a bucket or wheelbarrow. Concrete washout of buckets, wheelbarrows and mixing tools is not permitted to be undertaken on site to avoid potential impacts to the receiving environment. Mixing of concrete prior to pouring will occur on flat surfaces where possible atop plastic sheeting to prevent aggregate spill into the surrounding environment. - All waste will be disposed of at facilities licensed to accept the respective waste types. - Where disposal at waste facilities is undertaken, waste transport and disposal dockets will be maintained. No LIW activities submitted in this package are within a waterbody. Water bodies in this case include farm dams, streams, creeks, and rivers, or other depressions in the landscape carrying water. Construction teams will use routes indicated on the SEPs and JHG risk management documentation (AMs and TRAs). Further, minimal ground disturbance will be required further minimising the risk of any ERSED impacts to waterways.	
Water		YES Works will be undertaken in accordance with the following conditions and REMMs - Condition C9 - Condition E150

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	As a result, , the risk waterway impacts as a result of these LIW is considered to be low. <u>Additional mitigation measures:</u> Prior to crossing a dry creek, stream or drainage line with a vehicle, onsite personnel are to assess whether site conditions will not cause adverse environmental impacts to the receiving environment. These include large slope angles (erosion potential), weather forecasts, potential biosecurity concerns, the presence of overly dry or wet soil, and the presence of vegetation. Personnel are to contact the JHG environmental manager or delegate prior to crossing a dry creek where there is a significant risk of generating sediment runoff, impacting vegetation or altering the existing landform to a state that would require rehabilitation or alter existing flow paths.	- SC9 - E42
Traffic and transport	The proposal is located between sections of existing rail line near the townships of Illabo in the south and Stockinbinal in the north. These townships are predominantly surrounded by large rural properties connected by minor local roads. There are no major towns located along the proposal site between Illabo and Stockinbinal. The LIW may generate some additional traffic as a result of light and heavy vehicles accessing sites. The volume of extra vehicles and traffic is expected to be minimal. No closure or diversion of roads, level crossings or other ancillary transport items will occur as part of the activities in this assessment. Based on the assessment of traffic and transport, the works can be classified as low impact. Road occupancy licenses (ROLs) from the relevant approval authorities (TfNSW or otherwise) will be obtained prior to works occurring within the road seal or verge. <u>Additional mitigation measures:</u> • Right of way will be given to the public (road users and pedestrians) at access points into work areas. • Traffic control will be implemented where required to manage the flow of traffic at access gates. • Appropriate land access approvals will be obtained prior to the commencement of LIW. • The construction workforce and project staff will be encouraged to ride-share to reduce the number of light vehicles travelling to and from site and within the project alignment. • Identified sensitive stakeholders will be consulted with and documented in Consultation Management as per the requirements in the CCS.	YES Survey works will be undertaken in accordance with the following conditions and REMMs - T6 - Condition C8 - Condition C9 - Condition E100 - Condition E107
Access	Access points are visually presented in Appendix A – Site Environmental Plans (SEPs).	YES Works will be undertaken in accordance with the following conditions and REMMs

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	Proposed access points for activities in this assessment are provided in Table 3-2. Existing approved access points (SAP 2-11, Chapter 11 p. 15 of the EIS) will be preferentially used, however, many of these locations are limited due to constructability constraints (i.e. the size of gates, landscape limitations, the requirement to cross creeks to access the worksite, etc.). All access routes proposed for these works are either public roads or existing farm tracks, no construction of new access roads will be required. Access locations will be subject to landowner approval in accordance with the Inland Rail Community Communication Strategy (CCS). Land Access Agreements have been reached between landholders and IRPL and communications to be undertaken in accordance with the CCS. All fencing must be installed as documented in the Property Adjustment Plans and Individual Property Management Plans. The Land Access Agreements (LAA's) have been provided to JHG documenting the written permission between landowners and IRPL. These documents highlight the private access tracks along with agreed terms and conditions. JHG continue to engage directly with landowners to ensure two-way communication in regard to stock and machinery movements. A Farm Management Plan (FMP) has been provided to JHG from IRPL for the ARTC property formerly owned by McKenzie. The FMP outlines the access information in section 4.5.2 (refer to Appendix G – Farm Management Plan (ARTC – Formerly known as McKenzie). Any additional agreements sought with private landowners in relation to access will be documented in Consultation Manager as per the CCS. Movement of plant and equipment within the site boundary will be dictated by No-Go zones. These are provided in the SEPs (Appendix A – Site Environmental Plans (SEPs)). Based on the assessment of access gates and routes to the LIW activities included, the works have been classified as low impact. These works can be carried out as LIW using the mitigation measures included in this LIWA.	- LP1 - LP4 - LP5 - LP7 - LP8 - LP10 - Condition C7 - Condition C9 - Condition E94 - Condition E95 - Condition E97
Air quality	LIW could result in minor air quality impacts associated with: • Dust emissions: the use of light vehicles during investigations. • Gaseous emissions: inclusive of vehicle emissions and fugitive emissions from equipment and plant. Based on the assessment of impacts to air quality, the works can be undertaken as low impact works. <u>Additional mitigation measures:</u>	YES Works will be undertaken in accordance with the following conditions and REMMs - AQ2

Discipline	Risk Summary Based On The Outcomes Of The Risk Assessment	Consistency with CoA & EIS
	Site vehicles are to go the speed limits enforced on NSW roads and within private properties to avoid excessive dust and disturbance of dirt roads.	
Sustainability	Sustainable practices would be implemented from the outset of the LIW. Efficient plant use and effective waste management processes would be undertaken. This includes the reporting of energy, waste and water in Project Pack Web (PPW) - John Holland's compliance reporting program. Procurement would be undertaken in accordance with the <i>Inland Rail Sustainable Procurement Policy</i> (ARTC, 2018c), the <i>Sustainable Procurement Guide</i> (Commonwealth of Australia, 2021) and the <i>NSW Government Resource Efficiency Policy</i> (OEI, 2014b).	YES Works will be undertaken in accordance with the following conditions and REMMs - SU1
Landscape & Visual Impacts	Landscape and visual impacts are not anticipated during LIW. LIW included in this assessment will be mobile and minor in terms of vehicles, plant and equipment with all materials and staff moving offsite at the end of each day and moving throughout the CIZ footprint.	YES Works will be undertaken in accordance with the following conditions and REMMs - LV4 - LV6 - Condition C9

7 Mitigation Measures

Based on the level of impacts described above, the LIW activities associated with this package will be managed under the RMMs and relevant conditions of approval.

Communication of specific RMMs associated with activities will be described and communicated through the planning and implementation documents prepared by John Holland (the AMS, TRA and SEP) as well as this document communicated as part of the sign off process for staff prior to undertaking any work.

In addition to the RMMs and CoA's, the following General Mitigation Measures have been included for works associated with this assessment:

- All vehicles entering the site will be equipped with portable spill kits and all personnel will have access to these kits, to rapidly address any incidental leaks, ensuring immediate containment and cleanup.
- Concrete washouts (if any) would be contained and removed off-site.
- Specialist heritage advice provided in Appendix C – LIW Heritage Advice Letter and allows for non-ground disturbing activities (walk-through, visual observation and driving on existing vehicle tracks) to occur within Indigenous Survey Zones 1-11 East. No ground disturbance is to occur in the Indigenous Survey Zones to avoid harm to Aboriginal sites or objects.
- Ecologist pre-clearance of sites will be undertaken prior to work commencement in areas requiring it (including lands not ecologically surveyed), as per biodiversity advice provided in Appendix F – Low Impact Work Biodiversity Advice.
- All spoil generated as a result of the excavations will be backfilled into the excavations. Any excess spoil will be disposed of offsite.
 - All waste being disposed of offsite must be classified in accordance with the NSW Waste Classification Guidelines. Waste will be disposed of at a facility licensed to accept the waste type.
- Vehicles transitioning from dirt roads onto public asphalted roads will undergo a visual inspection to prevent debris from being transported off-site and to maintain cleanliness on public roadways.
- Farm gates encountered during LIW will be left in the condition specified by the landowner, whether that be open or closed. If no contact with relevant landowner is achieved, the specific gate will be left in the condition it was found in.
- TEC's and TEC habitat locations will be available electronically and via hard copies of the SEPs to all site personnel. Vegetation within the CIZ will be delineated as required with appropriate barriers such as bollards and bunting.
- All site personnel are to be inducted to the Project. The project induction includes the controls and mitigation measures within this assessment, along with visual depictions of no-go zones.
- Biosecurity measures will be established. Prior to making between-property movements, all personnel's boots and vehicles will undergo a cleanliness inspection to ensure they are clean and free of organic material.
- Prior to the initiation of any work, access routes crossing private property will be established in consensus with the respective landowners.
- The utilisation of existing farm tracks will be adhered to as much as reasonably practicable for the proposed activities, thereby reducing the environmental impact of the works.
- Non-tonal reversing alarms must be fitted and used on all construction vehicles and mobile plant.
- Quieter and less noise emitting construction methods will be used whenever possible.
- Shouting and slamming doors to minimise unnecessary noise will be avoided.
- All vehicles accessing the project site must comply with local speed restrictions.

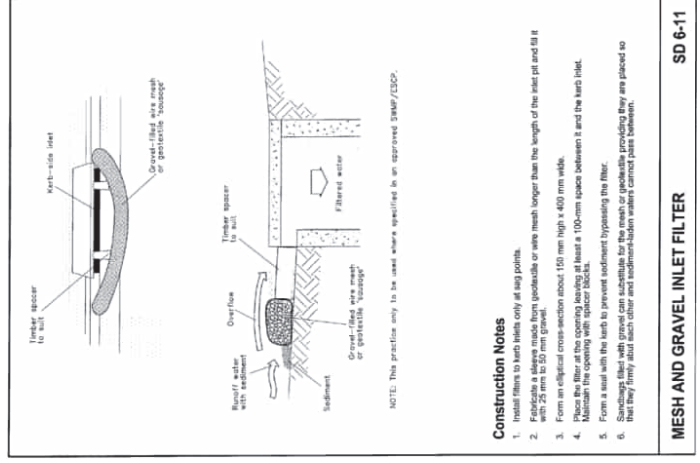
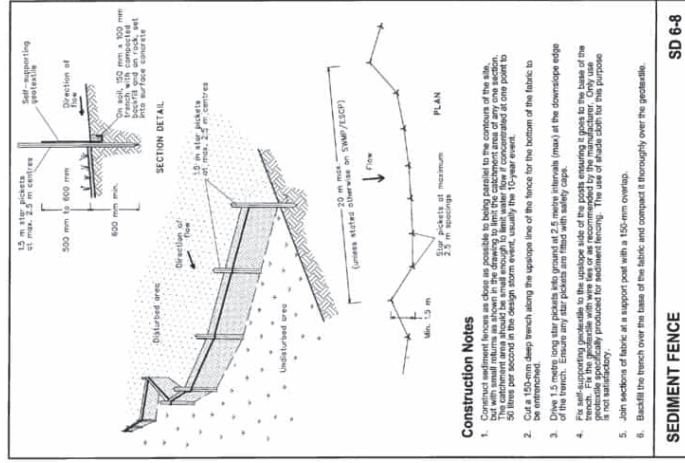


- Plant equipment engines should be turned off when not in use to reduce potential noise impacts on surrounding stakeholders
- Mitigation measures for works in and around AECs must be adhered to. A hard copy of these mitigation measures will be kept on site.
- Any OOHW will be assessed to ensure it is undertaken in accordance with CoA E3(b) and meets the LIW definition in the Infrastructure Approval (CSSI 9406).
- Works undertaken within a different CSSI Project area must be conducted in accordance with the JHG protocols and procedures outlined in this LIWA, unless dictated/agreed otherwise.



8 Appendices

Appendix A – Site Environmental Plans (SEPs)



GEOTEXTILE INLET FILTER SD 6-12
Note: Figures from the Blue Book



Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona sericea
	Austrostipa Wakoolica, Swainsona Murrayana
	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

Erosion and Sediment Controls (ESC):

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- Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
- ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
- All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriately licenced facility.
- Stockpiles not to exceed 2 metres in height.
- Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulka Bags' or covered skip bins (cover is essential for preventing ingress of rainwater).
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- Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
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Monitoring of ESC:

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INDIGENOUS SURVEY ZONES +25m:

- No ground disturbance activities to commence prior to heritage endorsement of works
- Walking permitted
- Driving on existing vehicle tracks *only*

UNSURVEYED LANDS:

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Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
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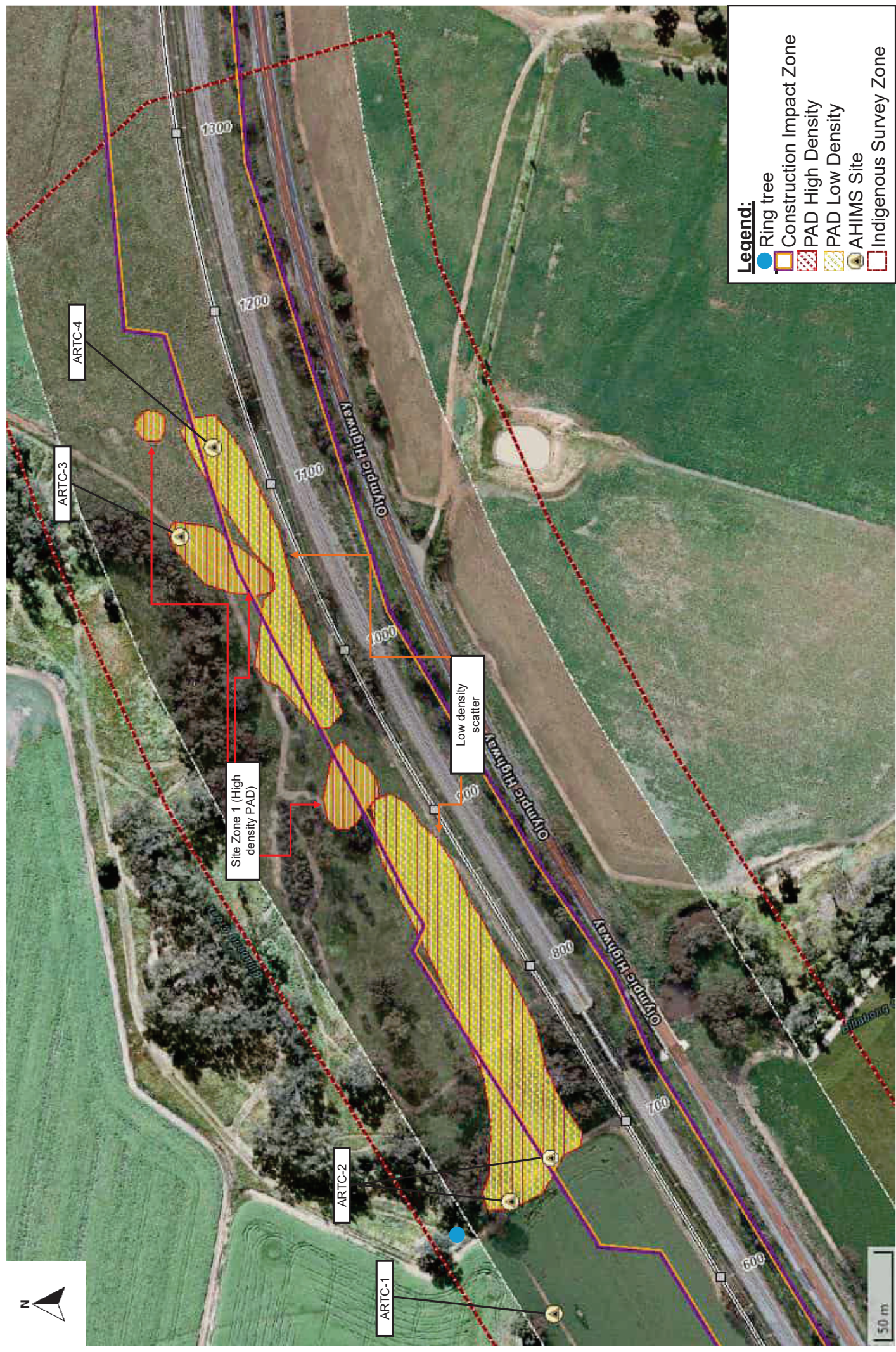
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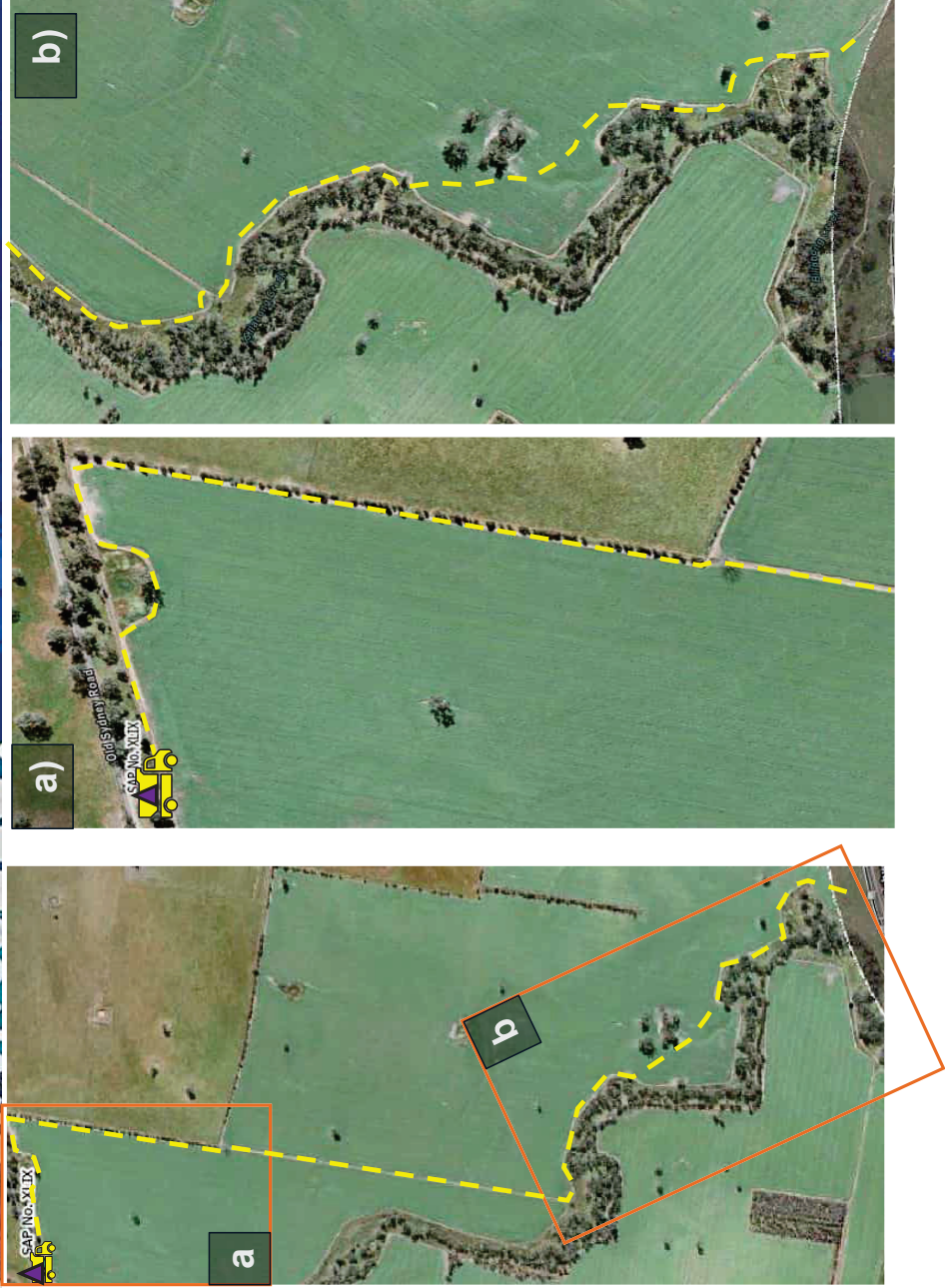
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Indigenous Survey Zone 1
Artefact sites: ARTC1-4, Site Zone 1 – Low density
scatter



- Legend:**
- Ring tree
 - Construction Impact Zone
 - PAD High Density
 - PAD Low Density
 - AHIMS Site
 - Indigenous Survey Zone



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Legend	
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	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
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	Local Heritage
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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: i, XLVIII

Property #1 - David and Jenny Thompson, #3 – Helen Dunstan

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona sericea
	Aboriginal Heritage artefact		Austrostipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier – Nest (Confirmed)		State Heritage
	Square-tailed Kite		Scattered Paddock Tree
	Squirrel Glider		Land not surveyed (ecologically)
	Superb Parrot		Access/egress point
	Superb Parrot - Nesting		Public level crossing
	White-fronted Chat		Private level crossing
	Spill kit		Bridge point
	Chainage		Stock crossing
	START/END fence line		Culvert point

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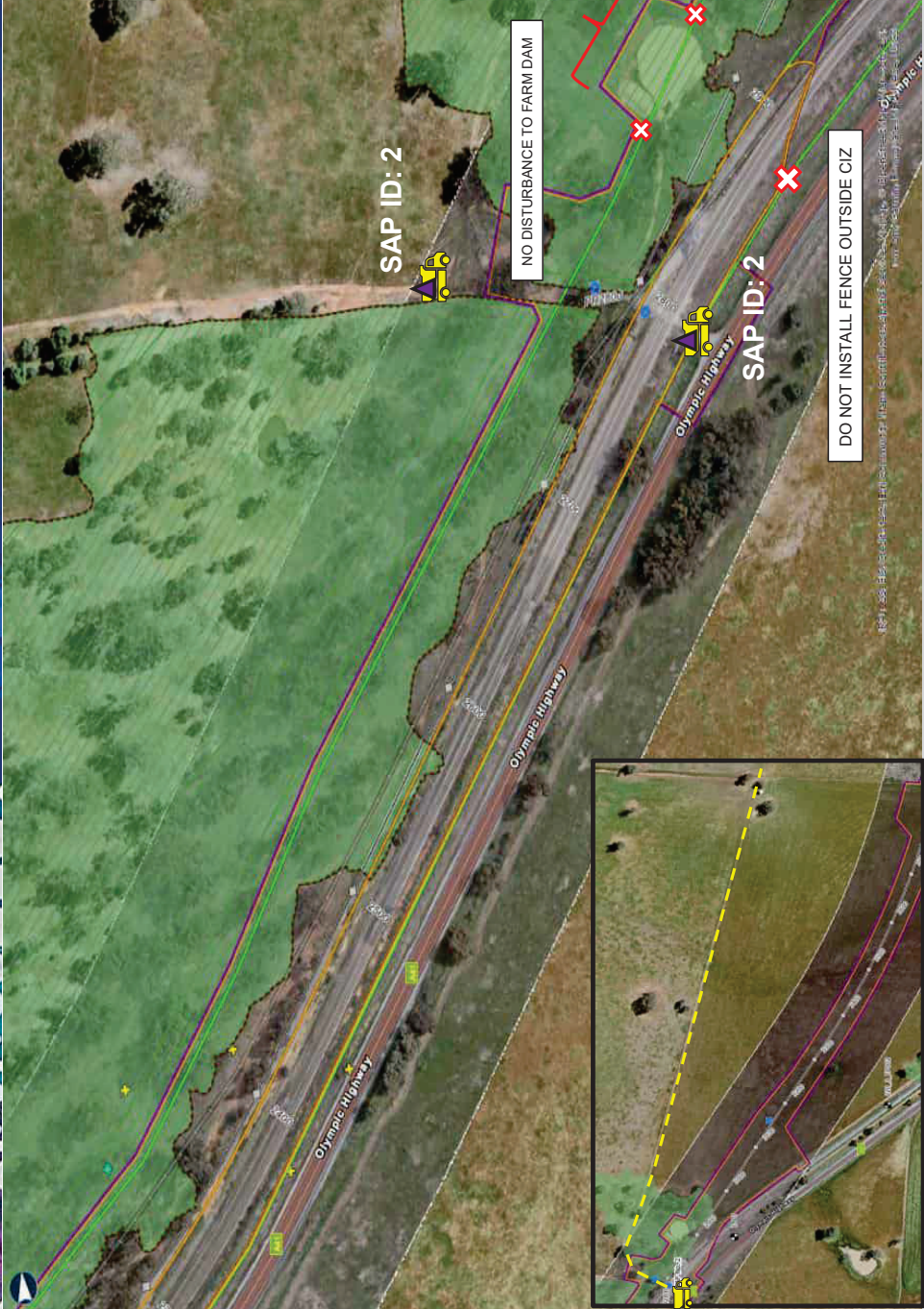
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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

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Property #3 – Helen Dunstan

JOHN
HOLLAND



Legend

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- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)

I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: i, XLV/III
Property #3 – Helen Dunstan

JOHN
HOLLAND

Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona sericea
	Aboriginal Heritage artefact		Austrostipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Habitat connectivity
	Diamond Firetail		Stream (incl. ephemeral)
	Dusk Woodswallow		Grey Box (E. macrocarpa)
	Flame Robin		White-Box-Yellow Box-Blakely's Red Gum
	Grey-crowned Babbler		Receivers
	Little Eagle		Indigenous Survey Zones
	Little Eagle – Nest (Confirmed)		Local Heritage
	Spotted Harrier		State Heritage
	Spotted Harrier – Nest (Confirmed)		Scattered Paddock Tree
	Square-tailed Kite		Land not surveyed (ecologically)
	Squirrel Glider		Access/egress point
	Superb Parrot		Public level crossing
	Superb Parrot - Nesting		Private level crossing
	White-fronted Chat		Bridge point
	Spill kit		Stock crossing
	Chainage		Culvert point
	START/END fence line		



Erosion and Sediment Controls (ESC):

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- Monitoring of ESC:**
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INDIGENOUS SURVEY ZONES +25m:

- No ground disturbance activities to commence prior to heritage endorsement of works
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 - Driving on existing vehicle tracks only
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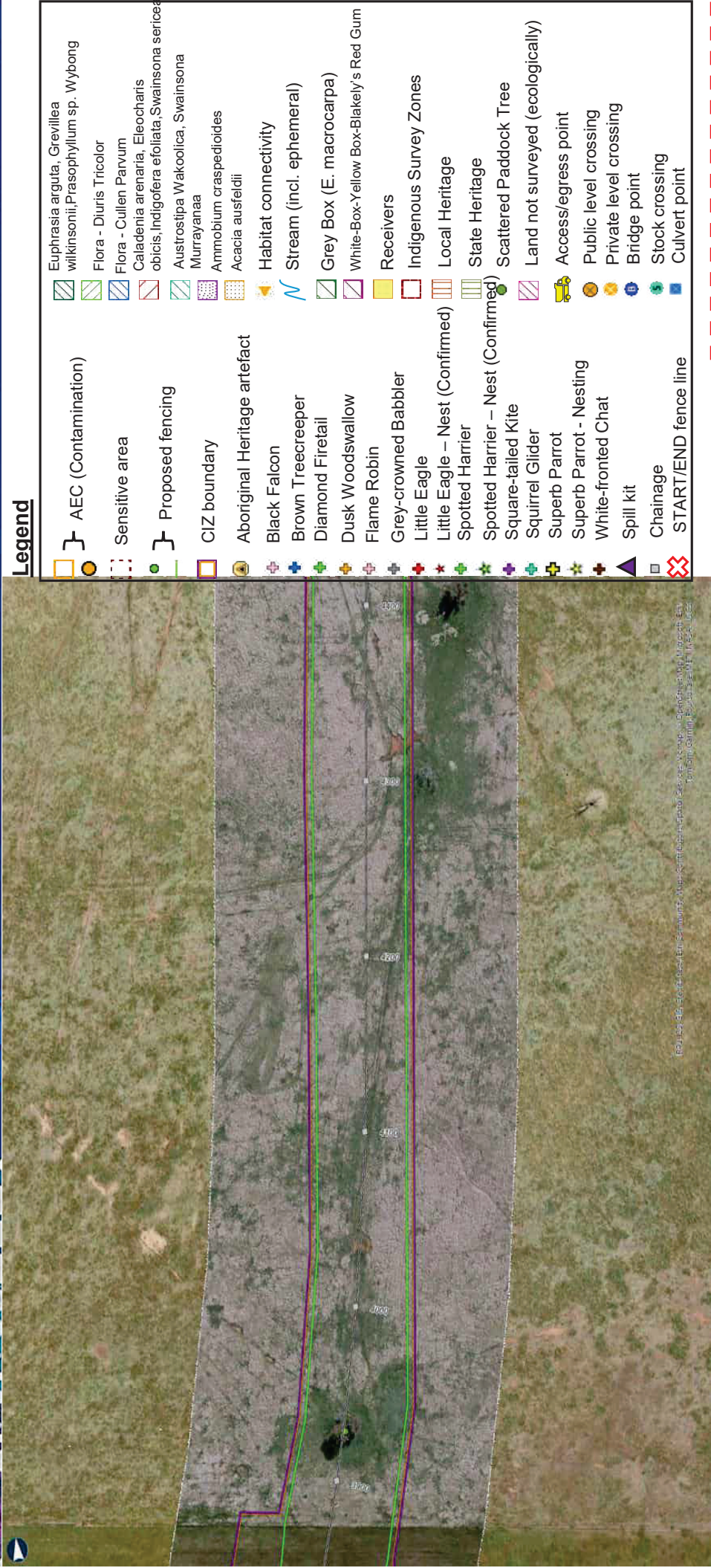
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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: i, XLVIII
Property #3 – Helen Dunstan

JOHN
HOLLAND



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Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
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	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obicis, Indigofera foliata, Swainsona sericea
	Austrostipa Wakoolica, Swainsona Murrayana
	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: i, XLVIII
Property #3 – Helen Dunstan

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera foliata, Swainsona sericea
	Aboriginal Heritage artefact		Austrostipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

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**JOHN
HOLLAND**

Property #3 – Helen Dunstan, #4 – John Green



- | Legend | |
|--------|---|
| | AEC (Contamination) |
| | Sensitive area |
| | Proposed fencing |
| | CIZ boundary |
| | Aboriginal Heritage artefact |
| | Black Falcon |
| | Brown Treecreeper |
| | Diamond Firetail |
| | Dusk Woodswallow |
| | Flame Robin |
| | Grey-crowned Babbler |
| | Little Eagle |
| | Little Eagle – Nest (Confirmed) |
| | Spotted Harrier |
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| | Square-tailed Kite |
| | Squirrel Glider |
| | Superb Parrot |
| | Superb Parrot - Nesting |
| | White-fronted Chat |
| | Spill kit |
| | Chaimage |
| | START/END fence line |
| | |
| | Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong |
| | Flora - Diuris Tricolor |
| | Flora - Cullen Parvum |
| | Caladenia arenaria, Eleocharis oblics, Indigofera efoliata, Swainsona sericea |
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| | Ammobium craspedioides |
| | Acacia ausfeldii |
| | Habitat connectivity |
| | Stream (incl. ephemeral) |
| | Grey Box (E. macrocarpa) |
| | White-Box-Yellow Box-Blakely's Red Gum |
| | Receivers |
| | Indigenous Survey Zones |
| | Local Heritage |
| | State Heritage |
| | Scattered Paddock Tree |
| | Land not surveyed (ecologically) |
| | Access/egress point |
| | Public level crossing |
| | Private level crossing |
| | Bridge point |
| | Stock crossing |
| | Culvert point |

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.

- The following ESC are implemented for the project site:

- All temporary stockpiling of materials will take place away

- Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.

- All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste will be disposed of as liquid waste at an appropriately licensed facility.

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AEC 6 – Fox baits

- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure
- The location of fox baits cannot be predicted. Avoid contact with observed bates, any carcass or small (matchbox size) pieces of meat.





Legend	
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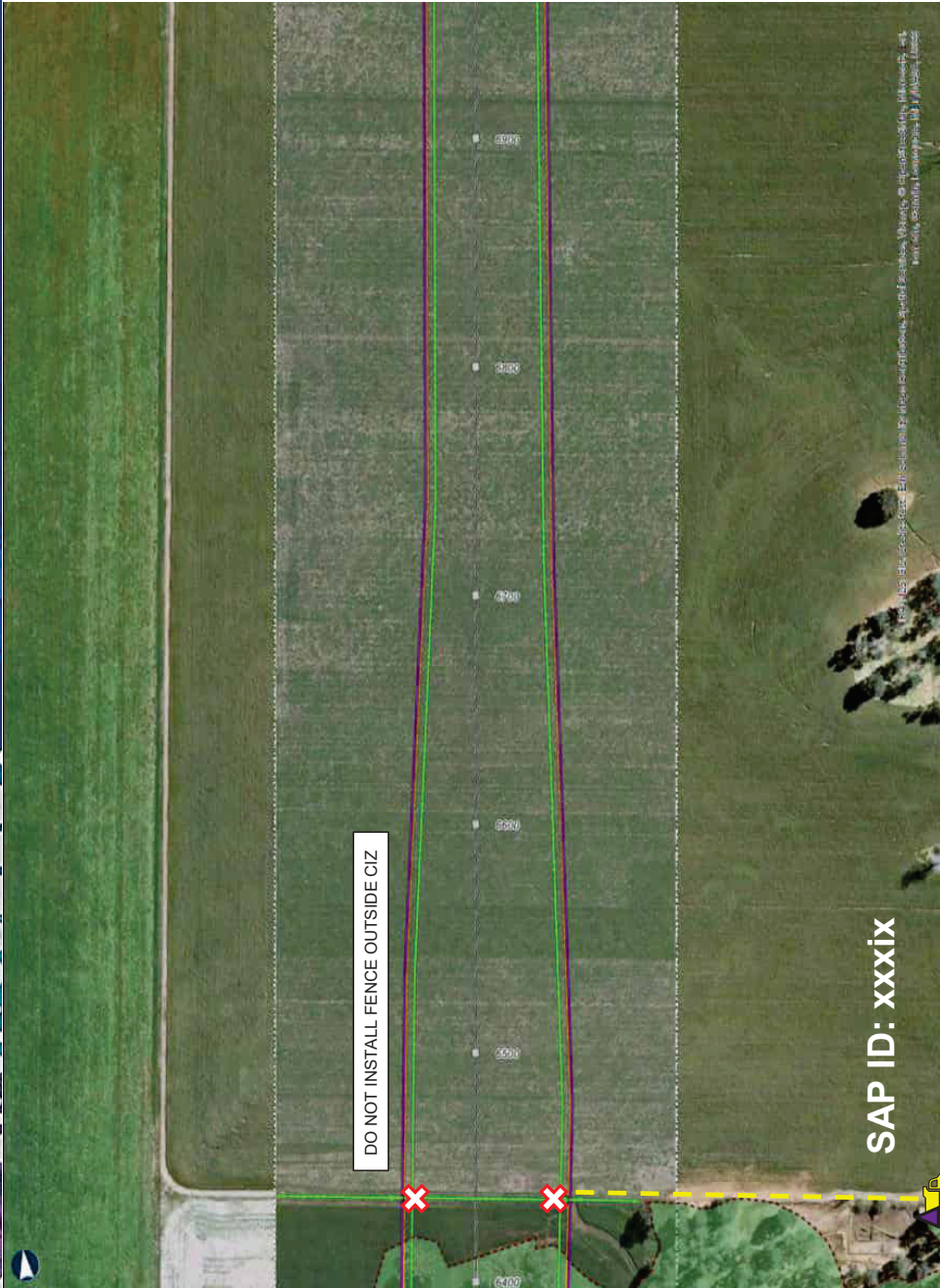
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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: xxxix
Property #4 – John Green

JOHN
HOLLAND



Legend

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	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
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	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier – Nest (Confirmed)		State Heritage
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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: xxix
Property #4 – John Green, #5 – Mal & Maria Lloyd-Jones

JOHN
HOLLAND



Erosion and Sediment Controls (ESC):

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
 - ERSED controls have been included on the SEPs in areas where potential ERSED risks are anticipated. Additional ERSED control equipment will be available to site teams if required. The orientation and position of ERSED controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).
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 - All temporary stockpiling of materials will take place away from drainage lines and creeks.
 - Geotechnical excavation will be backfilled by excess soil.
 - Water will not be discharged or pumped off-site or to drains. For any water discharge, the Environment Team must be contacted immediately (for water testing methodology for removal i.e. vacuum truck or to re-use on site).
 - Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
 - ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
 - All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriately licenced facility.
 - Stockpiles not to exceed 2 metres in height.
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 - Where stockpiles are to be established overnight, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation.
 - Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
 - Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
 - Water will be used for dust suppression as required.
- Monitoring of ESC:**
- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

INDIGENOUS SURVEY ZONES +25m:

No ground disturbance activities to commence prior to heritage endorsement of works

- Walking permitted
- Driving on existing vehicle tracks *only*

UNSURVEYED LANDS:

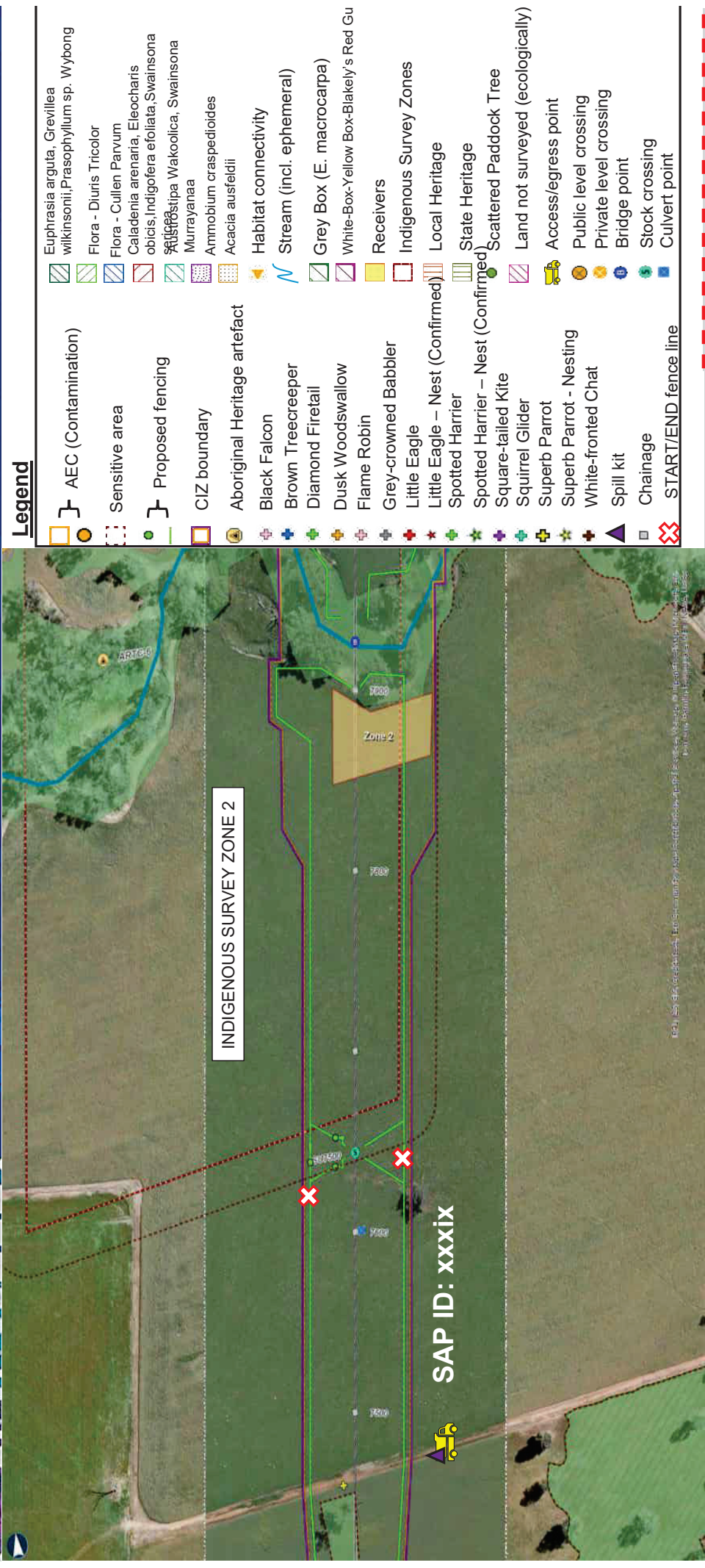
No activities to commence prior to endorsement of works by an ecologist.

TEC ZONES OR TEC HABITAT:

No ground disturbance activities to commence prior to endorsement of works by ecologist. Ecologist mitigation to be included on all excavation permits (where relevant to the works).

WATERWAYS (OR POTENTIAL WATERWAYS):

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)



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INDIGENOUS SURVEY ZONES +25m:	
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No activities to commence prior to endorsement of works by an ecologist.	
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WATERWAYS (OR POTENTIAL WATERWAYS):	
Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)	

**JOHN
HOLLAND**

Property #5 – Mal & Maria Lloyd-Jones, #6 – T. Lloyd Jones



- | Legend | |
|--------|---|
| | AEC (Contamination) |
| | |
| | Sensitive area |
| | Proposed fencing |
| | CIZ boundary |
| | Aboriginal Heritage artefact |
| | Black Falcon |
| | Brown Treecreeper |
| | Diamond Firetail |
| | Dusk Woodswallow |
| | Flame Robin |
| | Grey-crowned Babbler |
| | Little Eagle |
| | Little Eagle – Nest (Confirmed) |
| | Spotted Harrier |
| | Spotted Harrier – Nest (Confirmed) |
| | Square-tailed Kite |
| | Squirrel Glider |
| | Superb Parrot |
| | Superb Parrot - Nesting |
| | White-fronted Chat |
| | Spill kit |
| | Chainage |
| | START/END fence line |
| | Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong |
| | Flora - Diuris Tricolor |
| | Flora - Cullen Parvum |
| | Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona |
| | Setipoda Wakoolica, Swainsona Murrayana |
| | Ammobitum craspedioides |
| | Acacia ausfeldii |
| | Habitat connectivity |
| | Stream (incl. ephemeral) |
| | Grey Box (E. macrocarpa) |
| | White-Box-Yellow Box-Blackely's Red Gum |
| | Receivers |
| | Indigenous Survey Zones |
| | Local Heritage |
| | State Heritage |
| | Scattered Paddock Tree |
| | Land not surveyed (ecologically) |
| | Access/egress point |
| | Public level crossing |
| | Private level crossing |
| | Bridge point |
| | Stock crossing |
| | Culvert point |

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1 4th Edition, March 2004.

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- Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulka Bags', or covered skip containers not to exceed 3 metres in height.

(cover is essential for preventing ingress of rainwater)

- Where appropriate geofabric would underlay the stockpile to facilitate easier site clean-up. Upon removal of the stockpile

- Water will be used for dust suppression as required

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24 hour period)

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

No ground disturbance activities to commence prior to heritage endorsement of works

- ## INSPIREVED! ANDS:

No activities to commence prior to endorsement of works by an ecologist.

No ground disturbance activities to commence prior to endorsement of works by ecologist. Ecologist mitigation to be included on all excavation permits (where relevant to the works).

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)



Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Sesuvium portulacastrum, Stipa Wakoolica, Swainsona Murrayana
	Ammobium craspedioides
	Acacia austfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

- Erosion and Sediment Controls (ESC):**
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- Monitoring of ESC:**
- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

Mitigation for works within/around AEC:

- AEC 4 – Behurunga Rural Fire Brigade service shed with associated fire suppressants and one water tank**
- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure
 - Appropriate PPE will be worn as required, such as in dusty / high wind conditions, confined spaces or works likely to result in particulate inhalation.
 - Do not disturb building and demolition waste (refer to AEC 7 if stockpiles of waste are identified).
 - Ensure equipment is inspected, clean and contaminant free prior to leaving site.
 - Do not disturb historic machinery.





Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
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	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
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	Flora - Diuris Tricolor
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	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gurr
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

Mitigation for works within/around AEC:

AEC 3 - Four grain silos and machinery associated with these silos including tractors and multi-feeders within a private property

- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure
- Appropriate PPE will be worn as required, such as in dusty / high wind conditions, confined spaces or works likely to result in particulate inhalation.
- Do not disturb building and demolition waste (refer to AEC 7 if stockpiles of waste are identified).
- Ensure equipment is inspected, clean and contaminant free prior to leaving site.
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Monitoring of ESC:

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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: xxxvi
Property #6 T. Lloyd-Jones

SAP: xxxvi

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigolera efoliata, Swainsona sericea
	Aboriginal Heritage artefact		Austrostipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

Mitigation for works within/around AEC:

AEC 5 - Bethungra Rural Fire Brigade service shed with associated fire suppressants and one water tank

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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: xxxvi
Property #6 T. Lloyd-Jones

JOHN
HOLLAND



Legend

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	Black Falcon		Acacia ausfeldii
	Brown Treecreeper		Habitat connectivity
	Diamond Firetail		Stream (incl. ephemeral)
	Dusk Woodswallow		Grey Box (E. macrocarpa)
	Flame Robin		White-Box-Yellow Box-Blakely's Red Gum
	Grey-crowned Babbler		Receivers
	Little Eagle		Indigenous Survey Zones
	Little Eagle – Nest (Confirmed)		Local Heritage
	Spotted Harrier		State Heritage
	Spotted Harrier – Nest (Confirmed)		Scattered Paddock Tree
	Square-tailed Kite		Land not surveyed (ecologically)
	Squirrel Glider		Access/egress point
	Superb Parrot		Public level crossing
	Superb Parrot - Nesting		Private level crossing
	White-fronted Chat		Bridge point
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	Chainage		Culvert point
	START/END fence line		

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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: xxxvi
Property #6 T. Lloyd-Jones

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
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	Spotted Harrier		Indigenous Survey Zones
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	White-fronted Chat		Public level crossing
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	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

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 - Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
 - ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
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 - Stockpiles not to exceed 2 metres in height.
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 - Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
 - Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
 - Water will be used for dust suppression as required.
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- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

INDIGENOUS SURVEY ZONES +25m:

- No ground disturbance activities to commence prior to heritage endorsement of works
 - Walking permitted
 - Driving on existing vehicle tracks *only*
- UNSURVEYED LANDS:
 - No activities to commence prior to endorsement of works by an ecologist.

TEC ZONES OR TEC HABITAT:

- No ground disturbance activities to commence prior to endorsement of works by ecologist. Ecologist mitigation to be included on all excavation permits (where relevant to the works).

WATERWAYS (OR POTENTIAL WATERWAYS):

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona munita, Stipa Wakoocia, Swainsona Murrayana
	Aboriginal Heritage artefact		Ammobium craspedioides
	Black Falcon		Acacia ausfeldii
	Brown Treecreeper		Habitat connectivity
	Diamond Firetail		Stream (incl. ephemeral)
	Dusk Woodswallow		Grey Box (E. macrocarpa)
	Flame Robin		White-Box-Yellow Box-Blakely's Red Gum
	Grey-crowned Babbler		Receivers
	Little Eagle		Indigenous Survey Zones
	Little Eagle - Nest (Confirmed)		Local Heritage
	Spotted Harrier		State Heritage
	Spotted Harrier - Nest (Confirmed)		Scattered Paddock Tree
	Squirrel-tailed Kite		Land not surveyed (ecologically)
	Superb Parrot		Access/egress point
	Superb Parrot - Nesting		Public level crossing
	White-fronted Chat		Private level crossing
	Spill kit		Bridge point
	Chainage		Stock crossing
	START/END fence line		Culvert point

Erosion and Sediment Controls (ESC):

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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: iv

Property ARTC Deakin

SAP:iv



Legend

Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obliqua, Indigofera ebiolata, Swainsona
	Acacia stipata Wakoolica, Swainsona Murrayana
	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blackely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically sensitive)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

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- All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriately licenced facility.
- Stockpiles not to exceed 2 metres in height.
- Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulk Bags' or concrete bins
- (cover is essential for preventing ingress of rainwater).
- Where stockpiles are to be established overnight, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation.
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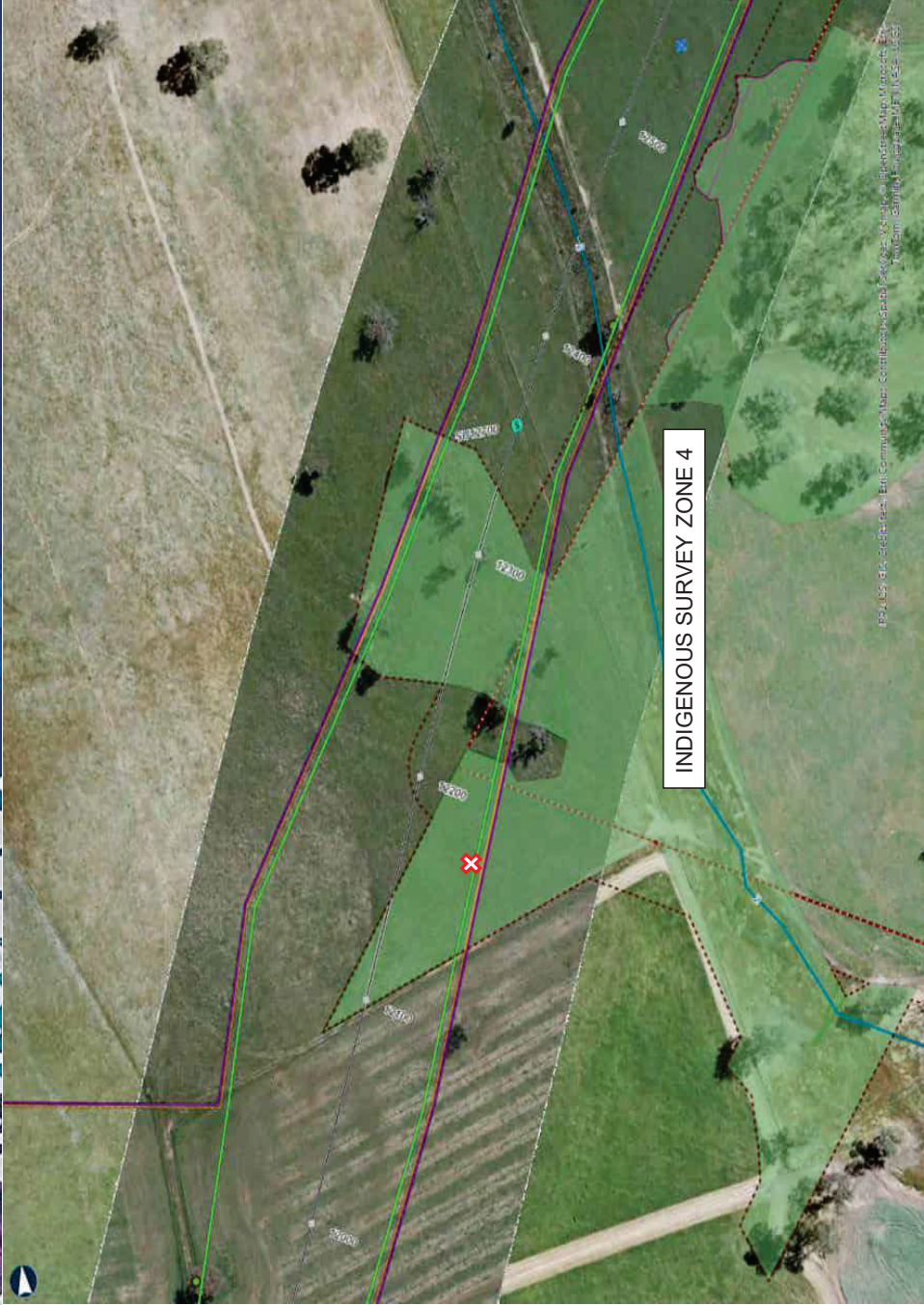
WATERWAYS (OR POTENTIAL WATERWAYS):

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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: iv
Property ARTC Deakin

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Elaeocharis obicis, Indigofera efoliata, Swainsona albigata, Wakoolica, Swainsona Murrayana
	Aboriginal Heritage artefact		Ammobium craspedioides
	Black Falcon		Acacia ausfeldii
	Brown Treecreeper		Habitat connectivity
	Diamond Firetail		Stream (incl. ephemeral)
	Dusk Woodswallow		Grey Box (E. macrocarpa)
	Flame Robin		White-Box-Yellow Box-Blakely's Red Gum
	Grey-crowned Babbler		Receivers
	Little Eagle		Indigenous Survey Zones
	Little Eagle – Nest (Confirmed)		Local Heritage
	Spotted Harrier		State Heritage
	Spotted Harrier – Nest (Confirmed)		Scattered Paddock Tree
	Square-tailed Kite		Land not surveyed (ecologically)
	Squirrel Glider		Access/egress point
	Superb Parrot		Public level crossing
	Superb Parrot - Nesting		Private level crossing
	White-fronted Chat		Bridge point
	Spill kit		Stock crossing
	Chainage		Culvert point
	START/END fence line		

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Legend	
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	Black Falcon
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	Flame Robin
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	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
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	Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona sericea
	Austrostipa Wakoolica, Swainsona sericea
	Murrayahaa
	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
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	White-Box-Yellow Box-Blakely's Red Gum
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	Indigenous Survey Zones
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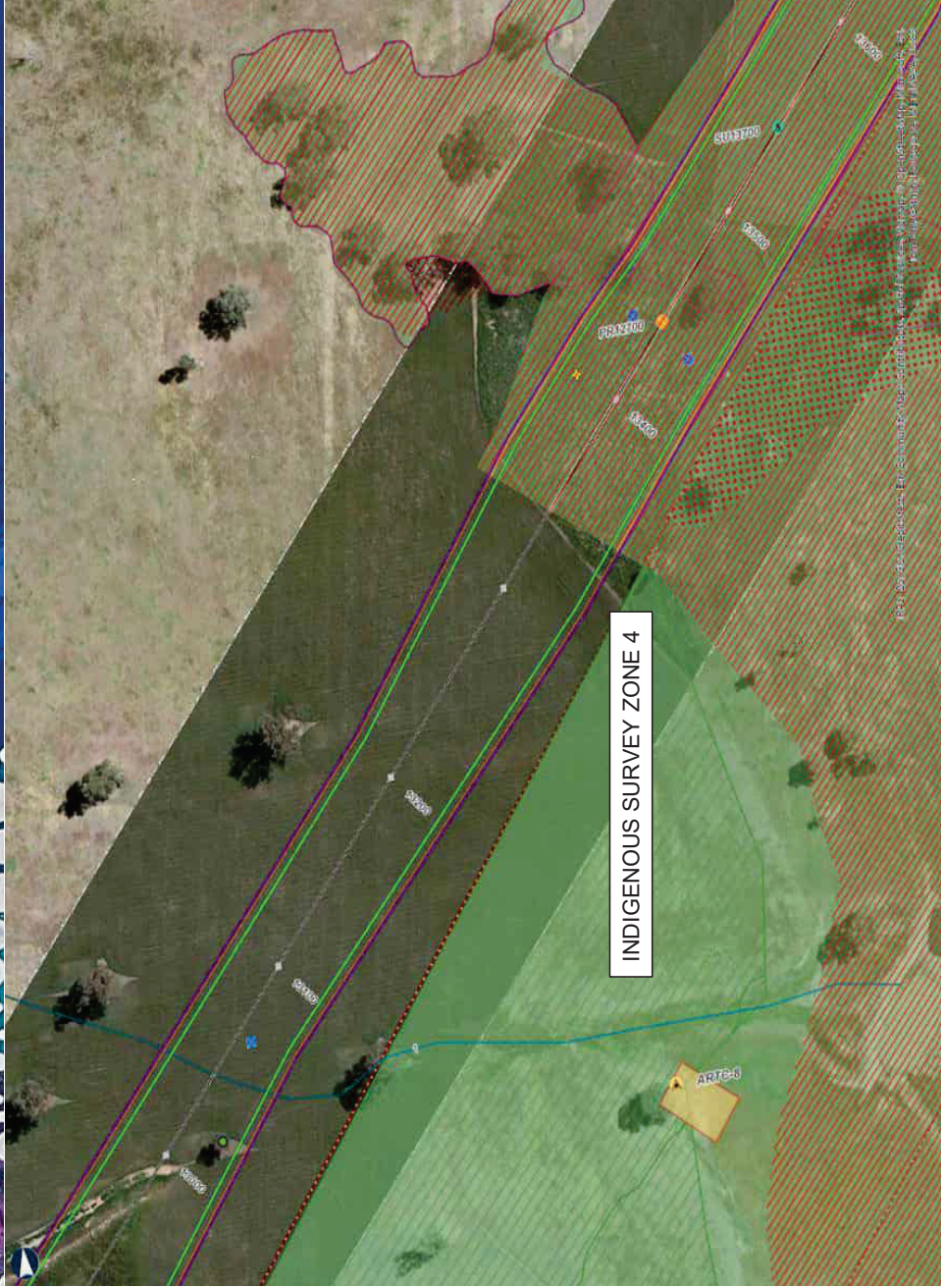
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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: iv
Property ARTC Gumflat

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
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	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
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	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier – Nest (Confirmed)		State Heritage
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	START/END fence line		Culvert point

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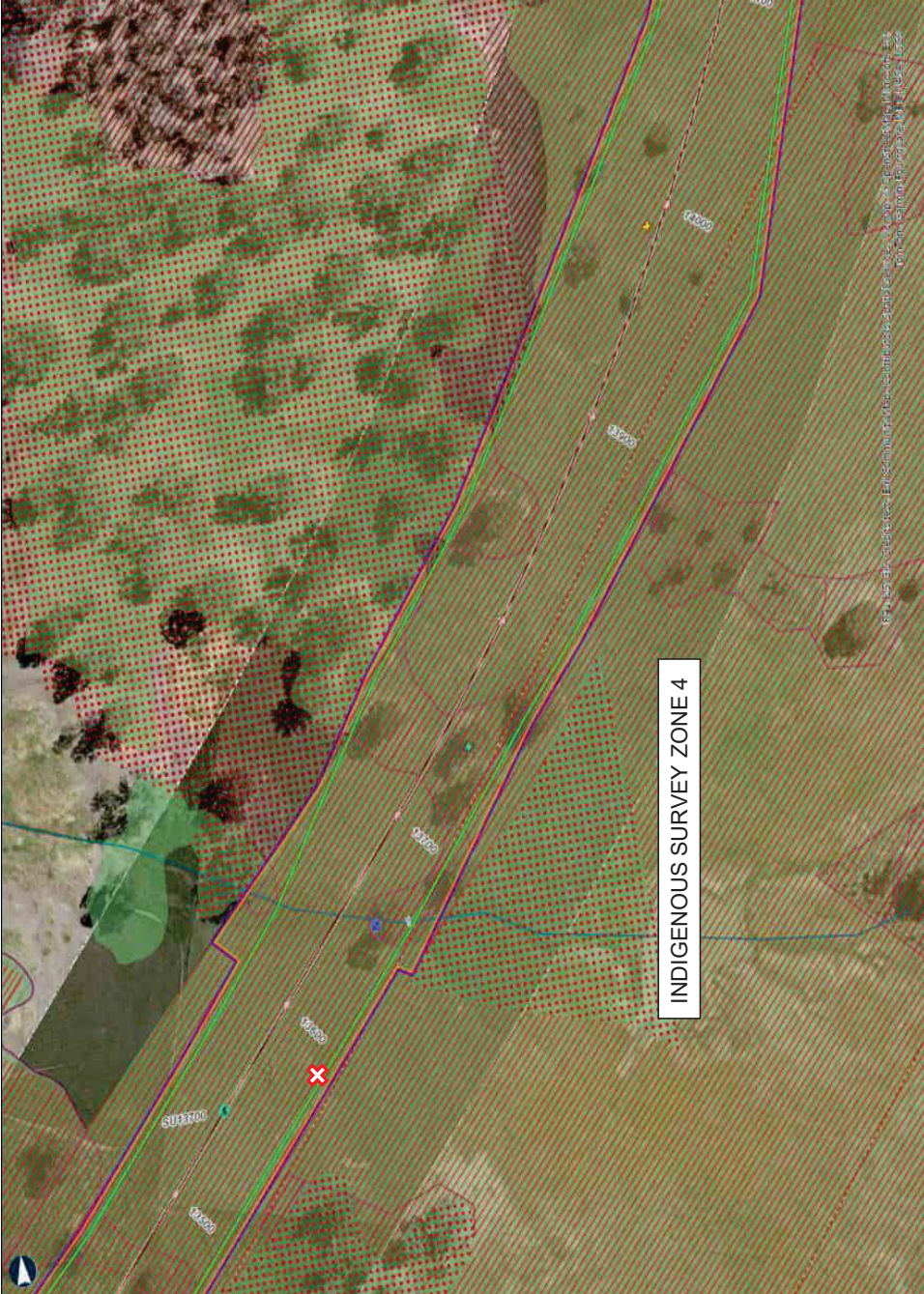
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I2S LIW Boundary Fencing Site Environmental Plan (SEP)

Site Access Point: iv
Property ARTC Gumflat

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong
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	Proposed fencing		Flora - Cullen Parvum
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	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
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	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

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I2S LIW Boundary Fencing Site

Site Access Point: iv

Property ARTC Gumflat, #7 - McKenzie

**JOHN
HOLLAND**



Legend

Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obdita, Indigofera efoliata, Swainsona
	Setaria sp. Wakoolica, Swainsona
	Murrayana
	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

Erosion and Sediment Controls (ESC):

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
- EROSD controls have been included on the SEPs in areas where potential EROSD risks are anticipated. Additional EROSD control equipment will be available to site teams if required. The orientation and position of EROSD controls indicated on maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).

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- Appropriate ESC (e.g. geofabric) to be placed over stormwater/rail corridor drains (as required – if works have potential to impact).
- All temporary stockpiling of materials will take place away from drainage lines and creeks.
- Geotechnical excavation will be backfilled by excess soil.
- Water will not be discharged or pumped off-site or to drains. For any water discharge, the Environment Team must be contacted in use on site).

- Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
- ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
- All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriate facility.
- Stockpiles not to exceed 2 metres in height.

- Any material delivered to site or excavated n

bins

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- Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
- Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
- Water will be used for dust suppression as required.

Monitoring of ESC:

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period);

INDIGENOUS SURVEY ZONES +25m:

No ground disturbance activities to commence prior to heritage endorsement of works

- Walking permitted
- Driving on existing vehicle tracks only

UNSURVEYED LANDS:

No activities to commence prior to endorsement of works by an ecologist.

TEC ZONES OR TEC HABITAT:

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WATERWAYS (OR POTENTIAL WATERWAYS):

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)

Site Environmental Plan (SEP 13)

Site Access Point: iv, xiii

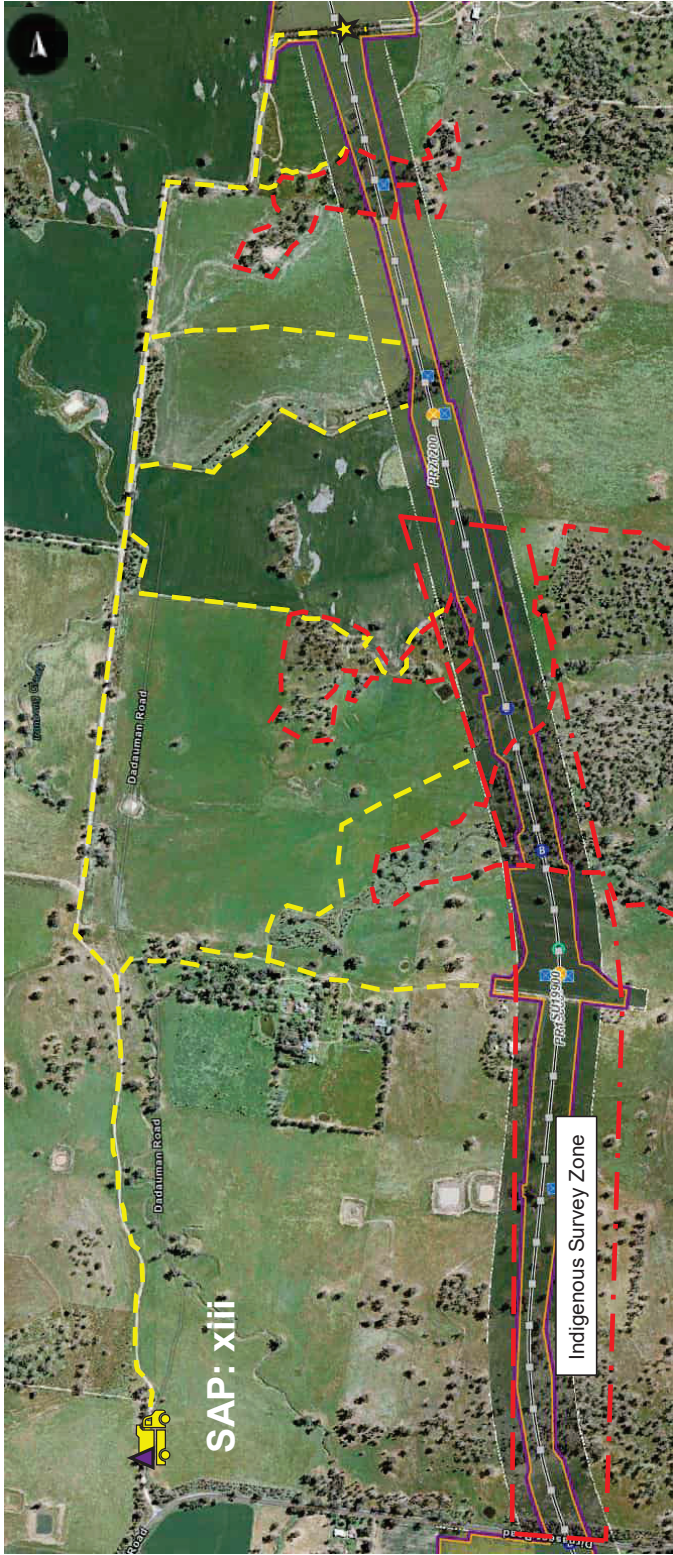
Property #7 – McKenzie, #8 Friend

JOHN
HOLLAND



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LAND NOT SURVEYED



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis oblicis, Indigofera efoliata, Swainsona sericea
	Aboriginal Heritage artefact		Austrostipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier – Nest (Confirmed)		State Heritage
	Square-tailed Kite		Scattered Paddock Tree
	Squirrel Glider		Land not surveyed (ecologically)
	Superb Parrot		Access/egress point
	Superb Parrot - Nesting		Public level crossing
	White-fronted Chat		Private level crossing
	Spill kit		Bridge point
	Chainage		Stock crossing
	START/END fence line		Culvert point

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Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CLZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Acacia ausfeldii
	Black Falcon		Murrayanaa
	Brown Treecreeper		Ammobium craspedioides
	Diamond Firetail		Acacia ausfeldii
	Dusk Woodswallow		Habitat connectivity
	Flame Robin		Stream (incl. ephemeral)
	Grey-crowned Babbler		Grey Box (E. macrocarpa)
	Little Eagle		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle – Nest (Confirmed)		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

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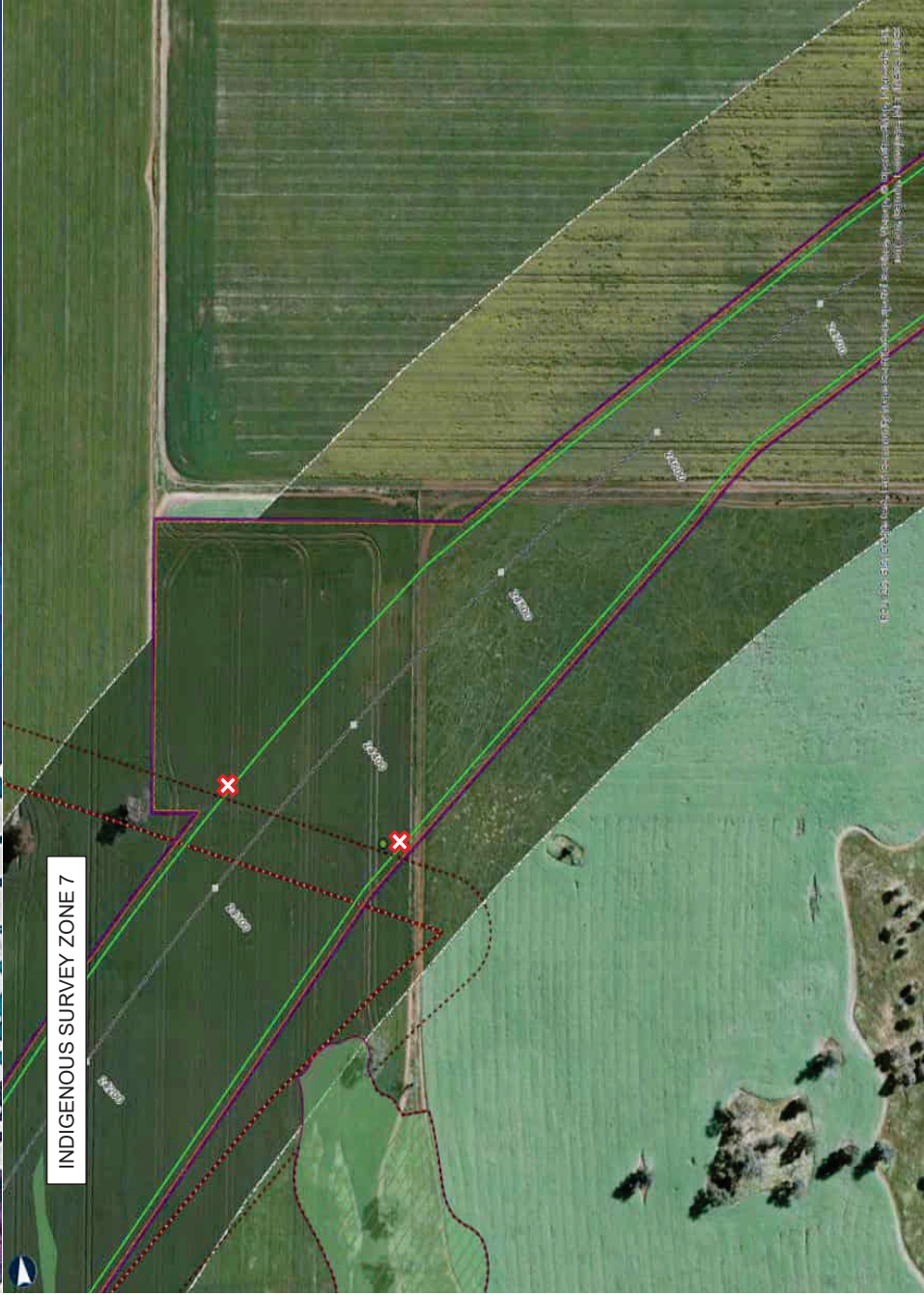
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INDIGENOUS SURVEY ZONE 7

Legend

	AEC (Contamination)		Euphrasia arguta
	Sensitive area		Grevillea wilkinsonii
	Proposed fencing		Prasophyllum sp. Wybong
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Site Environment
Site Access Point: xix
Property #11 – Ryals

**JOHN
HOLLAND**



Legend

- | Legend | |
|--------|--|
| | AEC (Contamination) |
| | |
| | |
| | Sensitive area |
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| | Habitat connectivity |
| | Stream (incl. ephemeral) |
| | Grey Box (E. macrocarpa) |
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- Stockpiles not to exceed 2 metres in height.
- Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulka Bags' or cover bins
 - (cover is essential for preventing ingress of rainwater).
- Where stockpiles are to be established overnight, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation.
- Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
- Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
 - Water will be used for dust suppression as required.

Monitoring of ESC:

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

INDIGENOUS SURVEY ZONES +25m:

- No ground disturbance activities to commence prior to heritage endorsement of works**

- Walking permitted
- Driving on existing vehicle tracks *only*

UNSURVEYED LANDS:

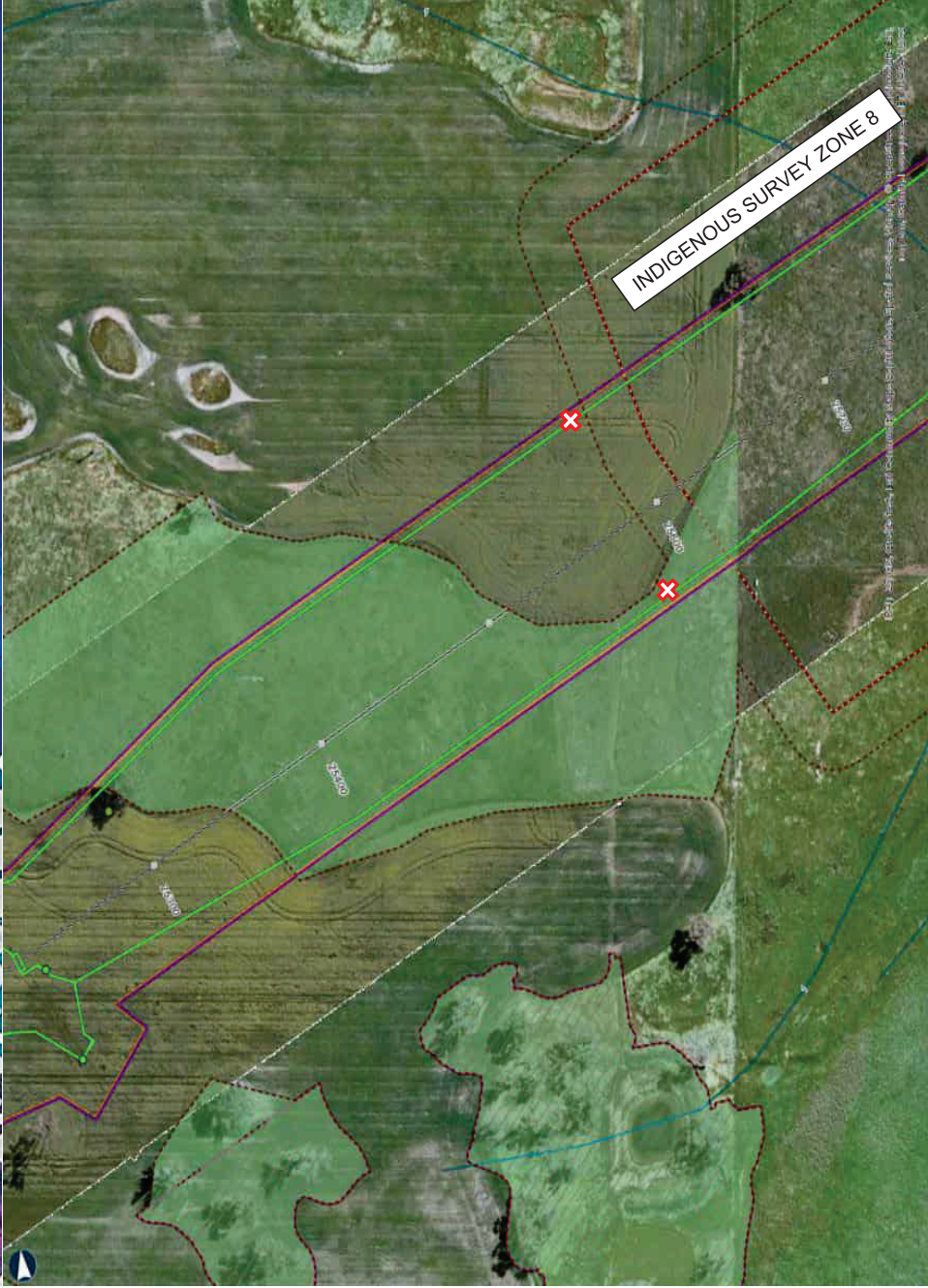
- No activities to commence prior to endorsement of works by an ecologist.**

TEC ZONES OR TEC HABITAT:

- No ground disturbance activities to commence prior to endorsement of works by ecologist.** Ecologist mitigation to be included on all excavation permits (where relevant to the works)

WATERWAYS (OR POTENTIAL WATERWAYS):

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona sericea
	Aboriginal Heritage artefact		Austrostipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier – Nest (Confirmed)		State Heritage
	Square-tailed Kite		Scattered Paddock Tree
	Squirrel Glider		Land not surveyed (ecologically)
	Superb Parrot		Access/egress point
	Superb Parrot - Nesting		Public level crossing
	White-fronted Chat		Private level crossing
	Spill kit		Bridge point
	Chainage		Stock crossing
	START/END fence line		Culvert point

Erosion and Sediment Controls (ESC):

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
 - ERSED controls have been included on the SEPs in areas where potential ERSED risks are anticipated. Additional ERSED control equipment will be available to site teams if required. The orientation and position of ERSED controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).
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 - All temporary stockpiling of materials will take place away from drainage lines and creeks.
 - Geotechnical excavation will be backfilled by excess soil.
 - Water will not be discharged or pumped off-site or to drains. For any water discharge, the Environment Team must be contacted immediately (for water testing methodology for removal i.e. vacuum truck or to re-use on site).
 - Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
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 - Water will be used for dust suppression as required.

Monitoring of ESC:

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

INDIGENOUS SURVEY ZONES +25m:

No ground disturbance activities to commence prior to heritage endorsement of works

- Walking permitted
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UNSURVEYED LANDS:

No activities to commence prior to endorsement of works by an ecologist.

TEC ZONES OR TEC HABITAT:

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WATERWAYS (OR POTENTIAL WATERWAYS):

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)



Legend	Map
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp.
	Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Setostegia Wakoolica, Swainsona murayanae
	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically sensitive)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

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Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp.
	Sensitive area		Wybong
	Proposed fencing		Flora - Diuris Tricolor
	CIZ boundary		Flora - Cullen Parvum
	Aboriginal Heritage artefact		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Black Falcon		Stipa Wakoolica, Swainsona Murrayana
	Brown Treecreeper		Ammobium craspedioides
	Diamond Firetail		Acacia ausfeldii
	Dusk Woodswallow		Habitat connectivity
	Flame Robin		Stream (incl. ephemeral)
	Grey-crowned Babbler		Grey Box (E. macrocarpa)
	Little Eagle		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle – Nest (Confirmed)		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

Erosion and Sediment Controls (ESC):

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 - Water will be used for dust suppression as required.
- Monitoring of ESC:**
- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

INDIGENOUS SURVEY ZONES +25m:

No ground disturbance activities to commence prior to heritage endorsement of works

- Walking permitted
- Driving on existing vehicle tracks only

UNSURVEYED LANDS:

No activities to commence prior to endorsement of works by an ecologist.

TEC ZONES OR TEC HABITAT:

No ground disturbance activities to commence prior to endorsement of works by ecologist. Ecologist mitigation to be included on all excavation permits (where relevant to the works).

WATERWAYS (OR POTENTIAL WATERWAYS):

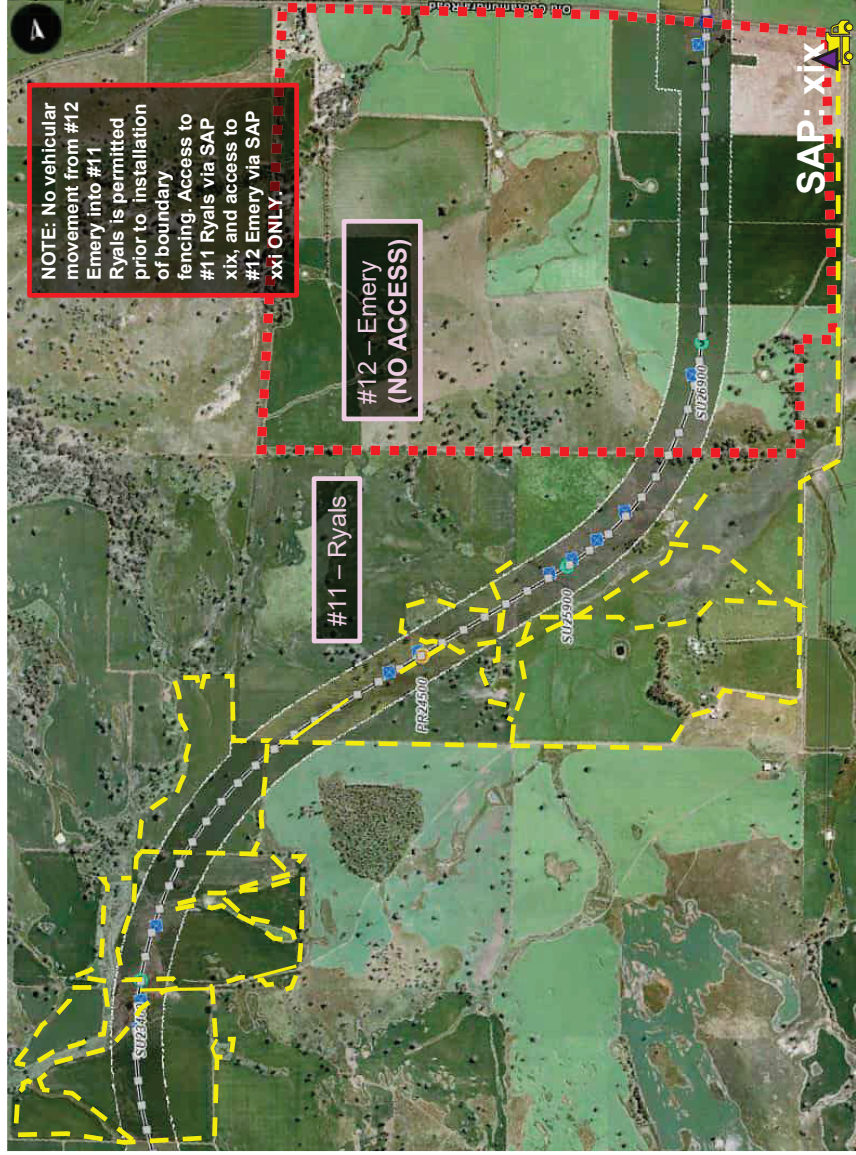
- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)

Site Access

This access map is for access to #11 Charlie Ryals:
SEP 24
SEP 25
SEP 26
SEP 27
SEP 28

SAP: xix

For access to #12 Nigel Emery, please refer to the next slide.



Erosion and Sediment Controls (ESC): - All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004. - ERSED controls have been included on the SEPs in areas where potential ERSED control equipment will be available to site teams if required. The orientation and position of ERSED controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.). - The following ESC are implemented for the project site: - Appropriate ESC (e.g. geofabric) to be placed over stormwater/rail corridor drains (as required – if works have potential to impact). - All temporary stockpiling of materials will take place away from drainage lines and creeks. - Geotechnical excavation will be backfilled by excess soil. - Water will not be discharged or pumped off-site or to drains. For any water discharge, the Environment Team must be contacted immediately (for water testing methodology for removal i.e. vacuum truck or to re-use on site). - Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control. - ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion. - All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriately licenced facility. - Stockpiles not to exceed 2 metres in height. - Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulka Bags' or covered skip bins (cover is essential for preventing ingress of rainwater). - Where stockpiles are to be established overnight, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation. - Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile. - Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014). - Water will be used for dust suppression as required. Monitoring of ESC: - Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).	INDIGENOUS SURVEY ZONES +25m: No ground disturbance activities to commence prior to heritage endorsement of works - Walking permitted - Driving on existing vehicle tracks <i>only</i> UNSURVEYED LANDS: No activities to commence prior to endorsement of works by an ecologist.
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This access

access to

Emery:

SEP 29

SAP: xxi



SAP: 6 South

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban

- Stormwater, Volume 1, 4th Edition, March 2004.
- ERSED controls have been included on the SEPs in areas where potential ERSERD risks are anticipated. Additional ERSERD control equipment will be available to site teams if required. The orientation and position of ERSERD controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).
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Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp.
	Sensitive area		Wybong Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona acutifolia, Wakoolica, Swainsona Murrayanaa
	Aboriginal Heritage artefact		Ammobium craspedioides
	Black Falcon		Acacia ausfeldii
	Brown Treecreeper		Habitat connectivity
	Diamond Firetail		Stream (incl. ephemeral)
	Dusk Woodswallow		Grey Box (E. macrocarpa)
	Flame Robin		White-Box-Yellow Box-Blakely's Red
	Grey-crowned Babbler		Receivers
	Little Eagle		Indigenous Survey Zones
	Little Eagle – Nest (Confirmed)		Local Heritage
	Spotted Harrier		State Heritage
	Spotted Harrier – Nest (Confirmed)		Scattered Paddock Tree
	Square-tailed Kite		Land not surveyed (ecological)
	Squirrel Glider		Access/egress point
	Superb Parrot		Public level crossing
	Superb Parrot - Nesting		Private level crossing
	White-fronted Chat		Bridge point
	Spill kit		Stock crossing
	Chainage		Culvert point
	START/END fence line		

Erosion and Sediment Controls (ESC):

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Monitoring of ESC:

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INDIGENOUS SURVEY ZONES +25m:

No ground disturbance activities to commence prior to heritage endorsement of works

- Walking permitted
- Driving on existing vehicle tracks only

UNSURVEYED LANDS:

No activities to commence prior to endorsement of works by an ecologist.

TEC ZONES OR TEC HABITAT:

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WATERWAYS (OR POTENTIAL WATERWAYS):

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Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Scilla sp., Stipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

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INDIGENOUS SURVEY ZONES +25m:

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 - Walking permitted
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- UNSURVEYED LANDS:
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WATERWAYS (OR POTENTIAL WATERWAYS):

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Property #13 – McClintock



Legend

Symbol	Feature
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot – Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis oblicis, Indigofera efoliata, Swainsona
	Leptocarpus Wakoocica, Swainsona
	Murrayanaa
	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blackely's Red Box
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically important)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

Erosion and Sediment Controls (ESC):

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
- EROSD controls have been included on the SEPs in areas where potential EROSD risks are anticipated. Additional EROSD control equipment will be available to site teams if required. The orientation and position of EROSD controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).

The following ESC are implemented for the project site:

- Appropriate ESC (e.g. geofabric) to be placed over stormwater/rail corridor drains (as required – if works have potential to impact).
- All temporary stockpiling of materials will take place away from drainage lines and creeks.
- Geotechnical excavation will be backfilled by excess soil.
- Water will not be discharged or pumped off-site or to drains. For any water discharge, the Environment Team must be contacted immediately (for water testing methodology for removal i.e. vacuum truck or to re-use on site).
- Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
- ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
- All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriately licenced facility.
- Stockpiles not to exceed 2 metres in height.
- Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulk Bags' or covered skip bins (cover is essential for preventing ingress of rainwater).
- Where stockpiles are to be established overnight, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation.
- Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
- Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
- Water will be used for dust suppression as required.

Monitoring of ESC:

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period)

INDIGENOUS SURVEY ZONES +25m:

- No ground disturbance activities to commence prior to heritage endorsement of works**
- Walking permitted
 - Driving on existing vehicle tracks *only*
- UNSURVEYED LANDS:**
- No activities to commence prior to endorsement of works by an ecologist.**

TEC ZONES OR TEC HABITAT:

- No ground disturbance activities to commence prior to endorsement of works by ecologist.** Ecologist mitigation to be included on all excavation permits (where relevant to the works)

WATERWAYS (OR POTENTIAL WATERWAYS):

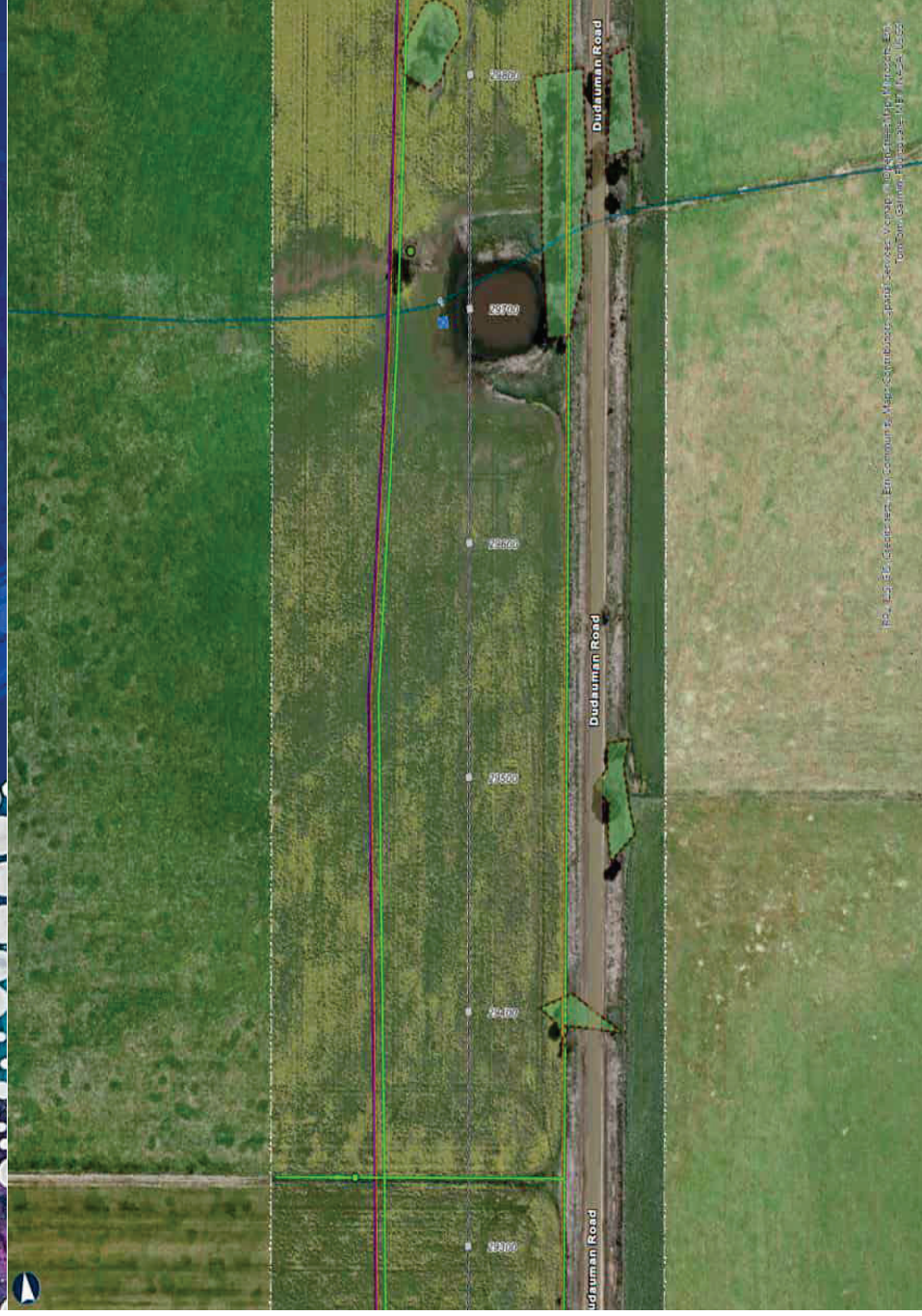
- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)

Site Environmental Plan (SEP 13)

Site Access Point: 6

Property #13 – McClintock

**JOHN
HOLLAND**



Legend

Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Setigera, Stipa Wakoolica, Swainsona
	Murrayanana
	Annmobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

Erosion and Sediment Controls (ESC):

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
- ERSed controls have been included on the SEPs in areas where potential ERSed risks are anticipated. Additional ERSed control equipment will be available to site teams if required. The orientation and position of ERSed controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).

The following ESC are implemented for the project site:

- Appropriate ESC (e.g. geofabric) to be placed over stormwater/rail corridor drains (as required – if works have potential to impact),
- All temporary stockpiling of materials will take place away from drainage lines and creeks.
- Geotechnical excavation will be backfilled by excess soil.
- Water will not be discharged or pumped off-site or to drains. For any water discharge, the Environment Team must be contacted in use on site).

- Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
- ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
- All soil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriately licenced facility.
- Stockpiles not to exceed 2 metres in height.
- Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulka Bags' or cover bins
 - (cover is essential for preventing ingress of rainwater).
- Where stockpiles are to be established overnight, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation.
- Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
- Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
- Water will be used for dust suppression as required.

Monitoring of ESC:

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period)

INDIGENOUS SURVEY ZONES +25m:

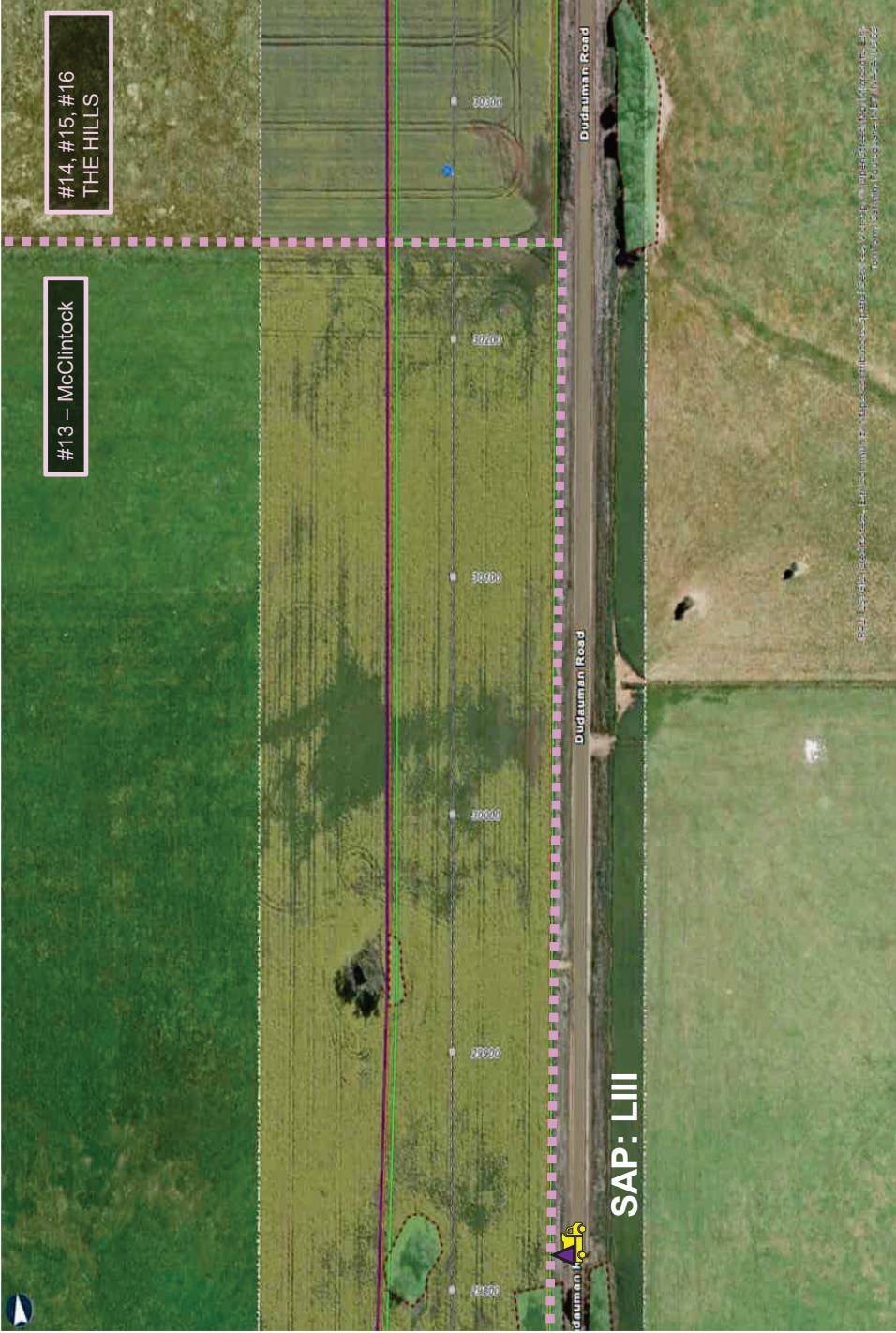
- No ground disturbance activities to commence prior to heritage endorsement of works**
- Walking permitted
 - Driving on existing vehicle tracks *only*
- UNSURVEYED LANDS:**
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TEC ZONES OR TEC HABITAT:

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WATERWAYS (OR POTENTIAL WATERWAYS):

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp.
	Sensitive area		Wybong
	Proposed fencing		Flora - Diuris Tricolor
	CIZ boundary		Flora - Cullen Parvum
	Aboriginal Heritage artefact		Caladenia arenaria, Eleocharis obolis, Indigofera efoliata, Swainsona
	Black Falcon		Setigera stipa Wakoolica, Swainsona Murrayana
	Brown Treecreeper		Ammobium craspedioides
	Diamond Firetail		Acacia ausfeldii
	Dusk Woodswallow		Habitat connectivity
	Flame Robin		Stream (incl. ephemeral)
	Grey-crowned Babbler		Grey Box (E. macrocarpa)
	Little Eagle		White-Box-Yellow Box-Blakely's Red
	Little Eagle – Nest (Confirmed)		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecological)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

Erosion and Sediment Controls (ESC):

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
 - ERSED controls have been included on the SEPs in areas where potential ERSED risks are anticipated. Additional ERSED control equipment will be available to site teams if required. The orientation and position of ERSED controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).
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 - Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
 - ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
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 - Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
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- Monitoring of ESC:**
- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

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Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis oblics, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Scirpus stipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobitum craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point



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Site Environmental Plan (SEP 13)

Site Access Point: 7, LI

Property #14, #15, #16 Hills

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obdita, Indigofera efoliata, Swainsona sericea
	Aboriginal Heritage artefact		Austrostipa Wakoolica, Swainsona Murrayanaa
	Black Falcon		Annobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blackely's Red Gum
	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier – Nest (Confirmed)		State Heritage
	Square-tailed Kite		Scattered Paddock Tree
	Squirrel Glider		Land not surveyed (ecologically)
	Superb Parrot		Access/egress point
	Superb Parrot - Nesting		Public level crossing
	White-fronted Chat		Private level crossing
	Spill kit		Bridge point
	Chainage		Stock crossing

START/END OF WORKS

INDIGENOUS SURVEY ZONES +25m:

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- No activities to commence prior to endorsement of works by an ecologist.

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Monitoring of ESC:

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Site Environmental Plan (SEP 13)

Site Access Point: 7, LI

Property #14, #15, #16 Hills

#14, #15, #16
THE HILLS

#14, #15, #16 THE HILLS



Legend

Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obliqua, Indigofera efoliata, Swainsona sericea
	Austrostipa Wakoolica, Swainsona
	Murrayanana
	Ammobium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
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- Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
- ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
- All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriate facility.
- Stockpiles not to exceed 2 metres in height.
- All material delivered to site or excavated material to be reused, as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be used for other purposes if approved by the relevant authority.

bins
(cover is essential for preventing ingress of rainwater).

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Monitoring of ESC:

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**JOHN
HOLLAND**

INDIGENOUS SURVEY ZONES +25m:

No ground disturbance activities to commence prior to heritage endorsement of works

- Walking permitted
- Driving on existing vehicle tracks only

UNSURVEYED LANDS:

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TEC ZONES OR TEC HABITAT:

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WATERWAYS (OR POTENTIAL WATERWAYS):

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obliqua, Indigofera efoliata, Swainsona secunda
	Aboriginal Heritage artefact		Setostipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
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	Spill kit		Bridge point
	Chainage		Stock crossing
	START/END fence line		Culvert point

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 - Water will be used for dust suppression as required.

Monitoring of ESC:

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

INDIGENOUS SURVEY ZONES +25m:

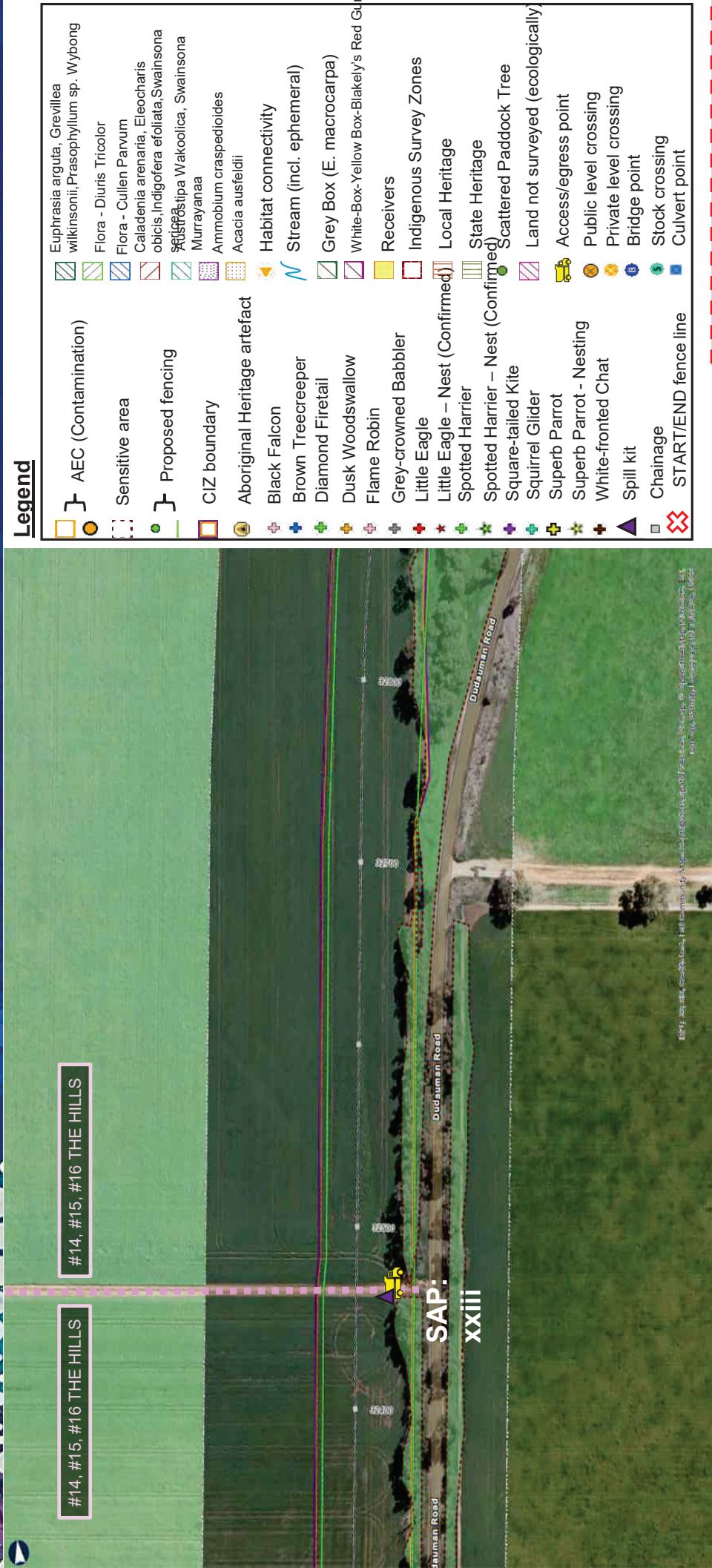
- No ground disturbance activities to commence prior to heritage endorsement of works
 - Walking permitted
 - Driving on existing vehicle tracks only
- UNSURVEYED LANDS:
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TEC ZONES OR TEC HABITAT:

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WATERWAYS (OR POTENTIAL WATERWAYS):

- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)



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 - Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
 - ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
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 - Stockpiles not to exceed 2 metres in height.
 - Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulka Bags' or covered skip bins (cover is essential for preventing ingress of rainwater).
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Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Seligeria, Wakoolia, Swainsona
	Black Falcon		Murrayana
	Brown Treecreeper		Ammobium craspedioides
	Diamond Firetail		Acacia ausfeldii
	Dusky Woodswallow		Habitat connectivity
	Flame Robin		Stream (incl. ephemeral)
	Grey-crowned Babbler		Grey Box (E. macrocarpa)
	Little Eagle		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle - Nest (Confirmed)		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier - Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

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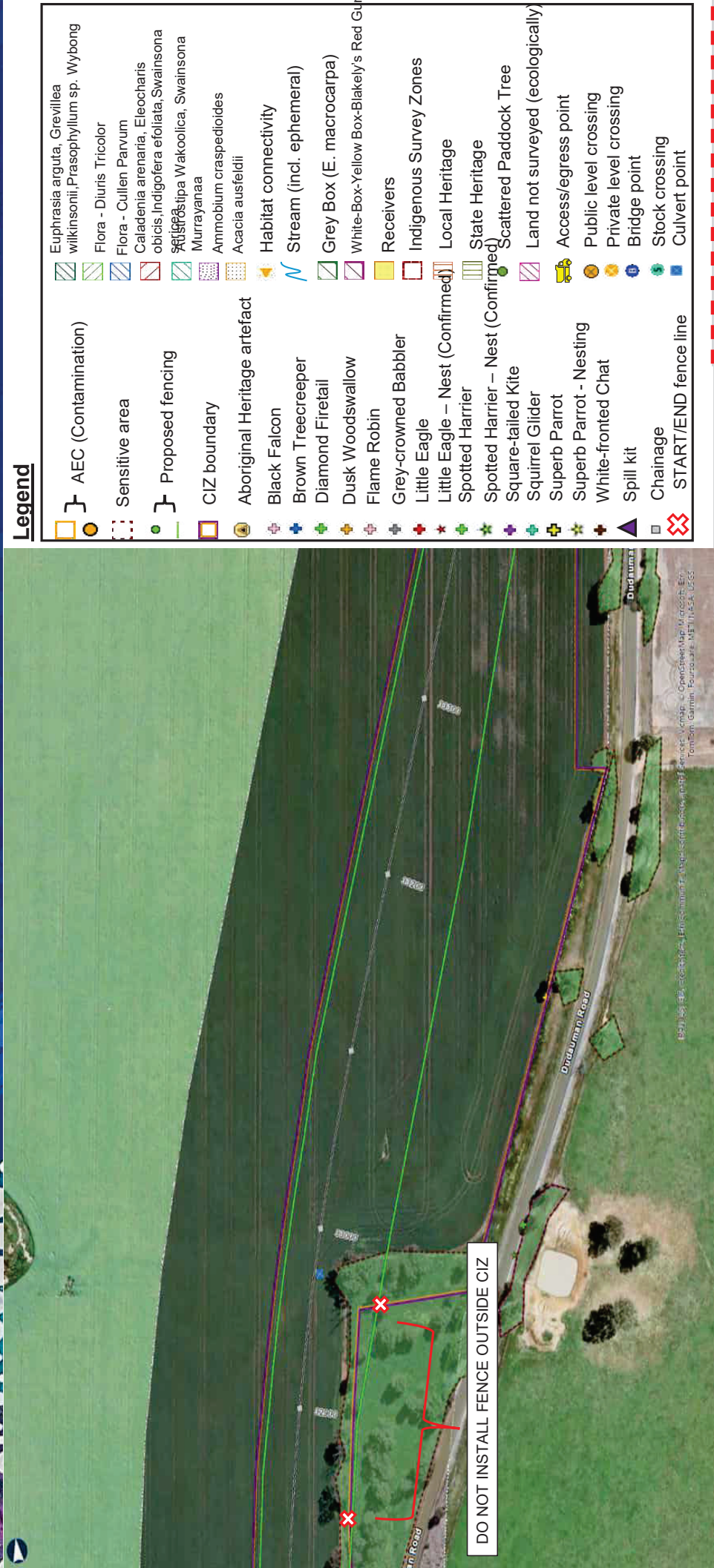
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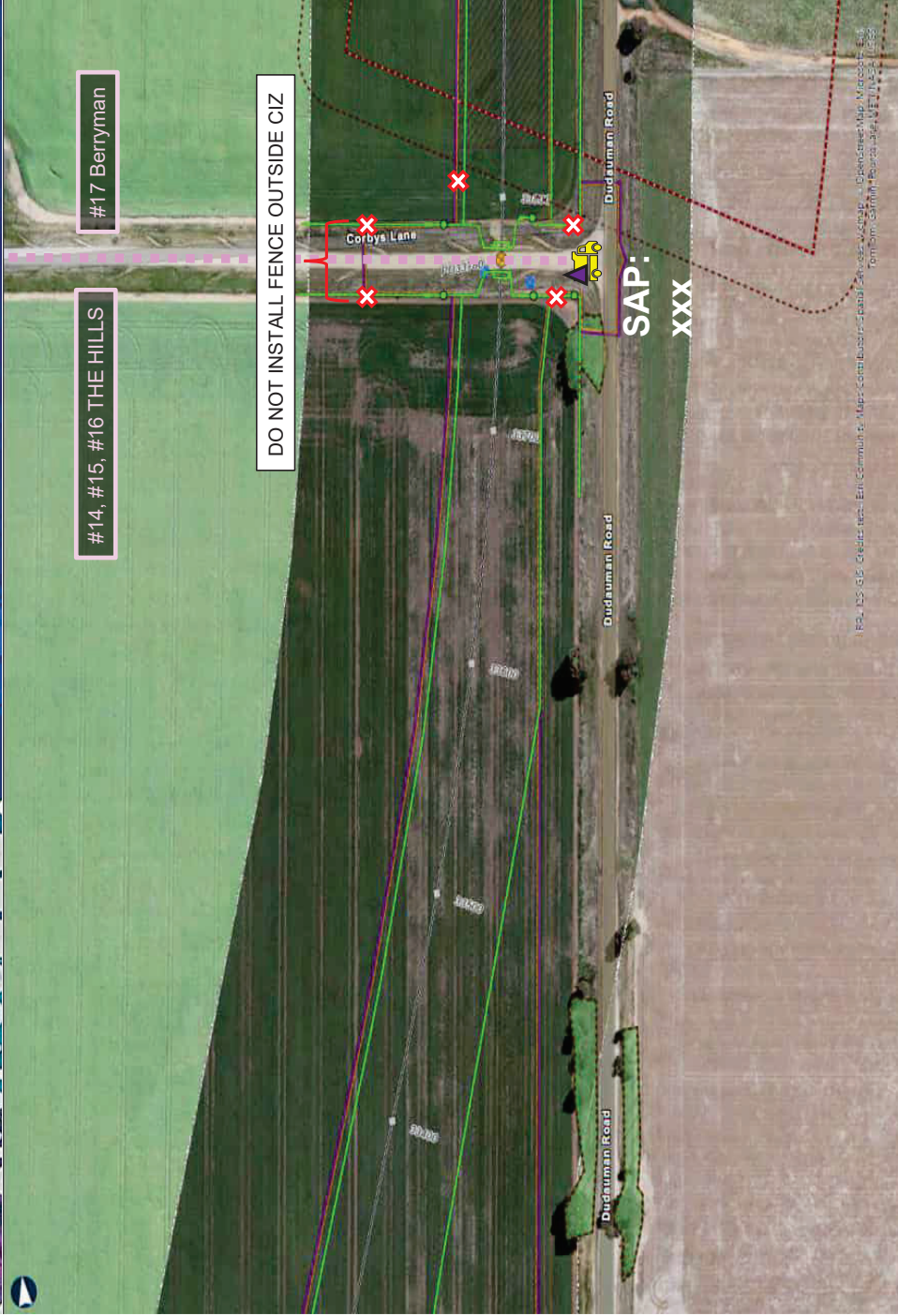
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Site Environmental Plan (SEP 13)

Site Access Point: xxx

Property #14, #15, #16 Hills, #17 Berryman

JOHN
HOLLAND



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Legend

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	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Styphelia, Wakoolia, Swainsona
	Black Falcon		Murrayana
	Brown Treecreeper		Ammobium craspedioides
	Diamond Firetail		Acacia ausfeldii
	Dusk Woodswallow		Habitat connectivity
	Flame Robin		Stream (incl. ephemeral)
	Grey-crowned Babbler		Grey Box (E. macrocarpa)
	Little Eagle		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle - Nest (Confirmed)		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier - Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

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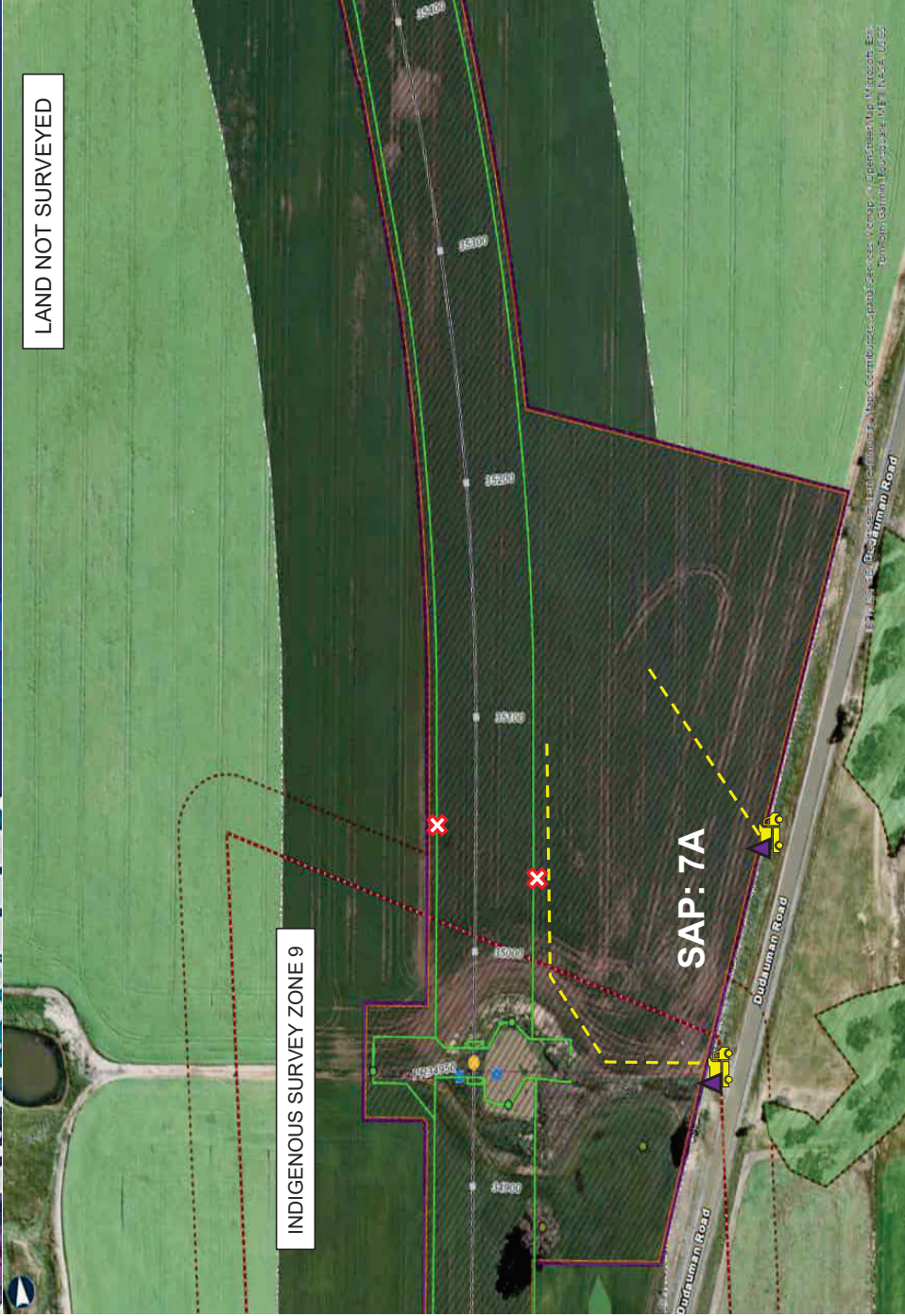
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Legend

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	Black Falcon		Setigera Wakoolica, Swainsona Murrayana
	Brown Treecreeper		Murrayana
	Diamond Firetail		Ammobium craspedioides
	Dusk Woodswallow		Acacia ausfeldii
	Flame Robin		Habitat connectivity
	Grey-crowned Babbler		Stream (incl. ephemeral)
	Little Eagle		Grey Box (E. macrocarpa)
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	Spotted Harrier		Receivers
	Spotted Harrier – Nest (Confirmed)		Indigenous Survey Zones
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Site Environmental Plan (SEP 13)
Site Access Point: 7A
Property #17 – Berryman, #18 – Kepreotes/Hill

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp.
	Sensitive area		Wybong Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Sagittaria Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier – Nest (Confirmed)		State Heritage
	Square-tailed Kite		Scattered Paddock Tree
	Squirrel Glider		Land not surveyed (ecologically)
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	Superb Parrot - Nesting		Public level crossing
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Site Access Point: 7A
Property #18 – Kepreotes/Hill

JOHN
HOLLAND



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- Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)

JOHN
LÄND

- INDIGENOUS SURVEY ZONES +25m:**
 - No ground disturbance activities to commence prior to heritage endorsement of works
 - Walking permitted
 - Driving on existing vehicle tracks only
- UNSURVEYED LANDS:**
 - No activities to commence prior to **endorsement of works by an ecologist**.
- TEC ZONES OR TEC HABITAT:**
 - No ground disturbance activities to commence prior to **endorsement of works by ecologist**. Ecologist mitigation to be included on all excavation permits (where relevant to the works).
- WATERWAYS (OR POTENTIAL WATERWAYS):**
 - Vehicles may only proceed following an assessment of on-site conditions (i.e. high risk of erosion, >20mm of rainfall in 24h, change to existing flow path)

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
- EROSED controls have been included on the SEPs in areas where potential EROSED risks are anticipated. Additional EROSED control equipment will be available to site teams if required. The orientation and position of EROSED controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).

The following ESC are implemented for the project site:

- Appropriate ESC (e.g. geotabrics) to be placed over stormwater/fall corridor drains (as required – if works have potential to impact).
- All temporary stockpiling of materials will take place away from drainage lines and creeks.
- Geotechnical excavation will be backfilled by excess soil.
- Water will not be discharged or pumped off-site or to drains. For any water discharge, the Environment Team must be contacted immediately (for water testing methodology for removal i.e. vacuum truck or to re-use on site).
- Sediment control to be implemented in all laydown areas, specifically drains and gutters for stormwater control.
- ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
- All spoil generated as a result of hydraulic excavation will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriately licensed facility.
- Stockpiles not to exceed 2 metres in height.
- Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulk Bags' or covered skip bins
- (cover is essential for preventing ingress of rainwater).
- Where stockpiles are to be established overnight, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation.
- Where appropriate, geotabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
- Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
- Water will be used for dust suppression as required.

Monitoring of ESC:

Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

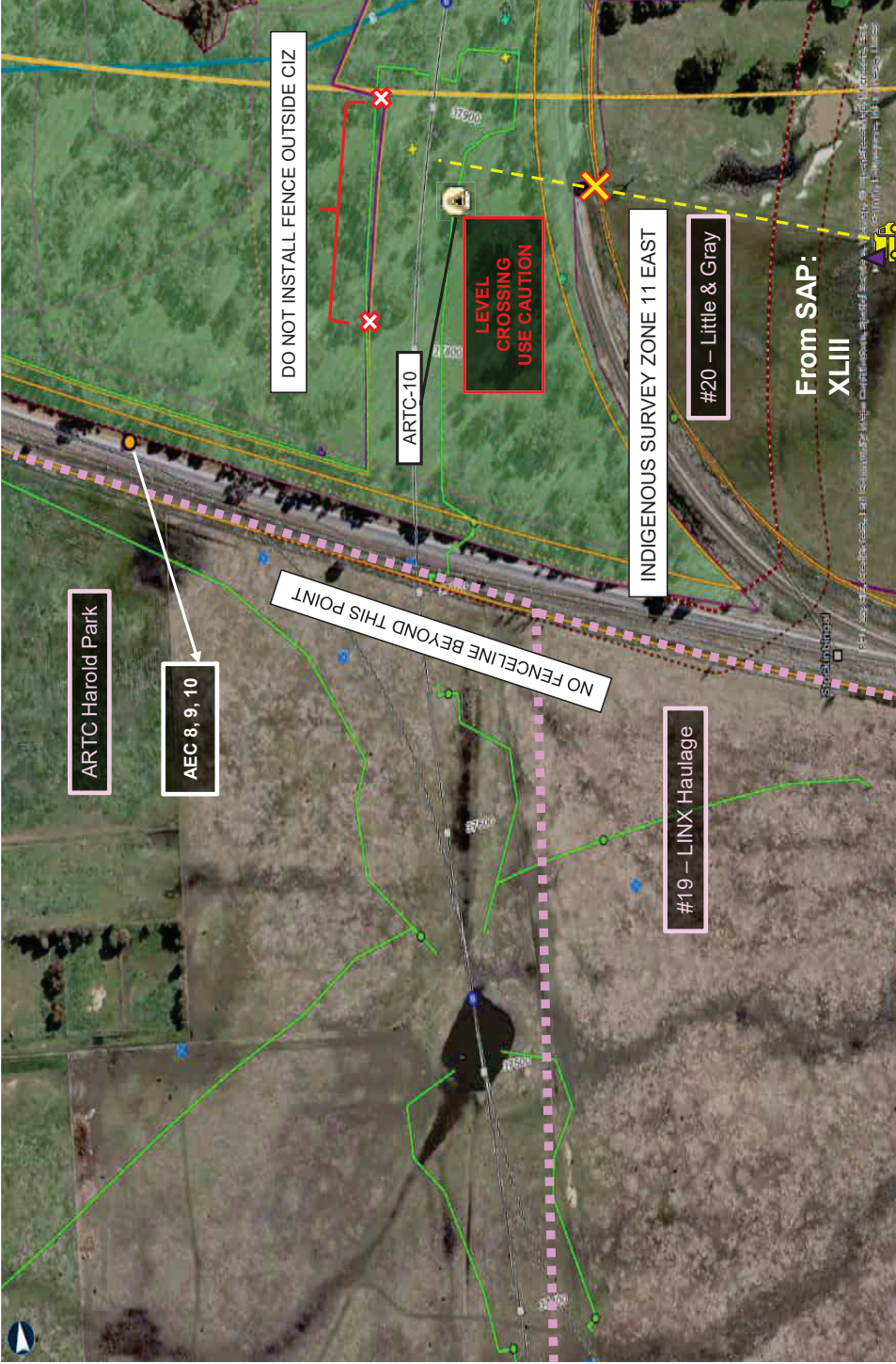
Site Environmental Plan (SEP 13)

Site Access Point: XLIII

Property ARTC Harold Park, #19 – LINX Haulage, #18 – Kepreotes/Hill,

#20 – Little & Gray

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp., Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Setostipa Wakoilica, Swainsona Murrayanaa
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia austfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Gray Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red
	Little Eagle		Receivers
	Little Eagle – Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier – Nest (Confirmed)		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecological)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

Mitigation for works within/around AEC:

AEC 8, 9, 10

- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure.
- Appropriate PPE will be worn as required, such as in dusty / high wind conditions, confined spaces or works likely to result in particulate inhalation.
- Do not disturb building and demolition waste (refer to AEC 7 if stockpiles of waste are identified).
- Ensure equipment is inspected, clean and contaminant free prior to leaving site.
- Double bag soil samples and label with "Warning this sample may contain asbestos fibers and fines"
- Do not disturb historic machinery.



- Erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
- ERSED controls have been included on the SEPs in areas where potential ERSED risks are anticipated. Additional ERSED control equipment will be available to site teams if required. The orientation and position of ERSED controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).

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Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CLZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Scilla stipitata, Wakoolica, Swainsona
	Murrayana
	Ammobium craspedioides
	Acacia austfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's Red Gum
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
	Land not surveyed (ecologically)
	Access/egress point
	Public level crossing
	Private level crossing
	Bridge point
	Stock crossing
	Culvert point

- Erosion and Sediment Controls (ESC):**
- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
 - ERSERD controls have been included on the SEPs in areas where potential ERSERD risks are anticipated. Additional ERSERD control equipment will be available to site teams if required. The orientation and position of ERSERD controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).
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 - Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
 - Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
 - Water will be used for dust suppression as required.
- Monitoring of ESC:**
- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

Mitigation for works within/around AEC:

AEC 8, 9, 10

- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure.
- Appropriate PPE will be worn as required, such as in dusty / high wind conditions, confined spaces or works likely to result in particulate inhalation.
- Do not disturb building and demolition waste (refer to AEC 7 if stockpiles of waste are identified).
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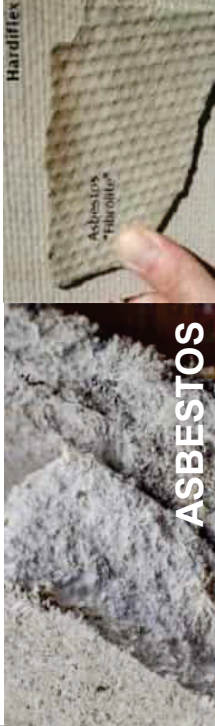
Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Setostipa Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gum
	Little Eagle		Receivers
	Little Eagle - Nest (Confirmed)		Indigenous Survey Zones
	Spotted Harrier		Local Heritage
	Spotted Harrier - Nest (Confirmed)		State Heritage
	Square-tailed Kite		Scattered Paddock Tree
	Squirrel Glider		Land not surveyed (ecologically)
	Superb Parrot		Access/egress point
	Superb Parrot - Nesting		Public level crossing
	White-fronted Chat		Private level crossing
	Spill kit		Bridge point
	Chainage		Stock crossing
	START/END fence line		Culvert point

- Erosion and Sediment Controls (ESC):**
- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
 - ERSED controls have been indicated on the SEPs in areas where potential ERSED risks are anticipated. Additional ERSED control equipment will be available to site teams if required. The orientation and position of ERSED controls indicated in maps must be determined appropriately on site (i.e. downslope of work activity, covering a drain, etc.).
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- Monitoring of ESC:**
- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

Mitigation for works within/around AEC:

- AEC 1 and 2**
- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure.
 - Appropriate PPE will be worn as required, such as in dusty / high wind conditions, confined spaces or works likely to result in particulate inhalation. Do not disturb building and demolition waste (refer to AEC 7 if stockpiles of waste are identified).
 - Ensure equipment is inspected, clean and contaminant free prior to leaving site.
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 - Do not disturb historic machinery.





	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybhong
	Sensitive area		Flora - Diuris Tricolor
			Flora - Cullen Parvum
	Proposed fencing		Caladenia arenaria, Eleocharis oblicis, Indigofera efoliata, Swainsona
			Acacia baileyana, Wakoocia, Swainsona
	CIZ boundary		Murrayana
	Aboriginal Heritage artefact		Ammobium craspedioides
			Acacia ausfeldii
	Black Falcon		Habitat connectivity
	Brown Treecreeper		Stream (incl. ephemeral)
	Diamond Firetail		Grey Box (E. macrocarpa)
	Dusk Woodswallow		White-Box-Yellow Box-Blackely's Red G
	Flame Robin		Receivers
	Grey-crowned Babbler		Indigenous Survey Zones
	Little Eagle		Local Heritage
	Little Eagle – Nest (Confirmed)		State Heritage
	Spotted Harrier		Scattered Paddock Tree
	Spotted Harrier – Nest (Confirmed)		Land not surveyed (ecologically sensitive)
	Square-tailed Kite		Access/egress point
	Squirrel Glider		Public level crossing
	Superb Parrot		Private level crossing
	Superb Parrot - Nesting		Bridge point
	White-fronted Chat		Stock crossing
	Spill kit		Culvert point
	Chainage		

- All erosion and sediment controls are to follow the requirements of the Blue Book Managing Urban Stormwater, Volume 1, 4th Edition, March 2004.
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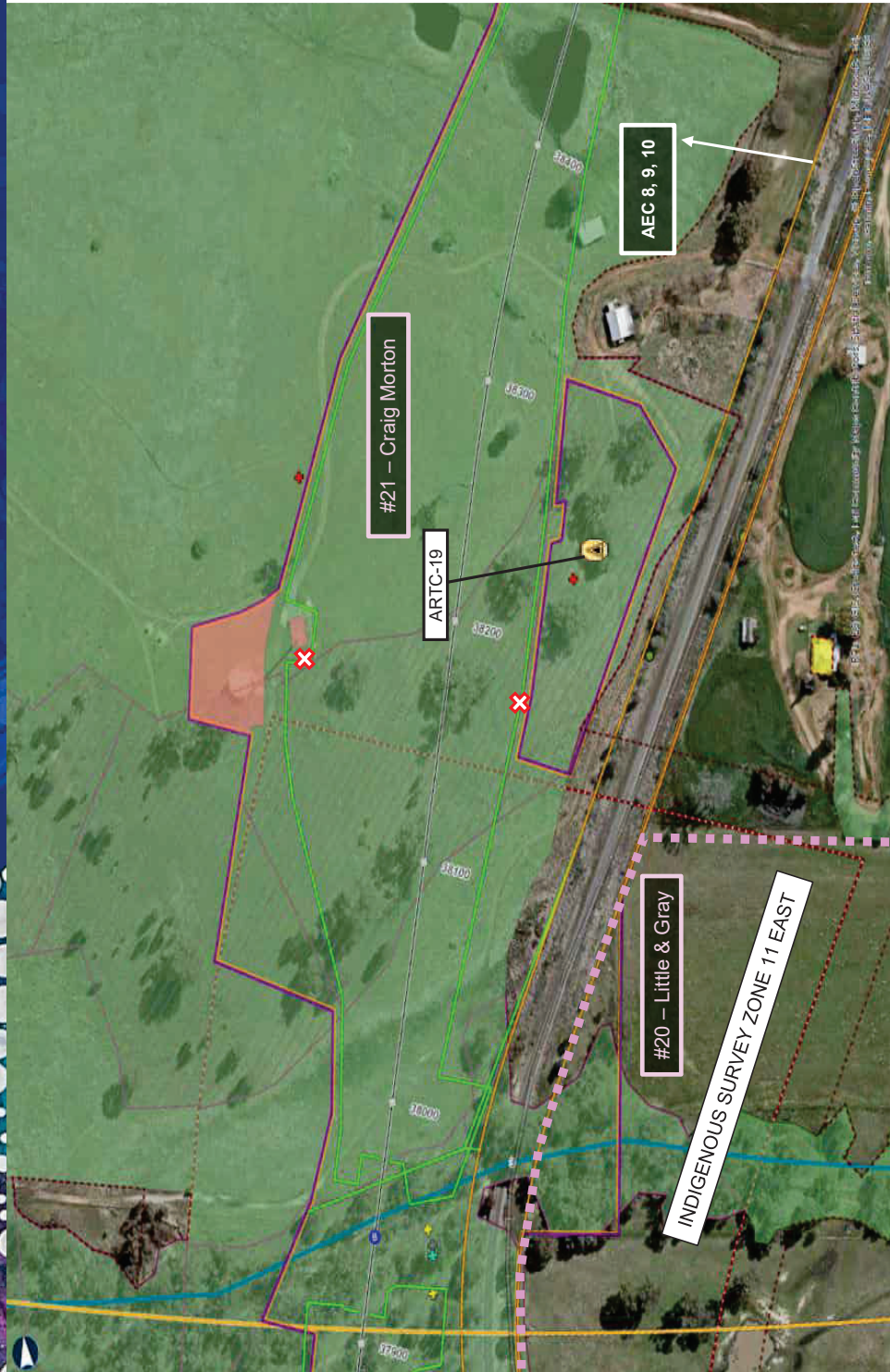
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AEC 8, 9, 10

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Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CI/2 boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
	Squirrel Glider
	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Culvert point
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis obicis, Indigofera affolata, Swainsona sericea, Swainsona murrayana, Ammobium craspedioides, Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blakely's R
	Receivers
	Indigenous Survey Zones
	Medical Heritage
	State Heritage
	Scattered Paddock Tree
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	Access/egress point
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AEC 8, 9, 10

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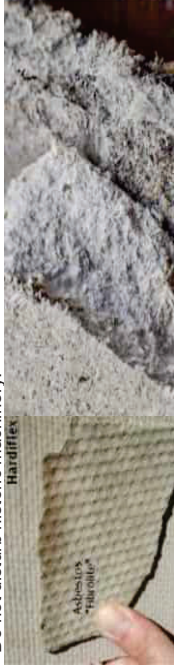
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- ESC to be in place on the downward side of stockpiles. All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion.
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- Stockpiles not to exceed 2 metres in height.
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- Where stockpiles are to be established overnight, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation.
- Where appropriate, geotabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
- Groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014).
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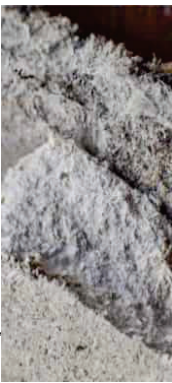
Monitoring of ESC:

- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

Mitigation for works within/around AEC:

AEC 8, 9, 10

- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure.
- Appropriate PPE will be worn as required, such as in dusty / high wind conditions, confined spaces or works likely to result in particulate inhalation.
- Do not disturb building and demolition waste (refer to AEC 7 if stockpiles of waste are identified).
- Ensure equipment is inspected, clean and contaminant free prior to leaving site.
- Double bag soil samples and label with "Warning this sample may contain asbestos fibers and fines"
- Do not disturb historic machinery.





Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CLZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Aboriginal Heritage artefact		Acacia ausfeldii
	Black Falcon		Habitat connectivity
	Brown Treecreeper		Stream (incl. ephemeral)
	Diamond Firetail		Grey Box (E. macrocarpa)
	Dusk Woodswallow		White-Box-Yellow Box-Blakely's Red Gum
	Flame Robin		Receivers
	Grey-crowned Babbler		Indigenous Survey Zones
	Little Eagle		Local Heritage
	Little Eagle – Nest (Confirmed)		State Heritage
	Spotted Harrier		Scattered Paddock Tree
	Spotted Harrier – Nest (Confirmed)		Land not surveyed (ecologically)
	Square-tailed Kite		Access/egress point
	Squirrel Glider		Public level crossing
	Superb Parrot		Private level crossing
	Superb Parrot - Nesting		Bridge point
	White-fronted Chat		Stock crossing
	Spill kit		Culvert point
	Chainage		START/END fence line

Mitigation for works within/around AEC:

AEC 8, 9, 10

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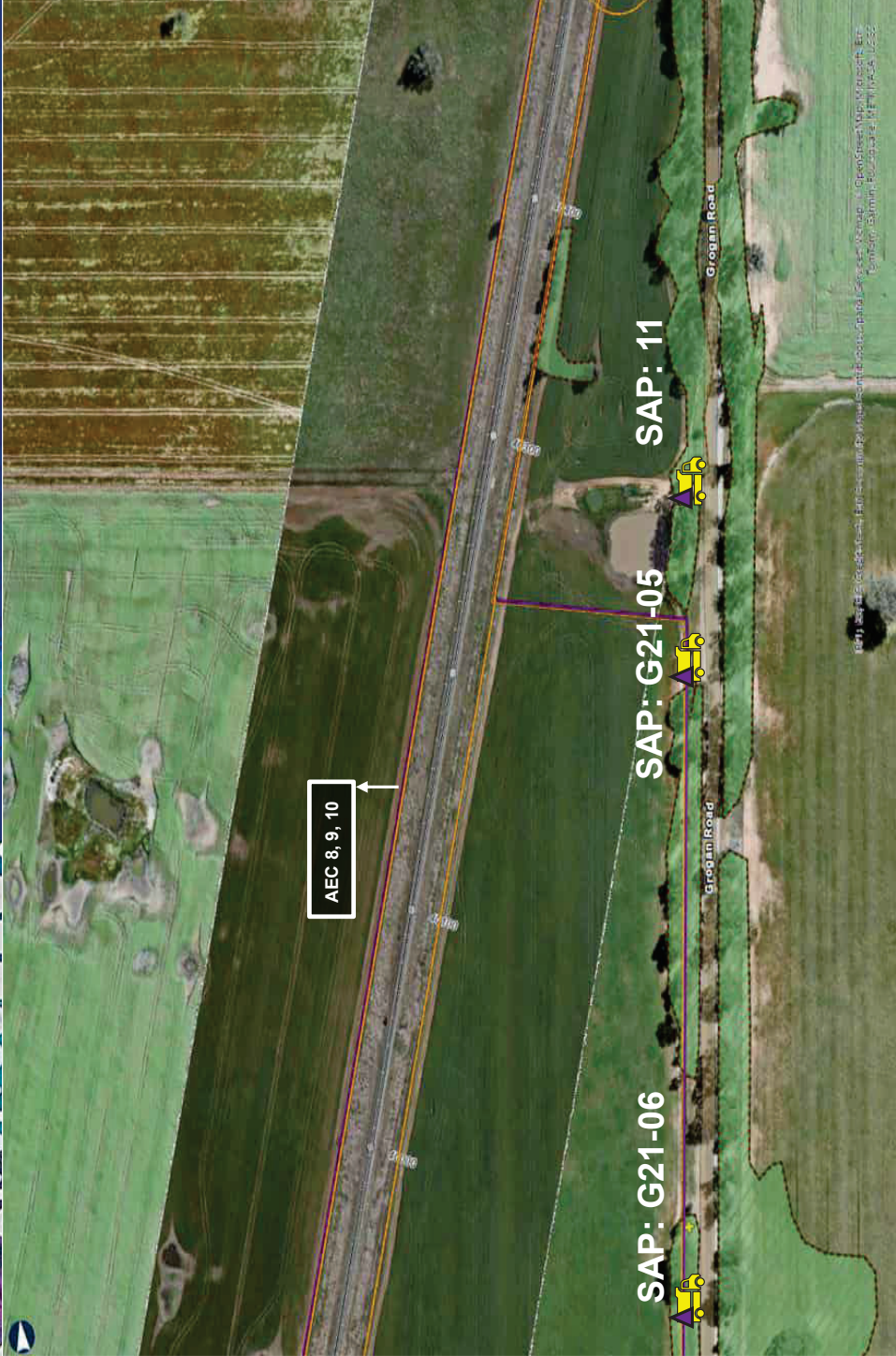
- Erosion and Sediment Controls (ESC):**
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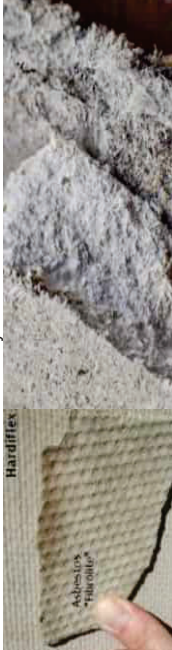
Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp.
			Wybong
			Flora - Diuris Tricolor
	Sensitive area		Flora - Cullen Parvum
			Caladenia arenaria, Eleocharis oblicis, Indigofera efoliata, Swainsona
	Proposed fencing		Setiglossa Wakoolica, Swainsona Murrayanaa
			Ammobium craspedioides
	CIZ boundary		Acacia ausfeldii
	Aboriginal Heritage artefact		Habitat connectivity
			Stream (incl. ephemeral)
	Black Falcon		Grey Box (E. macrocarpa)
	Brown Treecreeper		White-Box-Yellow Box-Blakely's Reg
	Diamond Firetail		Receivers
	Dusk Woodswallow		Indigenous Survey Zones
	Flame Robin		Little Eagle
	Grey-crowned Babbler		Little Eagle – Nest (Confirmed)
			Spotted Harrier
			Spotted Harrier – Nest (Confirmed)
			Square-tailed Kite
			Squirrel Glider
			Superb Parrot
			Superb Parrot - Nesting
			White-fronted Chat
			Spill kit
			Chainage
			START/END fence line
			Stock crossing
			Culvert point

Mitigation for works within/around AEC:

AEC 8, 9, 10

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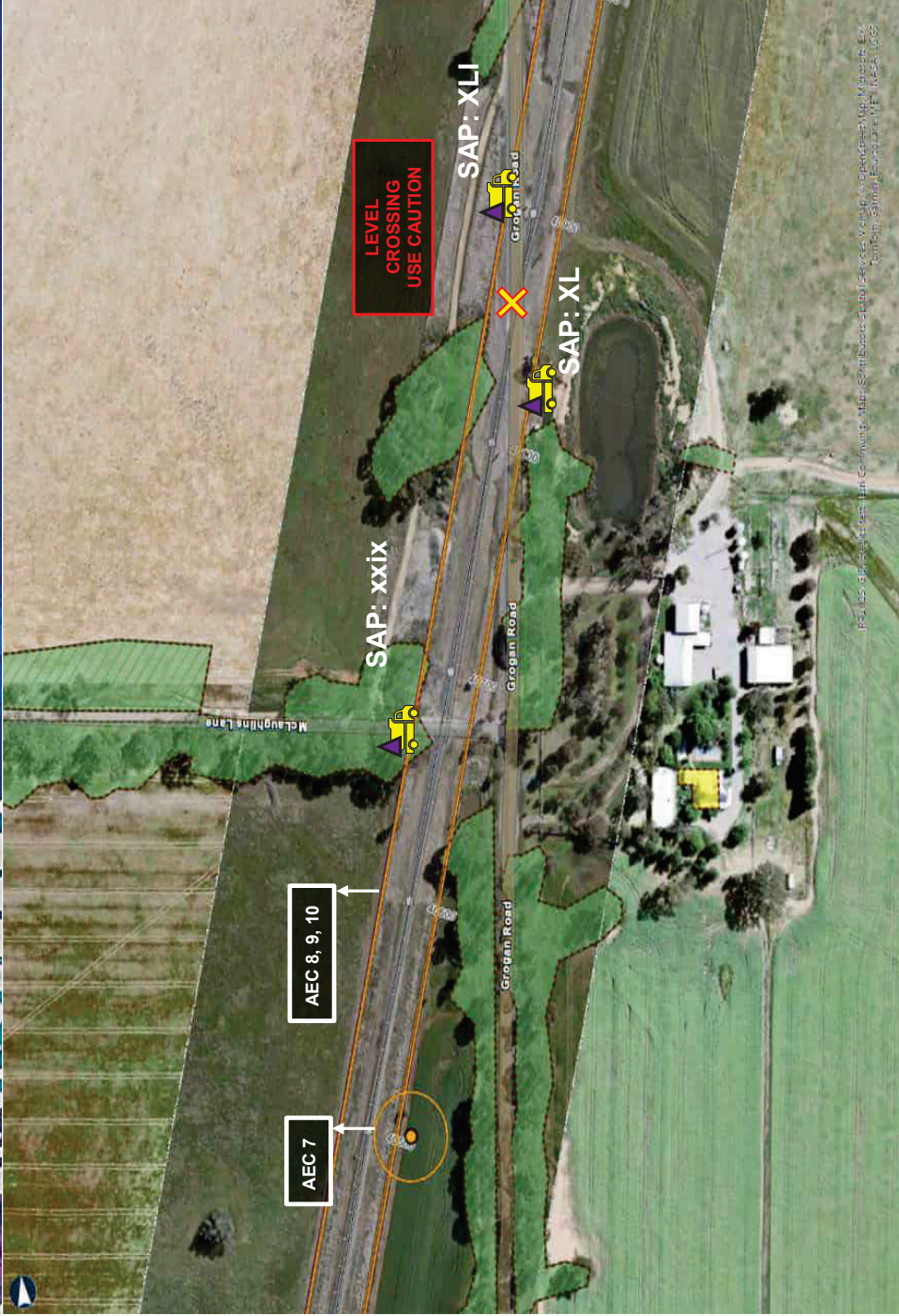


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Mitigation for works within/around AEC:

- AEC 8, 9, 10**
- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure.
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AEC 7

- If visual indicators are identified onsite, stop work immediately and implement the Unexpected Finds Procedure
- Appropriate PPE will be worn as required, such as in dusty / high wind conditions, confined spaces or works likely to result in particulate inhalation.
- Do not disturb building and demolition waste.
- Stockpiled material will not be moved until the contamination assessment has been completed.
- All stockpiles identified within the Project site will be delineated at a distance that is at least twice as wide as they are tall.
- Ensure equipment is inspected, clean and contaminant free prior to leaving site.
- Double bag soil samples and label with "Warning this sample may contain asbestos fibres and fines".

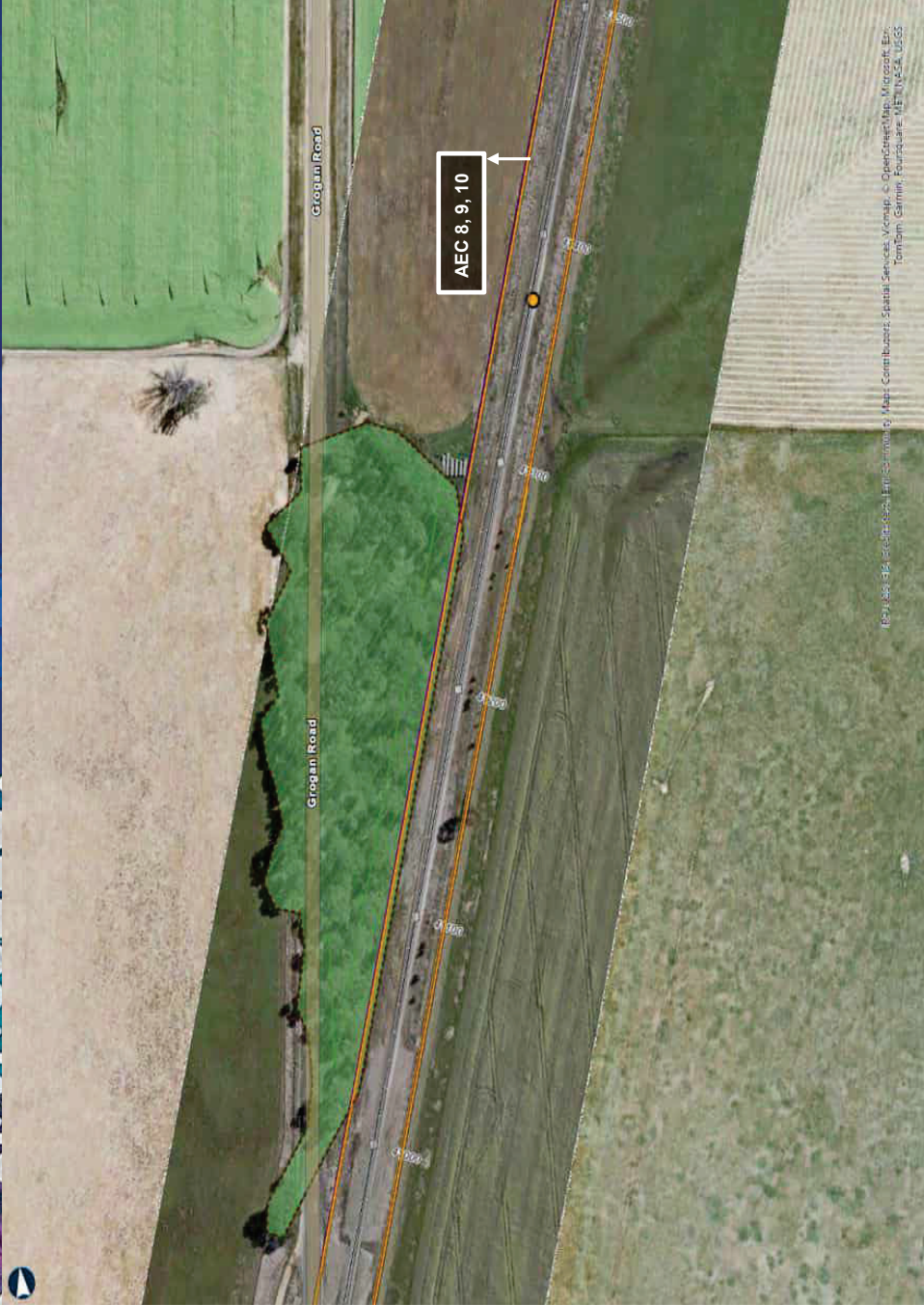
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 - Water will be used for dust suppression as required.
- Monitoring of ESC:**
- Periodic monitoring of the effectiveness of the ESC to be undertaken as part of environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>20mm in 24-hour period).

Site Environmental Plan (SEP 13)

Site Access Point: G21-06, G21-05, 11, XLI, xxix, XL

Property #21 – Craig Morton

JOHN
HOLLAND



Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp. Wybong
	Sensitive area		Flora - Diuris Tricolor
	Proposed fencing		Flora - Cullen Parvum
	CIZ boundary		Caladenia arenaria, Eleocharis obicis, Indigofera effoliata, Swainsona
	Aboriginal Heritage artefact		Setigera stipa, Wakoolica, Swainsona Murrayana
	Black Falcon		Ammobium craspedioides
	Brown Treecreeper		Acacia ausfeldii
	Diamond Firetail		Habitat connectivity
	Dusk Woodswallow		Stream (incl. ephemeral)
	Flame Robin		Grey Box (E. macrocarpa)
	Grey-crowned Babbler		White-Box-Yellow Box-Blakely's Red Gurr
	Little Eagle		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
	Square-tailed Kite		State Heritage
	Squirrel Glider		Scattered Paddock Tree
	Superb Parrot		Land not surveyed (ecologically)
	Superb Parrot - Nesting		Access/egress point
	White-fronted Chat		Public level crossing
	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
			Culvert point

Mitigation for works within/around AEC:

AEC 8, 9, 10

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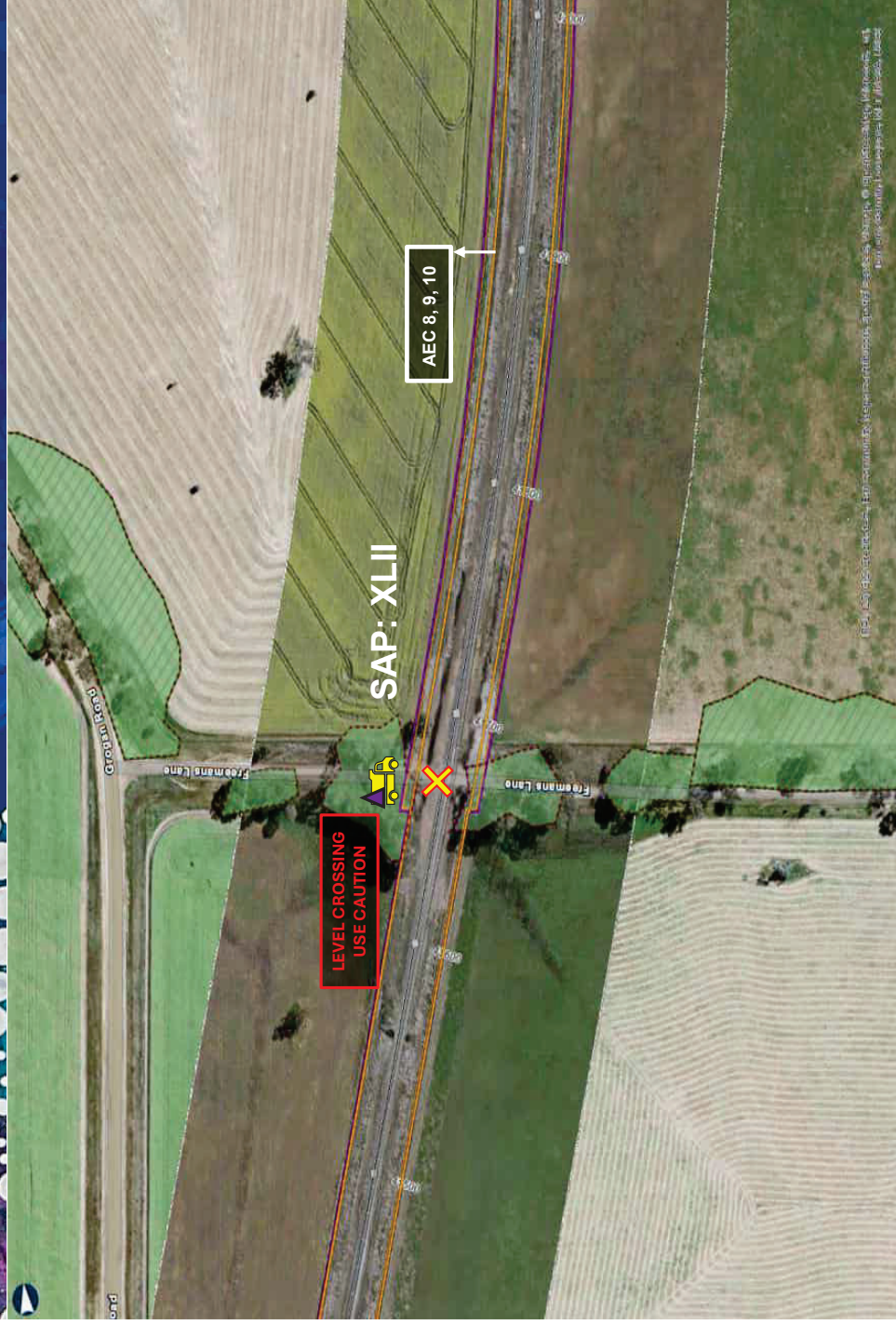
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Site Environmental Plan (SEP 13)
Site Access Point: G21-06, G21-05, 11, XLI, xxix, XL
Property #21 – Craig Morton

**JOHN
HOLLAND**



Legend	
	AEC (Contamination)
	Sensitive area
	Proposed fencing
	CIZ boundary
	Aboriginal Heritage artefact
	Black Falcon
	Brown Treecreeper
	Diamond Firetail
	Dusk Woodswallow
	Flame Robin
	Grey-crowned Babbler
	Little Eagle
	Little Eagle – Nest (Confirmed)
	Spotted Harrier
	Spotted Harrier – Nest (Confirmed)
	Square-tailed Kite
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	Superb Parrot
	Superb Parrot - Nesting
	White-fronted Chat
	Spill kit
	Chainage
	START/END fence line
	Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp.
	Wybong Flora - Diuris Tricolor
	Flora - Cullen Parvum
	Caladenia arenaria, Eleocharis oblics, Indigofera efoliata, Swainsona
	Leptocarpus, Wakoocica, Swainsona
	Murrayanaa
	Ammobitium craspedioides
	Acacia ausfeldii
	Habitat connectivity
	Stream (incl. ephemeral)
	Grey Box (E. macrocarpa)
	White-Box-Yellow Box-Blackely's Red Box
	Receivers
	Indigenous Survey Zones
	Local Heritage
	State Heritage
	Scattered Paddock Tree
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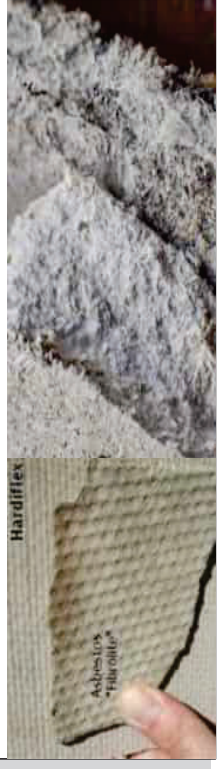
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AEC 8.9.10

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Legend

	AEC (Contamination)		Euphrasia arguta, Grevillea wilkinsonii, Prasophyllum sp.
	Sensitive area		Wywong
	Proposed fencing		Flora - Diuris Tricolor
	CIZ boundary		Flora - Cullen Parvum
	Aboriginal Heritage artefact		Caladenia arenaria, Eleocharis obicis, Indigofera efoliata, Swainsona
	Black Falcon		Swainsona Murrayana
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	Diamond Firetail		Acacia ausfeldii
	Dusk Woodswallow		Habitat connectivity
	Flame Robin		Stream (incl. ephemeral)
	Grey-crowned Babbler		Grey Box (E. macrocarpa)
	Little Eagle		White-Box-Yellow Box-Blakely's Rec
	Little Eagle – Nest (Confirmed)		Receivers
	Spotted Harrier		Indigenous Survey Zones
	Spotted Harrier – Nest (Confirmed)		Local Heritage
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	Spill kit		Private level crossing
	Chainage		Bridge point
	START/END fence line		Stock crossing
	Mitigation for works within/around AEC:		Culvert point

Mitigation for works within/around AEC:

AEC 8, 9, 10

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Appendix B – Noise Assessment



Appendix B – Noise Assessment

Noise model summary:

A scenario-based approach has been applied to the low impact works assessment to assess potential noise impacts associated with Low Impact Works (LIW).

Standard construction hours on I2S are;

- 7:00am to 6:00pm Monday to Friday
- 7:00am to 6:00pm Saturday
- At no time on Sunday or public holidays.

Where out of hours works are required, they must comply with CoA E3 (b) as per the definition of ‘Low impact work’ as per SSI-9406. Any relevant OOHW approvals must be obtained prior to the commencement of OOHW activities. This approval will be sought via separate application/permit as OOHW are required.

Site Characteristics:

The existing noise environment is characteristic of a rural landscape. Most of the proposal site has little or no road traffic noise, sparse settlement patterns, and generally being characterised by low background noise levels. Burley Griffin Way, Olympic Highway and the existing rail lines are the main noise sources within the proposal site; however, traffic along these roads is typically sparse 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 due to existing road and rail sources is considered to be below the structural damage and human comfort criteria for all vibration sensitive receivers.

Most residential receivers are in Stockinbingal, east of the proposal site, including low-density residential dwellings. Residential receivers located within the study area outside of Stockinbingal are typically present as isolated rural residential dwellings within open farmland. Residential dwellings located near the proposal are predominantly single storey.

Rationale:

The following noise model is for the activities to be undertaken during Low Impact Works for the Illabo to Stockinbingal Project.

The works planned for 2025, which are included in this assessment, are mostly set to occur at expansive distances from sensitive and residential receivers, as established by an initial assessment of access and on-site investigations. The closest receiver for these works would be on the Olympic Highway (2 WEST ST, STOCKINBINGAL NSW 2725, EIS Receiver ID 321056). This receiver is 95 meters from the proposed work area. The impacts (as per the ICNG) are not within the highly noise affected dBA range (75dB(A)).



Modelling has been conducted via a 'worst case scenario' approach for the activity to be conducted throughout LIW. Activities included in this noise assessment are not proposed to be undertaken concurrently. If any activities overlap, this would be subject to additional noise modelling to assess the potential cumulative impacts of multiple work activities at the same location. This would be subject to approval by the ER.

A model for each activity is provided in the below sections, which includes;

- A map, showing the work activities and their proximity to receivers (if any);
- The noise model inputs (showing equipment usage percentages and quantity);
- The noise model outputs (showing the results of the modelling).

Noise Management Levels

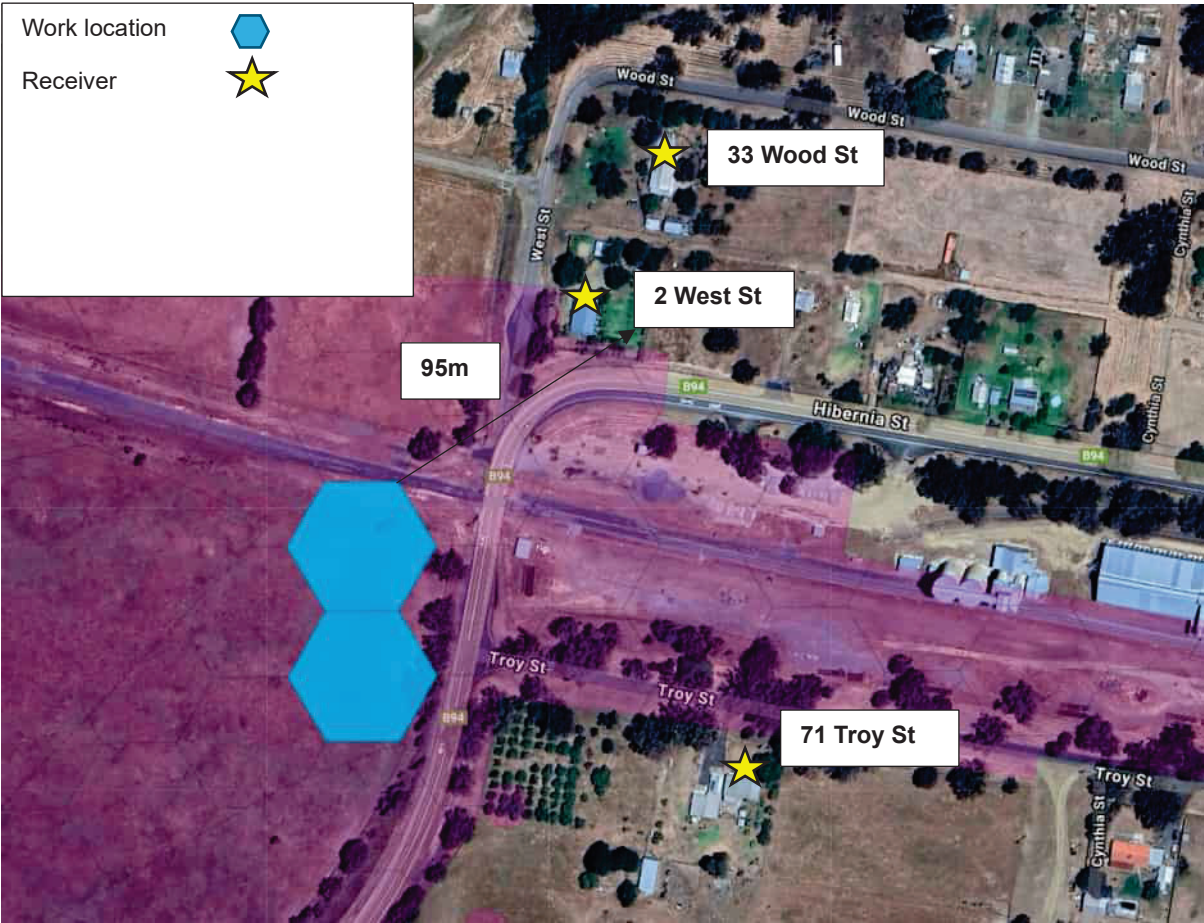
TABLE 16-1: NOISE MANAGEMENT LEVELS FOR RESIDENTIAL RECEIVERS

Timing	RBL (dBA) ¹	NML (dBA)	Highly noise affected level (dBA)
Standard hours	35	45	75
Out of hours—Day	35	40	N/A
Out of hours—Evening	30	35	N/A
Out of hours—Night	30	35	N/A

1. Background levels are below the minimum assumed rating background noise levels at all measurement locations along the proposal site; as such, they have been adjusted to 35dBA during the day period, and 30dBA during the evening and night periods.

Modelling was conducted using standard hours Noise Management Level (NML) of 45dBA. The NMLs used are source from the EIS and Construction Noise and Vibration Impact Assessment prepared for the Project (*Environmental Impact Statement: Inland Rail: Illabo to Stockinbingal, 2022*), please refer below. Noise modelling has been conducted using Hutchinson Weller's KNOWNoise software.

Map:



Noise Model Inputs:

The following inputs (equipment type, quantity and usage) were entered into the noise model. Note that the dates of the noise model inputs are not reflective of the actual work date.

21/05/2025 07:00AM - 21/05/2025 06:00PM						
Temporary fencing installation during standard hours						
Equipment type	Qty	Usage	Reduction	Sound power level ⓘ		
				LAeq	LAmix	
Auger (hand)	1	40%	0	102	111	
Concrete Vibrator	1	20%	0	93	105	
Hand Tools (electric)	1	20%	0	87	99	
Light vehicle	2	20%	0	81	90	



Impact to Receivers:

The detailed noise output profiles for the closest residential receivers to the works is provided in the figures below.

2 WEST ST, STOCKINBINGAL NSW 2725 ×

NCA

NCA06

Address

2 WEST ST, STOCKINBINGAL NSW 2725

Land Use

Residential

Heritage Listing

☐

Visible

☒

	Floor	Land Use	NML	Predicted level (dBA)	NML Exceedance	Sound Impact	Highly Affected	Sleep Disturbed
⊞	1	Residential	45	49.7	4.7	Clearly Audible	No	No

Ok

71 TROY ST, STOCKINBINGAL NSW 2725 ×

NCA

NCA05

Address

71 TROY ST, STOCKINBINGAL NSW 2725

Land Use

Residential

Heritage Listing

☐

Visible

☒

	Floor	Land Use	NML	Predicted level (dBA)	NML Exceedance	Sound Impact	Highly Affected	Sleep Disturbed
⊞	1	Residential	45	47	2	Clearly Audible	No	No

Ok

33 WOOD ST, STOCKINBINGAL NSW 2725 ×

NCA

NCA02

Address

33 WOOD ST, STOCKINBINGAL NSW 2725

Land Use

Residential

Heritage Listing

☐

Visible

☒

	Floor	Land Use	NML	Predicted level (dBA)	NML Exceedance	Sound Impact	Highly Affected	Sleep Disturbed
⊞	1	Residential	45	45	0	Not Audible	No	No

Ok

Noise model summary:

A scenario-based approach has been applied to the low impact works assessment to assess potential noise impacts associated with Low Impact Works (LIW). A summary of the noise impacts associated with the works are included in the table below.



Receiver	dBA exceedance of NML
2 WEST ST, STOCKINBINGAL NSW 2725	4.7
71 TROY ST, STOCKINBINGAL NSW 2725	2
33 WOOD ST, STOCKINBINGAL NSW 2725	0

The impacts (as per the ICNG) are deemed to be not within the highly noise affect dBA range (75dB(A)) during standard hours.

Conclusion and Mitigation:

Although noise impacts are expected to be minor based on the nature of the low impact works and their planned hours (standard hours), mitigation measures will be implemented to manage noise and vibration impacts. The following measures will be implemented where reasonable and practicable in accordance with the ARTC NSW Noise and Vibration Framework Specification.

Mitigation measures
Using portable temporary acoustic screens where effective to screen the noise emissions.
Avoid the simultaneous operation of noisy plant within discernible range of noise sensitive receivers where possible.
Where available, equipment selection will favour the use of quieter and less vibration emitting construction methods.
Using noise source controls, such as the use of residential class mufflers, to reduce noise from all plant and equipment including bulldozers, cranes, graders, excavators and trucks
Static plant should be located as far as possible from sensitive receivers, be located to take advantage of natural acoustic screening such as terrain, site buildings, etc and where necessary for reduction of noise impacts, provided with an acoustic enclosure.
A telephone, email and web-based community information service shall be established to allow the community to obtain additional information on construction activities, provide feedback or make a complaint.
Regular communications on the activities and progress of the proposal shall be provided to the community (e.g. via newsletter, email and/or website).
Noise or vibration monitoring in response to complaints shall be undertaken where the results or the process assist in resolving or understanding the receiver's issue.
Where possible, construction compounds should be located a minimum of 1km from the nearest resident or noise sensitive receiver.
Where vibration levels are predicted to approach the criteria for cosmetic building damage or limits for critical or sensitive areas, attended vibration measurements shall be undertaken at the commencement of vibration generating activities to confirm that vibration limits are within the acceptable range.
Early morning works between 6am-7am will be low impact noise activities ₁
A respite period shall be provided for receivers impacted by weekend work (see Definitions). The respite period will ensure that no single receiver is impacted for two consecutive periods of weekend work. Respite will be provided every second weekend commencing at 1pm on Saturday and concluding at 7am on Monday.

Note 1: Work is limited to low impact works which generate low levels of noise and vibration at the nearest receivers (e.g. light vehicle movements, deliveries, site shed set up, toolbox talks, generators, hand-tools) and where the relevant NML or vibration criteria are not predicted to be exceeded or as defined by the relevant Conditions of Approval.



As a minimum, all affected landowners will be notified of the works to be undertaken in or around their properties at least 7 days prior to works commencement in accordance with the Community Communication Strategy (CCS).

Additionally, pre-starts and inductions will detail noise mitigation measures for all personnel, which includes that;

- Non-tonal reversing alarms must be fitted and used on all construction vehicles and mobile plant.
- Quieter and less noise emitting construction methods should be used whenever possible.
- Avoid shouting and slamming doors to minimise unnecessary noise.
- All vehicles accessing the project site must comply with local speed restrictions.
- Plant equipment engines should be turned off when not in use to reduce potential noise impacts on surrounding stakeholders.

Based on the assessment of noise impacts, these works can be undertaken as low impact works.



Appendix C – LIW Heritage Advice Letter



29 January 2025

Tess Anastakis
Environment and Sustainability Graduate
John Holland Pty Ltd
Level 5, 15 Bourke Road
Mascot NSW 2020

RE: Inland Rail, Ilabo to Stockinbingal - Heritage Advice on Geotechnical Activities

Dear Tess,

Thank you for requesting heritage advice on proposed geotechnical activities within the Inland Rail Ilabo to Stockinbingal Project area. We understand that John Holland requires access to certain parts of the Project area to conduct the following geotechnical activities:

- Bore holes
- Test pits
- Auger holes
- Survey
- Geophysics
- Pot holing
- Slot trenching
- Pavement cores

It is understood that ground disturbing geotechnical activities (i.e. bore holes, test pits, auger holes, pot holing, slot trenching and pavement cores) are only planned outside the Zones of Aboriginal Sensitivity identified by GML. In addition, no geotechnical ground disturbing activities are proposed in Zones 5, 6, 9 and 10, as they are subject to archaeological survey, test and salvage excavation as part of our current archaeological investigation and require further heritage approval. These no-ground disturbance zones are shown in Figure 1 attached.

Given the careful placement of these activities outside the no-ground disturbance zones, conducting these activities would not result in any harm to Aboriginal sites and objects and would be permissible. We support the following mitigations measures proposed by John Holland to avoid any impacts to Aboriginal heritage in the no-ground disturbance zones:

- The no-ground disturbance zones will be identified on the ground with a 25m buffer.
- Bollards will be placed to temporarily delineate the no-ground disturbance zones.
- All site personnel will be inducted to the Project before the commencement of geotechnical activities. This induction will include a visual depiction of the no-ground disturbance zones and their restrictions.
- On-site personnel will be regularly briefed on the exact locations of the no-ground disturbance zones.
- Hard-copies of maps showing the no-ground disturbance zones will be placed in site utes and provided to all JHG site personnel via email.
- Site personnel will be provided access to geospatial data which show the no-ground disturbance zones (including the 25m buffer).
- The Unexpected and Incidental Finds Procedures for Heritage are available in all site utes and provided to all JGH site personnel via email.



With regards to geotechnical survey, it is understood that John Holland and appointed Subcontractors require vehicle and pedestrian access within the Zones of Aboriginal Sensitivity to validate and visually assess these areas for future geotechnical investigations. These geotechnical surveys would not result in any ground disturbance and, as such, would be permissible. We recommend that existing vehicle tracks be used to access these areas where possible to minimise ground disturbance.

If any further heritage advice on specific activities is required, please don't hesitate to call or email.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Fiona Leslie'.

Fiona Leslie
Director / Principal Heritage Consultant

Attachment: Figure 1 – no-ground disturbance zones / zones of Aboriginal sensitivity



Appendix D – Cleanliness Inspection Declaration Checklist

As previously submitted and reviewed in other LIWA's.



Appendix E—Community Notification

Low Impact Works Illabo to Stockinbingal 1 – 30 June 2025

**JOHN
HOLLAND**

Throughout **June 2025**, John Holland will continue with their low impact works, including site investigations, as part of the Illabo to Stockinbingal (I2S) section of Inland Rail in New South Wales.

Description of works

Ahead of construction, site investigations are required to provide essential information to assist with design. Inland Rail's contractor, John Holland, will undertake low impact work as part of these investigations.

Proposed activities include (subject to approval):

- Surveying the project/property boundaries, road and pavement levels at multiple locations
- Underground and overhead utility locating and mapping using non-destructive digging (NDD)
- Geotechnical and archaeological investigation works including drilling, soil sampling and drone operation
- Environmental including cultural heritage investigations through inspection and monitoring activities including out-of-hours fauna spotting
- Installation of fencing and gates in consultation with landowners
- Dilapidation survey and testing of existing roads, bridges, culverts, leased land and buildings and road traffic counts on Burley Griffin Way
- Establishment of temporary workers' accommodation facilities on Grogan Road, north of Stockinbingal. (More information will be provided in a separate notification)
- Inspections of existing railway infrastructure and assets.

What can I expect?

- Light vehicles entering and exiting the temporary site facilities between 6.30am – 6.30pm Monday to Saturday
- Works occurring between 7am – 6pm, Monday to Saturday

- Affected property owners will be contacted regarding access, prior to works commencing
- Traffic management including reduced speed limits may be required in some locations where works are occurring in proximity/adjacent to roads or for safe access. Please observe all traffic management instructions and signage
- Workers operating machinery, equipment, hand tools and service vehicles
- Residents in the vicinity may notice a slight increase in noise levels during these works, along with the presence of additional workers and vehicles in the area.

Expected plant and machinery used

Excavators, drill rigs, small truck mounted drill rig, NDD (Non-destructive digging) truck, water carts and support vehicles, workers using hand tools, survey equipment (including drones), traffic management equipment and associated signage.

How we're managing impacts

- Traffic management and reduced road speeds, where applicable
- Environmental controls in place
- Access to private properties will be maintained
- Temporary fencing around excavations and sensitive areas.

Cancellation of works

Works can sometimes be cancelled at short notice depending on weather and other factors. Should this occur, works will be rescheduled.

For any concerns or enquiries phone 1800 732 761 or email inlandrailnsw@inlandrail.com.au

Thank you for your patience and cooperation while we carry out these works.

Scan QR code for latest information.



☎ 1800 732 761 @ inlandrailnsw@inlandrail.com.au

✉ GPO Box 14, Sydney NSW 2000

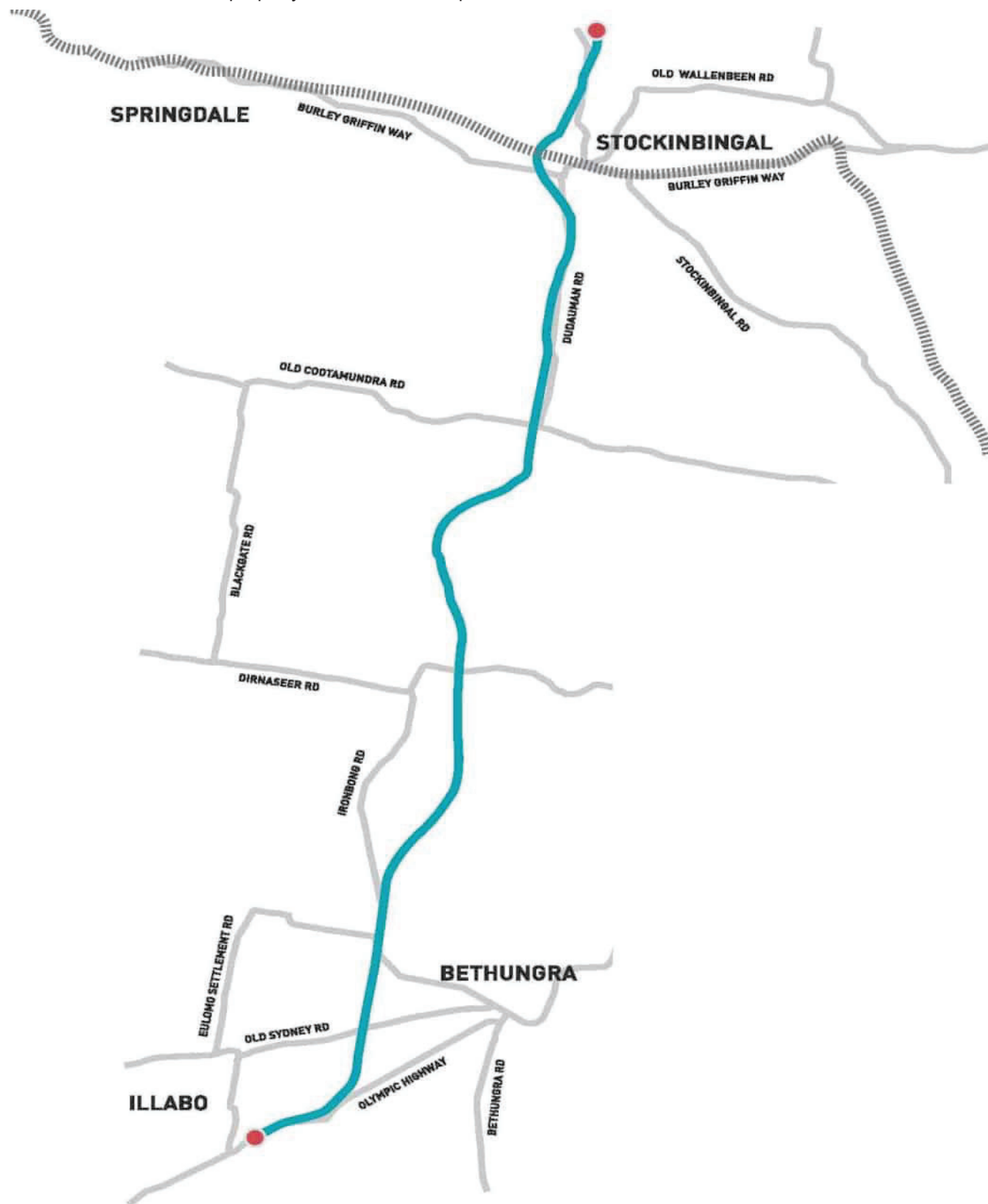


Please call our free translation and interpreter service on **131 450** (24 hours a day) if English is your second language and you need help reading this document

**INLAND
RAIL**

Work locations

Work will occur at various locations within the project boundaries (shown in blue on the map below) and will be discussed with individual property owners / lessees prior to commencement.



☎ 1800 732 761 @ inlandrailnsw@inlandrail.com.au

✉ GPO Box 14, Sydney NSW 2000



Please call our free translation and interpreter service on 131 450 (24 hours a day) if English is your second language and you need help reading this document

**INLAND
RAIL**



Appendix F – Low Impact Work Biodiversity Advice

8 April 2025



Daniel Lidbetter
Environmental Approvals Manager
Inland Rail Illabo to Stockinbingal
John Holland Pty Ltd
Level 5, 15 Bourke Road
Mascot NSW 2020

daniel.lidbetter3@jhgc.com.au
cc: tess.anastakis@jhgc.com.au

Dear Daniel

Re: 240107 – Inland Rail, Illabo to Stockinbingal - Biodiversity Advice, Low Impact Works

Introduction

Thank you for requesting biodiversity advice on approved Low Impact Work (LIW) within the Inland Rail Illabo to Stockinbingal Project area prior to construction. John Holland needs to conduct LIW (Table 2) activities within the Project area under the definition of LIW and Construction as described in the conditions of consent (Table 4). LIW activities must not impact biodiversity values of the CSSI # SSI-9406 to be compliant with Conditions of Approval (CoA) including (but not limited to) E26, E28 and E29. In addition, LIW must not trigger the requirement to retire offset credits.

Low Impact Works are unlikely to result in significant ground or native vegetation disturbance over and above routine agricultural cropping, grazing and maintenance activities. To protect project biodiversity values LIW activities are limited to previously impacted land. Land **Status** (Table 1) has been conservatively derived from existing use and the vegetation zone (PCT and Condition as per the BDAR) where native vegetation is present at the LIW location. The land status used in Tables 1, 2 and 3 include:

- Existing roads and tracks
- Category 1 land (cropping land)
- Poor quality native vegetation (no shrubs & exotic groundcover), (Table 1)
- High quality native vegetation or unsurveyed land or derived grassland, (Table 1)

Table 1 Native Vegetation zones (PCT and condition) used to determine land status

Vegetation Type*	Condition*	Status
PCT 79 River Red Gum shrub/grass riparian tall woodland or open forest wetland mainly in the upper slopes sub-region of the NSW South Western Slopes Bioregion and western South Eastern Highlands Bioregion	Moderate	High
	Poor	Poor
PCT 76 Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Good	High
	Moderate	High
	Poor	Poor
	Low -DNG	Poor
PCT 80 Western Grey Box – White Cypress Pine tall woodland on loam soil on	Moderate	High

Wagga Wagga

35 Kincaid Street (PO Box 5464) Wagga Wagga NSW 2650

T. (02) 6971 9696 E. ng@nghconsulting.com.au W. nghconsulting.com.au ABN 31 124 444 622 ACN 124 444 622

Vegetation Type*	Condition*	Status
alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion	Poor	Poor
PCT 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Moderate	High
	Poor	Poor
	Low -DNG	Poor
PCT 276 Yellow Box grassy tall woodland on alluvium or parna loams and clays on flats in NSW South Western Slopes Bioregion	Moderate	High
	Poor, canopy only	Poor
PCT 277 Blakely's Red Gum – Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion	Moderate	High
	Poor	Poor
	Low -DNG	Poor
	Planted	Poor
PCT 309 Black Cypress Pine – Red Stringybark – red gum – box low open forest on siliceous rocky outcrops in the NSW South Western Slopes Bioregion	Moderate	High
PCT 347 White Box – Blakely's Red Gum shrub/grass woodland on metamorphic hillslopes in the mid-southern part of the upper slopes subregion of the NSW South Western Slopes Bioregion	Moderate	High
	Poor	Poor

*PCT condition derived from BDAR

Note: Planted native vegetation will generate offset requirements. Apply traffic controls as per Table 2 and Table 3.

Land previously assessed as native vegetation has been ascribed a status based on Vegetation zone, see Table 1 and the **Process** below.

The level of controls for LIW increases with the quality of biodiversity to protect project biodiversity values. Where the controls for LIW are implemented vegetation integrity, habitat suitability, threatened species abundance, vegetation abundance, habitat connectivity, threatened species movement, flight path integrity and water sustainability would be maintained across the project.

As such, conducting LIW activities would not adversely affect, potentially adversely affect or adversely impact the biodiversity values of threatened species or Critically Endangered Ecological Community (CEEC) / Endangered Ecological Community (EEC) / Threatened Ecological Community (TEC) and would be permissible under the consent when the traffic light controls are followed (Table 3).

Note, no threatened flora species were recorded on site during field surveys for the Environmental Impact Statement (EIS). Threatened fauna species recorded during field surveys for the EIS are highly mobile and unlikely to be impacted by LIW as their foraging, nesting and breeding habitat features would not be impacted. The minor transient and infrequent nature of LIW activities are unlikely to create sufficient noise and vibration to disturb roosting or nesting fauna.

A traffic light system of controls has been adopted to manage the potential for impacts to biodiversity values across the project from LIW activities. The traffic light system uses three terms, including:

- **Allow** – negligible potential for impact to project wide biodiversity values when controls followed

- **Caution** - low potential for impact to project wide biodiversity values additional controls to follow
- **Delay** – high risk of impact to project wide biodiversity values, delay until CEMP and subplans are approved, additional surveys completed and biodiversity offset credits are retired, unless otherwise approved by the minister

Process

An ecologist will assess LIW areas and complete an Ecological Clearance Form prior to works to reduce the potential for inadvertent impacts to biodiversity values as a result of LIW.

- Identify the location for the LIW and required access.
- Determine through reference to constraints mapping/site observations the land status in Table 2.
- Check Table 2 to determine the LIW and if access is allowed, check also if caution is required or if the LIW should be delayed until “construction”.
- If the LIW is allowed, or if caution is required, refer to the traffic light controls in Table 3.
- Determine if the traffic light controls can be implemented or not.
- Ecologist to complete an Ecological Clearance Form and lodge same with Senior Project Engineer (or delegate).
- If the traffic light controls can be implemented, document the above steps in an Excavation Permit and submit to the Senior Project Engineer (or delegate) for approval.
- Once the Excavation Permit is approved, implement the controls in Table 3 and proceed with works.
- Any breach of the controls should be reported to the supervising engineer as a non-conformance for assessment and subsequent action.

Where this procedure and controls can be implemented it is expected that there will be no impact to biodiversity values across the project adversely affecting threatened species or CEEC / EEC / TEC and would be permissible under the consent.

If you have any questions, please contact me or Jane Love. We would be pleased to discuss any aspect of this letter with you.

Yours sincerely,



Michial Sutherland

Manager

0427953053

Table 2: LIW activity v land type and traffic light controls

Low Impact Work	Existing roads and tracks.	Category 1 land (cropping land)	Poor quality native vegetation (Table 1)	High quality native veg or unsurveyed land or derived grassland (Table 1)
Cadastral survey	Allowed	Allowed	Allowed	Caution
Boreholes	Allowed	Allowed	Caution	Delay
Geotechnical test pits	Allowed	Allowed	Caution	Delay
Subsoil and topsoil test pits	Allowed	Allowed	Caution	Delay
Service investigations	Allowed	Allowed	Caution	Delay
Auger holes	Allowed	Allowed	Caution	Caution
Erosion threshold velocity testing	Allowed	Allowed	Caution	Delay
Pavement cores	Allowed	N/A	N/A	N/A
Geophysics	Allowed	Allowed	Allowed	Caution
Establish minor ancillary facilities	Allowed	Allowed	Caution	Delay
Enviro. survey, investigation / site works	Allowed	Allowed	Allowed	Caution
Construct minor access roads	Allowed	Allowed	Caution	Delay
Property adjustment work (corridor fencing and gate installation)	Allowed	Allowed	Caution	Caution

Table 3: Traffic light controls

Low Impact Work	Existing roads and tracks	Category 1 land (cropping land)	Poor quality native vegetation defined in Table 1	Moderate to high quality native veg or unsurveyed land or derived native grassland defined in Table 1
Cadastral survey	• Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter. • Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Target previously disturbed areas only. • No removal of native trees • No pruning of limbs over 50 mm diameter or hollow-bearing • Use existing tracks where available • Avoid crossing flowing creeks • Use formed creek crossings where available • Remove all waste • Use vehicle hygiene	• Target previously disturbed areas only. • No more than 0.2 m² ground disturbance • No pruning of limbs over 50 mm diameter or hollow-bearing ** • No removal of native trees • Avoid crossings flowing creeks • Use formed creek crossings where available • Remove all waste • Use vehicle hygiene • Light vehicles only • Stable soil conditions • Use existing tracks. Where there is no existing track, limit vehicle movements to no more than twice at any given location.
Boreholes	• Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Target previously disturbed areas only • No more than 5 m² ground disturbance • No removal of native trees • No pruning of limbs over 50 mm diameter or hollow-bearing** • Use existing tracks where available • Avoid crossing flowing creeks • Use formed creek crossings where available • Remove all waste • Use vehicle hygiene • Light vehicles only • Stable soil conditions • Ecologist review and signoff	Delay
Geotechnical test pits	• Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene • Topsoil, fertilise & reseed	• Target previously disturbed areas only • No more than 5 m² ground disturbance • No removal of native trees • No pruning of limbs over 50 mm diameter or hollow-bearing ** • Use existing tracks where available • Avoid crossing flowing creeks • Use formed creek crossings where available • Remove all waste	Delay

Low Impact Work	Existing roads and tracks	Category 1 land (cropping land)	Poor quality native vegetation defined in Table 1	Moderate to high quality native veg or unsurveyed land or derived native grassland defined in Table 1
	Topsoil, fertilise & reseed, or reseal		- Use vehicle hygiene - Light vehicles only - Stable soil conditions - Ecologist review and signoff - Topsoil, fertilise & reseed	
Subsoil & topsoil test pits	- Use existing tracks - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings - Remove all waste - Use vehicle hygiene - Topsoil, fertilise & reseed, or reseal	- Use existing tracks where available - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings - Remove all waste - Use vehicle hygiene - Topsoil, fertilise & reseed	- Target previously disturbed areas only - No more than 5 m² ground disturbance - No removal of native trees - No pruning of limbs over 50 mm diameter or hollow-bearing** - Use existing tracks where available - Avoid crossing flowing creeks - Use formed creek crossings where available - Remove all waste - Use vehicle hygiene - Light vehicles only - Stable soil conditions - Ecologist review and signoff - Topsoil, fertilise & reseed	Delay
Service investigations	- Use existing tracks - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings - Remove all waste - Use vehicle hygiene - Topsoil, fertilise & reseed, or reseal	- Use existing tracks where available - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings - Remove all waste - Use vehicle hygiene - Topsoil, fertilise & reseed	- Target previously disturbed areas only - No more than 5 m² ground disturbance - No removal of native trees - No pruning of limbs over 50 mm diameter or hollow-bearing** - Use existing tracks where available - Avoid crossing flowing creeks - Use formed creek crossings where available - Remove all waste - Use vehicle hygiene - Light vehicles only - Stable soil conditions - Ecologist review and signoff - Topsoil, fertilise & reseed	Delay
Auger holes	- Use existing tracks - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings	- Use existing tracks where available - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings	- Target previously disturbed areas only. - No more than 2 m² ground disturbance - No removal of native trees - No pruning of limbs over 50 mm diameter or hollow-bearing** - Use existing tracks where available	Delay

Low Impact Work	Existing roads and tracks	Category 1 land (cropping land)	Poor quality native vegetation defined in Table 1	Moderate to high quality native veg or unsurveyed land or derived native grassland defined in Table 1
	- Remove all waste - Use vehicle hygiene	- Remove all waste - Use vehicle hygiene	- Avoid crossing flowing creeks - Use formed creek crossings where available - Remove all waste - Use vehicle hygiene - Light vehicles only - Stable soil conditions - Ecologist review and signoff - Topsoil, fertilise & reseed	
Erosion threshold velocity testing	- Use existing tracks - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings - Remove all waste - Use vehicle hygiene - Topsoil, fertilise & reseed, or reseal	- Use existing tracks where available - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings - Remove all waste - Use vehicle hygiene - Topsoil, fertilise & reseed	- Target previously disturbed areas only. - No more than 4 m² ground disturbance - No removal of native trees - No pruning of limbs over 50 mm diameter or hollow-bearing** - Use existing tracks where available - Avoid crossing flowing creeks - Use formed creek crossings where available - Remove all waste - Use vehicle hygiene - Light vehicles only - Stable soil conditions - Ecologist review and signoff - Topsoil, fertilise & reseed	Delay
Pavement Cores	- Use existing tracks - No removal of native trees - No pruning of limbs over 50 mm diameter - Use existing creek crossings - Remove all waste - Use vehicle hygiene - Topsoil, fertilise & reseed, or reseal	Not Applicable	Not Applicable	Not Applicable
Geophysics	- Use existing tracks - No removal of native trees - No pruning of limbs over 50 mm diameter	- Use existing tracks where available - No removal of native trees - No pruning of limbs over 50 mm diameter	- No removal of native trees - No pruning of limbs over 50 mm diameter or hollow-bearing - Use existing tracks where available - Avoid crossing flowing creeks	- Use existing tracks where available - No removal of native trees - No pruning of limbs over 50 mm diameter or hollow-bearing** - Avoid crossings flowing creeks

Low Impact Work	Existing roads and tracks	Category 1 land (cropping land)	Poor quality native vegetation defined in Table 1	Moderate to high quality native veg or unsurveyed land or derived native grassland defined in Table 1
	• Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Use formed creek crossings where available • Remove all waste • Use vehicle hygiene	• Use formed creek crossings where available • Remove all waste • Use vehicle hygiene • Light vehicles only • Stable soil conditions • Use existing tracks. Where there is no existing track, limit vehicle movements to no more than twice at any given location.
Establish minor ancillary facilities	• Minimise the footprint • Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene • Topsoil, fertilise & reseed, or reseal	• Minimise the footprint • Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene • Topsoil, fertilise & reseed	Delay	Delay
Enviro. survey, investigation / site works	• Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene • Topsoil, fertilise & reseed, or reseal	• Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene • Topsoil, fertilise & reseed	• No removal of native trees • No pruning of limbs over 50 mm diameter or hollow-bearing • Use existing tracks where available • Avoid crossing flowing creeks • Use formed creek crossings where available • Remove all waste • Use vehicle hygiene • Light vehicles only • Stable soil conditions • Ecologist review and signoff • Topsoil, fertilise & reseed	• Target previously disturbed areas only • No more than 2 m² ground disturbance • Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter or hollow-bearing** • Avoid crossings flowing creeks • Use formed creek crossings where available • Remove all waste • Use vehicle hygiene • Light vehicles only • Stable soil conditions • Ecologist review and signoff • Topsoil, fertilise & reseed • Use existing tracks where available. Where there is no existing track, limit vehicle movements to no more than twice at any given location.

Low Impact Work	Existing roads and tracks	Category 1 land (cropping land)	Poor quality native vegetation defined in Table 1	Moderate to high quality native veg or unsurveyed land or derived native grassland defined in Table 1
Construct minor access roads	• Not connected to a public road • Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene • Topsoil, fertilise & reseed, or reseal	• Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene • Topsoil, fertilise & reseed	• Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter or hollow-bearing** • Avoid crossing flowing creeks • Use formed creek crossings where available • Remove all waste • Use vehicle hygiene • Light vehicles only • Stable soil conditions • Ecologist review and signoff • Topsoil, fertilise & reseed	Delay
Property adjustment work	• Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter. • Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter • Use existing creek crossings • Remove all waste • Use vehicle hygiene	• Use existing tracks where available • No removal of native trees • No pruning of limbs over 50 mm diameter or hollow-bearing** • Avoid crossing flowing creeks • Use formed creek crossings where available • Remove all waste • Use vehicle hygiene • Light vehicles only • Stable soil conditions • Ecologist review and signoff	• Target previously disturbed areas only • No more than 2 m² ground disturbance • Use existing tracks • No removal of native trees • No pruning of limbs over 50 mm diameter or hollow-bearing** • Avoid crossing flowing creeks • Use formed creek crossings where available • Remove all waste • Use vehicle hygiene • Light vehicles only • Stable soil conditions • Ecologist pre-works inspection, review and signoff • Use existing tracks where available. Where there is no existing track, limit vehicle movements to no more than twice at any given location.

** - Pruning is not considered as clearing under NSW biodiversity legislation and guidance. The 50 mm limb diameter limitation on pruning restricts the potential to impact limbs that may provide habitat for any native fauna.

Table 4: SSI-940 CoAs and Terms and Definitions 6

Term	Definition
Construction	Includes work required to construct the CSSI as defined in the documents listed in Condition A1 , including commissioning trials of equipment and temporary use of any part of the CSSI, but excluding low impact work which is carried out or completed prior to approval of the CEMP.
Low Impact work	Work defined as low impact includes: (a) survey works including carrying out general alignment surveys, installing survey controls (including installation of global positioning system (GPS)), installing repeater stations, carrying out surveys of existing and future utilities and building and road dilapidation surveys; (b) investigations including investigative drilling, contamination investigations and excavation; (c) installation of mitigation measures including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments; (d) property acquisition adjustment work including installation of property fencing; (e) archaeological testing under the <i>Code of practice for archaeological investigation of Aboriginal objects in NSW</i> (Department of Environment Climate Change and Water, 2010) or archaeological monitoring undertaken in association with Low Impact work to ensure that there is no impact on heritage items; (f) archaeological and cultural salvage undertaken in accordance with a strategy or salvage operation required by the conditions of this approval; (g) maintenance work to existing buildings and structures as required to facilitate the carrying out of the CSSI; and (h) other activities determined by the ER to have minimal environmental impact which may include relocation and connection of utilities, establishment of minor ancillary facilities in accordance with Condition C9 construction of minor access roads (other than access roads' connection to the road network), temporary relocation of pedestrian paths and the provision of property access. (i) Site establishment work approved under a Site Establishment Management Plan in accordance with Condition C5. Despite the above, the following works are not Low Impact Work: i. where heritage items, or threatened species or their habitat, or threatened ecological communities (within the meaning of the Biodiversity Conservation Act 2016), are adversely affected or potentially adversely affected by any low impact work as defined in (a) to (i) above, that work is construction, unless otherwise determined by the Planning Secretary in consultation with Heritage NSW, BCS or DPI Fisheries (in the case of impact upon fish, aquatic invertebrates or marine vegetation); and ii. any Work undertaken outside the hours specified in Condition E1 that exceeds noise management and vibration levels as identified in Condition E3(b). Notes: 1. Early stages of Work are not necessarily low impact work. 2. Low Impact work is not Construction as defined by this approval. 3. The low impact work described in this definition becomes Construction with the approval of a CEMP. Where low impact work has already commenced, this is considered to remain as low impact work and is managed in accordance with the framework under which it commenced.
C9: Minor Ancillary Facilities	Minor ancillary facilities including lunch sheds, office sheds, portable toilet facilities, material lay down sites, stockpile areas, areas used to assemble infrastructure and the like can be established and used where they satisfy the following criteria: (a) are located within the construction boundary; and (b) have been assessed by the ER to have -

	i. minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and ii. minimal environmental impact with respect to waste management and flooding, and iii. no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.
E26 Biodiversity	Prior to impacts on the biodiversity values of the CSSI, the number and classes of ecosystem credits and species credits (like-for-like) as set out in the BAM Biodiversity Credit Report which forms part of the Condition A1(c), must be retired. The number and classes of ecosystem credits and species credits that must be retired (prior to impacting the biodiversity values) are detailed in SCHEDULE 1 and SCHEDULE 2 of APPENDIX C. The Proponent may review and reduce the ecosystem and species credit requirements in Tables in SCHEDULE 1 and SCHEDULE 2 of APPENDIX C to reflect the final construction footprint; the further surveys required by Condition E31; and the resulting extent and type of plant community types to be cleared. Amendments to the ecosystem and species credit requirements must be undertaken in consultation with BCS and DECCEW(Cth) and documented in a report prepared in accordance the Biodiversity Assessment Method and accompanied by an updated Credit Report. The report and the updated Credit Report must be submitted to the Planning Secretary for approval prior to the retirement of credits.
E28 Biodiversity	The retirement of the credits must be carried out in accordance with the Biodiversity Conservation Act 2016 (BC Act), and can be achieved by: (a) acquiring and retiring “biodiversity credits” within the meaning of the BC Act; and / or (b) making a payment into the Biodiversity Conservation Fund of an amount equivalent to the class and number of ecosystem and species credits, as calculated by the Biodiversity Conservation Fund (BCF) Charge System; and/or (c) funding a biodiversity conservation action that benefits the entity impacted and is listed in the ancillary rules of the Biodiversity Offset Scheme.
E29 Biodiversity	Evidence of the retirement of credits in satisfaction of Condition E28 must be provided to the Planning Secretary prior to impacts to the biodiversity values occurring.

Definitions

Land Type

- Existing roads and tracks include formed roads and tracks, sealed or unsealed that may include cut, fill and pavement formations, routinely used/constructed creek crossings
- Category 1 land (cropping land):
 - Land cleared of native vegetation as at 1 January 1990 or lawfully cleared after 1 January 1990
 - Low conservation grasslands
 - Land containing only low conservation groundcover (not being grasslands)
 - Native vegetation identified as regrowth in a Property Vegetation Plan (PVP) under the repealed Native Vegetation Act 2003 only where the PVP specifies a regrowth date.
 - Land bio-certified under the Biodiversity Conservation Act 2016
- Poor quality native vegetation (no shrubs & exotic groundcover) as defined in the BDAR

- High quality native vegetation or unsurveyed land or derived grassland as defined in the BDAR where minimal disturbance would have a negligible impact on to biodiversity values across the project

Biodiversity Values

The NSW *Biodiversity Conservation Act* 2016 in Cl. 1.5 states:

Biodiversity and biodiversity values for purposes of Act

- 1) For the purposes of this Act, biodiversity is the variety of living animal and plant life from all sources, and includes diversity within and between species and diversity of ecosystems.
- 2) For the purposes of this Act, biodiversity values are the following biodiversity values—
 - (a) vegetation integrity—being the degree to which the composition, structure and function of vegetation at a particular site and the surrounding landscape has been altered from a near natural state,
 - (b) habitat suitability—being the degree to which the habitat needs of threatened species are present at a particular site,
 - (c) biodiversity values, or biodiversity-related values, prescribed by the regulations.

The *Biodiversity Conservation Regulation* 2017 in Cl. 1.4 states:

Additional biodiversity values (section 1.5 of the Act)

The following are prescribed as additional biodiversity values for the purposes of the Act—

- (a) threatened species abundance—being the occurrence and abundance of threatened species or threatened ecological communities, or their habitat, at a particular site,
- (b) vegetation abundance—being the occurrence and abundance of vegetation at a particular site,
- (c) habitat connectivity—being the degree to which a particular site connects different areas of habitat of threatened species to facilitate the movement of those species across their range,
- (d) threatened species movement—being the degree to which a particular site contributes to the movement of threatened species to maintain their lifecycle,
- (e) flight path integrity—being the degree to which the flight paths of protected animals over a particular site are free from interference,
- (f) water sustainability—being the degree to which water quality, water bodies and hydrological processes sustain threatened species and threatened ecological communities at a particular site.

The Updated BDAR for the project response to submissions in the definition states:

Biodiversity Are the following values:

value

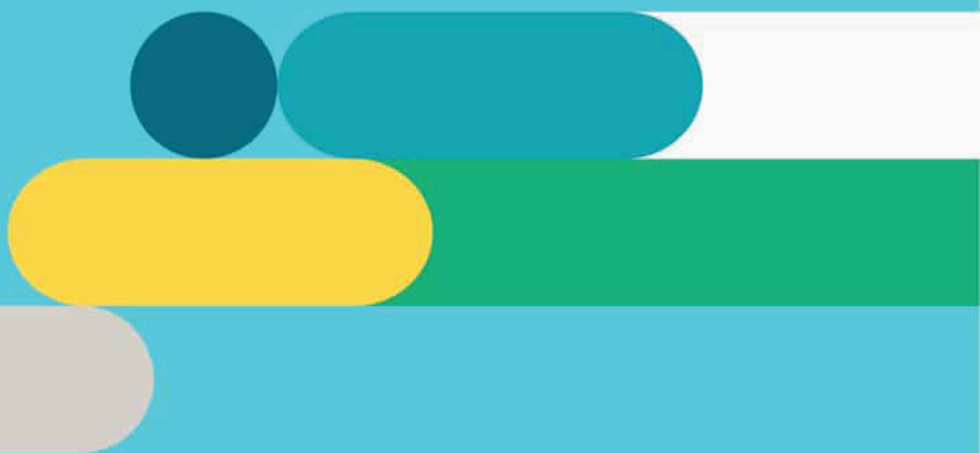
- vegetation integrity--being the degree to which the composition, structure and function of vegetation at a particular site and the surrounding landscape has been altered from a near natural state
- habitat suitability--being the degree to which the habitat needs of threatened species are present at a particular site
- biodiversity values, or biodiversity-related values, prescribed by the regulations.



Appendix G – Farm Management Plan (ARTC – Formerly known as McKenzie)

Management Plan

Farm Management Plan 'Grasmere'



Document Control

DOCUMENT TITLE	FARM MANAGEMENT PLAN 'GRASMERE'
DISCIPLINE	STAKEHOLDER ENGAGEMENT & COMMUNICATIONS MANAGEMENT
KEY ACTIVITY	LAND ACCESS & PROPERTY
DOCUMENT OWNER	Mitchell Roll Senior Project Manager
PREPARED BY	Mitchell Roll Senior Project Manager
REVIEWED BY	Grant Johnson Stakeholder Engagement Lead
QUALITY REVIEW	Chris Rae Property Program Coordination Manager
ENDORSED BY	Conrad Strachan Project Director I2S

Note: The Preparer, Owner, Quality Reviewer and Endorser acceptance of this document is captured electronically via the IR Controlled Document Centre.

Endorsed by

	NAME	TITLE	DATE	SIGNATURE
ENDORSER	Landowner Representative			
ENDORSER	Stakeholder Representative			

Approved by

	NAME	TITLE	DATE	SIGNATURE
DOCUMENT APPROVER	Bill Quince	Program Property Director		

Revision History

REVISION	REVISION DATE	DESCRIPTION OF CHANGES
A	01/10/2024	Issued for Review
0	25/10/2024	Issued for Use

Due for Revision: 2 years from Approved Date (or as required)

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1 Introduction

The purpose of this document to provide clear guidelines on the management of farm operations before, during and after IRPL operations on property. This provides peace of mind for both the Farm Operator and IRPL on the requirements to access and operate on the property during these periods.

By developing a comprehensive farm management plan, the McKenzie property can effectively navigate the challenges and opportunities presented by the Inland Rail project, ensuring continued agricultural success for the duration of the project.

The Purpose of a farm management plan can be covered in the key areas listed below. These apply to both the farm operator and IRPL:

1. **Strategic Planning and Resource Allocation:**
 - Optimising Land Use: The plan defines how the land is utilised for agricultural activities.
 - Resource Management: The plan ensures resources like water, soil, and labour are allocated optimally to maintain or enhance farm productivity throughout each of the project phases.
2. **Risk Management:**
 - Mitigating Disruption: The plan outlines strategies to minimise disruptions caused by the Inland Rail project, such as adjusting farming operations.
3. **Compliance:**
 - Regulatory Compliance: Ensures that all activities on property comply with legal requirements, especially in the context of changes to land use due to the Inland Rail project.
 - Property Compliance: Ensures a clear biosecurity procedure is adopted and adhered by all property visitors and also considers property management principles such as fencing requirements.
4. **Sustainability and Environmental Management:**
 - Environmental Impact: Evaluates and plans for the environmental impact of the Inland Rail project, ensuring sustainable practices are maintained on the remaining land. Including adherence to biosecurity protocols.
 - Land Rehabilitation: Includes strategies for rehabilitating any land that may be affected by the construction or operations of the Inland Rail.

2 Definitions

Table 1: Definitions

TERM	DEFINITION
BH	Bore Hole
Ch.	Chainage, a measure of distance associated with the rail corridor used to identify specific parts of the alignment
EIS	Environmental Impact Statement
ETV Testing	Erosional Threshold Velocity Testing
FMP	Farm Management Plan
IRPL	Inland Rail Pty. Ltd.
TP	Test Pit

3 Reference documents

Table 2: Reference Documents

DOCUMENT NO.	TITLE
n/a	NSW Biosecurity Act 2015
0-0000-900-PMP-00-PL-0009	IRPL Environment Management Plan
0-0000-900-EEC-00-ST-1000	IRPL Biosecurity Strategy

4 Lease Information

Table 3: Property Information

ITEM	INFORMATION
Licensee/Tenant	Eric Lindsay McKenzie & Yvette McKenzie
Property Address	'Grasmere', 1673 Dirnaseer Road, BETHUNGRA NSW 2590
Area	1228.13 Ha
Local Authority	Junee Shire Council
Zoning / Overlay(s)	RU1
Current Use	Farming and Grazing
Term of License/Lease	11 th October 2024 and expiring 30 th March 2027

4.1 Property Map

Detailed maps can be found in Appendix C.

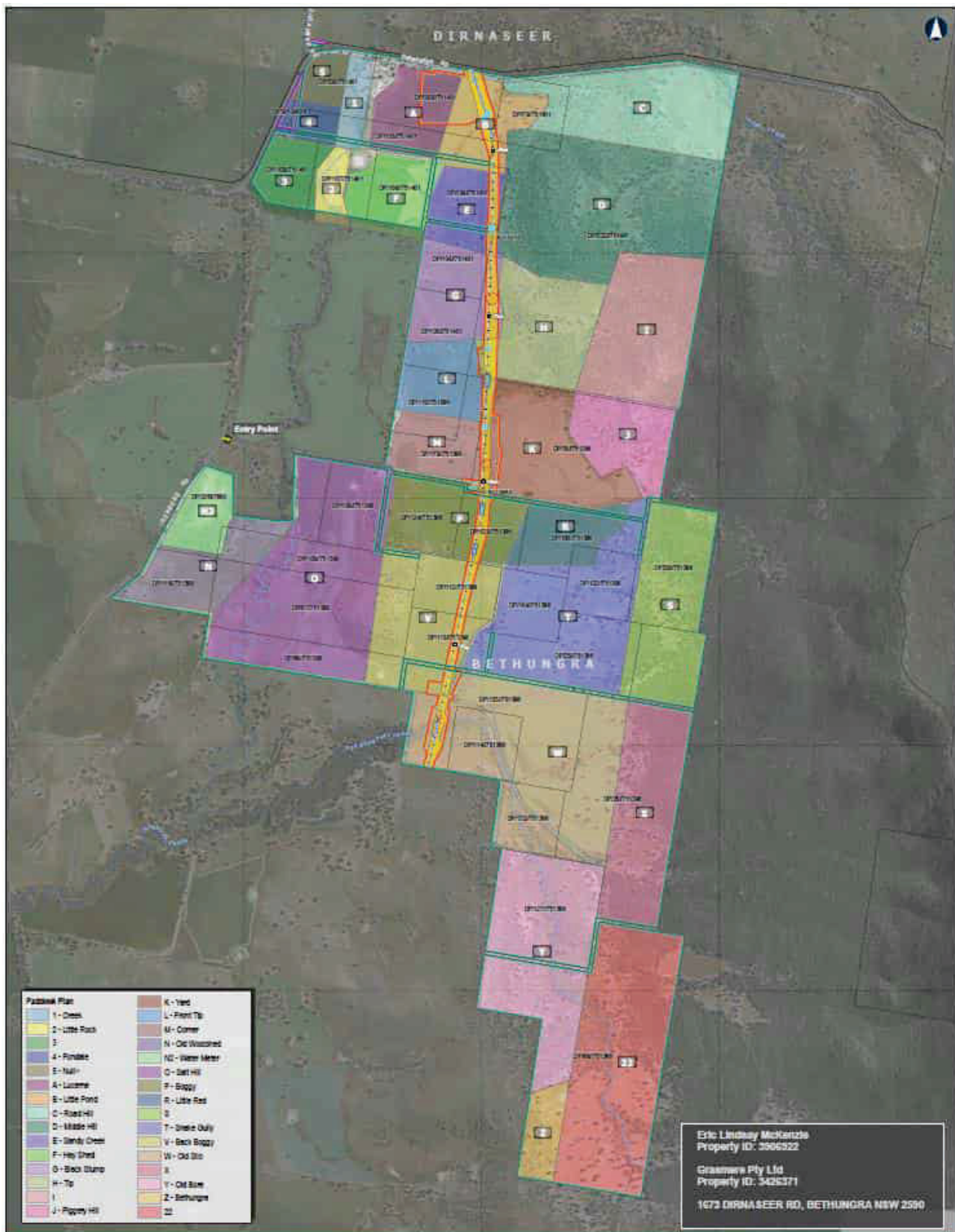
Figure 1: Property Map



4.2 Paddock Map

Detailed maps can be found in Appendix C.

Figure 2: Paddock Map



4.3 Farm Management Plan Objectives

Table 4: Farm Management Plan Objectives

#	OBJECTIVE
1	Maintain compliance to the Farm Management Plan objectives – provide assurity to all interested parties that all necessary requirements are maintained during all phases of the IRPL project
2	Ensure continuity of farm operations by minimising impacts to farming activities during project phases: Period 1: 11th October to 29th March 2025 - to grant McKenzie the opportunity to effectively manage harvest and removal of stock and for Inland Rail to obtain construction access Period 2: 30 March 2025 to 30 March 2026 - to grant the Tenant the opportunity to continue to occupy the residence and to manage potential biosecurity control requirements (noting potential for delay in acquiring an alternate property) in accordance with the agreed plan Period 3: Option period (if executed and taken up) as per updated Lease agreement 31st March 2026 to 30th March 2027. Refer Lease Further Term (Clause 1.1, 29) One Further Term of twelve (12) months

4.4 Period 1 Conditions

4.4.1 Background Information

- Period 1 Access permitted from 11th October 2024
- Farm operations during Period 1 are identified by paddock in Appendix A Paddock Plan, Operations vary but are not limited to:
 - Shearing- Shearing dates are variable due to availability of shearers and subject to seasonal conditions
 - Cropping- Hay and crop harvesting will occur from late October to early December

4.4.2 Access Requirements

- 5 business days' notice required to access property, positive confirmation must be received by Tenant or stakeholder representative prior to accessing property.
 - Reconfirm access 24hrs prior via phone call and/or text message with acknowledgement (positive comms)
- Approved property access points are located on the FMP maps located in Appendix A.
- No access is permitted outside of approved property access points.
- All personnel accessing property to work with Tenant on best routes to access early works work fronts with the least amount of impact to farming operations.
- A sign in register must be located at property entrance, all personnel to sign in and out of property upon entry and exit. Register to be kept as record of access to property with copies sent to the Tenant upon request. Template Located in Appendix B.
- All gates on property to be shut at all times.

4.4.3 Biosecurity Requirements

- Where reasonable and practical, minimise people, equipment and vehicles on property.

2. Biosecurity requirements to comply with the *NSW Biosecurity Act 2015*, IRPL Environment Management Plan and IRPL Biosecurity Strategy as listed in Section 3 Reference Documents

4.4.4 Period Forecasting

1. Due to the sporadic nature of early works activities, a base plan of activities will be outlined to the Tenant in Period 1. Contact to enter the property will be made on an 'as required' basis as per the requirements in Section 4.4.2 Access Requirements.
2. The Tenant will be notified of a drop-dead date of 1st February 2025 of any changes to the forecasted construction period (Period 2) to allow the Tenant to prepare for Lambing season (if required).

4.4.5 Activities Requirements

1. All items as described in this document to be satisfactorily adhered to as required.
2. Survey pegs installed during this period to be identified with markers of 600mm minimum height to reduce the risk of damaging vehicles or injuring stock.
3. Activities such as geotechnical investigations, test pits or any other activity where there is temporary ground disturbance or where equipment or work areas remain open must have stock proof temporary fencing erected around the work zone. This condition must also consider timing for potential settlement of disturbed areas where all ground disturbance is consolidated and compacted to natural ground level.
- 3.1 An assurance activity must be undertaken to check the settlement of disturbed areas during Period 1, <2 months >1 month post rehabilitation.
4. Temporary fence panels must comply to the following:
 - Minimum Height 1.6m
 - Mesh with spacing that will not permit access of lambs, goats, sheep and other cattle

4.4.6 Period 1 Site Investigations

Period 1 site investigations are listed in Table 5 below. The location, amount and type of investigation required are subject to detailed design maturity and may change at any time.

Table 5: Period 1 Site Investigations

INFRASTRUCTURE TYPE	START CH	END CH	PROPERTY	DETAILS
1xBH-GW, 4xBH	14400	14600	McKenzie	100-150mm dia. bore hole
2xTP, 1xBH	15525	16000	McKenzie	100-150mm dia. bore hole 1m x 1m x (0.4m-1m deep) pit
1xBH	16050	16175	McKenzie	100-150mm dia. bore hole
1xTP	16500	16725	McKenzie	1m x 1m x (0.4m-1m deep) pit
1xBH	16950	17300	McKenzie	100-150mm dia. bore hole
ETV Testing	16615	-	McKenzie	3 samples of 1m x 0.5m and 0.2m deep
ETV Testing	16800	-	McKenzie	3 samples of 1m x 0.5m and 0.2m deep
ETV Testing	17500	-	McKenzie	3 samples of 1m x 0.5m and 0.2m deep
Ecology Survey	14240	18460	McKenzie	Walk alignment to verify flora/fauna

4.5 Period 2 Conditions

4.5.1 Background Information

1. Period 2 Access permitted from 30th March 2025
2. Farm operations during Period 2 are identified by paddock in Appendix A Paddock Plan, Operations vary but are not limited to:
 1. Shearing- Shearing dates are variable due to availability of shearers and subject to seasonal conditions
 2. Cropping- Hay and crop harvesting will occur from late October to early December
3. IRPL Stakeholder team to engage Tenant on update to the paddock plan for Period 2 duration.

4.5.2 Access Information

1. A notice of commencement letter will be prepared and submitted to the Tenant 15 Business Days prior to required site access. This letter outlines the requirement for open access to the IRPL corridor for the duration of the Period 2 phase.
2. The approved property entry point is located on the Paddock Map in Appendix C.1.
3. No access is permitted outside of approved property access points.
4. A sign in register must be located at property entry point, all personnel to sign in and out of property upon entry and exit. Register to be kept as record of access to property with copies sent to the Tenant upon request. Template Located in Appendix B.
5. All gates on property to be shut at all times.

4.5.3 Biosecurity Requirements

1. Where reasonable and practical, minimise people, equipment and vehicles on property.
2. The construction Contractor will provide an appropriate Biosecurity Management Plan that complies to the requirements of the approved EIS, *NSW Biosecurity Act 2015*, IRPL Environment Management Plan and IRPL Biosecurity Strategy as listed in Section 3 Reference Documents.

4.5.4 Period Forecasting

1. Prior to the commencement of the construction phase of the project (Period 2), the Tenant will be provided a list of construction activities and baseline dates to aid in farm operation and management.
2. Updates will be provided at a minimum on a twice monthly basis.
3. Tenant and construction contractor communication protocol is to be agreed and implemented prior to the commencement of Period 2 activities.

4.5.5 Activities Requirements

1. Zonal safe working areas and work fronts will be identified in consultation with the Tenant. Depending on the activity, these work areas will be fenced with either temporary fencing as described in Section 4.4.5 Period 1 conditions or fenced with a permanent fencing solution.
2. The Contractor is to engage the tenant in Period 1 to agree on a plan for all farm infrastructure impacted by the construction phase of the project. Farm infrastructure includes but is not limited to internal roads, water pipelines, cattle troughs fencing etc. impacted by the Project. The purpose of the plan is to ensure continued farm operations throughout all periods of the project.

3. All items as described in this document to be satisfactorily adhered to as required.
4. In areas where stock and farm operations are present, Survey pegs installed in areas where stock are present to be identified with markers of 600mm minimum height to reduce the risk of damaging vehicles or injuring stock.

4.6 Period 3 Conditions

Period 3 conditions are subject to lease extension as referenced in Section 4.3 Farm Management Plan Objectives. This plan is to be updated as required.

Appendix A Paddock Plan

<u>Paddock Identifier</u>	<u>Paddock Name</u>	<u>LOT</u>	<u>11TH TO 31ST OCT24</u>	<u>1ST NOV- 30TH NOV24</u>	<u>1ST DEC- 31ST DEC24</u>	<u>1ST JAN- 31ST JAN25</u>	<u>1ST FEB- 28TH FEB25</u>	<u>1ST MAR- 30TH MAR25</u>
1	Creek	28 / 751401, 103 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
2	Little Rock	107 / 751401	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
3		108 / 751401	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
4	Fondale	3 / 134014, 28 / 751401, 103 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
5		3 / 134014, 28 / 751401	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
A	Lucerne	103 / 751401, 303 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
B	Little Pond	303 / 751401, 103 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
C	Road Hill	70 / 751401, 303 / 751401, 322 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
D	Middle Hill	70 / 751401, 303 / 751401, 322 / 751401, 109 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
E	Sandy Creek	109 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
F	Hay Shed	106 / 751401, 107 / 751401	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop

MANAGEMENT PLAN FARM MANAGEMENT PLAN 'GRASMERE'

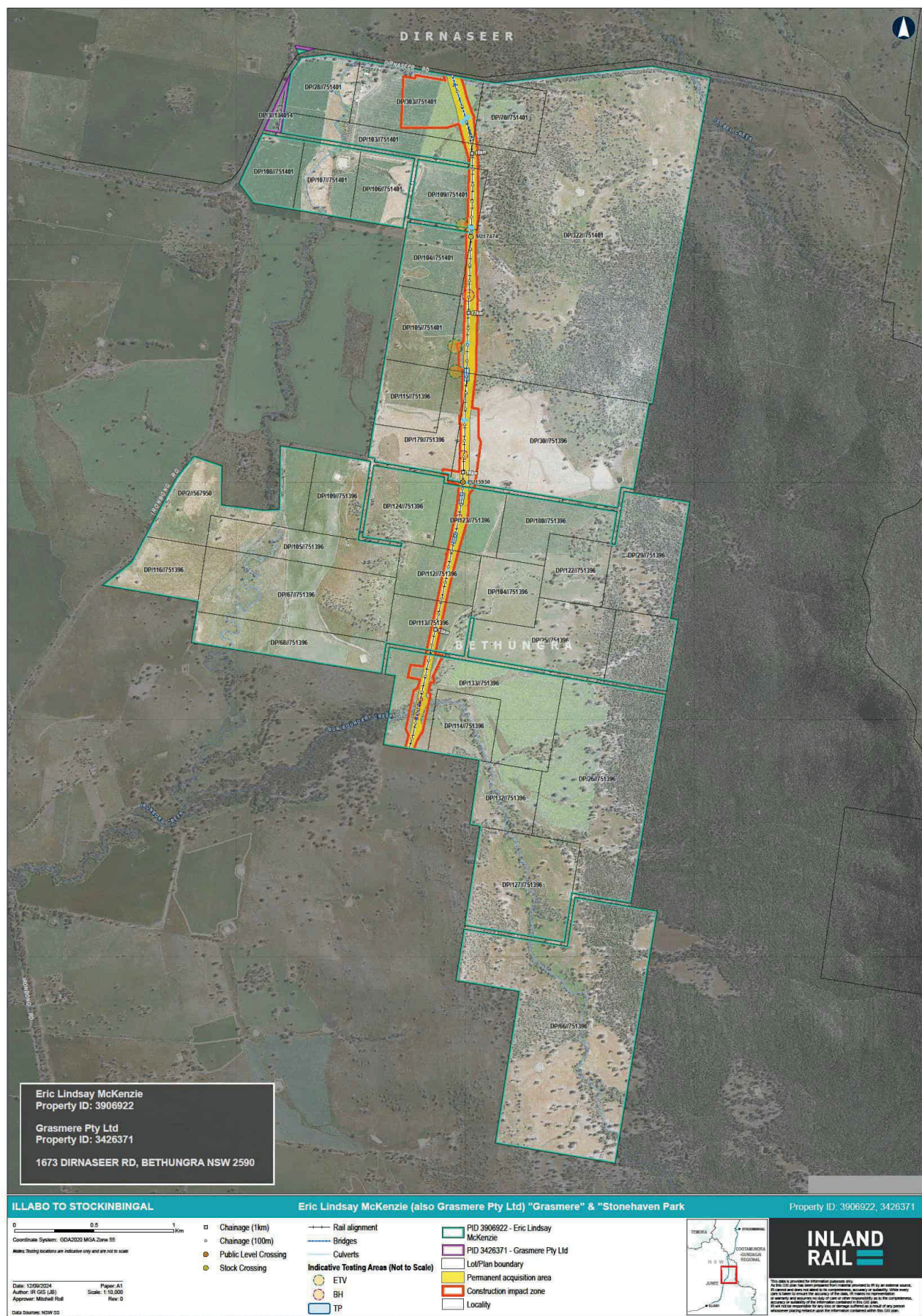
<u>Paddock Identifier</u>	<u>Paddock Name</u>	<u>LOT</u>	<u>11TH TO 31ST OCT24</u>	<u>1ST NOV-30TH NOV24</u>	<u>1ST DEC-31ST DEC24</u>	<u>1ST JAN-31ST JAN25</u>	<u>1ST FEB-28TH FEB25</u>	<u>1ST MAR-30TH MAR25</u>
G	Black Stump	104 / 751401, 105, 751401, 322 / 751401,	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
H	Tip	322 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
I		322 / 751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
J	Piggery Hill	30 / 751396, 322/751401	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
K	Yard	30 / 751396	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
L	Front Tip	105 / 751401, 115/751396, 322/751401, 179 / 751396,	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
M	Corner	115 / 751396, 179 / 751396, 30/751396	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
N	Old Woolshed	2/567950, 105/751396, 67/751396, 116 / 751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
N2	Water Meter	2 / 567950, 105/751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
O	Salt Hill	2 / 567950, 67 / 751396, 68 / 751396, 105 / 751396, 109 / 751396, 124/751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
P	Boggy	67 / 751396, 105 / 751396, 123 / 751396, 124 / 751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
R	Little Red	30/751396, 122/751396, 123 / 751396, 180 / 751396	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)

MANAGEMENT PLAN FARM MANAGEMENT PLAN 'GRASMERE'

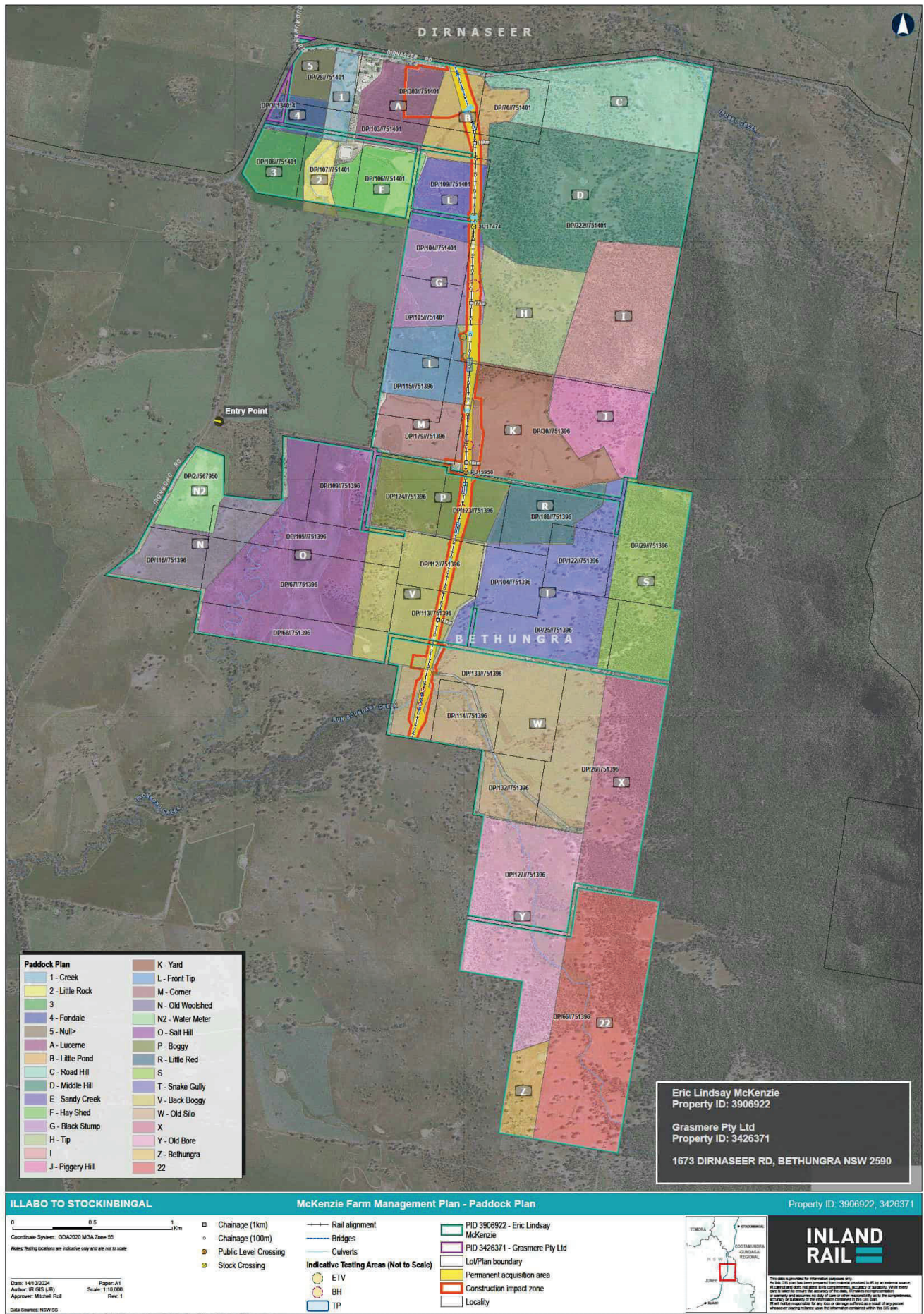
<u>Paddock Identifier</u>	<u>Paddock Name</u>	<u>Lot</u>	<u>11th to 31st Oct24</u>	<u>1st Nov-30th Nov24</u>	<u>1st Dec-31st Dec24</u>	<u>1st Jan-31st Jan25</u>	<u>1st Feb-28th Feb25</u>	<u>1st Mar-30th Mar25</u>
S		29 / 751396, 122 / 751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
T	Snake Gully	25/751396, 104 / 751396, 112 / 751396, 113 / 751396 , 122 / 751396, 123 / 751396 , 180 / 751396	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
V	Back Boggy	67 / 751396, 68 / 751396, 105 / 751396, 112 / 751396, 113 / 751396, 133 / 751396	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
W	Old Silo	26/751396, 114 / 751396, 132 / 751396, 133 / 751396	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)	Livestock (Sheep)
X		26 / 751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
Y	Old Bore	66/751396, 127 / 751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
Z	Bethungra	66/751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop
22		66 / 751396	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop	Livestock (Sheep)/and or crop

***Bold** = Lots containing Inland Rail corridor.

Appendix C Property Map



C.1 Paddock Map





Appendix H – Aboriginal Heritage Items, Places or Objects

Site name	AHIMS ID	Site type	Site sub-type	Validity	ACHAR recommendation
ARTC 1	50-5-0266	Artefacts	Low density scatter	Valid	Implement no go zone
ARTC 2	50-5-0267	Artefacts	Low density scatter	Valid	Pre-construction survey to confirm extent of site and location of artefact
ARTC 3	50-5-0274	Isolated artefact	Isolated artefact	Valid	Nil
ARTC 4	50-5-0276	Isolated artefact	Isolated artefact	Valid	Surface collection (if impacted)
ARTC 5	50-5-0275	Isolated artefact	Isolated artefact	Destroyed	Nil
ARTC 6	50-5-0277	Culturally modified tree	Scarred tree	Valid	Nil
ARTC 7	50-5-0285	Isolated artefact	Isolated artefact	Valid	Nil
ARTC 8	50-5-0284	Artefacts	Low density scatter	Valid	Nil
ARTC 8	50-5-0284	Artefacts	High density scatter	Valid	Nil
ARTC 9	50-5-0283	Isolated artefact	Isolated artefact	Valid	Nil
ARTC 10	50-2-0054	Isolated artefact	Isolated artefact	Valid	Pre-construction survey to confirm extent of site and location of artefact
ARTC 11	50-2-0055	Isolated artefact	Isolated artefact	Valid	Pre-construction survey to confirm the location of artefact
ARTC 12	50-5-0268	Isolated artefact	Isolated artefact	Valid	Pre-construction survey to confirm the location of artefact
ARTC 13	50-5-0269	Isolated artefact	Isolated artefact	Valid	Nil
ARTC 14	50-5-0270	Isolated artefact	Isolated artefact	Valid	Nil
ARTC 15	50-5-0271	Artefacts	Low density scatter	Valid	Nil
ARTC 16	50-5-0272	Isolated artefact	Isolated artefact	Valid	Pre-construction survey to confirm extent of site and location of artefact
ARTC 17	50-5-0273	Isolated artefact	Isolated artefact	Valid	Surface collection
ARTC 18	50-5-0286	Culturally modified tree	Scarred tree	Valid	Implement no go zone
ARTC 19	50-2-0058	Culturally modified tree	Scarred tree	Valid	Implement no go zone
ARTC 20	50-5-0297	Culturally modified tree	Scarred tree	Valid	Implement no go zone
Zone 1 (high density scatters)	50-5-0293	Artefacts	High density scatter	Valid	Salvage
Zone 1 (low density scatters)	50-5-0293	Artefacts	Low density scatter	Valid	Nil
Zone 1 (PAD)	50-5-0280	Potential archaeological deposit	Potential archaeological deposit	Destroyed	Nil
Zone 2 (high)	50-5-0294	Artefacts	High density scatter	Valid	Salvage

density scatter)							
Zone 2 (low density scatter)	50-5-0294	Artefacts		Low density scatter	Valid	Nil	
Zone 2 (PAD)	50-5-0278	Potential archaeological deposit		Potential archaeological deposit	Destroyed	Nil	
Zone 4 (PAD)	50-5-0287	Potential archaeological deposit		Potential archaeological deposit	Destroyed	Nil	
Zone 5 North (PAD)	Not registered	Potential archaeological deposit		Potential archaeological deposit	Valid	Survey and possible test excavations	
Zone 5 South (PAD)	Not registered	Potential archaeological deposit		Potential archaeological deposit	Valid	Survey and possible test excavations	
Zone 6 (PAD)	Not registered	Potential archaeological deposit		Potential archaeological deposit	Valid	Survey and possible test excavations	
Zone 7 North (PAD)	50-5-0281	Potential archaeological deposit		Potential archaeological deposit	Valid	Nil	
Zone 7 South (PAD)	50-5-0288	Potential archaeological deposit		Potential archaeological deposit	Not a site	Nil	
Zone 8 (PAD)	50-5-0282	Potential archaeological deposit		Potential archaeological deposit	Not a site	Nil	
Zone 9	Not registered	Unsurveyed area		Unsurveyed area	Valid	Survey	
Zone 10	Not registered	Unsurveyed area		Unsurveyed area	Valid	Survey	
Zone 11 (low density scatter)	50-2-0068	Artefacts		Low density scatter	Valid	Nil	
Zone 11 (PAD)	50-2-0056	Potential archaeological deposit		Potential archaeological deposit	Destroyed	Nil	
Zone 11 East (low density scatter)	50-2-0069	Artefacts		Low density scatter	Valid	Nil	

Zone 11 East (PAD)	50-2-0057	Potential archaeological deposit	Potential archaeological deposit	Destroyed	Nil	
Ring Tree	Not registered	Culturally modified tree	Ring tree	Valid	Implement no go zone	
Scarred Tree	50-5-0120	Culturally modified tree	Scarred tree	Not a site	Nil	
Scarred Tree	50-5-0121	Culturally modified tree	Scarred tree	Not a site	Nil	
Scarred Tree	50-5-0117	Culturally modified tree	Scarred tree	Not a site	Nil	
NA	50-5-0291	Culturally modified tree	Unknown	Valid	Nil	

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