



Notification of approval

Ensham Life of Mine Extension Project, Queensland (EPBC ref 2020/8669)

This decision is made under section 133(1) of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Note that section 134(1A) of the EPBC Act applies to this approval. That provision provides, in general terms, that if the approval holder authorises another person to undertake any part of the Action, the approval holder must take all reasonable steps to ensure that the other person is informed of any conditions attached to this approval, and that the other person complies with any such conditions.


Approved Action

person to whom the approval is granted (approval holder)	Bligh Coal Limited Idemitsu Australia Pty Ltd Bowen Investment (Australia) Pty Ltd
ACN of approval holder	Bligh Coal Limited ACN: 010 186 393 Idemitsu Australia Pty Ltd ACN: 010 236 272 Bowen Investment (Australia) Pty Ltd ACN: 002 806 831
Action	To extend the operation of the underground bord and pillar working of Ensham Mine and to decommission the coal mine, located approximately 35 km east of Emerald in Queensland. See EPBC Act referral 2020/8669.

Approval decision

decision	My decisions on whether or not to approve the taking of the Action for the purposes of each controlling provision for the Action are as follows.						
	<table><thead><tr><th>Controlling Provision</th><th>Decision</th></tr></thead><tbody><tr><td>Listed threatened species and communities (section 18 and section 18A)</td><td>Approved</td></tr><tr><td>Coal seam gas or large coal mining development with significant impact on water resources (section 24D and section 24E)</td><td>Approved</td></tr></tbody></table>	Controlling Provision	Decision	Listed threatened species and communities (section 18 and section 18A)	Approved	Coal seam gas or large coal mining development with significant impact on water resources (section 24D and section 24E)	Approved
Controlling Provision	Decision						
Listed threatened species and communities (section 18 and section 18A)	Approved						
Coal seam gas or large coal mining development with significant impact on water resources (section 24D and section 24E)	Approved						
period for which the approval has effect	This approval has effect until 31 December 2045.						
conditions of approval	The approval is subject to conditions under the EPBC Act as set out in Annexure A.						

Person authorised to make decision

name and position	The Hon Tanya Plibersek MP Minister for the Environment and Water
signature	
date of decision	30.6.23

Annexure A

Note: Words appearing in **bold** have the meaning assigned to them at PART C – DEFINITIONS.

Part A – Conditions specific to the Action

Maximum Clearance Limits

- 1) The approval holder must not **clear** outside the **project area**.
- 2) The approval holder must not **clear** any habitat for **protected matters**.

Groundwater Dependent Ecosystems (GDEs)

- 3) To minimise **harm to protected matters**, within 12 months of the date of this approval, the approval holder must submit to the **department**, for the **Minister's** written approval, a GDE Monitoring and Management Plan (GDEMMP). The approval holder must implement the approved GDEMMP from when it is approved until the expiry date of this approval.
- 4) If the GDEMMP has not been approved by the **Minister** in writing within 15 months of this approval, and the **Minister** notifies the approval holder that the GDEMMP is not suitable for approval, the **Minister** may, at least two months after so notifying the approval holder, approve a version of the GDEMMP prepared or revised by the **department**. The approval holder must implement the GDEMMP as approved by the **Minister** in writing, from when it is approved until the expiry date of this approval.
- 5) The outcome of implementing the GDEMMP must be that all **GDEs** potentially impacted by the Action are identified and any impacts are avoided, mitigated or residual impacts are offset in accordance with the **Environmental Offsets Policy**. The GDEMMP must be consistent with the **Environmental Management Plan Guidelines** and include the following to the satisfaction of the **Minister**:
 - a) the details and results of a **GDE field assessment** of the **project area**.
 - b) if any **riparian vegetation** or **Brigalow on alluvial plains** within the **project area** is found to not be groundwater dependent, the evidence used to draw this conclusion.
 - c) if any **riparian vegetation** or **Brigalow on alluvial plains** is determined likely to be groundwater dependent, a description and map/s to clearly define the location and boundaries of **GDEs** and where they include habitat for **protected matters**.
 - d) if any **riparian vegetation** or **Brigalow on alluvial plains** is determined likely to be groundwater dependent, the proposed methodology and timing for the monitoring and detection of any impacts to **GDEs** as a result of the Action, including collecting baseline data and specifying associated:
 - i) trigger values that, if reached, the approval holder commits to investigate the cause of and take effective corrective actions to bring values below the trigger, and
 - ii) limits that, if exceeded, the approval holder commits to provide environmental offsets to compensate for likely residual impacts to **GDEs** as a result of the Action in accordance with condition 9.

- e) details of the investigations and corrective actions that will be taken if trigger values are reached.
- 6) If, at any time during the period for which the approval has effect, the approval holder detects that any trigger value specified in the approved GDEMMP has been reached or any limit specified in the approved GDEMMP exceeded, the approval holder must notify the **department** in writing within 10 **business days** of the detection.
- 7) Within 14 **business days** of detecting the reaching or exceeding of a trigger value or limit that must be notified under condition 6, the approval holder must commence an investigation to determine if the reaching of a trigger value or exceedance of a limit is a result of the Action.
- 8) The approval holder must, within 60 **business days** of a detection that must be notified under condition 6, complete and submit to the **department** a report of the investigation required under condition 7. Unless evidence can be provided, to the **Minister's** satisfaction, that the reaching of a trigger value is not attributable to the Action, the approval holder must implement the corrective actions in accordance with the commitments made in the approved GDEMMP to halt and prevent further **harm to protected matters**.
- 9) If a limit specified in the approved GDEMMP is exceeded the approval holder must, within 12 months from the detection of the exceedance, submit an Offset Management Plan to address residual **harm to protected matters** to the **department** for the **Minister's** written approval. The Offset Management Plan must be consistent with the **Environmental Management Plan Guidelines** and the **Environmental Offsets Policy** and contain the information and commitments specified in [Attachment 4](#). The approval holder must implement the approved Offset Management Plan from when it is approved by the **Minister** in writing until the expiry date of this approval.
- 10) If an Offset Management Plan is required under condition 9 and an Offset Management Plan has not been approved by the **Minister** in writing within 4 months of its first submission to the **department** and the **Minister** notifies the approval holder that the Offset Management Plan is not suitable for approval, the **Minister** may, at least two months after so notifying the approval holder, approve a version of the Offset Management Plan prepared or revised by the **department**. The approval holder must implement the Offset Management Plan as approved by the **Minister** in writing.

Subsidence Monitoring and Management Plan (SMMP)

- 11) To manage potential impacts on **protected matters**, the approval holder must, within 12 months of the date of this approval, submit to the **department** for the **Minister's** written approval a Subsidence Management and Monitoring Plan (SMMP) developed by a **suitably qualified expert**. The SMMP must reliably predict subsidence caused by the Action that may cause **harm to protected matters** arising from the Action. The SMMP must:
 - a) specify trigger values that will provide early warning of potential subsidence that may cause **harm to protected matters**.
 - b) specify a program and network of monitoring capable of prompt detection of any specified trigger value so as to prevent **harm to protected matters**.

- c) specify procedures for prompt notification to the **department** and details of investigation that will be undertaken if monitoring detects a specified trigger value being reached or exceeded.
 - d) specify corrective actions to be undertaken to stop the cause of the trigger value being reached or exceeded and bring values under the trigger level.
 - e) specify procedures to determine the potential extent and severity of actual and potential **harm to protected matters**.
 - f) specify procedures to promptly report to the **department** the findings of investigations into the cause of any trigger value being reached or exceeded and the extent of any **harm of subsidence on protected matters**.
 - g) specify procedures to promptly remediate **harm to protected matters** where this can reliably be achieved.
 - h) make firm, clear commitments and specify procedures and timeframes to provide an offset consistent with the **Environmental Offsets Policy** for any **harm to protected matters** which has resulted from, or is likely to result from subsidence including submitting an Offset Management Plan for the **Minister's** written approval, which contains the information and commitments specified in Attachment 4.
 - i) specify control measures for routine operations to minimise likelihood of **harm to protected matters**.
 - j) specify contingency plans and emergency procedures for non-routine situations.
 - k) specify procedures for periodic review of environmental performance and continual improvement.
- 12) If the SMMP has not been approved by the **Minister** in writing within 16 months of this approval decision, and the **Minister** notifies the approval holder that the SSMP is not suitable for approval, the **Minister** may, at least two months after so notifying the approval holder, approve a version of the SMMP prepared or revised by the **department**. The approval holder must implement the approved SMMP as approved by the **Minister** in writing from when it is approved until the expiry date of this approval.
- 13) If an Offset Management Plan is required in accordance with the approved SMMP for any **harm to protected matters** which has resulted from, or is likely to result from, the Action but has not been approved by the **Minister** in writing within 4 months of when the submission of an Offset Management Plan is required in accordance with the approved SMMP, and the **Minister** notifies the approval holder that the Offset Management Plan is not suitable for approval, the **Minister** may, at least two months after so notifying the approval holder, approve a version of the Offset Management Plan prepared or revised by the **department**. The approval holder must implement the approved Offset Management Plan as approved by the **Minister** in writing, from when it is approved by the **Minister** in writing until the expiry date of this approval.

Part B – Administrative conditions

REVISION OF ACTION MANAGEMENT PLANS

- 14) The approval holder may, at any time, apply to the **Minister** for a variation to an action management plan approved by the **Minister**, by submitting an application in accordance with the requirements of section 143A of the **EPBC Act**. If the **Minister** approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of the previous action management plan.

SUBMISSION AND PUBLICATION OF PLANS

- 15) The approval holder must submit all **plans** required by these conditions electronically to the **department**.
- 16) Unless otherwise agreed to in writing by the **Minister**, the approval holder must publish each **plan** on the **website** within 15 **business days** of the date the **plan** is approved by the **Minister** in writing.
- 17) The approval holder must keep all published **plans** required by these conditions on the **website** until the expiry date of this approval.
- 18) The approval holder is required to exclude or redact **sensitive ecological data** from **plans** published on the **website** or otherwise provided to a member of the public. If **sensitive ecological data** is excluded or redacted from a **plan**, the approval holder must notify the **department** in writing what exclusions and redactions have been made in the version published on the **website**.

NOTIFICATION OF DATE OF COMMENCEMENT OF THE ACTION

- 19) The approval holder must notify the **department** electronically of the date of **commencement of the Action**, within 5 **business days** following **commencement of the Action**.
- 20) If the **commencement of the Action** does not occur within 5 years from the date of this approval, then the approval holder must not **commence the Action** without the prior written agreement of the **Minister**.

COMPLIANCE RECORDS

- 21) The approval holder must maintain accurate and complete **compliance records**.
- 22) If the **department** makes a request in writing, the approval holder must provide electronic copies of **compliance records** to the **department** within the timeframe specified in the request.
Note: Compliance records may be subject to audit by the **department**, or by an independent auditor in accordance with section 458 of the **EPBC Act**, and/or be used to verify compliance with the conditions. Summaries of the results of an audit may be published on the **department's** website or through the general media.
- 23) The approval holder must ensure that any **monitoring data** (including **sensitive ecological data**), surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the *Guidelines for biological survey and mapped data*, Commonwealth of Australia 2018.
- 24) The approval holder must ensure that any **monitoring data** (including **sensitive ecological data**), surveys, maps, and other spatial and metadata required under the conditions of this approval

are prepared in accordance with the *Guide to providing maps and boundary data for EPBC Act projects*, Commonwealth of Australia 2021, or as otherwise specified by the **Minister** in writing.

- 25) The approval holder must submit all **monitoring data** (including **sensitive ecological data**), surveys, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the **department** in accordance with the requirements of the relevant **plan**.

ANNUAL COMPLIANCE REPORTING

- 26) The approval holder must prepare a **compliance report** for each 12-month period following the date of this approval decision, or as otherwise agreed to in writing by the **Minister**.

- 27) Each **compliance report** must be consistent with the *Annual Compliance Report Guidelines*, Commonwealth of Australia 2014.

- 28) Each **compliance report** must include:

- a) Accurate and complete details of compliance and any non-compliance with the conditions and the **plans**, and any **incidents**.
- b) One or more **shapefile** showing all **clearing** of **protected matters**, and/or their habitat, undertaken within the 12-month period at the end of which that **compliance report** is prepared.
- c) A schedule of all **plans** in existence in relation to these conditions and accurate and complete details of how each plan is being implemented.

- 29) The approval holder must:

- a) Publish each **compliance report** on the **website** within 60 **business days** following the end of the 12-month period for which that **compliance report** is required.
- b) Notify the **department** electronically, within 5 **business days** of the date of publication that a **compliance report** has been published on the **website**.
- c) Provide the weblink for the **compliance report** in the notification to the **department**.
- d) Keep all published **compliance reports** required by these conditions on the **website** until the expiry date of this approval.
- e) Exclude or redact **sensitive ecological data** from **compliance reports** published on the **website** or otherwise provided to a member of the public.
- f) If **sensitive ecological data** is excluded or redacted from the published version, submit the full **compliance report** to the **department** within 5 **business days** of its publication on the **website** and notify the **department** in writing what exclusions and redactions have been made in the version published on the **website**.

Note: **Compliance reports** may be published on the **department's** website.

REPORTING NON-COMPLIANCE

- 30) The approval holder must notify the **department** electronically, within 2 **business days** of becoming aware of any **incident** and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a **plan**.

- 31) The approval holder must specify in the notification:
- Any condition or commitment made in a **plan** which has been or may have been breached.
 - A short description of the **incident** and/or potential non-compliance and/or actual non-compliance.
 - The location (including co-ordinates), date and time of the **incident** and/or potential non-compliance and/or actual non-compliance.

Note: If the exact information cannot be provided, the approval holder must provide the best information available.

- 32) The approval holder must provide to the **department** in writing, within 12 **business days** of becoming aware of any **incident** and/or potential non-compliance and/or actual non-compliance, the details of that **incident** and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a **plan**. The approval holder must specify:
- Any corrective action or investigation which the approval holder has already taken.
 - The potential impacts of the **incident** and/or non-compliance.
 - The method and timing of any corrective action that will be undertaken by the approval holder.

INDEPENDENT AUDIT

- 33) The approval holder must ensure that an **independent audit** of compliance with the conditions is conducted for every five-year period following the **commencement of the Action** until this approval expires, unless otherwise specified in writing by the **Minister**.
- 34) For each **independent audit**, the approval holder must:
- Provide the name and qualifications of the nominated **independent** auditor, the draft audit criteria, and proposed timeframe for submitting the **audit report** to the **department** prior to commencing the **independent audit**.
 - Only commence the **independent audit** once the nominated **independent** auditor, audit criteria and timeframe for submitting the **audit report** have been approved in writing by the **department**.
 - Submit the **audit report** to the **department** for approval within the timeframe specified and approved in writing by the **department**.
 - Publish each **audit report** on the **website** within 15 **business days** of the date of the **department's** approval of the **audit report**.
 - Keep every **audit report** published on the **website** until this approval expires.
- 35) Each **audit report** must report for the five-year period preceding that audit report.
- 36) Each **audit report** must be completed to the satisfaction of the **Minister** and be consistent with the *Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines*, Commonwealth of Australia 2019.

COMPLETION OF THE ACTION

- 37) The approval holder must notify the **department** electronically 60 **business days** prior to the expiry date of this approval, that the approval is due to expire.
- 38) Within 20 **business days** after the **completion of the Action**, and, in any event, before this approval expires, the approval holder must notify the **department** electronically of the date of **completion of the Action** and provide **completion data**. The approval holder must submit any spatial data that comprises **completion data** as a **shapefile**.

Part C – Definitions

In these conditions any bolded use of a word or term refers to the below definition of that word or term:

Audit report means a written report of compliance and fulfilment of the conditions attached to this approval, objectively evaluated against the audit criteria approved by the **department**.

Business day means a day that is not a Saturday, a Sunday or a public holiday in the state of Queensland.

Brigalow on alluvial plains means regional ecosystem (RE) 11.3.1 as classified by the Queensland Government under the *Vegetation Management Act 1999* (Qld) and represented on the map at [Attachment 3](#) by:

1. the zones of solid pink designated '11.3.1 Endangered, remnant *Acacia harpophylla* low open forest on alluvial plains'; and
2. the zones of pink hatching designated '11.3.1 HVR *Acacia harpophylla* low open forest on alluvial plains'.

Clear, cleared or clearing means the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting, or burning of vegetation, but does not include weeds (see the Australian Weeds Strategy 2017-2027, Commonwealth of Australia 2017 for further guidance).

Commence the Action or Commencement of the Action means the date on which the first instance of any activity associated with the Action (including **clearing** and **construction**) is undertaken. **Commencement of the Action** does not include minor physical disturbance necessary to:

- a) Undertake pre-clearance surveys or monitoring programs.
- b) Install signage and/or temporary fencing to prevent unapproved use of the **Action area**, so long as the signage and/or temporary fencing is located where it does not **harm** any **protected matter**.
- c) Protect environmental and property assets from fire, weeds, and feral animals, including use of existing surface access tracks.

- d) Install temporary site facilities for persons undertaking pre-commencement activities so long as these facilities are located where they do not **harm** any **protected matter**.

Completion data means an environmental report and spatial data clearly detailing how the conditions of this approval have been met.

Completion of the Action means the date on which all activities associated with this approval have permanently ceased and/or been completed.

Compliance records means all documentation or other material in whatever form required to demonstrate compliance with the conditions of approval (including compliance with commitments made in **plans**) in the approval holder's possession, or that are within the approval holder's power to obtain lawfully.

Compliance report means a written report of compliance with, and fulfilment of, the conditions attached to the approval.

Construction means the erection of a building or structure that is, or is to be, fixed to the ground and wholly or partially fabricated on-site; the alteration, maintenance, repair or demolition of any building or structure; any work which involves breaking of the ground (including pile driving) or bulk earthworks; the laying of pipes and other prefabricated materials in the ground, and any associated excavation work; but excluding the installation of temporary fences and signage.

Department means the Australian Government agency responsible for administering the **EPBC Act**.

Environmental Management Plan Guidelines means the *Environmental Management Plan Guidelines*, Commonwealth of Australia 2014.

Environmental Offsets Policy means the *Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy*, Commonwealth of Australia 2012.

EPBC Act means the *Environment Protection and Biodiversity Conservation Act 1999* (Cth).

Field investigations of potential terrestrial GDEs means Jones, C, Stanton, D, Hamer, N, Denner, S, Singh, K, Flook, S & Dyring, M 2019, 'Field investigation of potential terrestrial groundwater-dependent ecosystems within Australia's Great Artesian Basin', *Hydrogeology Journal*, vol. 28, pp. 237–261.

GDE or Groundwater Dependent Ecosystem means any ecosystem whose species and ecological processes rely on groundwater, either entirely or intermittently.

GDE field assessment means on the ground surveys using direct techniques (e.g. stable isotope analysis, leaf water potential measurement or soil moisture potential measurement) to investigate whether **riparian vegetation** and/or Brigalow (*Acacia harpophylla*) on alluvial plains is groundwater dependent and to assess the nature of that dependency undertaken consistent with the **IESC Explanatory Note** and **Field investigations of potential terrestrial GDEs**.

Harm means to cause any measurable direct or indirect disturbance or deleterious change as a result of any activity associated with the Action.

IESC Explanatory Note means Doody TM, Hancock PJ & Pritchard JL 2019, *Information Guidelines Explanatory Note: Assessing groundwater-dependent ecosystems*, Report prepared for the Independent Expert Scientific Committee on Coal Seam Gas and Large Coal Mining Development through the Department of the Environment and Energy, Commonwealth of Australia.

Incident means any event which has the potential to, or does, **harm** any **protected matter**.

Independent means a person or firm who does not have any individual, financial*, employment* or family affiliation or any conflicting interests with the project, the approval holder or the approval holder's staff, representatives, or associated persons.

*Other than for the purpose of undertaking the role for which an independent person is required.

Independent audit means an audit conducted by an **independent** and **suitably qualified person** as detailed in the *Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines*, Commonwealth of Australia 2019.

Minister means the Australian Government Minister administering the **EPBC Act**, including any delegate thereof.

Monitoring data means the data required to be recorded under the conditions of this approval.

New or increased impact means any direct or indirect increase in the impacts of an Action, an increase to the likelihood of an impact occurring, a reduction to the monitoring or mitigation measures for a **protected matter**, and/or a change to the nature or management of an environmental offset as outlined in the *Guidance on 'new or increased impact' relating to changes to approved management plans under EPBC Act environmental approvals*, Commonwealth of Australia 2017.

Plan means any action management plan or strategy that the approval holder is required by these conditions to implement.

Project area means the area within which the Action as described in EPBC Act referral 2020/8669 will be undertaken, represented on the map at Attachment 1 as zones 1, 2 and 3 enclosed by the black lines designated 'Project'.

Protected matter means a matter protected under a controlling provision in Part 3 of the **EPBC Act** for which this approval has effect.

Queensland Government authority means the authority responsible under Queensland Government legislation for regulating activities relating to potential impacts of subsidence.

Riparian vegetation means vegetation on the banks of streams and rivers, represented on the map at Attachment 2 as the zones hatched green designated 'Derived GDE – low confidence'.

Sensitive ecological data means data as defined in the *Sensitive Ecological Data – Access and Management Policy V1.0*, Commonwealth of Australia 2016.

Shapefile means location and attribute information about the Action provided in an Esri shapefile format containing:

- a) '.shp', '.shx', '.dbf' files,
- b) a '.prj' file which specifies the projection or geographic coordinate system used, and
- c) an '.xml' metadata file that describes the shapefile for discovery and identification purposes.

Suitably qualified expert (for the purpose of preparing the SMMP) means a person who has relevant professional qualifications and at least 3 years of work experience preparing and implementing subsidence management plans and can give an authoritative assessment and advice on the effects of underground coal mines on surface topography and ecosystems using relevant protocols, standards, methods and/or literature.

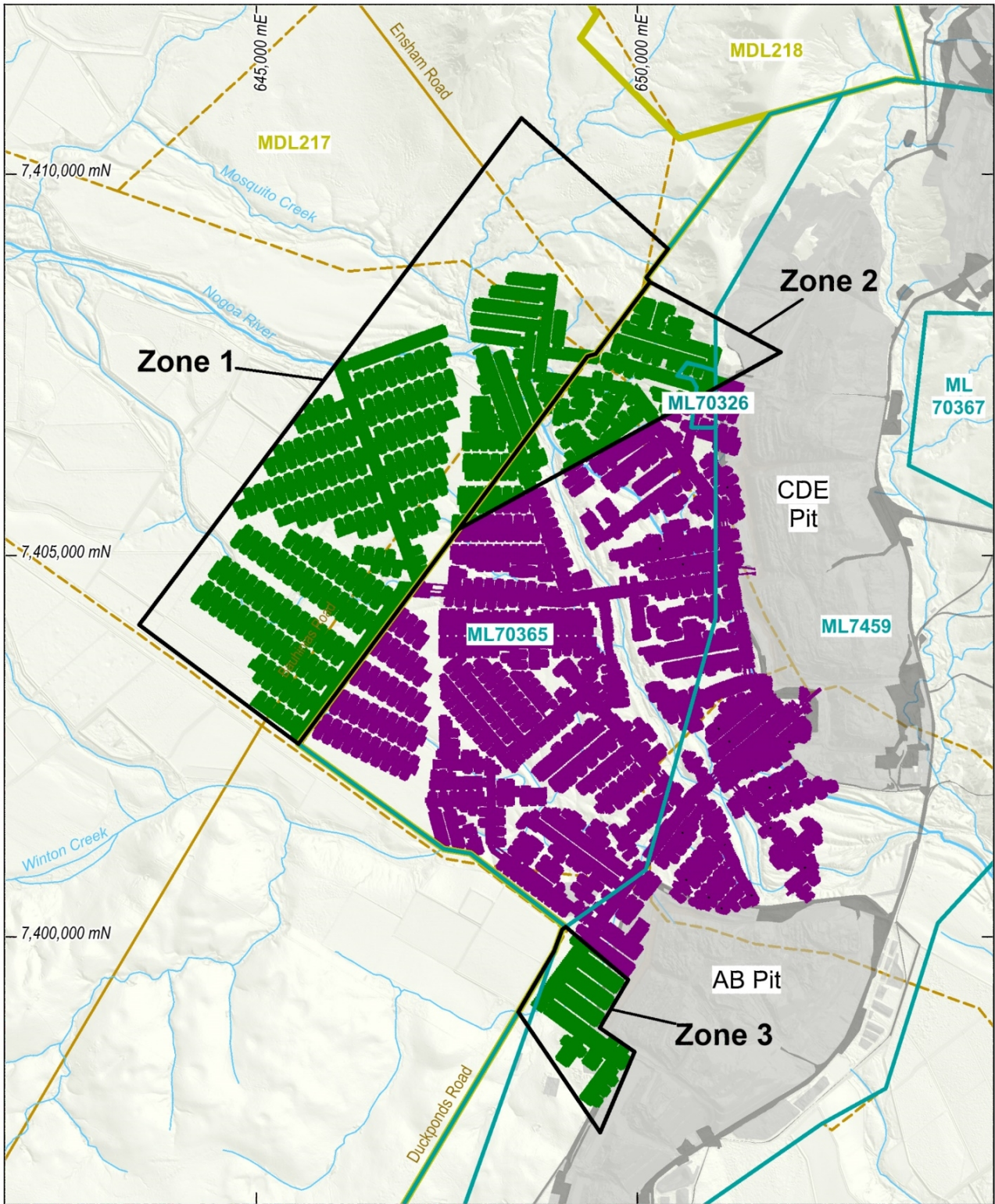
Suitably qualified person means a person who has professional qualifications, training, skills and/or experience related to the nominated subject matter and can give authoritative independent assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods and/or literature.

Website means a set of related web pages located under a single domain name attributed to the approval holder and available to the public.

Attachments

- 1) Attachment 1: Project area
- 2) Attachment 2: Riparian vegetation
- 3) Attachment 3: Brigalow on alluvial plains
- 4) Attachment 4: Minimum Requirements for an Offsets Management Plan

Attachment 1: Project Area



Legend

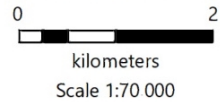
- Project
- Mining Lease
- Mineral Development Licence
- Pit
- Mine Infrastructure Footprint
- Watercourse
- Roads and Tracks**
- Local
- Track or Unconstructed

Mine Plan

- Existing Mining
- The Project



Ensham
RESOURCES



ENSHAM LIFE OF MINE EXTENSION PROJECT

Projection: GDA 1994 MGA Zone 55
Source: © State of Queensland (Department of Natural Resources, Mines and Energy) 2020
13 June 2023

Attachment 2: Riparian vegetation



Figure 8
Groundwater Dependant Ecosystems within the Project Area



Legend

- | | | |
|--------------|---|---|
| Project Area | Ensham mine leases
Mineral development licence | Terrestrial GDE
Derived GDE - low confidence |
| Watercourse | Mining leases | |
| Other road | | |

TERRESTRIAL ECOLOGY
Ensham Life of Mine Extension Project

Projection: GDA 1994 MGA Zone 55 Scale: 1:75,000
Source: State of Queensland, 2019. Imagery: Indemitsu, 2019.

Attachment 3: Brigalow on alluvial plains

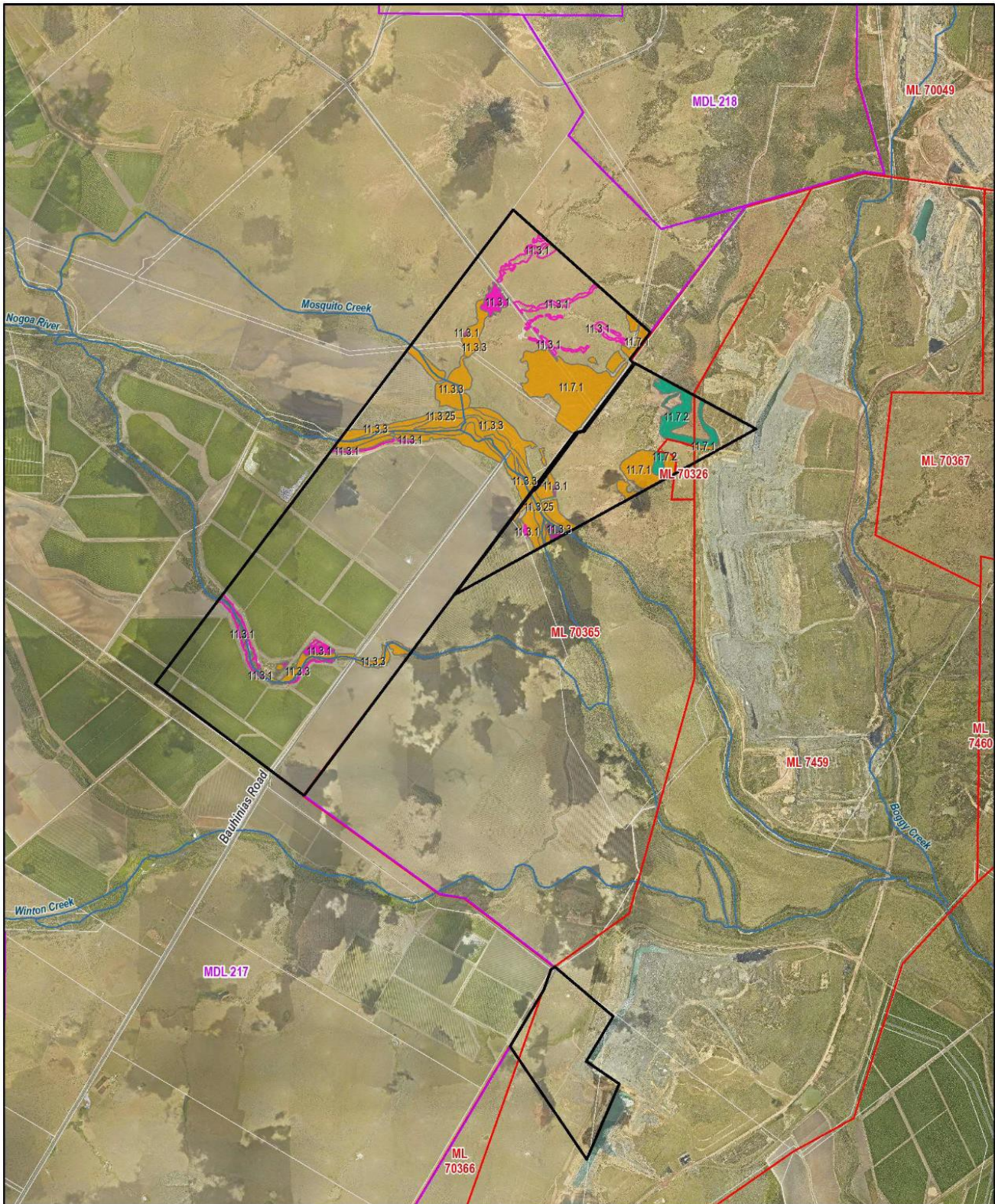


Figure 11
Vegetation communities observed within the Project Area
(Biodiversity status)

Legend

- | | |
|-----------------------------|--|
| Project Area | Biodiversity status - observed regional ecosystems |
| Watercourse | 11.3.1 Endangered, remnant <i>Acacia harpophylla</i> low open forest on alluvial plains |
| Other road | 11.3.1 HVR <i>Acacia harpophylla</i> low open forest on alluvial plains |
| Ensham mine leases | 11.3.25 Of Concern, remnant <i>Eucalyptus camaldulensis</i> woodland fringing drainage lines |
| Mineral development licence | 11.3.3 Of Concern, remnant <i>Eucalyptus coolabah</i> woodland on alluvial plains |
| Mining leases | 11.7.1 Of Concern, remnant <i>Eucalyptus thozetiana</i> woodland with an understorey of <i>Acacia harpophylla</i> on lower scarp slopes on Cainozoic lateritic duricrust |
| | 11.7.2 No Concern, remnant <i>Acacia</i> spp. woodland on Cainozoic lateritic duricrust. Scarp retreat zone |



TERRESTRIAL ECOLOGY
Ensham Life of Mine Extension Project

Projection: GDA 1994 MGA Zone 55 Scale: 1:75,000
Source: State of Queensland, 2019. Imagery: Indemitsu, 2019.
Observed REs: AECOM, 2019

Attachment 4: Minimum Requirements for an Offsets Management Plan

- 1) Reference to the **EPBC Act** approval condition(s) in relation to which the Offset Management Plan is submitted.
- 2) Detailed information on the residual impacts to **protected matters** that will be compensated for by the offset. This must include the area(s) of habitat for **protected matters** and its condition and quality prior to impact caused by the Action at all impact sites which the offset is to address.
- 3) Details of the proposed offset(s) for the residual impacts on **protected matters** and detailed baseline information on the proposed offset(s) consistent with the **Environmental Offsets Policy** to the satisfaction of the **Minister**.
- 4) Commitments to achievable ecological benefits, and timeframes for their achievement, for the proposed offset(s).
- 5) Details of a monitoring program, which must include:
 - a) measurable performance indicators to determine progress towards and attainment of the committed ecological benefits for the **protected matters**;
 - b) trigger values for corrective actions;
 - c) the timing frequency and methods of proposed monitoring capable of detecting trigger values and changes in the performance indicators and determining progress towards, attainment of and subsequent maintenance of the committed ecological benefits for the **protected matters**; and
 - d) proposed corrective actions to ensure the committed ecological benefits for the **protected matters** are attained or maintained if trigger values are reached or performance indicators not attained.
- 6) Details of reporting and review mechanisms and documentation standards to inform others annually regarding compliance with management and environmental performance commitments, and attainment and maintenance of committed ecological benefits.
- 7) Details of how the offset(s) will be protected, and ecological benefits maintained, in perpetuity.
- 8) A table of commitments made in the Offset Management Plan to achieve the committed ecological benefits for relevant **protected matters**, and a reference to where the commitments are detailed in the Offset Management Plan.
- 9) An assessment of risks to achieving the committed ecological benefits and details of the risk management strategies that will be applied to address the identified risks.
- 10) Specify any referenced plans and applicable conditions of any State approval conditions and how these can be accessed.