



Doc ID: EP-03972

28 April 2026

Mr Chris Marshall  
Perilya Freehold Mining Pty Ltd  
Level 8, 251 Adelaide Terrace  
Perth WA 6000

email: [chris.marshall@perilya.com.au](mailto:chris.marshall@perilya.com.au)

Mr David Clarke  
Australian Coloured Oxides Pty Ltd  
9 Curly Hollow Road  
White Hut SA 5575

email: [dclarke@curlybush.com](mailto:dclarke@curlybush.com)

Dear Mr Chris Marshall & Mr David Clarke

### Notification of Approved Exploration Program for Environment Protection and Rehabilitation EPEPR

In reference to your final submission dated 14 April 2026, the EPEPR has been approved pursuant to section 70B(5) of the *Mining Act 1971* (the Mining Act).

The approved EPEPR will be made publicly available on the Mining Register and the Department for Energy and Mining (DEM) website. Details of the approved EPEPR are listed below.

<b>Approval Granted to</b>	<b>Perilya Freehold Mining Pty Ltd Australian Coloured Oxides Pty Ltd</b>
<b>Tenement Type &amp; Number</b>	<i>RL 6; RL 7; EL 6284</i>
<b>Program Number</b>	EP-03972
<b>EPEPR Description</b>	12-Month EPEPR to rehabilitate historic exploration disturbance in the Beltana area.

You are reminded that you must always implement and comply with this approved EPEPR.

#### MINERALS REGULATION

Level 7, 11 Waymouth Street, Adelaide SA 5000 | GPO Box 618 Adelaide SA 5001

Tel (+61) 8 463 3000 | ABN 83 768 683 934



This approval does not constitute endorsement of the systems that you have in place to manage the mining operations in compliance with the Mining Act. Whilst your capability to undertake this activity has been considered in this approval, the responsibility for compliance with the Mining Act always remains with the tenement holder.

The legislative requirements associated with the EPEPR are outlined below, and certain requirements must be actioned prior to commencement of operations authorised by the EPEPR.

<b>1</b>	<b>Public Liability Insurance</b> Pursuant to Regulation 81 of the <i>Mining Regulations 2020</i> (the Mining Regulations), you are required to provide a copy of a certificate evidencing the insurance coverage over the tenements.
<b>2</b>	<b>Compliance Reporting</b> You are required to submit an annual exploration compliance report. The report is required to be submitted <b>within 2 months</b> after the anniversary of the date the licence/ease was granted, or in accordance with joint reporting requirements agreed to with the Minister. Please refer to the DEM <a href="#">website</a> for more information on the reporting requirements. You are reminded that a separate compliance report is required <b>2 months after</b> the expiry or surrender of the EL.
<b>3</b>	<b>Work, Health and Safety Compliance</b> In accordance with Chapter 10 of the <i>Work Health and Safety Regulations 2012</i> (SA), you must meet the requirements for mine operators in South Australia, which include a notification for mining operations, the establishment of a Safety Management System, the identification of Principal Mining Hazards and development of a Principal Mining Hazard Management Plan. Further information on your responsibilities, including a guide to Chapter 10, and the Mine Operator Notification Form, is available on the <a href="#">SafeWork SA website</a> .
<b>4</b>	<b>EPEPR Timeframe</b> The EPEPR is approved for a period of twelve months from the date of this letter. A further 3 months after expiry of the 12-month period is provided to complete all rehabilitation.

Please note, proposed changes to exploration operations stated in the approved EPEPR may require a EPEPR review to be submitted for assessment. Where a EPEPR review is required, implementation of the operational changes can only occur after the revised EPEPR is approved. Further information on when an exploration PEPR review is required can be found in Departmental guideline [MG22 Conducting mineral exploration](#).

In addition to the requirements under the Mining Act, you are reminded that your operation will have other legislative requirements that you will need to comply with.

If you have any further queries, please contact DEM staff as below:



<b>General enquiries</b>	Cobus Martins Assessment Officer, Exploration Regulation <a href="mailto:DEM.exploration@sa.gov.au">DEM.exploration@sa.gov.au</a>
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Yours sincerely

A handwritten signature in black ink, appearing to read "SC" or similar initials.

Simon Constable

**DIRECTOR, MINERALS EXPLORATION**

In accordance with delegated powers and functions

The Department's Regulatory Guidelines, Ministerial Determinations and Information Sheets are available at:  
<https://energymining.sa.gov.au/industry/minerals-and-mining/forms-legislation-and-guidance>

# Exploration PEPR - EPEPR | 12 Month PEPR

Reference Number: EP-03972 • Status: Submitted

## Select Applicable PEPR

Previous MERS EPEPR?

No  Yes

Previous PEPR ID

—

Search PEPRs

—

## Applicant and General Details

### Applicant Details

Yung Ju

**Full Name \***

Yung Ju

**Business Phone**

02 9967 4844

## Mobile Phone

0434 089 983

## Email \*

[yung@hemts.com.au](mailto:yung@hemts.com.au) (<mailto:yung@hemts.com.au>)

## Project Supervisor

Dean Rogers, Regional Exploration Manger, Perilya Limited (see attached CV – Appendix A)

Mob: 0408 831 394, email: [dean.rogers@perilya.com.au](mailto:dean.rogers@perilya.com.au)

Marcus Crawford, Senior Exploration Geologist, Perilya Limited (see attached CV – Appendix A)

Mob: 0431 147 858, email: [marcus.crawford@perilya.com.au](mailto:marcus.crawford@perilya.com.au)

## General Details

### Tenement Details \*

Tenement Type	Tenement Name	Tenement Holder
Retention Lease	RL 6	Perilya Freehold Mining Pty Ltd
Retention Lease	RL 7	Perilya Freehold Mining Pty Ltd
Exploration Licence	EL 6284	Australian Coloured Oxides Pty Ltd; Perilya Freehold Mining Pty Ltd

### Operating Company

Perilya Freehold Mining Pty Ltd

If there is another Operating Company, please provide

Account Name	Entity Type	Registered Address	Registered Email
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There are no records to display.

## Project/prospect name

Various historic prospect areas around the Beltana minesite area

## Mineral Model

A programme of rehabilitation will be undertaken over various areas of historic exploration disturbance in the Beltana area as outlined in a Notice of Non-Compliance received on 01 August 2025 (Ref# 2025D058391) in response to site inspections completed in May 2025. Work will consist of three main efforts;

1) Rehabilitation of Individual Historic Drill Collars

-minor clean-up and collar rehabilitation of casings exposed due to erosion

2) Rehabilitation of the Reliance Retention Dam

-levelling & contouring of earth bunds, retention of some topsoil for use in rehabilitation of erosional feature in other affected areas

3) Rehabilitation of Erosional Features Developed in Areas of Historic Exploration Disturbance

-further use of coarse boulders to stabilize erosional banks, infill with gravel & placement of topsoil stockpiled from Reliance retention dam, sand-bagging upslope to divert runoff

-investigate re-seeding of areas using third party contractor (to be determined)

4) Rehabilitation of Historic Drill Pads and Access Tracks on Rocky Substrate

-use of soft tired equipment to clean-up and contour drill pads, placement of topsoil stockpiled from Reliance retention dam

## Primary Commodities \*

Commodity Name ↑	Commodity Group	Grade
All Minerals	Exploration	

## Secondary Commodities

Commodity Name ↑	Commodity Group	Grade
All Minerals	Exploration	

## Project Description

A programme of rehabilitation will be undertaken over various areas of historic exploration disturbance in the Beltana area as outlined in a Notice of Non-Compliance received on 01 August 2025 (Ref# 2025D058391) in response to site inspections completed in May 2025. Work will consist of three main efforts;

1)

Rehabilitation of Individual Historic Drill Collars

-minor clean-up and collar rehabilitation of casings exposed due to erosion

2)

Rehabilitation of the Reliance Retention Dam

-levelling & contouring of earth bunds, retention of some topsoil for use in rehabilitation of erosional feature in other affected areas

3)

Rehabilitation of Erosional Features Developed in Areas of Historic Exploration Disturbance

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4)

Rehabilitation of Historic Drill Pads and Access Tracks on Rocky Substrate

-use of soft tired equipment to clean-up and contour drill pads, placement of topsoil stockpiled from Reliance retention dam

## Proposed Project Schedule

### Start Date

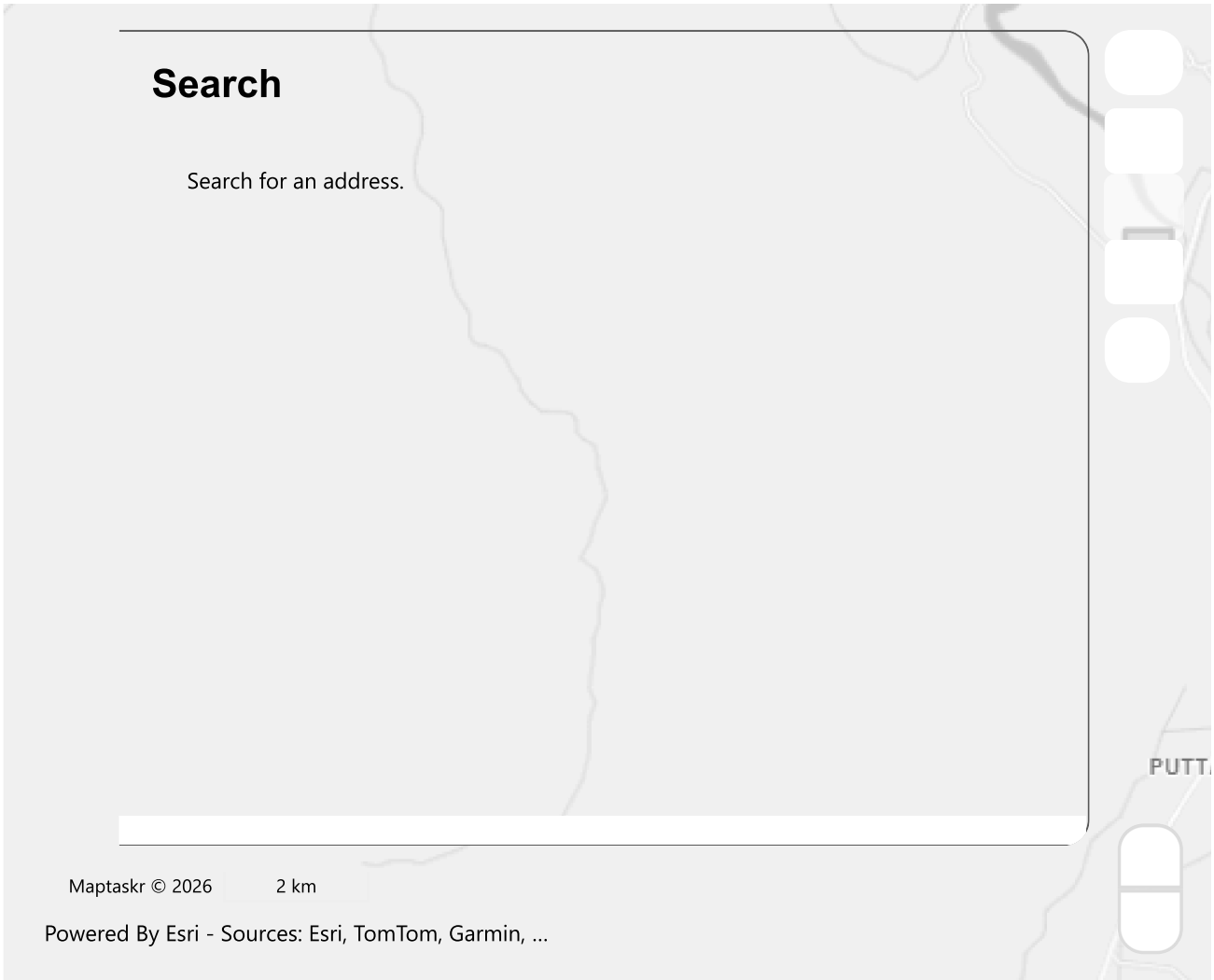
31/10/2025

### End date

30/10/2026

Clearly describe why a PEPR review is required, summarise all content changes made to the approved PEPR, and provide appropriate justification where a time extension is required.

## Identify Application Area



## Map Layer Intersects

### Application Area Details

#### Location Description

Up to 8km radius surrounding the Beltana mine near Leigh Creek, SA.

#### Area (Sqkm)

6.54

### Spatial Data Intersects - Summary Table

Show  entries

Search:

Spatial Layer Name	Category	Referral	Intersect Count
1:250K mapsheets	Other		4
Areas reserved from the Mining Act, 1971 and Opal Act, 1995	No-Go Area		1
Cadastral Parcels	Other		7
Determinations of Native Title	Other		4
Exploration licences (mineral/opal)	No-Go Area		4
Pastoral Lease Boundaries	Other		6
Registered and Notified ILUAs	Other		8
Retention leases (RL)	No-Go Area		2
Terrestrial - BOM Groundwater Dependant Atlas (GDE Atlas)	Other		8

Showing 1 to 9 of 9 entries

Previous

1

Next

## Spatial Data Intersects - Details Table

Show  entries

Search:

Spatial Layer Name	Shape	Primary Attribute	All Attributes	Category
1:250K mapsheets	Shape 2	COPLEY	<a href="#">View attributes</a>	Other
1:250K mapsheets	Shape 2	COPLEY	<a href="#">View attributes</a>	Other
1:250K mapsheets	Shape 2	COPLEY	<a href="#">View attributes</a>	Other
1:250K mapsheets	Shape 2	COPLEY	<a href="#">View attributes</a>	Other
Areas reserved from the Mining Act, 1971 and Opal Act, 1995	Shape 2	Leigh Creek township	<a href="#">View attributes</a>	No-Go Area
Cadastral Parcels	Shape 2	H833900SE37 3	<a href="#">View attributes</a>	Other

Spatial Layer Name	Shape	Primary Attribute	All Attributes	Category
Cadastral Parcels	Shape 2	H833900SE463	View attributes	Other
Cadastral Parcels	Shape 2	H833900BL1052	View attributes	Other
Cadastral Parcels	Shape 2	H833900SE373	View attributes	Other
Cadastral Parcels	Shape 2	H833900BL1052	View attributes	Other

Showing 1 to 10 of 44 entries

Previous

1

2

3

4

5

Next

## Program Preparation

### Work undertaken in preparing the proposal

#### Landowner & Stakeholder Consultation

Initial consultation with landholders regarding the potential work activities have been undertaken however additional consultation will be undertaken once more specific timing of activities have been finalized along with submission of necessary Form 21 Notifications.

An updated Work Area Clearance Agreement was signed with the Adnyamathanha Traditional Lands Association in late 2018 covering access to land with the Stage 1, 2 and 3 Native Title Consent Determination Areas. Previous aboriginal heritage clearance surveys were completed over all the areas of planned drilling between 2001 and 2002 under the previous Work Area Clearance Agreement signed in November 2001 and therefore additional surveying will not be required for the current work.

#### Site Inspections and Rehabilitation Planning

Further inspections and photography of the areas outlined in the Notice of Non-compliance were completed in May-September 2025. Photographs of all disturbance areas were taken with representative photos provided in Section I below. Internal discussions were held in developing a program to address the non-compliance issues particularly with the aim of not resulting in further disturbance through the use of heavy equipment.

#### Earthworks Contractors

Initial discussions with earthworks providers in Leigh Creek have been undertaken however final decisions on equipment to be utilized and availability will be dependent on timing of various activities.

## Operator Capability

A listing of Perilya procedures, policies, inductions and other relevant documentation is provided below. Copies of documents can be provided upon request.

- SOP-001 – Perilya Exploration Environmental Code of Practice
- SOP-003 – Perilya Exploration Drillsite Rehabilitation
- SWP-004 – Perilya Exploration Working in Hot or Extreme Weather Conditions (bush-fire risk)
- Perilya Drillsite Audit Checklist
- Perilya Drillsite Rehabilitation Checklist
- Perilya Rehabilitation Diary database
- Perilya Stakeholder Consultation Diary database
- Perilya General Lease Induction & Assessment
- Perilya Exploration Induction & Assessment

## Lease Conditions

Not applicable.

## Land Access

## Identify the Owners of Land and authority to access land

Land Title Reference	Plan Parcel Reference	Type of Land	Owner of Land ↑	Land Access Authorisation Method	Date of Form 21 or Agreement Signed	Instrument or Uploaded Document Id	Uncheck land not applicable to your application ar
CR 6188/97	H8339 00SE 373	Crown	Adnyamathanha Traditional Lands Association (ATLA) - SCD20 09/003	Land Access Agreement	02/09/2018	Work Area Clearance Agreement	Checked
CR 6262/214	H8339 00SE 463	Crown	Adnyamathanha Traditional Lands Association (ATLA) - SCD20 09/003	Land Access Agreement	02/09/2018	Work Area Clearance Agreement	Checked
CL 6200/853	F4331 5AL20 9	Perpetual Lease	North Moolooloo (Ian Ferguson)	Service of Notice of Entry		Form 21B Notifications TBC	Checked
CL 6186/442	H8339 00BL1 052	Perpetual Lease	Puttapa (Julian Ballie)	Service of Notice of Entry		Form 21B Notifications TBC	Checked
CL 6186/442	H8339 00BL6 93	Perpetual Lease	Puttapa (Julian Ballie)	Service of Notice of Entry		Form 21B Notifications TBC	Checked

Is any of the application area over a road, street or highway

No

## Woomera Prohibited Area (WPA)

Will activities be conducted within the WPA

No

In which zone will activities be conducted?

Name	Are you intending to undertake work?	Closure start date	Closure end date
There are no records to display.			

Does the tenement holder hold a valid and current Resource Exploration Permit under the WPA Rule?

—

Permit No.

—

What is the expiry date of the permit?

—

Does the Exploration Permit allow the operator to conduct exploration operations in the WPA?

—

## Other Land Owned or Controlled by the Commonwealth Department of Defence

Indicate if you are intending to undertake exploration operations within the identified defence land

No

## Other Commonwealth defence land

**Defence Land**

**Applicable**

There are no records to display.

**Do you have a Deed of Access with Defence?**

—

**Expiry date of the Deed of Access**

—

**Date the Range Control Officer granted permission to conduct the proposed exploration operations.**

—

**Describe the results of consultation and how any concerns raised were addressed**

—

## Native Title

**Does 'Native Title land' exist within the application area?**

Yes

Using the table below, describe how you have complied with the requirements of Part 9B of the Mining Act for each tenement.

Name of Determined / Claimant Group	Agreement Type	Instrument Number	Applicable
Adnyamathanha People No. 1 (Stage 1)	Native Title	Work Area Clearance Agreement between Perilya Ltd	Yes
Adnyamathanha Mineral Exploration ILUA			No
Adnyamathanha Settlement ILUA			No

### Provide any additional relevant information

A Work Area Clearance Agreement was signed with the Adnyamathanha Traditional Owners and Native Title Claimants in September 2001, an agreement which was registered as a NTMA for tenement for EL6284 (then EL2524) on 28 November 2001. An updated Work Area Clearance Agreement was signed with the Adnyamathanha Traditional Lands Association (ATLA) in September 2018 covering access to land within the Stage 1, 2 and 3 Native Title Consent Determination Areas which superseded the original 2001 Agreement. Although the more recent agreement has not been registered on title, discussions with DEM are currently underway to have the 2018 Agreement also registered given it supersedes the registered 2001 Agreement. Nevertheless, previous aboriginal heritage clearance surveys were completed over all the areas of planned drilling between 2001 and 2002 under the previous Work Area Clearance Agreement signed in November 2001 and therefore additional surveying will not be required for the current work (See Section J - Map 3). No identified aboriginal sites were identified in any of the proposed drill pad areas. Note that the locations of identified sites have been omitted from Map 3 due to confidentiality concerns. It should also be noted that the ATLA corporate body is currently in administration.

The North Moolooloo and Puttapa properties within the proposed work area will not be accessed until the relevant Form 21B's have been signed and served on the landholders.

## Exempt Land

### Exempt Land

Has Exempt land been identified?

No

If a "Waiver of Exemption" has been reached to waive the benefit of the exemption, a notice of the agreement must be given to the Mining Registrar, either within 21 days after the agreement was entered into or when an application for the mineral tenement is made under the Mining Act.

**In the table below enter the relevant instrument numbers for any Form 23C - Notice of wavier of exemption provided to the Mining Registrar.\***

<b>Land Title</b>	<b>Plan Parcel</b>	<b>Owner of Land that has benefit of exemption ↑</b>	<b>Why is the land exempt land?</b>	<b>Waiver of exemption(s) been negotiated</b>	<b>Instrument Number or Uploaded Document Id</b>
CR 6188/97	H8339 00SE3 73	Adnyamathanha Traditional Lands Association (ATLA) - SCD2009/003			
CR 6262/21 4	H8339 00SE4 63	Adnyamathanha Traditional Lands Association (ATLA) - SCD2009/003			
CL 6200/85 3	F4331 5AL20 9	North Moolooloo (Ian Ferguson)			
CL 6186/44 2	H8339 00BL1 052	Puttapa (Julian Ballie)			
CL 6186/44 2	H8339 00BL6 93	Puttapa (Julian Ballie)			

## Consultation

## Consultation

<b>Stakeholder ↑</b>	<b>Land Use</b>	<b>Matters raised</b>	<b>Stakeholder concerns raised and how addressed</b>
Adnyamathana Traditional Lands Association (ATLA) - SCD2009/00 3			
Adnyamathana Traditional Lands Association (ATLA) - SCD2009/00 3			
EL 6284 - Adnyamathana Traditional Lands Association (ATLA) (SCD2009/003)	Other (e.g. historic mining)	- No current consultation undertaken as area of proposed drilling previously subjected to aboriginal clearance surveys in 2001/2002 therefore no further surveys are necessary.	Work Area Clearance Agreement - Signed 03 Sep 2018 between Perilya Limited and ATLA superceding the Work Area Clearance Agreement signed in 2001. - Covering tenements EL6132, EL6505, EL6504, EL5117, EL6284, EL6595, EL6199.
EL 6284 - North Moolooloo (Ian Ferguson)	Grazing	-No significant concerns raised	- Initial (verbal) consultation undertaken however further discussions will be undertaken once timing of various aspects of the program are finalized.
EL 6284 - Puttapa (Julian Ballie)	Grazing	- No response yet received. No concerns raised as of date.	- Initial (email) consultation undertaken however further discussions will be undertaken once timing of various aspects of the program are finalized.
North Moolooloo (Ian Ferguson)			
Puttapa (Julian Ballie)			

Stakeholder ↑	Land Use	Matters raised	Stakeholder concerns raised and how addressed
Puttapa (Julian Ballie)			

If any individual or group of similar affected persons were not able to be consulted, what steps were taken to consult with them?

Provide any additional relevant information.

Describe any council policies (or out of council) or development plans that may impact the program area and a description of any known plans for future land use changes by other parties.

2012 Flinders Development Plan (now revoked), Planning and Design Code (current):

Recent discussions with DEW have indicated that portions of the Ajax State Heritage Site are proposed for inclusion in a potential World Heritage Application in 2025. Specific outlines for the area to be included have not been finalized however discussions have indicated that the site will not 'be larger' than the existing state heritage site.

## Description of Environment

### Proximity to Infrastructure and Housing

**Provide the following information:**

The area of the proposed activities are located on EL6284, RL6 & RL7 in the North Flinders Ranges approximately 10-15km south of the town of Leigh Creek, SA (Section J - Map 1). The area is approximately 2km east of the Outback Hwy (B83) and standard guage Port August railway, now decommissioned. The project area is located on the Puttapa Station pastoral lease and North Moolooloo Station pastoral lease (Section J - Map 2) with the nearest station homestead being that of North Moolooloo about 8 km to the north east of the project area. The southern neighbouring property homestead (Beltana Station) is about 15 km to the south. No pastoral fencing or gates will need to be modified to enable access to the drill site area as all are of sufficient width to allow passage of equipment. The nearest infrastructure to the proposed work area is in fact the office and disused accommodation facilities for Perilya's Beltana minesite. This infrastructure is located on Perilya Camp Licence 12567 approximately 1km to the southwest. Only the office and core logging areas of the infrastructure are currently in use with the accommodation and kitchen facilities not utilized. The Beltana mine pit area, approximately 2km to the southwest is currently on care and maintenance. There are no buried service lines such as gas, water, electrical or communication lines near the proposed drilling areas as confirmed by review of the 'Dial Before You Dig" online database. Several SA Power overhead powerlines occur along the access route to the drill site however they are of sufficient height to not be impacted by the drilling equipment. See Section J - Maps 1 & 2 for more detailed location information.

**Attach Files** 

Expand/Collapse

<b>File Name</b>	<b>File Size (Mb)</b>	<b>Created On</b>	<b>Download</b>
1. Beltana Rehab EPEPR_Sep29-2025.pdf	3.34 Mb	29-09-2025 16:29:29	<a href="#">Download (MERS/EP-03972/Proximity_to_infrastructure/1.Beltana Rehab EPEPR_Sep29-2025_2025-09-29T06-59-32.446Z.pdf)</a>

**Landform, topography, soil and surface cover**

**Describe the topography and soil and surface cover (e.g. gibber) of the general area affected by the exploration program. Include details on the susceptibility to compaction, erosion, dust, runoff and visual attributes (steep or undulating slopes, plains, rocky outcrops, dunes, saltpans, claypans etc) any other characteristics (e.g. acid sulphate soils) that may require control strategies to reduce environmental impacts during operations or rehabilitation.**

The Beltana Mine site project area is located in the Northern Flinders Ranges. These ranges are characterised by steep ridges and escarpments and broad rounded ridges separated by outwash plains and low lying areas. The Beltana deposit occurs on the eastern and northern flanks of such a ridge, a high point of which has been named Quarry Hill and an area immediately southeast of the existing Beltana Mine open cut pit. The elevation of Quarry Hill and the uppermost reaches of the ridge exceed 300m (as high as 360m in places). In and near the Emu, Wallrider and Anaconda areas, the land surface slopes easterly toward Ajax Creek which flows in a generally northern direction into Emu Creek which drains into Aroona Creek and ultimately the Aroona Dam. Several other minor creeks cut the project area, all of which drain easterly into Ajax Creek. All creeks are ephemeral and flow only in high rainfall events. Much of the project area is of elevation between 280 and 300m, whilst the elevation of Ajax Creek to the east of the lease is about 270m.

The landscape in the area is typical of much of the arid north of South Australia and the northern Flinders Ranges in particular, being essentially unimproved pastoral land, devoid of anthropogenic features apart from occasional vehicular tracks and fencelines. Grazing pressure by native and introduced fauna has resulted in there being only sparse vegetation consisting of scattered trees, little or no understory and limited grass/saltbush cover. Minor gullying and erosion has occurred along and in the vicinity of vehicular and stock tracks.

In a biological survey report by Brandle (1998) covering the North West Flinders Ranges area, dominant landforms were characterized as 1) Rocky hills, outcrops and ranges, 2) clay plains and hill slopes, 3) wetlands (including creeks, flood plains lakes and springs) and 4) sandy desert. All four of these types are present in the general project area with the specific drilling occurring within areas 1) Rocky hills and outcrop and 2) clay plains and hill slopes.

The area is classified within the Pastoral Landscape Zone of the 2012 Flinders Development Plan. The main objective of the Plan with the zone is "the preservation of the environmental and scenic qualities of the foreground of the most prominent ranges". The physiography and infrastructure of the project area is summarized in various photographs in Section I and maps in section J of this application.

Soil and surface cover data is not available on the Location SA viewer with detailed soil mapping data ending just south of Hawker, SA and a combination of other sources were therefore consulted with regard to soil information. 100,000 scale regolith mapping indicates the area is dominated by fresh to moderately weathered bedrock (Material Code: SFM) and data from the Australian Soil Resource Information System (ASRIS) website indicates the area is dominated by well drained, sandy loam and light clay soil types.

The Natural History of the Flinders Ranges (Royal Society of South Australia, 1996) also provides an overview of soils in the Flinders Ranges. In it, it is stated that the soils of this part of the Northern Flinders Ranges will have been sourced from weathering products of the Proterozoic rocks of the Wilpena and Umberatana Groups, plus contributions from the Burra Group and Cambrian sediments. It is also stated that limestone and siltstone ridges and shale hills such as occurring at North Moolooloo are characterised by the presence of powdery calcareous loam soils whilst alluvial floodplains such as occurring nearer Ajax Creek have hard pedal red duplex soils. Rock fragments are common, particularly in the higher relief sections of the project area, where soils are thin or absent.

In the area of the proposed drill pads, soil is characterized by reddish, well compacted soil developed on Cambrian limestone and dolomite. Previous drilling in the area suggests soil cover as being >50cm sitting above 2-3m of transported cover and weathered rocks. Photographs of the proposed work areas attached to this application (Section I - Photos) provide excellent representation of the surface cover in the area. The existing access track to the area is well compacted and should have sufficient stability and resistance to erosion.

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File Size (Mb)



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## Surface Water

**Will the proposed program interfere with surface water bodies and natural drainage (e.g. drainage lines, creeks, floodplains, wetlands)?**

Yes

**Describe the potential interference and surface water bodies and natural drainage on maps.**

Several small ephemeral drainage channels occur within the proposed work area which drain either northward to Emu Creek or eastward to Ajax Creek before flowing into Emu Creek. The creeks are already crossed by a well established station track. Several proposed activities do occur in close proximity to the drainage channels and therefore potential for erosion and silting of the creek is possible. Berms, bunding and temporary catchment structures will be utilized to ensure no material enters the creek either during or after the operations.

Although interference with drainage is not anticipated beyond the pre-existing conditions present, the proximity of the work to minor ephemeral creeks has potential for increased erosion and silting into the watercourse. The following controls will be utilized to minimize the impact.

- minimizing vehicular traffic
- ceasing of work during and immediately after heavy rainfall events
- planning overland access tracks to avoid creek areas
- monitoring of discharge waters for potential run-off to watercourse, stop work if breach occurs or is anticipated

**Indicate how you will avoid disturbance**

—

**Is the program area located within water protection areas defined under the River Murray Act 2003?**

No

**Select the name(s) of protected water areas**

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Is the program area located within any prescribed watercourses or prescribed surface water areas under the Landscape?

No

Select the name(s) of the prescribed watercourses or prescribed surface water areas under the Landscape South Australia Act 2019.

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Attach Files 

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Name	Applicable
There are no records to display.	

## Groundwater

Is groundwater likely to be intersected when conducting the exploration program?

No

Provide evidence or any supporting information demonstrating this.

Not applicable. Given the surficial nature of the work, no impacts to groundwater will occur.

Description of the localities/areas where different groundwater conditions may be encountered

—

Add the different groundwater conditions for each localities/areas to the table below.

Name ↑	Formation age and/or stratigraphic unit	Stratigraphic intervals (depth range) (m)	Aquifer format ion name	Aquifer Interval/thickness (from-to) (m)	Aquifer Type	Aquifer salinity (TDS)	Depth to ground water (m)	Comments
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There are no records to display.

Provide the environmental value of each aquifer present determined according to the current Environment Protection (Water Quality) Policy.

—

Provide a description of the existence, location and value of all Groundwater Dependent Ecosystems (GDE) within and immediately surrounding the project area

No Groundwater Dependent Ecosystems are known in the project area.

Is the proposed program located within a prescribed wells area?

No

Select the prescribed wells

---

Is the proposed program located within a prescribed water resource area?

No

Select the prescribed water resource areas

---

Provide any additional information

—

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## **Native Vegetation**

**Will you be working within areas of native vegetation?**

Yes

## Provide the following information:

The Beltana project area occurs primarily in the Casuarina Woodland vegetation group, bordering on the transition to Chenopod Shrubland (See Section J). Casuarina Woodland is characterized as low open woodlands dominated by *Casuarina pauper* while Chenopod Shrublands are characterized as low shrublands dominated by *Atriplex vesicaria*.

A flora survey by Badman Environmental was initiated by Perilya over the Beltana and Moolooloo area in October 2006. Vegetation at and in the vicinity of the drilling area included *Acacia tetragonophylla* (Dead Finish), *Alectryon oleifolius* ssp. *Canescens* (Bullock Bush), *Atriplex vesicaria* (Bladder Saltbush), *Casuarina pauper* (Black Oak), *Eremophila alternifolia* (Narrow-leaf Emubush), *Exocarpos aphyllus* (Leafless Cherry) and *Myoporum platycarpum* (False Sandalwood). A more thorough listing of species identified is provided below, a Nature Maps search of Flora returned similar results to the common species of Flora listed below.

*Acacia tetragonophylla* (Dead Finish) *Maireana sedifolia* (Bluebush/Pearl Bluebush) *Alectryon oleifolius* ssp. *Canescens* (Bullock Bush) *Myoporum platycarpum* (False Sandalwood) *Atriplex vesicaria* (Bladder Saltbush) *Pimelea simplex* (Desert Riceflower) \**Carrichtera annua* (Ward's Weed) *Ptilotus obovatus* (Silver Mulla Mulla) *Casuarina pauper* (Black Oak) *Sclerolaena longicuspis* (Long-spine Bindyi) *Chamaesyce drummondii* (Caustic Weed) *Sclerolaena obliquicuspis* (Oblique-spined Bindyi) *Eremophila alternifolia* (Narrow-leaf Emubush) *Sclerolaena ventricose* (Salt Bindyi) *Eremophila freelingii* (Rock Emubush) *Sida* sp. (*Sida*) *Exocarpos aphyllus* (Leafless Cherry) *Solanum ellipticum* (Velvet Potato-bush) *Maireana astrotricha* (Low Bluebush) \*denotes introduced species *Maireana pyramidata* (Black Bluebush)

A biological survey of the North West Flinders area (Brandle, 1998) also identified similar species in the greater region which occurred at >40% of all sites monitored, including;

*Atriplex vesicaria* (Bladder Saltbush) *Ptilotus obovatus* (Silver Mulla Mulla) *Enchylaena tomentosa* (Ruby Saltbush) *Rhagodia spinescens* (Spiny Saltbush) *Solanum ellipticum* (Velvet Potato Bush) *Acacia victoriae* (Elegant Wattle) *Maireana pyramidata* (Black Bluebush) *Sida petrophila* (Rock Sida) *Eremophila freelingii* (Rock Emubush)

A search of the SA Nature Maps website of the Beltana Mine area did not identify any threatened or vulnerable flora species although one instance of a State rated rare species *Frankenia subteres* was noted west of the Beltana pit within the search area (Section J), A search of the EPBC website did return several "potential" threatened species in the area including *Codonocarpus pyramidalis* (Slender Bell-fruit) and *Frankenia plicata* although as neither of these species were noted on the SA Nature website, the Atlas of Living Australia nor during previous flora surveys conducted in the Moolooloo area, it is not believed that there are any occurrences within the proposed work areas. A copy of the EPBC search results are included in Section J.

A more recent flora assessment was contracted by Perilya to EBS Ecology in 2018 over the North Moolooloo deposit area on RL6 and EL6284. Flora species identified were similar to those listed by previous studies with no species of state or national conservation status identified.

Given the location of the work areas, and previous searches it is not anticipated that the proposed work will have any impact to threatened or vulnerable species.

Note: The SA NatureMaps website was reviewed in October 2023 to ensure no new entries occurred with respect to threatened or vulnerable flora species in the project area.

Indicate why you will not be working within areas of native vegetation?

Attach Files 

Expand/Collapse

File Name	File Size (Mb)	Created On	Download
3. Appendix B - EPBC Protected Matters Search_Sep29-2025.pdf	0.07 Mb	29-09-2025 16:34:07	<a href="#">Download (MERS/EP-03972/Native Vegetation/3. Appendix B - EPBC Protected Matters Search_Sep29-2025_2025-09-29T07-04-10.108Z.pdf)</a>

Fauna

**Describe the native and feral fauna that may be present in the application area, including feral species.**

A fauna survey of the of native species within the general Beltana area was commissioned by Perilya in mid-2007. No species of state or national conservation significance were recorded during fauna surveys in the vicinity of the prospects. The most common species identified during the survey and searches of Nature Maps All Fauna with similar search aparmeters to the previously described Flora search areas returned the common species;

#### Mammals

*Capra hircus* (Feral Goat)  
*Vespadelus baverstocki* (Inland Forest Bat)  
*Macropus (Osphranter) robustus* (Euro)  
*Pseudomys bolami* (Bolam's Mouse)  
*Macropus (Osphranter) rufus* (Red Kangaroo)  
*Sminthopsis macroura* (Stripe-faced Dunnart)  
*Petrogale xanthopus xanthopus* (Yellow-footed Rock-Wallaby)  
*V Mus Musculus* (Common House Mouse)  
*Oryctolagus cuniculus* (European Rabbit)  
*Tadarida australis* (White-striped Mastiff Bat)  
*Mormopterus sp.* (Southern Freetail-bats)

#### Reptiles

*Ctenophorus vadrappa* (Red-barred Dragon)  
*Morethia boulengeri* (Common Snake-eye)  
*Diplodactylus furcosus* (Ranges Stone Gecko)  
*Gehyra variegata* (Tree Dtella)  
*Gehyra variegata* (NC) (Tree Dtella)  
*Cryptoblepharus plagiocephalus* "PIB" (Desert Wall skink)  
*Menetia greyii* (Dwarf Skink)

#### Birds

*Acanthiza apicalis* (inland Thornbill)  
*Manorina flavigula* (Yellow-throated Miner)  
*Aquila audax* (Wedge-tailed Eagle)  
*Ocyphaps lophotes* (Crested Pigeon)  
*Barnardius zonarius* (Australian Ringneck)  
*Pardalotus striatus* (Striated Pardalote)  
*Cacatua sanguinea* (Little Corella)  
*Petroica goodenovii* (Red-cpped Robin)  
*Climacteris affinis superciliosus* (White-browed Treecreeper)  
*Malurus leucopterus* (White-winged Fairy-wren)  
*Dromaius novaehollandiae* (Emu)  
*Smicrornis brevirostris* (Weebill)

No species of state or national conservation significance were observed, nor identified on the SA Nature Maps website (Section J). A search of the EPBC database highlighted several species which could "potentially" occur in the Beltana area however, including:

*Amytornis textiles modestus* (Thick-billed Grasswren) V  
*Calidris ferruginea* (Curlew Sandpiper) E  
*Pedionomus torquatus* (Plains-wanderer) E  
*Pezoporus occidentalis* (Night Parrot) E  
*Rostratalu austrlis* (Painted Snipe) E  
*Pseudomys australis* (Plains Rat) V

(V = vulnerable, E = endangered)

Numerous other migratory birds were also identified in the EPBC search report. As most species listed are birds and given the lack of suitable habitat in the proposed work area it is considered unlikely that the proposed work will have any effect on the EPBC listed species.

A more recent fauna assessment was contracted by Perilya to EBS Ecology in 2018 over the North Moolooloo deposit area on RL6 and EL6284. Flora species identified were similar to those listed by previous studies with no species of state or national conservation status identified.

## Significant Habitats, Flora & Fauna

Are there any significant habitats, flora and fauna within the project area?

No

Use the table below to list any significant habitats and any rare or endangered flora and fauna species located or reported to have been in the area that may be impacted by the proposed program. Include known sightings of listed species on a locality plan/map.

Species name/habitat	Common name	NPW Act Rating	EBPC Act Rating
There are no records to display.			

Attach Files 

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File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

## Weeds and Pathogens

**Provide information of the extent the area is affected or potentially affected by weeds and pathogens (e.g. phytophthora; buffel grass *Cenchrus ciliaris*).**

A search of the SA Nature website did not return any identified occurrences of weeds of national significance in the project area including buffel grass nor phytophthora pathogens however several buffel grass sightings do occur along the Outback Hwy. As evidenced from the Badman 2006 flora surveying the incidence of introduced species at the Beltana Mine site is very low, with only *Carrichtera annua* (Ward's weed) having been recorded which itself was not particularly common.

**Attach Files** 

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## Aboriginal Heritage

**Describe the steps taken to identify Aboriginal heritage sites within the proposed area of exploration. Include a statement advising if an Aboriginal heritage survey has been conducted by the proponent and if so, the results of the survey.**

Aboriginal heritage clearance surveys were completed over the area with the Traditional Owners in 2001-2002 under a Work Area Clearance Agreement signed in November 2001 and therefore additional surveying will not be required for the current work (See Section J). Any sites identified during the surveys were documented and none occur in the areas of proposed drilling. Note that the locations of known sites have not been included on the map due for confidentiality reasons.

An updated Work Area Clearance Agreement was signed with the Adnyamathanha Traditional Lands Association (ATLA) in late 2018 covering access to land within the Stage 1, 2 and 3 Native Title Consent Determination Areas. Although the agreement has not been registered the process of registration is currently being evaluated.

## Environmentally Sensitive Locations

**Indicate if you are intending to undertake exploration operations within the environmentally sensitive locations listed.**

Yes

Name	Applicable
------	------------

There are no records to display.

**Are you likely to impact on the environmentally sensitive area?**

Yes

**Detail the likely effects the proposed program may have.**

Answered "Yes" to provide list of environmentally sensitive areas. Proposed program not likely to have any impacts on environmentally sensitive areas.

Ajax Mine Fossil Reef (State Heritage Place): No work to be completed near the Ajax Mine Fossil Reef.

Copper King Copper and Ochre Mine (State Heritage Place): No work to be completed near the Copper King Copper and Ochre Mine.

Aroona Sanctuary (Wildlife Refuge): RL7 covering the Aroona 2 work area is wholly within the area referred to as the Aroona Sanctuary, an area set aside primarily for an introduced population of Yellow Footed Rock Wallabies. The wallaby population tends to prefer higher elevations near the Aroona Dam however and it is not anticipated that there will be any impact from the proposed activities.

**Attach Files** 

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No Files Uploaded

**Exploration Operations**

**Equipment and Personnel requirements**

Using the table below, describe the maximum composition of field crews (operator, contractors, and geologists) and proposed working hours/days for each type of activity.

Type of Personnel	Number	Name of contractor company (if applicable)
Geologists	1	Perilya Limited
Field assistants/technicians	2-3	Perilya Limited
Site Preparation and rehabilitation	2	North Flinders Earthmoving
Geologists	1	Perilya Limited
Geologists	1	Perilya Limited
Geologists	1	Perilya Limited

Shifts worked per day	Hours worked per day	Days worked per week
1	12	6

Using the table below, describe the equipment (size, number and contractor details) required to conduct the proposed operations.

Name	Owner/Operator	Description/capacity	Activity/purpose
Bulldozer / Grader	North Flinders Earthmoving	3x5m	Levelling & contouring Reliance retention dam
Bobcat	North Flinders Earthmoving	2x3m	Contouring & clean-up of historic drill pads
4WD Field Utility Vehicle	Perilya, & Drill Contractor	2x5m	Personnel transport

## Low impact exploration activities

Will low impact exploration operations be conducted that are not covered by the Generic program for environment protection and rehabilitation – low impact mineral exploration in South Australia, (generic PEPR)?

No

Describe each type of low impact operations proposed.

## Drilling Operations

Will exploration drilling Operations be conducted?

No

Fill out the below table

Item	Drilling Types	Maximum number of drillholes	Maximum drillhole depth (m)	Number of drill pads	Maximum number of sumps required at each site	Maximum size of sumps (length x depth x width)	Average size of each drill pad	Number of sites requiring pad excavation	Average volume of material to be excavated
------	----------------	------------------------------	-----------------------------	----------------------	---	--	--------------------------------	--	--

There are no records to display.

Other Drilling Method(s)

## Drillsite preparation

If exploration drilling activities are proposed, describe the methods used to prepare sites, including vegetation clearance requirements, site levelling and digging of sumps.

## Drillhole construction and decommissioning

Drillhole construction and decommissioning

Have the personnel responsible for implementing the proposed program read and understood the Earth Resources Information Sheet M21, Mineral exploration drillholes – general specifications for construction and backfilling?

—

Describe how drillholes will be constructed, including the casing material to be used, depth of casing, if the casing will be cemented, cementing intervals and the class of driller that will install the casing.

When describing drillhole decommissioning requirements, include the materials to be used, stratigraphic intervals where cement plugs will be placed, if the casing will be removed and when decommissioning will occur after drilling is completed.

Attach Files 

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No Files Uploaded			

## Costeans and bulk sample disposal pits

Will costeans/bulk sample disposal pits be required for the proposed program?

—

Tenement	Number of costeans/pits	Size of costean (length x width) (m2)	Average depth (m)	Volume excavated (m3)	Total Volume Excavated (m3)	Total area of disturbance
There are no records to display.						

Describe site preparation methods, vegetation clearance, and safety and maintenance requirements

## Sample management

Describe the size of samples collected (including drilling samples and bulk sampling), collection methods, materials used when collecting the sample, sample disposal methods (including removal of sample bags), safety management and any other sample management requirements at the exploration site (e.g. tarps or matting used to contain cuttings). Include requirements for on-site geological sample management (splitting of archive samples, bag farms, core processing and storage).

Not applicable – PEPR submitted for rehabilitation purposes only.

## Access routes to work areas

Will existing tracks require upgrading and/or maintenance?

No

Detail the work required to upgrade/maintain existing tracks.

Existing access tracks will be utilized for all proposed activities with no upgrades or maintenance required. Overland access required for accessing individual work will be kept to a minimum.

Will access be required across adjoining tenements?

No

Detail the method(s) for gaining access, and if an agreement is in place with all stakeholders. Include the total area of disturbance required (i.e. length (km) and width (m) of tracks) and provide on a locality map.

Not applicable.

Will access off existing tracks be required?

Yes

**Detail the method(s) for gaining access and if vegetation clearance is required. Details of the total area of disturbance (includes drill traverses and seismic lines) required off existing tracks (i.e. length (km) and width (m) of new tracks) must be provided in the program notification.**

Only minor overland 'off-track' access will be required however such activities will be kept to a minimum with <200m of off-track access estimated to be required, most of which will follow routes utilized for the initial work now requiring rehabilitation. No track construction or preparation will be required and any disturbed vegetation and root stock will be left 'in-situ' to facilitate revegetation. Vehicle movements will be kept to a minimum to limit dust generation and erosion and work will not be undertaken in the event of a significant rainstorm event for both health and safety reasons as well as to minimize wear and tear on access tracks and roads. All such overland tracks will be raked and entry point barriers put in place to limit subsequent use.

#### Attach Files

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File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

### Campsites and equipment laydown areas

**Indicate where staff and contractors will be accommodated during the exploration program.**

Perilya and contracted personal will utilize residential and/or commercial accommodation in Leigh Creek. No campsites will be required.

**What is the maximum number of personnel requiring accommodation?**

4

**Is a campsite required to be established?**

No

**Provide a description and justification of the camp location (e.g. previously cleared areas etc.), and any other relevant information.**

**What will be the total area (ha) of the campsite(s)?**

—

**Will native vegetation clearance be required?**

No

**What will be the total area (ha) of vegetation clearance for the campsite?**

—

**Describe the methods used to prepare the campsite including vegetation requirements and site levelling.**

—

**Will any excavations be required?**

No

**Describe the purpose of the excavation**

—

**Describe the maximum volume (m3) of material to be excavated.**

—

**Provide confirmation that the proposed ablution facilities have been endorsed for use by the Department of Health or local council, where applicable.**

No

**Indicate why endorsement approval is not required by the Department of Health or local council.**

—

**Proposed infrastructure (includes caravans, tents, offices, hydrocarbon and water storage requirements etc)**

<b>Proposed infrastructure</b>	<b>Quantity</b>	<b>Description / capacity</b>
Nil	0	No proposed infrastructure.

**Will laydown areas be required?**

No

**Will the laydown area(s) be located at the same location as the campsite?**

No

**Provide a description and justification of the location (e.g. previously cleared areas), and any other relevant information if required.**

**What will be the maximum area (ha) required for the laydown area(s)?**

—

**Will native vegetation clearance be required?**

No

**What will be the total area (ha) of vegetation clearance for the site?**

—

**Describe the methods used to prepare the laydown area including vegetation requirements and site levelling.**

**Will any excavations be required?**

No

**Describe the purpose of the excavation.**

**What will be the volume (m<sup>3</sup>) of material to be excavated.**

—

## Proposed infrastructure (includes hydrocarbon and water storage requirements)

Proposed infrastructure	Quantity	Description / capacity
Nil	0	No proposed infrastructure.

### Attach Files

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File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

## Other exploration methods and/or ancillary operations

Are any other proposed exploration methods (e.g. seismic) and/or ancillary exploration operations required?

No

Describe the activity(s), site preparation, vegetation clearance, and safety and maintenance requirements.

Not applicable.

## Water supply and management

Will camp and/or drilling water be required?

No

Describe how and where water will be sourced for drilling, track maintenance and camping purposes (e.g. groundwater, surface water, mains). Indicate how wastewater and/or runoff water will be managed.

Not applicable.

Will surface water and/or mineral drillholes be used as a water source/supply?

No

Indicate if a licence for water extraction/usage is required (refer to relevant Natural Resources Management water allocation plan available on the Department for Environment and Water (DEW) website.

No

Attach a copy of the licence or include a statement confirming that a licence will be obtained before the extraction and/or usage of water.

Not applicable.

## Groundwater investigation and water affecting activities

Will any water investigation (e.g. pump testing, water monitoring sites, water storage, turkey nests/dams) and/or water affecting activities, be undertaken (refer to s. 127 of the Landscape South Australia Act 2019)?

No

Describe the water investigation and/or water affecting activities, including site preparation, vegetation clearance, and safety and maintenance requirements.

Not applicable.

Indicate if water affecting activities permits (eg well and water extraction/discharge permits) have been obtained and in accordance with the Landscape South Australia Act 2019.

No

### Attached Files

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File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

## Management of hazardous materials

Will activities be conducted in areas of known uranium and thorium mineralisation?

No

Attach Files 

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File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

Will any other hazardous material be encountered when exploring in the area?

No

List the types of hazardous materials and provide a management plan on how these materials will be managed.

## Rehabilitation

**Detail all the activities and strategies relating to the remediation of all impacts associated with the proposed exploration operations (includes exploration camps and laydown areas, tracks). Completion of rehabilitation must be achieved within 3 months after the expiry of each program notification.**

Rehabilitation activities, being the primary activity of the proposed work, will include;

1) Rehabilitation of Individual Historic Drill Collars

-minor clean-up and collar rehabilitation of casings exposed due to erosion

-cutting of casings, capping & burial

-backfilling of erosional features with gravel & placement of local topsoil

2) Rehabilitation of the Reliance Retention Dam

-levelling & contouring of earth bunds, retention of some topsoil for use in rehabilitation of erosional feature in other affected areas

3) Rehabilitation of Erosional Features Developed in Areas of Historic Exploration Disturbance

-further use of coarse boulders to stabilize erosional banks, infill with gravel & placement of topsoil stockpiled from Reliance retention dam, sand-bagging upslope to divert runoff

-investigate re-seeding of areas using third party contractor (to be determined)

4) Rehabilitation of Historic Drill Pads and Access Tracks on Rocky Substrate

-use of soft tired equipment to clean-up and contour drill pads, placement of topsoil stockpiled from Reliance retention dam

Ongoing rehabilitation activities will also be required upon completion of the initial work, including;

-photographic documentation of all disturbed areas

-monitoring, inspection and photography of drill pad at six (6) and twelve (12) month interval to monitor revegetation/regeneration on the drill pad and identify any potential erosion development or noxious weed development

-preparation and implementation of additional rehabilitation measures if regeneration is determined to be unsatisfactory

**State the estimated budget required to rehabilitate all impacted sites. State the estimated budget required to rehabilitate all impacted sites. Include a breakdown of the cost associated with each rehabilitation component**

Personnel (Salaries) - \$25,000

Field Supplies/Consumables - \$10,000

Earthworks - \$50,000

Total - \$85,000

## **Vegetation Clearance**

**Will any area of cleared native vegetation be unrehabilitated after the authorised period?**

No

Provide a map and description of the vegetation present in the application area, the extent of any proposed vegetation clearance and the likelihood of the presence of threatened flora.

Not applicable.

State the estimated quantum of significant environmental benefit (SEB) to be gained in exchange for the proposed native vegetation clearance and describe how the SEB will be provided.

Not applicable.

## System

Tenement Name ↑	Tenement Holder	Tenement Operator	Grant Date	Expiry Date	Tenement Type	Location Description	Tenement Area	Tenement Status	Shape Identifier
EL 6284	Australian Coloured Oxides Pty Ltd; Perilya Freehold Mining Pty Ltd	Perilya Freehold Mining Pty Ltd	24/11/2018	23/11/2029	Exploration Licence	Copley area approximately 10km south of Leigh Creek	231.00	Active	10010791-0001
RL 6	Perilya Freehold Mining Pty Ltd	Perilya Freehold Mining Pty Ltd, Zinifex Port Pirie Smelter Pty Ltd	18/12/1980	23/11/2022	Retention Lease		19.51	Active	00009616-0000
RL 7	Perilya Freehold Mining Pty Ltd	Perilya Freehold Mining Pty Ltd, Zinifex Port Pirie Smelter Pty Ltd	18/12/1980	23/11/2022	Retention Lease		19.44	Active	00009617-0000

# **Management of Environmental Impacts**

**Applicable environmental aspects and potential impacts**



Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Minor	Unlikely	Surface Water	Surface Water	Alteration to surface water – interference to surface drainage.	Although interference with drainage is not anticipated beyond the pre-existing conditions present, the proximity of the work to minor ephemeral creeks has potential for increased erosion and silting into the watercourse. The following controls will be utilized to minimize the impact. <ul style="list-style-type: none"> <li>•minimizing vehicular traffic</li> <li>•ceasing</li> </ul>	Low	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; No permanent modification to hydrological features caused by exploration activities without obtaining a water affecting permit from the relevant Landscape Board (under Landscapes Act SA 2019).&lt;/p&gt;</p>	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; Provide before, during and after photographic evidence within the annual exploration compliance report demonstrating that original drainage contours (watercourses and lakes) are consistent with the natural relief post rehabilitation within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period).</p>



Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Minor	Unlikely	Contamination	Soil/vegetation/fauna	Soil/vegetation contamination (e.g. hydrocarbons, rubbish, drill samples/cuttings, ablutions, other sources)	The following strategies will be employed to minimize and/or eliminate waste and/or contaminated materials; • domestic waste collected and stored in rubbish bins/bags and disposed of at the Leigh Creek rubbish dump • spill kits available at drill site • fit-for-purpose and well maintained equipment and vehicles • disposal of any contamin	Low	<p style="font-family: Arial, sans-serif; font-size: 10px"> No contamination of soil and vegetation as a result of exploration activities. </p>	<p style="font-family: Arial, sans-serif; font-size: 10px"> Demonstrate that all domestic or industrial waste (includes general rubbish and hydrocarbons) is disposed of in accordance with the Environment Protection Act 1993 within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), and that all fuel and chemicals are stored in accordance with EPA requirements,

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
								<p>ated materials and refuse at permitted area at Beltana minesite</p> <ul style="list-style-type: none"> <li>• thorough clean-up of work areas upon completion of program including rehabilitation by hand raking, recontouring, drill samples to be backfilled into drill holes and rubbish and sample bags removed from drill sites.</li> <li>• post-program, ongoing inspection and photographic monitoring</li> </ul> <p>by providing:</p> <ul style="list-style-type: none"> <li>• The name, location and contact details of the authorised waste disposal facility.</li> <li>• A statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming domestic and industrial waste was removed from all exploration sites and disposed of at an authorised waste disposal facility.</li> <li>• Photographic evidence within the annual exploration compliance report demonstrating that all fuel and chemical storage facilities were managed in accordance with EPA</li> </ul>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
								<p>requirements.</p> <p>Maintain photographs of all exploration sites and provide representative photos within the annual exploration compliance report demonstrating that drill cuttings are:</p> <ul style="list-style-type: none"> <li>• removed from site and disposed of at a licensed facility</li> <li>• buried under a minimum of 30 cm of soil, or in accordance with EPA guideline, Radiation protection guidelines on mining in South Australia: mineral exploration, available on the EPA website, or</li> <li>• backfilled down the drillhole, within 3 months of the expiry of the</li> </ul>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
								<p>PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Insignificant	Rare	Heritage and scientific sites	European heritage sites and sites of scientific and environmental significance	Disturbance to European heritage sites and sites of scientific and environmental significance and scientific and environmental significance (e.g. geological monuments, fossil reserves).	Although two State Heritage sites occur within the general work area, namely the Cuckoo King and Ajax Fossil Reef sites, no activities are planned within these areas and therefore no impacts to the sites will occur. The Beltana Homestead, also state registered, occurs ~15km south of the work area and will therefore not be	Low	No disturbance to European heritage sites and to sites of scientific and environmental significance unless prior approval under the relevant legislation is obtained.	Demonstrate no impact to heritage sites and sites of scientific and environmental significance by: <ul style="list-style-type: none"> <li>• Maintaining evidence, including detailed maps showing sites compared to the location of exploration activities, and photographic evidence of sites before and after the conduct of the exploration program.</li> <li>• Providing a statement within the annual exploration compliance report confirming sites were not impacted during the conduct of the exploration program.</li> </ul>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
							impacted by the proposed activities	
Insignificant	Rare	Other	Not applicable.	Not applicable.	Not applicable.	Low	<div data-wrapper="true" style="font-family: "Segoe UI", "Helvetica Neue", sans-serif; font-size: 9pt"><div>Not applicable.</div> </div>	<div data-wrapper="true" style="font-family: "Segoe UI", "Helvetica Neue", sans-serif; font-size: 9pt"><div>Not applicable.</div> </div>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Minor	Unlikely	Stakeholders	Stakeholders	Stakeholders: - freehold land owners - perpetual lease holder s - pastoral lease holder s - Aboriginal land (Anangu Pitjantjatjara Yanku Tjarutja lands) - Department of Defence - state government departments. - local	The following controls and procedures will be put in place to minimize potential impacts to other stakeholders in the region; • Form 21B Landowner notification • stakeholder Consultation Register/ Diary and ongoing consultation with all stakeholders involved. • Mining Native Title Agreement (Work Area Clearance) with Adnyam	Low	<p style="font-family: Arial, sans-serif; font-size: 10px;">Stakeholders are fully informed and satisfied with the proposed methods used to conduct exploration activities on their land, and all prescribed forms are served and agreements obtained in accordance with the Mining Act.</p>	<p style="font-family: Arial, sans-serif; font-size: 10px;">Provide the information requested within the 'Complaints' section of the annual exploration compliance report demonstrating that all reasonable complaints from stakeholders are resolved to the satisfaction of both parties prior to and ongoing during the course of exploration program, without the involvement of DEM. Provide the information requested within the 'Landowner details and liaison' section of the annual exploration</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
				<p>government (councils) - federal government - native title parties .</p> <p>govern- athanha people • Perilya Health, Safety &amp; Environment policy • minimizing area of surface disturbance during exploration activities • use of existing tracks as much as possible • location of work area away from populated/inhabited areas and any homesteads and dwellings, day shift activities only • rehabilitation will be discussed with</p>				<p>compliance report demonstrating that prescribed forms were served and agreements obtained in accordance with the Mining Act prior to the commencement of exploration activities.</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					landholders and undertaken to the satisfaction of landholders • compliance with exploration license conditions • review and compliance with relevant Department guidelines and best practice documents			

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Insignificant	Possible	Third party access	Soil/vegetation/fauna	Degradation of rehabilitated access tracks caused by third party access (includes previously closed and rehabilitated access tracks)	The following procedures will minimize the potential use and degradation of new access tracks by third parties; • consultation and communication with landowner • creation of new access (usage) tracks kept to a minimum • utilize existing and historic tracks where possible • use overland routes not requiring track construction or use of fill	Low	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; Rehabilitated access tracks remain permanently closed, unless prior approval under the relevant legislation is obtained.</p> <p>&lt;/p&gt;</p>	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; Maintain before and after photographic evidence demonstrating that all tracks are closed and rehabilitated within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. Representative photos are to be included within the annual exploration compliance report. Provide the</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					material			information requested within the 'Rehabilitation' section of the annual exploration compliance report.
					<ul style="list-style-type: none"> <li>no work or traffic access during or following heavy rainfall events</li> <li>caution, authorized access only</li> <li>signage at entry points to work area to be removed post rehabilitation to aid in disguising the track entry/exit points.</li> <li>exit/entry points to be disguised, raked, dog legged where possible to prevent third party access reopening</li> </ul>			

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					g tracks. • scarify/rake usage tracks and replant any disturbed vegetation upon completion of program			

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Insignificant	Likely	Weeds and Pathogens	All flora and fauna, especially listed species.	Loss/modification of the environment (biological, social and economic) through the introduction of weeds and pathogens.	Given the nature of exploration activities, impact on vegetation is almost unavoidable however the impact is minimal and regeneration is relatively quick with minimal intervention. The following controls and strategies will be employed to minimize the impact on vegetation; • stockpiling of topsoil for any cleared areas for	Low	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; No introduction of new species of weeds and plant pathogens, nor increase in abundance of existing weeds species.</p> <p>&lt;/p&gt;</p>	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report, confirming that: • Vehicle logs were kept during the exploration program, demonstrating that all vehicles are clean and free of plant and mud material prior to entering properties† within the tenement areas, unless otherwise agreed to with the relevant landowners. • Photographic evidence before and during exploration</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					<ul style="list-style-type: none"> <li>replacement of root-stock during rehabilitation • scarifying/raking of cleared areas during rehabilitation for water retention and promote regrowth •</li> <li>maximizing the use of existing access tracks, minimizing the need for 'off-track' usage tracks •</li> <li>planning of usage tracks to avoid areas of dense vegetation •</li> <li>protected matters searches</li> </ul>			<p>operations and after rehabilitation of disturbed sites was captured, demonstrating that no new weeds and plant pathogens were introduced, nor an increase in abundance of existing weeds recorded.</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					<p>to identify occurrences or potential habitats for any threatened or vulnerable species • wash-down of drill rigs and vehicles to prevent spread of invasive species • fire suppression on equipment, fire extinguishers on or near all equipment and vehicles and monitoring of relevant CFS Fire Danger Ratings and fire bans</p>			

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Minor	Unlikely	Fire	Community/landowners	Damage to infrastructure and loss of income through fire.	<ul style="list-style-type: none"> <li>Fit-for-purpose equipment, well maintained with regular servicing and inspection</li> <li>fire extinguishers with all vehicles and equipment, diesel only powered motors and equipment</li> <li>6month scheduled inspections of all fire extinguishers</li> <li>location of drill sites away from heavily vegetated areas</li> <li>inductions and Emergency Procedures</li> </ul>	Low	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; No loss of infrastructure or income through fire as a result of exploration activities. &lt;/p&gt;</p>	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming that no uncontrolled fires* occurred. Alternatively, provide a report on the independent investigation of all uncontrolled fires* demonstrating that the licensee could not have reasonably prevented the fire through the implementation of precautionary measures. &lt;/p&gt;</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					<ul style="list-style-type: none"> <li>• Notices with contact numbers and • instructions regarding field emergencies • consultation and notification of work to Landowner</li> </ul>			

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Insignificant	Rare	General Public	General Public	Injury or death to members of the public as a result of exploration activities.	Not applicable.	Low	<p style="font-family: Arial, sans-serif; font-size: 10px;">No accidents involving the public that could have been reasonably prevented by the licensee.</p>	<p style="font-family: Arial, sans-serif; font-size: 10px;">Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming no accidents occurred involving the public during and after the exploration program. If an accident involving the public did occur, provide a copy of the independent investigation report within the annual exploration compliance report demonstrating that the licensee could not have reasonably prevented the accident</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
								through the implementation of precautionary measures.

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Minor	Unlikely	Aboriginal heritage	Aboriginal heritage sites	Disturbance to Aboriginal heritage	The following controls and procedures have and will be put in place to minimize potential risk of damage to Aboriginal heritage sites and values; • Existing unregistered Mining Native Title Agreement with Adnyamathanha People (pending update) • Aboriginal heritage clearance surveys previously completed over area • digital register	Low	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; No disturbance to Aboriginal artefacts or sites of significance unless prior approval under the relevant legislation is obtained.</p> <p>&lt;/p&gt;</p>	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that: • Heritage sites were not impacted during the conduct of the exploration program, unless prior approval was obtained under the appropriate legislation • Work ceased on discovery of a significant site and recommenced only after authorisation. • Aboriginal heritage sites identified</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria	
								<p>of sites of significant aboriginal heritage</p> <ul style="list-style-type: none"> <li>• demarcating and barricading of identified sites prior to initiating work, no drilling within 50m of identified sites or within exclusion zones</li> <li>• use of existing tracks and minimizing use of 'off-track' vehicular activity</li> <li>• previous experience and training of field staff in identifying potential aboriginal sites</li> </ul>	<p>during the exploration program were appropriately recorded and reported to authorities, if not previously known.</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					<p>stoppage of work upon discovery of any undocumented aboriginal sites in the work area followed by notification to relevant authorities and the Native Title holders • induction procedures to inform employee and contractors of aboriginal site locations</p>			

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Minor	Unlikely	Soil	Soil	Disturbance to the soil profile and topography, and accelerated soil erosion caused by exploration activities (e.g. construction of sumps, new tracks and drill pads; ground compaction at laydown areas and camps).	As with vegetative cover, exploration activities invariably have an impact on soils and topography, primarily due to vehicular traffic and the need to prepare sites for the safe and efficient completion of the work. The following controls will be put in place to minimize potential impacts to soils and geomorphic features; <ul style="list-style-type: none"> <li>• clearly demarcating</li> </ul>	Low	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt;Where soil disturbance occurs as a result of exploration activities, ensure that:</p> <ul style="list-style-type: none"> <li>• topsoil quality and quantity is maintained</li> <li>• the soil profile and topography is reinstated to original conditions</li> <li>• there is no accelerated soil erosion.</li> </ul> <p>&lt;/p&gt;</p>	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt;Maintain before, during and after photographic evidence of all excavations, drillsites, camps, laydown areas and new tracks demonstrating that:</p> <ul style="list-style-type: none"> <li>• The soil profile and topography is reinstated to original conditions and is consistent with natural surroundings within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for</li> </ul>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					access routes to avoid extraneous vehicular activity • stopping work during and following heavy rainfall events to prevent erosion and 'rutting' • scarifying/raking of cleared areas and access tracks during rehabilitation for water retention and promote regrowth and soil stabilization • maximizing the use of existing access tracks, minimizing the			an ongoing period), unless otherwise authorised. • Where required, sufficient topsoil is removed (depending on soil profile), stored separately from subsoil and reinstated (in the correct order) within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. • There are no signs of accelerated soil erosion during and post rehabilitation

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					need for 'off-track' usage tracks • planning of usage tracks to utilize low lying areas and avoidance of steep hill, creeks, etc • rehabilitation of drill sites to conform as near as possible to 'pre-work' state (slope & direction )			of disturbed sites. Representative photos to be included within the annual exploration compliance report. Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Minor	Unlikely	Native Vegetation	Flora and fauna and their habitats; includes Commonwealth and state scheduled species.	Loss/modification of native vegetation and associated habitats through the clearance of vegetation.	With proper management, the chance of introduction and associated weeds, pathogens and invasive species can be greatly reduced to minimize the potential risk. These controls will include; <ul style="list-style-type: none"> <li>identification of known pathogen occurrences in region (SA Nature Maps) • use of existing tracks where possible, minimize traffic</li> </ul>	Low	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; No permanent loss/modification of native flora and fauna populations and their habitats through: • clearance • fire • other unless prior approval under the relevant legislation is obtained.</p> <p>&lt;/p&gt;</p>	<p>&lt;p style="font-family: Arial, sans-serif; font-size: 10px"&gt; Maintain before, during and after photographic evidence of all exploration sites (e.g. drillsites, new track exit/entry points off existing tracks, costeans, campsites) demonstrating that: • The area and method of disturbance is consistent with that described in the PEPR. • No uncontrolled fires* occurred as a result of exploration activities. Representative photos to be included within the annual exploration compliance report.&lt;/p&gt;</p>

Severity of consequence (CQ)	Likelihood of consequence (LH)	Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
					both on and off established tracks			
					<ul style="list-style-type: none"> <li>thorough wash-down of all equipment prior to mobilizing to new work area including tires, body, engine compartment &amp; undercarriage</li> <li>replacement of topsoil upon rehabilitation all areas</li> <li>careful inspection of work areas and tracks for potential contamination during final rehabilitation</li> </ul>			



# Supporting Information

## Photos

Upload Photos 

Expand/Collapse

File Name	File Size (Mb)	Created On	Download
1. Beltana Rehab EPEPR_Sep29-2025.pdf	3.34 Mb	15-12-2025 16:58:50	<a href="#">Download (MERS/EP-03972/Supporting information/Photos/1. Beltana Rehab EPEPR_Sep29-2025_2025-12-15T06-28-50.884Z.pdf)</a>

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (DGA94)	Zone	Details and comments	Document ID
BTD554	22/05/2025	Photo1	254450	6605697	54	Representative photo of drill collars requiring further rehabilitation.	1. Beltana Rehab EPEPR_Sep29-2025
Reliance Retention Dam	12/09/2025	Photo2	251349	6607969	54	Representative photo from internal area of Reliance retention dam.	1. Beltana Rehab EPEPR_Sep29-2025
Aroona 2	12/09/2025	Photo3	249184	6609927	54	Aroona 2 (RL7) erosional structure on slope.	1. Beltana Rehab EPEPR_Sep29-2025
NMWB06	12/09/2025	Photo4	254667	6605837	54	North Moolooloo erosional channel near waterbore NMWB06.	1. Beltana Rehab EPEPR_Sep29-2025

## Supporting Maps

Upload Maps 

Expand/Collapse

File Name	File Size (Mb)	Created On	Download
1. Beltana Rehab EPEPR_Sep29-2025.pdf	3.34 Mb	15-12-2025 16:58:55	<a href="#">Download (MERS/EP-03972/Supporting information/Maps/1. Beltana Rehab EPEPR_Sep29-2025_2025-12-15T06-28-56.252Z.pdf)</a>

Figure Description	Document ID
Maps contained in attached document labelled "1. Beltana Rehab EPEPR_Sep29-2025".	1. Beltana Rehab EPEPR_Sep29-2025

## Additional Information

List any other supporting information and/or documents submitted with the application, including land access approvals/permits required to conduct the proposed exploration program.

The North Moolooloo and Puttapa properties within the proposed work area will not be accessed until the relevant Form 21B's have been signed and served on the landholders.



Australian Government

Department of Climate Change, Energy,  
the Environment and Water

# EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 29-Sep-2025

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

# Summary

## Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	1
<a href="#">Wetlands of International Importance (Ramsar)</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	16
<a href="#">Listed Migratory Species:</a>	10

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <https://www.dcceew.gov.au/parks-heritage/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

<a href="#">Commonwealth Lands:</a>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	15
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None
<a href="#">Habitat Critical to the Survival of Marine Turtles:</a>	None

## Extra Information

This part of the report provides information that may also be relevant to the area you have

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">EPBC Act Referrals:</a>	5
<a href="#">Key Ecological Features (Marine):</a>	None
<a href="#">Biologically Important Areas:</a>	None
<a href="#">Bioregional Assessments:</a>	None
<a href="#">Geological and Bioregional Assessments:</a>	None

# Details

## Matters of National Environmental Significance

### National Heritage Places [\[ Resource Information \]](#)

Name	State	Legal Status	Buffer Status
Natural			
<a href="#">Ediacara Fossil Site - Nilpena</a>	SA	Listed place	In feature area

### Listed Threatened Species [\[ Resource Information \]](#)

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.  
Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
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#### BIRD

<a href="#">Amytornis modestus</a> Thick-billed Grasswren [84121]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Aphelocephala leucopsis</a> Southern Whiteface [529]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Falco hypoleucos</a> Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Neophema chrysostoma</a> Blue-winged Parrot [726]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Pedionomus torquatus</a> Plains-wanderer [906]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat may occur within area	In feature area

#### MAMMAL

<a href="#">Petrogale xanthopus xanthopus</a> Yellow-footed Rock-wallaby (SA and NSW) [66646]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Pseudomys australis</a> Plains Rat, Palyoora, Plains Mouse [108]	Vulnerable	Species or species habitat likely to occur within area	In feature area

#### PLANT

<a href="#">Codonocarpus pyramidalis</a> Slender Bell-fruit, Camel Poison [19507]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Frankenia plicata</a> [4225]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Pterostylis xerophila</a> Desert Greenhood [7997]	Vulnerable	Species or species habitat may occur within area	In feature area

#### REPTILE

<a href="#">Aprasia pseudopulchella</a> Flinders Ranges Worm-lizard [1666]	Vulnerable	Species or species habitat may occur within area	In feature area
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#### Listed Migratory Species

[ [Resource Information](#) ]

Scientific Name	Threatened Category	Presence Text	Buffer Status
<b>Migratory Marine Birds</b>			
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area

#### Migratory Terrestrial Species

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area	In feature area
<b>Migratory Wetlands Species</b>			
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat likely to occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area	In feature area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat may occur within area	In feature area

## Other Matters Protected by the EPBC Act

Listed Marine Species			[ Resource Information ]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat likely to occur within area	In feature area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Bubulcus ibis as Ardea ibis</a> Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Chalcites osculans as Chrysococcyx osculans</a> Black-eared Cuckoo [83425]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Neophema chrysostoma</a> Blue-winged Parrot [726]	Vulnerable	Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat may occur within area overfly marine area	In feature area

## Extra Information

EPBC Act Referrals				[ Resource Information ]	
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status	
Not controlled action					
<a href="#">Beltana Mineral Exploration</a>	2001/178	Not Controlled Action	Completed	In feature area	
<a href="#">Beltana Zinc Mine</a>	2007/3256	Not Controlled Action	Completed	In feature area	
<a href="#">Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</a>	2015/7522	Not Controlled Action	Completed	In feature area	
<a href="#">Mining of Zinc Silicate Ore</a>	2008/4587	Not Controlled Action	Completed	In feature area	
<a href="#">Mining of zinc silicate ore from the Aroona II Deposit</a>	2007/3699	Not Controlled Action	Completed	In feature area	



# Caveat

## 1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

## 2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data is available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on the contents of this report.

## 3 DATA SOURCES

### Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

### Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

## 4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded breeding sites; and
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

# Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact us](#) page.

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