



Government
of South Australia

Department for
Energy and Mining

10 April 2025

Anna Mayo
Exploration Manager
Sinosteel Uranium SA Pty Ltd
Level 19, 25 Grenfell St,
ADELAIDE SA 5000

amayo@sinosteelsa.com.au

Dear Mr/Ms/Dr,

Approval Notification - Exploration Program for Environment Protection and Rehabilitation (EPEPR2024-001) Review EL6373, EL6440 and EL5834

The program review for EL6373, EL6440 and EL5834, final version submitted on 3 April 2025, for a time extension to conduct low impact and preliminary exploration activities in 4 areas of the Bimbowrie Conservation Park, has been approved in accordance with Section 70C of the *Mining Act, 1971 (the Act)*.

In accordance with section 70C(7a)(b) of the Act, the approved program is subject to the conditions listed in the attached notice.

You are reminded that:

1. You must at all times implement and comply with the approved EPEPR.
2. The approved EPEPR will be made publicly available on the Mining Register.
3. Exploration operations on “native title land” (as defined in the *Native Title (South Australia) Act, 1994*) must be conducted in accordance with Part 9B of the Act.
4. In accordance with Section 70C of the Act, the licensee must review the EPEPR on request of the Minister’s Delegate within a time specified in the request and submit the revised EPEPR for approval.
5. As the operator for the approved EPEPR you must take all reasonable and practical measures to avoid undue damage to the environment and meet all the approved outcomes (when measured against the approved criteria) listed within the EPEPR.
6. In accordance with regulation 78 of the *Mining Regulations 2020* and Terms of Reference 012 (TOR 012), the licensee must submit an Exploration Compliance Report to the Mineral Exploration Branch each year, within 60 days after the anniversary of the date the licence was granted, and 60 days after the expiry or surrender of the EL, or in accordance with joint reporting requirements agreed to with the Minister.
7. In accordance with regulation 16(4) of the *Mining Regulations 2020*, drillhole and geological samples must be kept in accordance with guidelines issued by the Department for the term of the relevant tenement and for 7 years after the expiry, surrender, cancellation or forfeiture of the tenement to which the sample relates. Furthermore, samples must be retained by the tenement holder, or provided to the Director, in accordance with those guidelines (unless the Minister has authorised, on application by the tenement holder in a manner and form set out in the guidelines, the destruction or disposal of the samples).

MINERALS REGULATION

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8. Requirements under the National Parks and Wildlife Act 1972 and the park proclamation must be known and adhered to.
9. The EPEPR Review is approved for a period of twelve months from the date of the original EPEPR approval and will expire on 2 April 2026.

This approval does not constitute endorsement of the systems that you have in place to manage your exploration operations in compliance with the Act and licence conditions. In granting the approval, the EPEPR and your capacity to undertake the proposed activities have been considered. However, responsibility for compliance with the Act and the licence conditions, remains at all times with the licensee.

This approval relates only to the requirements of the Act. Other legislation relevant to this application includes the *South Australian Work Health and Safety Act, 2012* and Regulations. For example, Chapter 10 of the *Work Health and Safety Regulations, 2012* (SA) introduced new requirements for mine operators in South Australia. The new requirements include a notification for mining operations and the establishment of a Safety Management System. For further information on your responsibilities, including a guide to Chapter 10 and the Mine Operator Notification Form, contact SafeWork SA on 08 8303 0255 or via its website at www.safework.sa.gov.au.

The proposed program may be subject to the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Mineral exploration industry-specific information is contained in an appendix in the EPBC Matters of National Environmental Significance – Significant impact guidelines 1.1. This document is available on the Australian Government’s Department for Agriculture, Water and the Environment website at <http://www.environment.gov.au/resource/significant-impact-guidelines-11-matters-national-environmental-significance>. For further information, contact the Department for Agriculture, Water and the Environment, or visit its website at www.environment.gov.au/.

Proposed changes to exploration operations stated in the approved EPEPR may require a *PEPR review* to be submitted for assessment. Where a *PEPR 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](#).

If you require any further information, please contact Jason Perry on 8177 3413 or Simon Constable on 8429 2516 or email DEM.exploration@sa.gov.au.

Yours sincerely



Simon Constable
**GENERAL MANAGER MINERAL EXPLORATION
REGULATION & COMPLIANCE**

In accordance with delegated
Ministerial powers and functions

CC: DEW Adelaide Office DEWMiningReferrals@sa.gov.au

The Department's Regulatory Guidelines, Ministerial Determinations and Information Sheets are available at: http://energymining.sa.gov.au/minerals/knowledge_centre

Notice of Approval Conditions – EPEPR2024-001

In accordance with section 70C(7a)(b) of the Act, the approved program is subject to the following conditions:

1. The Department for Environment and Water (DEW) District Ranger be kept informed of the progress of the approved program and consulted to ensure that particular concerns and regulations for the Park are met.
2. Prior to entering the Bimbowrie Conservation Park to conduct exploration operations the Department for Energy and Mining and DEW must be notified. A completed copy of the "Park Access" form must be emailed to the DEW office, at least two weeks prior to entry and sent to the contacts listed below:
 - a. DEW Adelaide Office - Attn. Coordinator - Conservation and Mining, email: DEWMiningReferrals@sa.gov.au
 - b. Mineral Exploration Branch – Attn: Exploration Regulation, email: DEM.exploration@sa.gov.au

The Park Access form must be submitted using the template provided on the [DEM Minerals website](#);

APPLICATION

Mining Act 1971 and Mining Regulations 2020



Government of South Australia

Department for Energy and Mining

EXPLORATION PROGRAM FOR ENVIRONMENT PROTECTION AND REHABILITATION (PEPR)

USE THIS TEMPLATE TO: Apply to conduct mineral exploration operations not covered by the Generic PEPR (Adopted Program) for a 12 month period of time on one or more exploration licences (ELs), retention leases (RLs) or mineral claims (MCs) in South Australia.


Refer to the Exploration PEPR Terms of Reference and [Minerals Regulatory Guidelines MG22](#) when completing this application. Further information on exploration requirements in South Australia is available on the Department for Energy and Mining (DEM) Minerals website www.energymining.sa.gov.au.

SECTION A – GENERAL DETAILS

Operational approval period	12-month approval period, with an additional 3 months to complete all rehabilitation			
Tenement details	EL6373 Kalabity, EL6440 Bimbowrie, and EL5834 Outalpa			
Tenement holder(s) (for each tenement)	Sinosteel Uranium SA Pty Ltd			
Operating company	Sinosteel Uranium SA Pty Ltd Level 19, 25 Grenfell St, ADELAIDE SA 5000 Ph. 0421 723 855 (Anna Mayo)			
Agency agreement (if applicable)	N/A			
PEPR prepared by	Charles Lord – Sinosteel Uranium SA Pty Ltd Senior Geologist Ph: 0400 172 688 Email: clord@sinosteelsa.com.au			
Project supervisor/contact person(s)	Charles Lord (as above) and Anna Mayo – Sinosteel Uranium SA Pty Ltd Exploration Manager Ph: 0421 723 855 Email: amayo@sinosteelsa.com.au			
Project/prospect name	Koolka South/ Mt Howden, Jones, Bimbowrie, Doughboy Well			
Location details	35km north of Olary in Bimbowrie CP Map sheets SH5414 CURNAMONA and SI5402 OLARY (1:100k map sheets Kalabity and Olary)			
Project description, commodity type and mineralisation model	<p>Preliminary exploration activities are planned to be completed in 4 areas of the Bimbowrie Conservation Park, in the Olary district, SA (<i>Project Area</i>, Figure 1). Planned activities meet the DEM definition of 'low impact' reconnaissance and preliminary groundwork including:</p> <ul style="list-style-type: none"> Geological mapping, investigation, and surface sampling (hand-held XRF and vegetation) – by light vehicle 4WD following existing roads, tracks, and fence lines, then on foot. Drone flights – by light vehicle along existing roads and tracks to an appropriate launch pad. <p>All activities will follow the DEM generic PEPR guidelines and will ensure no significant or lasting impact on the area.</p> <p><u>2024 activities included reconnaissance visits to Jones, Bimbowrie, Doughboy Well, and Mount Howden/Telechie (the eastern side of the South Koolka area of interest). During these visits it was established that the SARIG position of drill collars from the 70's are very poorly located, with <200m inaccuracies due to local grid use. An interrogation of the critical locations such as Telechie and South Koolka, followed by site visits to ground-truth collars is planned for 2025 before 3D models can be constructed and drill targets planned.</u></p> <p><u>Access to area on the western side of the Doughboy well area of interest (historical workings named Marjorie) was put on hold due to the difficulty experienced in accessing Doughboy well, and this area was postponed until access is negotiated via the neighbouring Plumbago Station.</u></p> <p><u>Because of these issues, and delays to work due to a focus on Dome Rock drilling in 2024, an extension of time is requested to continue to cover preliminary/low impact work in the park as specified in this PEPR.</u></p> <p>The southern Curnamona Province is recognised as prospective for stratiform Pb-Zn-Ag, stratiform Zn-Pb, strata bound Cu-Au, iron oxide copper gold (IOCG), hard rock uranium, and banded iron formations. Previous exploration programs and data interpretation have identified prospective targets across the Kalabity, Bimbowrie and Outalpa tenements.</p>			
Proposed project schedule	Start date	<u>22/03/2024-22/03/2025</u>	End date	<u>22/03/2025-26/03/2026</u>

DECLARATION

I, the tenement holder, declare under regulation 84 of the Mining Regulations 2020, that I have taken reasonable steps to review the information in this PEPR/ revised PEPR to ensure its accuracy.

Name	Anna Mayo	Signature (digital allowed)	
Position	Exploration Manager	Date	12/03/2024 26/03/2025

Copy and paste the above table if there is more than 1 tenement holder.

Note: An authorised representative from each tenement holder must sign the declaration (eg in accordance with the Corporations Act 2001).

SECTION B – PROGRAM PREPARATION AND ACCESS TO LAND

Work undertaken in preparing the proposal

Summarise the research and fieldwork undertaken in preparing the proposal including:

- desktop reviews of existing information
- field visits for reconnaissance
- contractor consultation (i.e. equipment scale, type)
- other information used when planning the proposed program.

In preparation for this project, information stored within various Government GIS databases was interrogated as part of the desktop review and included searching government databases and conservation park resources for drillhole and geological information, hydrogeological information, flora and fauna distribution, native title determinations and heritage sites, geological monuments, soil types, land uses etc. A 25km buffer search over Bimbowrie CP using the Protected Matters Search Tool was undertaken and the report identified nationally significant matters that have been incorporated into the PEPR. A thorough search of the Nature Maps database was also interrogated for additional state specific matters.

Discussions have been held by phone and email with DEW and park managers, and responses to date have been informative and helpful. The Ikara-Flinders ranges National Park Co-management Board has been consulted and view the work as low impact, thus not requiring board involvement at this stage. DEW has highlighted in the past that exploration is to be carried out in in the Bimbowrie Conservation Park that is valued for:

- Significant indigenous and non-indigenous heritage sites
- Providing a core area for regional biodiversity conservation
- A diverse range of native plant and animal species, including several of national and state conservation significance
- Threatened vegetation communities, including Mulga and Needle Wattle woodlands
- Recovering rangeland vegetation communities, particularly the chenopod low shrublands of the Calico Corridor area
- Habitat and breeding sites for fauna species of conservation significance, including the Yellow-footed Rock-wallaby
- Aquatic and water-dependent ecosystems associated with the Meningie Springs and surrounding catchment
- Unique geology formations, including four Geological Heritage Sites (monuments) within the park Protection Zone (Figure 1)

Sinosteel aims to consider all of these values in the planning of programs within the park, minimising impact to conservation objectives.

Communication with all local parties will continue to allow local businesses the opportunity to supply logistical support to the project before seeking assistance further afield, and to ensure activities align with the conservation park management plan. Site visits will be undertaken to consult with stakeholders, and to conduct geological and environmental site reconnaissance, once the PEPR has been granted.

Geological Monuments in the area will be respected and no impact to the monuments is to be undertaken.

A simple geological model based on previous drilling and geophysical surveys has been utilised to plan target areas for on-ground investigation.

Any activities undertaken outside of the conservation park will be done under the generic PEPR.

Exploration PEPR application – 12-month period

Consultation (r. 64)

Using the table below, provide a summary of the individual or group of similarly affected persons and summarise the results of consultation that has been undertaken on the proposed operation. Types of interested or affected parties include residents, council, government agencies etc (exclude native title groups and defence owned or controlled lands – refer to relevant sections below).

Tenement	Stakeholder	Land tenure	Land use	Date and type of NOE served	Type of exempt land	Date waiver obtained	Date consultation/access agreement and/or permits signed/authorised	Stakeholder concerns raised and how addressed
EL6373, EL6440, EL5834	Park Ranger (Landowner) Minister for Sustainability, Environment and Conservation Bimbowrie Conservation Park	Conservation Park	Conservation	Form 21A served on 11/01/2024	N/A	N/A	Consultation ongoing with park management (recorded in company Consultation Register)	Park access notifications to be submitted at least 10 days prior to entry - to The Coordinator, Conservation and Mining. Weed introduction – assured park manager that we will follow best practices for vehicle decontamination. Updated weed information and endangered species distribution supplied 19/12/2023. Advised Park closure on March 10-12 and May 2-6, 2024, for feral animal control. Advised some tracks on park maps are no longer in use. Will consult with Park Ranger/Management before utilising any access tracks to new exploration areas or that have not been utilised in previous programs.
EL6373, EL6440, EL5834	Ikara-Flinders ranges National Park Co-management Board	Conservation Park	Conservation				Consulted with Denise McCourt 17/6/2021	Consulted board via the Yorke and Mid North NPWS re pending PEPR access. Board is not concerned with low impact activities and directed us to consult with DEW and NAWNTAC.

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

N/A

Provide any additional relevant information.

N/A

SECTION C – DESCRIPTION OF THE ENVIRONMENT

Include a description of the features of the environment that are expected to be affected by the proposed operations. Each of the elements of the existing environment listed below must be described only to the extent that they may need to be considered in assessing the impacts that the proposed exploration operations are reasonably expected to have on the environment. If the element is not likely to be impacted by the operation, a statement to that effect must be included.

Where the terms and conditions of an RL include environmental outcomes, include any new baseline environmental data relevant to the control strategies or measurement criteria, and where changes to the environment are identified, provide an updated description of the environment to describe the changes.

Proximity to infrastructure and housing

Provide the following information:

- Settlements – indicate the name and distance of the nearest town, and residences within, or near the proposed exploration operations.
- Roads and tracks – indicate existing fence lines, roads and tracks, including those which are to be used in the exploration program.
- Other human infrastructure such as schools, hospitals, commercial or industrial sites, roads, sheds, bores, dams, ruins, pumps, scenic lookouts.
- Railway lines, transmission lines, gas and water pipelines, communication lines – e.g. fibre optic cables etc., if these may be impacted by the exploration operations.

Provide this information on a locality plan/map.

The closest township to the proposed work area is Olary on the Barrier Highway, which is approximately 35km south of Bimbowrie CP. Work is not expected to come in close proximity to infrastructure/housing/heritage sites within the Bimbowrie CP during the low impact exploration activities. The reconnaissance work will be planned away from these sites specifically.

Infrastructure within the park is mostly through the centre, and includes the Bimbowrie Homestead, the heritage precinct, 'Antro' Woolshed & Shearers Kitchen, and Old Boolcoomatta Homestead (orange 'heritage zones', Figure 1).

A few historic water bores exist on the property near the work area that are no longer in use, the nearest of which (6934-16, 17 and 38) are in the north-western corner of the park.

Access to areas of interest will utilise existing roads, tracks, and fence lines, or scars where tracks or historic internal fence lines have been removed, to minimise new disturbance **in consultation with Park Management**. A project area locality map with flagged infrastructure, and an access map with known access tracks and historic fence lines have been attached at the end of this document (Figure 1 and 2 respectively).

Land use and tenure

Using the table below, select the land tenure and land use that the proposed exploration activities will occur in. Include additional information where prompted.

Exploration PEPR application – 12-month period

Land tenure/type	Applicable	Land use	Applicable
Freehold	<input type="checkbox"/>	Grazing	<input type="checkbox"/>
Pastoral lease	<input type="checkbox"/>	Cultivated land	<input type="checkbox"/>
Perpetual lease	<input type="checkbox"/>	Residential	<input type="checkbox"/>
Crown land	<input type="checkbox"/>	Township	<input type="checkbox"/>
Mining reserve	<input type="checkbox"/>	Industrial	<input type="checkbox"/>
Aboriginal freehold/leasehold land (e.g. Anangu Pitjantjatjara Yankunytjatjara and Maralinga Tjarutja lands)	<input type="checkbox"/>	Tourism	<input type="checkbox"/>
Forestry reserve	<input type="checkbox"/>	Conservation	<input checked="" type="checkbox"/>
Marine parks	<input type="checkbox"/>	Defence activity	<input type="checkbox"/>
National parks, conservation parks, conservation reserves, regional reserves*	<input checked="" type="checkbox"/>	Road reserve	<input checked="" type="checkbox"/>
Adelaide Dolphin Sanctuary	<input type="checkbox"/>	Sites of scientific significance (geological monuments, fossil reserves etc.)	<input checked="" type="checkbox"/>
Murray Darling Basin	<input type="checkbox"/>	Orchard/vineyard	<input type="checkbox"/>
Bimbowrie Conservation Park		*Native vegetation heritage agreements	<input type="checkbox"/>
Other*	<input type="checkbox"/>		
		*European heritage sites	<input checked="" type="checkbox"/>
		'Antro' Woolshed & Shearers Kitchen (state listed heritage) (Within the park, not within the area of proposed exploration activities)	
		*Other (e.g. historic mining)	
		Bimbowrie Mining Heritage (Within the park, unlikely to be within the area of proposed exploration activities)	

* Indicates more information required in field immediately below.

Describe any council policies (or out of council) or development plans that may impact the program area.

N/A

Provide a description of any known plans for future land use changes by other parties.

N/A

Provide any additional relevant information.

The planned activities are situated in 4 areas of the Bimbowrie Conservation Park as represented in Figure 1 (SAPPA plan parcel F219181 A1). The area is located within the Arid Lands Region, and the Bimbowrie Conservation Park is run by the Yorke and Mid North NP& WS and is co-managed by the Ikara-Flinders ranges National Park Co-management Board advisory committee.

Sites of significance, European heritage, historic mining sites and road reserves occur within the park boundaries, however these sites are not planned to be included or impacted in the proposed activities. The company will place exclusion zones around such areas so as to minimise impact of any works nearby.

Activities are planned under the DEM PEPR approval process and a separate scientific research permit should not be required. Park Access forms are submitted before any activities are carried out.

Exploration PEPR application – 12-month period

Woomera Prohibited Area (WPA)

Will activities be conducted within the WPA	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Do you have a resource exploration permit in place?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
In which zone will activities be conducted?					
Does the Exploration Permit allow the operator to conduct exploration operations in the WPA?				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
What is the expiry date of the resource exploration permit?				N/A	
Identify closure periods that may impact on the exploration program.					
N/A					

Other land owned or controlled by the Commonwealth Department of Defence

Lands in South Australia that are owned or controlled by the Commonwealth Department of Defence, which they manage either as a training or test area, include the Port Wakefield Proof and Experimental Establishment, Murray Bridge Training Area, and Cultana Training Area.

These lands remain to be mineral land under the Mining Act 1971 (SA) and can be accessed for mineral exploration and mining subject to certain restrictions and conditions under the Defence Act 1903 (Cth) and the Defence Regulation 2016 (Cth).

Will operations be conducted within the Port Wakefield Proof and Experimental Establishment, Murray Bridge Training Area, or Cultana Training Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Do you have a Deed of Access with Defence?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
What is the expiry date of the Deed of Access?	N/A	
Provide the date the Range Control Officer granted access permission to conduct the proposed exploration operations.	N/A	
Describe the results of consultation and how any concerns raised were addressed.	N/A	
N/A		

Native title

Using the table below, describe how you have complied with the requirements of Part 9B of the Mining Act for each tenement (for further information refer to [Minerals Regulatory Guidelines MG22](#)).

Native title			
Is the proposed area of exploration located on native title land?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, no further information in this section required.)		
Are there registered native title party/parties in the area of proposed exploration?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Adnyamathanha, Wilyakali, and Ngadjuri (NAWNTAC ICN8958)	If no, an Environment, Resources and Development (ERD) Court determination is required.
Have you negotiated a native title mining agreement?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the agreement registered?*	All Sinosteel tenements (EL5834 ,6015, 6026, 6373 & 6440)
Have you accepted an Indigenous land use agreement (ILUA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the ILUA registered?*	N/A
Have you obtained ERD Court determination?†	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the determination registered?*	N/A

* The registration date refers to the date the agreement, determination or ILUA was registered with DEM.

† An ERD Court determination cannot be conjunctive (i.e. cannot apply to subsequent licences).

Provide any additional relevant information.

The current Native Title Mining Agreement for Exploration (NTMA) with NAWNTAC regards preliminary operations as 'low impact' activities (as defined in the agreement) and thus a cultural heritage clearance survey is not required. If initial exploration identifies that higher impact activities are warranted, then Sinosteel will plan for surveys as have been carried out for drilling operations recently outside of the park. Previous surveys have been conducted successfully and without issue.

The Ikara-Flinders ranges National Park Co-management Board has been consulted and view the work as low impact, thus not requiring board involvement at this stage.

Landform and topography

Describe the topography of the general area affected by the exploration program. Include the susceptibility to erosion and visual attributes (steep or undulating slopes, plains, rocky outcrops, dunes, salt pans, clay pans etc.).

The Bimbowrie CP topography is characterised by flat to mildly undulating arid floodplains with relatively little sub-crop and interspersed rocky outcrop hills to approximately 30m above the level of the plains (Photos 1 and 2). The slope angles are low to moderate with hill crests dominantly formed by geological outcrop resistant to weathering. Susceptibility to erosion is considered very low on the flat lying areas, to moderate on the slopes of the rocky terrain with thin topsoil cover and sparse vegetation.

Soil and surface cover

Describe soil types and soil surface cover - e.g. gibber, rocky - in the general area affected by the exploration program. Include details on the susceptibility to compaction, erosion, dust, runoff and any other soil characteristics – e.g. acid sulphate – that may require control strategies to reduce environmental impacts during operations or rehabilitation.

The surface cover in Bimbowrie CP comprises soils, alluvial and fluvial sediments consisting of gibber, sands, and clays of Holocene age to a thickness of up to approximately 15m. The soils overlay Proterozoic basement comprised of iron rich metasediments, calc-silicates, granitoids and pegmatites.

Best practices as described in the M33 Statement of Environmental Objectives and Environmental Guidelines for Mineral Exploration Activities in South Australia will be adopted to minimise the impact of any activities on the natural environment.

The greatest impact of the activities on surface cover will be compaction of soils and erosion on sloping areas along chosen access tracks, and collection of hand-held XRF data and vegetation samples. Access to areas of interest will utilise existing roads, tracks, and fence lines, or scars where historic internal fence lines have been removed, to minimise new disturbance (proposed access tracks, figure 2). Access will be planned in consultation with Park Management. Off-road/track and cross-country travel will be avoided. Tracks in arid areas can degrade quickly with repeated use so the company will plan logistics of each activity considering vehicle weight, configuration, loads, tyre width and pressures (<15psi), speed (<10kph), number of traverses, and road moisture to minimise impact and enable tracks to be disguised easily once activities cease to avoid third party use.

Vegetation in the area is sparse (Photos 1 and 2). Vegetation sampling will be limited to less than 10% of the total volume of tissue on each specimen, and plants will be selected based on plant health and distribution.

Surface water

Will the proposed program interfere with surface water bodies and natural drainage (e.g. drainage lines, creeks, floodplains, wetlands)? If yes, describe the potential interference and surface water bodies and natural drainage on maps. If no, indicate why.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Is the program area located within water protection areas defined under the <i>River Murray Act 2003</i> ? If yes, provide the name(s).	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Is the program area located within any prescribed watercourses or prescribed surface water areas under the <i>Landscape South Australia Act 2019</i> ? If yes, provide the name(s).	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		

Groundwater

Is groundwater likely to be intersected when conducting the exploration program? If yes, use the table below to describe the expected groundwater (hydrogeological) conditions, and identify groundwater aquifers in the exploration area(s) that may be affected. Indicate the approximate depth of drillholes in each area. Copy and paste a new table for each area where different groundwater conditions are expected. If no, provide evidence or any supporting information demonstrating this.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
No drilling is planned under this general low impact activity application. The area of operations has cover comprising surface soils up to 15m thick, overlaying Proterozoic basement. A search of the public database Water Connect revealed limited groundwater and water quality data within the park. Bores in the region range between 1,500 and 8,000 TDS at 6-40m.		

Description of the locality/area where different groundwater conditions may be encountered					
N/A					
Formation age and/or stratigraphic unit	Stratigraphic intervals (depth range) (m)	Aquifer formation name	Aquifer interval/thickness (from-to) (m)	Type of aquifer(s) intersected (e.g. unconfined, confined, artesian)	Provide aquifer salinity, depth to water level and any other relevant comments

Exploration PEPR application – 12-month period

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

N/A

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

N/A

Is the proposed program located within a prescribed wells area or prescribed water resource area? If yes, provide the name of the area.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		

Provide any additional information, if required.

N/A

Exploration PEPR application – 12-month period

Native vegetation

Will you be working within areas of native vegetation? If yes, provide the following information: <ul style="list-style-type: none"> • description of the formation and structure of vegetation in the area (e.g. woodland, shrubland, grassland) • list of the dominant species. If no, indicate why you will not be working within areas of native vegetation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<p>The Bimbowrie Conservation Park was established from a previously grazed pastoral station purchased in 2004 and destocked in 2005. The Park is an arid environment, so vegetation is typically sparse and can be degraded to varying extents, with vegetation recovery evident. Vegetation is a combination of mixed chenopod shrubland, with patches of Acacia or Callitris woodland and Dodonaea shrubland. Vegetation descriptions as follow:</p> <p>Chenopod shrubland: <i>Atriplex vesicaria</i> ssp., <i>Maireana astrotricha</i>, +/-<i>Maireana pyramidata</i>, +/-<i>Rhagodia spinescens</i> mid sparse shrubland over <i>Austrostipa</i> sp., <i>Rhagodia spinescens</i>, <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> tussock grasses, +/-<i>Enneapogon avenaceus</i>, +/-<i>Sclerolaena ventricosa</i>, +/-<i>Sclerolaena brachyptera</i>, +/-<i>Sclerolaena obliquicuspis</i>,</p> <p>+Sclerolaena low sparse shrubland: <i>Sclerolaena obliquicuspis</i>, <i>Enneapogon avenaceus</i>, <i>Asphodelus fistulosus</i>, <i>Carrichtera annua</i>, <i>Eriochiton sclerolaenoides</i> low sparse shrubland.</p> <p>Acacia woodland and shrubland: <i>Acacia aneura</i> var. (NC) low open woodland over <i>Eremophila duttonii</i>, <i>Alectryon oleifolius</i> ssp. <i>canescens</i>, <i>Senna artemisioides</i> ssp. <i>petiolaris</i>, and <i>Acacia tetragonophylla</i> mid shrubs over <i>Rhagodia spinescens</i>, <i>Maireana pyramidata</i>, +/-<i>Maireana aphylla</i> low open shrubland over <i>Dodonaea lobulata</i>, <i>Sida petrophila</i>, <i>Ptilotus obovatus</i> var., <i>Tetragonia eremaea</i>, <i>Solanum ellipticum/quadriloculatum</i>, <i>Sclerolaena diacantha</i>, <i>Sclerolaena obliquicuspis</i>, <i>Enneapogon</i> sp., <i>Dissocarpus paradoxus</i>, <i>Eragrostis eriopoda</i>, +/-<i>Sclerolaena limbata</i></p> <p>+Callitris low open woodland and Dodonaea shrubland: <i>Callitris glaucophylla</i> low open woodland over +/-<i>Eucalyptus porosa</i> over <i>Dodonaea viscosa</i> ssp. <i>angustissima</i>, <i>Cassinia laevis</i> mid shrubs over <i>Sida petrophila</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Abutilon leucopetalum</i>, <i>Solanum petrophilum</i> low shrubs</p> <p>A 25km buffer search over Bimbowrie CP using the Protected Matters Search Tool was undertaken and the report identified five listed threatened species that have the potential to occur within the area (listed below):</p> <ul style="list-style-type: none"> • Purple-wood Wattle (<i>Acacia carneorum</i>) has been recorded within the CP (refer to Figure 3, Photo 3). DEW pers comm 5/3/2021: online distribution records of this species are out-of-date and there are many more throughout the park. • Slender Bell-fruit (<i>Codonocarpus pyramidalis</i>) has been recorded within the CP (refer to Figure 3). DEW pers comm 5/3/2021: the species is now commonly found in hilly country within the park. • Murray Swainson-pea (<i>Swainsona murrayana</i>) no records within 15km of the CP boundary. • Braided Sea-heath (<i>Frankenia plicata</i>) no records within 100km of the CP boundary. • Desert Greenhood (<i>Pterosylis xerophila</i>) no records within 100km of the CP boundary. <p>A search of the NatureMaps database found 4 additional State-listed threatened fauna species have been recorded in the Conservation Park.</p> <ul style="list-style-type: none"> • Red-leg Grass (<i>Bothriochloa macra</i>) (refer to Figure 3). • Purple Love-grass (<i>Eragrostis lacunaria</i>) (refer to Figure 3). • Smooth Wallaby-grass (<i>Rytidosperma laeve</i>) (refer to Figure 3). • Dark Green Swainson-pea (<i>Swainsona fuscoviridis</i>) (refer to Figure 3). <p>Sinosteel is aware that the online database for distribution of rare or endangered species is not kept up to date and that it is likely we could come across distributions not marked on the map, Figure 3. Management of this impact is detailed in Section F.</p>		

Significant habitats and flora

If you are working within areas of native vegetation, use the table below to list any significant habitats and any rare or endangered flora 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/habitat	Common name	NPW Act rating*	EPBC Act rating†
<i>Acacia carneorum</i>	Purple-wood/Needle Wattle	Vulnerable	Vulnerable
<i>Codonocarpus pyramidalis</i>	Slender Bell-fruit	Vulnerable	Vulnerable
<i>Bothriochloa macra</i>	Red-leg Grass	Rare	-
<i>Eragrostis lacunaria</i>	Purple Love-grass	Rare	-
<i>Rytidosperma laeve</i>	Smooth Wallaby-grass	Rare	-
<i>Swainsona fuscoviridis</i>	Dark Green Swainson-pea	Rare	-

* National Parks and Wildlife Act 1972 (NPW Act) conservation status includes extinct, endangered, vulnerable, threatened and rare.

† Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) listings include extinct, extinct in the wild, critically endangered, endangered, vulnerable and conservation dependent.

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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*).

The prospects are located within Zone 2 protection and management zone for *Cenchrus ciliaris* (Buffel Grass), with no known occurrences within the Conservation Park. *Phytophthora* has been identified on the property next door to the conservation park, however due to the low rainfall, the project is in a very low risk area for *Phytophthora cinnamomi* (dieback).

A 22km buffer search over Bimbowrie CP using the Protected Matters Search Tool identified seven invasive plant species that have the potential to occur within the CP. These are:

- Ward's Weed (*Carrichtera annua*)
- African Boxthorn (*Lycium ferocissimum*)
- Prickly Pears (*Opuntia* spp.) (DEW advises these only occur in the Old Boolcoomatta area)
- Athel Pine (*Tamarix aphylla*) (DEW advises this species is not known to occur within the park)
- Silver-leaf Nightshade (*Solanum elaeagnifolium*)
- Jerusalem Thorn (*Parkinsonia aculeata*)
- Phytophthora dieback (*Phytophthora* sp)

DEW pers. comm. 5/3/2021: Pepper tree (*Scinus* sp) should also be added to this list.

Fauna

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

A 25km buffer search over Bimbowrie CP using the Protected Matters Search Tool identified 16 nationally protected significant fauna species that have the potential to occur within the Conservation Park (listed below). Eight migratory and marine species may also occur.

- Dusky Hopping Mouse (*Notomys fuscus*) has been recorded within the CP (refer to Figure 3).
- Yellow-footed Rock-wallaby (*Petrogale xanthopus xanthopus*) has been recorded within the CP (refer to Figure 3). DEW pers comm 5/3/2021: online distribution records of this species are out-of-date and there are many more throughout the park.
- Grey Falcon (*Falco hypoleucos*) has been recorded within the CP (refer to Figure 3).
- Thick-billed Grasswren (*Amytornis modestus*) has been recorded within the CP (refer to Figure 3).
- Southern Whiteface (*Aphelocephala leucopsis*) has been identified inside the CP boundary (refer to Figure 3).
- Blue Winged Parrot (*Neophema chrysostoma*) has been identified inside the CP boundary (refer to Figure 3).
- Plains Wanderer (*Pedionomus torquatus*) no records within CP boundary, some records within Boolcoomatta (DEW pers. comm.).
- Major Mitchell's Cockatoo (*Lophochroa leadbeateri leadbeateri*) no records within 50km of the CP boundary.
- Curlew Sandpiper (*Calidris ferruginea*) no records within 100km of the CP boundary.
- Australian Painted Snipe (*Rostratula australis*) no records within 100km of the CP boundary.
- Corben's Long Eared Bat (*Nyctophilus corbeni*) no records within 100km of the CP boundary.
- Diamond Firetail (*Stagonopleura guttata*) no records within 150km of the CP boundary.
- South-eastern Hooded Robbin (*Melanodryas cucullata cucullate*) no records within 150km of the CP boundary.
- Australian Painted Snipe (*Rostratula australis*) no records within 150km of the CP boundary.
- Flathead Galaxias (*Galaxias rostratus*) no records within 200km of the CP boundary.
- Night Parrot (*Pezoporus occidentalis*) extinct within the CP.

A search of the NatureMaps database found six additional State-listed threatened fauna species have been recorded in the Conservation Park:

- Restless Flycatcher (*Myiagra inquieta*) has been recorded within the CP (refer to Figure 3).
- Elegant Parrot (*Neophema elegans elegans*) has been recorded within the CP (refer to Figure 3).
- Scarlet Robin (*Petroica boodang boodang*) has been recorded within the CP (refer to Figure 3).
- Map Gecko (*Lucasium steindachneri*) has been recorded within the CP (refer to Figure 3).
- Letter-winged Kite (*Elanus scriptus*) has been recorded within the CP (refer to Figure 3).
- Peregrine Falcon (*Falco peregrinus macropus*) has been recorded within the CP (refer to Figure 3).

The 25km buffer search over Bimbowrie CP using the Protected Matters Search Tool also identified 11 invasive fauna species that are likely to occur within the park including: dogs (*Canis lupus familiaris*), goats (*Capra hircus*), cats (*Felis catus*), house mice (*Mus musculus*), rabbits (*Oryctolagus cuniculus*), and red foxes (*Vulpes vulpes*) and 5 introduced bird species.1000

Significant fauna

Where possible, using the table below, list any rare or endangered 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	Common name	NPW Act rating	EPBC Act rating
<i>Pedionomus torquatus</i>	Plains Wanderer	Endangered	Critically Endangered
<i>Notomys fuscus</i>	Dusky Hopping Mouse	Vulnerable	Vulnerable

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Petrogale xanthopus xanthopus	Yellow-footed Rock-wallaby	Vulnerable	Vulnerable
Falco hypoleucos	Grey Falcon	Rare	Vulnerable
Amytornis modestus	Thick-billed Grasswren	-	Vulnerable
Aphelocephala leucopsis	Southern Whiteface	-	Vulnerable
Neophema chrysostoma	Blue Winged Parrot	Vulnerable	Vulnerable
Elanus scriptus	Letter-winged Kite	Vulnerable	
Myiagra inquieta	Restless Flycatcher	Rare	
Neophema elegans elegans	Elegant Parrot	Rare	
Petroica boodang boodang	Scarlet Robin	Rare	
Lucasium steindachneri	Map Gecko	Rare	
Falco peregrinus macropus	Peregrine Falcon	Rare	

Note: NPW Act conservation status includes extinct, endangered, vulnerable, threatened and rare.
 EPBC Act listings include extinct, extinct in the wild, critically endangered, endangered, vulnerable and conservation dependent.

Environmentally sensitive locations

Are there any environmentally sensitive locations within or close to the proposed exploration area (e.g. areas having particular ecological, cultural, scientific, aesthetic or conservation value)? If yes, provide a description of identified environmentally sensitive location(s). Mark these areas on a locality plan to identify any areas of conflict so that access roads or other activities can be planned and located effectively.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<p>The Bimbowrie Conservation Park Protection Zone lies in the centre of the area of operations (dark green polygon, Figure 1). This zone does not intersect the work areas of interest and will be avoided during initial exploration, despite exploration activities being permitted in the zone as stated in the Bimbowrie CP management plan. Within the Protection Zone an Excluded Access Area exists covering a geological monument. These areas are excluded from the exploration lease tenure and will not be accessed during any exploration activities. Communication with park management will be ongoing to keep informed of changes to sensitive locations or species in the work area prior to accessing the park.</p>		
Are you likely to impact on the environmentally sensitive area? If yes, detail the likely effects the proposed program may have.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Include a statement concerning whether or not an Aboriginal heritage survey has been conducted by the proponent and if so, the results of the survey.		
<p>The current Native Title Mining Agreement for Exploration (NTMA) with NAWNTAC regards preliminary operations as 'low impact' activities (as defined in the agreement) and thus a cultural heritage clearance survey is not required. If initial exploration identifies that higher impact activities are warranted, then Sinosteel will plan for surveys as have been carried out for drilling operations recently outside of the park. Previous surveys have been conducted successfully and without issue.</p>		

SECTION D – DESCRIPTION OF PROPOSED EXPLORATION OPERATIONS

Each of the elements listed below must be described only to the extent that they apply to the proposed exploration program.

Equipment and personnel requirements

Using the table below, describe the equipment, size and composition of field crews, and proposed working hours/days required to conduct the proposed program.

Type of personnel	Number	Name of contractor company (if applicable)
Geologists	3	Sinosteel staff geologists in LVs
Land access/environmental	-	
Field assistants/technicians	-	
Drilling crew	-	
Site preparation and rehabilitation	-	
Other (provide details)		
Shifts worked per day	Hours worked per day	Days worked per week

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1	10	7	
Equipment type	Owner/operator	Description/capacity	Activity/purpose
N/A			

Provide any additional information, if required.

N/A

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)? If yes, describe each type of low impact operations proposed.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Work is planned to be carried out in Bimbowrie Conservation Park in 4 areas of interest (Figure 1). Due to the conservation park not being covered by the Generic PEPR, low impact activities are planned to be carried out under this PEPR. Planned activities meet the DEM definition of 'low impact' reconnaissance and preliminary groundwork including: <ul style="list-style-type: none"> Geological mapping, investigation, and surface sampling (handheld XRF and vegetation) – by light vehicle 4WD following existing roads, tracks, and fence lines, then on foot. Drone flights – by light vehicle along existing roads and tracks to an appropriate launch pad. 		

Drilling activities

Will exploration drilling activities be conducted? If yes, fill out the below table	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
-------------------------------------------------------------------------------------	------------------------------	----------------------------------------

Tenement	Drilling type	Maximum number of drillholes	Maximum drillhole depth (m)	Maximum number of sumps required at each site	Maximum size of sumps (length x depth x width) (m ³)	Average size of each drill pad* (m ²) (no excavation required)	Number of sites requiring pad excavation	Average volume (m ³) of material to be excavated (excluding sumps)
TOTAL								

Total number of drillholes (add each row to calculate the total).	Total metres proposed (maximum number of holes x average depth for each row, then add each row to calculate the total).	Total number of sumps (maximum number of sumps x drillsites for each row, then add each row to calculate the total).	Total volume of sumps (maximum size of sumps x number of sumps for each row, then add each row to calculate the total).	Total area of disturbance (number of holes x average size for each row, then add each row to calculate the total).	Total number of pads requiring excavation (add each row to calculate the total).	Total volume of material to be excavated (number of sites requiring excavation x average volume for each row, then add each row to calculate the total).
-------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------

* The footprint includes all areas of disturbance associated with the drillsite.

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.

N/A

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 ?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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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.

N/A

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.

N/A

Where confined or artesian conditions are expected, include a schematic diagram demonstrating how drillholes will be constructed and decommissioned

Costeans and bulk sample disposal pits

Will costeans/bulk sample disposal pits be required for the proposed program? If yes, fill out the table below.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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Tenement	Number of costeans/pits	Size of costean (length x width) (m ²)	Average depth (m)	Volume excavated (m ³)	Total volume excavated (m ³) (number of costeans/pits x volume)	Total area of disturbance* (length x width) (m ²)
TOTAL						

Total number of costeans/pits (add each row to calculate the total).

Total volume of material to be excavated (add each row to calculate the total)

Total area of disturbance (number of costeans/pits x area of disturbance for each row, then add each row to calculate the total).

*Includes storage of excavated material at the site (e.g. topsoil and subsoil segregation).

Costeans and bulk sample disposal pit preparation

If costeans/bulk sample disposal pits are required, describe site preparation methods, vegetation clearance, and safety and maintenance requirements.

N/A

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).

Small amounts of hand samples may be taken in the form of plant material for biogeochemistry. All samples will have their locations recorded and assays reported in the Annual Technical Reports of each tenement respectively. An example of collection of soil and biogeochemistry samples at Koolka South within the Bimbowrie Conservation Park in 2022 can be seen in photo 4 a & b.

Access routes to work areas

Will existing tracks require upgrading and/or maintenance? If yes, detail the work required to upgrade/maintain existing tracks.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Will access be required across adjoining tenements? If yes, 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.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Adjoining tenements will be traversed via existing public and private roads after discussion with the appropriate landowners.		
Will access off existing tracks be required? If yes, detail the method(s) for gaining access and if vegetation clearance is required. Include 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).	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Access to areas off existing roads will be done on foot.		

Indicate planned access routes on a locality plan and distinguish between existing and proposed new access tracks and drill lines (including fence lines).

Campsites, storage and equipment laydown areas

Using the tables below, provide a description of campsites and/or laydown areas required. Indicate the campsite and laydown area on a locality plan.

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

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Kalabity Station homestead workers accommodation or alternative accommodation at adjoining stations or Yunta.		
What is the maximum number of personnel requiring accommodation?	3	
Is a campsite required to be established? If no, no further information is required.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Provide a description and justification of the camp location (e.g. previously cleared areas etc.), and any other relevant information.		
N/A		
What will be the total area (ha) of the campsite(s)?	0 ha	
What will be the total area (ha) of vegetation clearance for the campsite?	0 ha	
If vegetation clearance is required, describe the methods used to prepare the site.		
N/A		
Will any excavations be required? If yes, describe the purpose of the excavation and the maximum volume (m ³) of material to be excavated.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Are the proposed ablution facilities endorsed/approved for use by the Department of Health or local council, where applicable? If no, indicate why.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Proposed infrastructure (includes caravans, tents, offices, hydrocarbon and water storage requirements etc)	Quantity	Description/capacity

Laydown area details		
Will laydown areas be required? If no, no further information is required.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Will the laydown area(s) be located at the same location as the campsite? If no, has the location(s) been discussed with the landowner?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
What will be the maximum area (ha) required for the laydown area(s)?	0 ha	
What will be the total area (ha) of vegetation clearance for the site?	0 ha	
If vegetation clearance is required, describe the methods used to prepare the site.		
N/A		
Will any excavations be required? If yes, describe the purpose of the excavation and volume (m ³) of material to be excavated.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Proposed infrastructure (includes hydrocarbon and water storage requirements)	Quantity	Description/capacity
Provide a description and justification of the location (e.g. previously cleared areas), and any other relevant information if required.		
N/A		

Other exploration methods and/or ancillary operations

Are any other proposed exploration methods (e.g. seismic) and/or ancillary exploration operations required? If yes, describe the activity(s), site preparation, vegetation clearance, and safety and maintenance requirements.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		

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Water supply and management

Will camp and/or drilling water be required? If yes, describe how and where water will be sourced for drilling, track maintenance and camping purposes (e.g. groundwater, surface water, mains). Provide details on the volume of water required and how wastewater or runoff water will be managed.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Will surface water and/or mineral drillholes be used as a water source/supply? If yes, 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. If a licence is required and has been obtained please attach a copy. Where a licence has not been obtained, include a statement confirming that a licence will be obtained before the extraction and/or usage of water.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		

Groundwater and drilling investigation activities

Will any water bores be required and/or water investigation activities (e.g. pump testing, water monitoring sites, water storage, turkey nests/dams) be conducted? If yes, describe the water drilling and investigation activities, including site preparation, vegetation clearance, and safety and maintenance requirements.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		
Indicate if well permits have been obtained and whether or not a water extraction licence is required in accordance with the Landscape South Australia Act 2019. If yes, attach a copy of the permit(s)/licences. If no, provide a statement confirming that permits/licences will be obtained prior to commencement of water investigation activities.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		

Water affecting activities

Will any water affecting activities, other than drilling a water well, be undertaken (refer to s. 127 of the Landscape South Australia Act 2019)? If yes, attach a copy of the permit. If a permit has not been obtained, provide a statement confirming that a water affecting activity permit(s) will be obtained and provide a description of the site preparation, vegetation clearance, and safety and maintenance requirements.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		

Management of hazardous materials

Will activities be conducted in areas of known uranium and thorium mineralisation? If yes, attach a Radiation Management Plan and confirmation of endorsement of the plan by the Environment Protection Authority South Australia (EPA).	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Will any other hazardous material be encountered when exploring in the area? If yes, list the types of hazardous materials and provide a management plan on how these materials will be managed.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A		

Rehabilitation

Detail all the activities and strategies relating to the remediation of impacts associated with the proposed exploration operations. Completion of rehabilitation must be achieved within 3 months after the expiry of this PEPR.
N/A
State the estimated budget required to rehabilitate impacted sites.
N/A

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Vegetation Clearance

Will any area of cleared native vegetation be unrehabilitated after the authorised period?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If yes, provide a description of the vegetation present in the application area, the extent of the proposed vegetation clearance and the likelihood of the presence of threatened flora. Provide this information on a map.		
N/A		
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.		
N/A		

SECTION E – LEASE CONDITIONS

Retention leases

Where the retention lease includes specific conditions that are not environmental outcomes, demonstrate where these have been addressed in the PEPR (if relevant) or demonstrate how otherwise they have or will be complied with.

N/A

SECTION F – MANAGEMENT OF ENVIRONMENTAL IMPACTS

Use the table below (instructions provided) to identify all of the potential environmental, social and economic impact events that are likely to occur as a result of the proposed exploration operations, how each of the identified impacts will be managed, and the residual risk, i.e. the level of risk remaining after implementing control and management strategies. Identified potential impact events should be developed based on the aspects of the environment that may be impacted on and the proposed operational details. Potential impact events must have corresponding outcomes and measurement criteria.

Where the terms and conditions of an RL include environmental outcomes, list them (where different) in the table below and complete all sections (ie receptor, potential impacts, control strategies, risk assessment and measurement criteria).

Environmental management – potential impacts/events, outcomes, measurable criteria and monitoring plan

			Likelihood of consequence (LH)				
			1	2	3	4	5
			Rare	Unlikely	Possible	Likely	Almost certain
Severity of consequence (CQ)	A	Insignificant	Low	Low	Low	Low	Low
	B	Minor	Low	Low	Moderate	Moderate	Moderate
	C	Moderate	Moderate	Moderate	High	High	High
	D	Major	High	High	Extreme	Extreme	Extreme
	E	Catastrophic	High	Extreme	Extreme	Extreme	Extreme

How to fill out the table

- Based on the description of the environment and exploration operations, indicate which potential impacts are applicable to the proposed program. Note that some potential impacts are applicable to all programs.
- For each applicable potential impact (and corresponding receptor), describe control strategies that will reduce the risk of the potential impact to an acceptable level, and achieve the corresponding environmental outcomes.
- Conduct an impact assessment to determine if the control strategies address the potential impact (i.e. reduce the risk to an acceptable level). Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level.
- For each applicable potential impact, the corresponding outcome and outcome measurement criteria are required.
- Based on the description of the environment and proposed exploration activities, determine if any other potential impacts are applicable. For each new potential impact, describe proposed control and rehabilitation strategies, conduct an impact assessment, and develop corresponding outcomes and outcome measurement criteria.

Use the above matrix to conduct an impact assessment for each potential impact.

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor	Potential impacts	Is the potential impact applicable (Yes/No)	Control strategies	Risk assessment				
Lists are not exhaustive.	Lists are not exhaustive.	Some potential impacts are applicable to all programs.	Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	LH	CQ	Risk		
Stakeholders: <ul style="list-style-type: none"> freehold land owners perpetual lease holders pastoral lease holders Aboriginal land (Anangu Pitjantjatjara and Yankunytjatjara and Maralinga Tjarutja lands) Department of Defence state government departments. local government (councils) federal government native title parties. 	Interference to: <ul style="list-style-type: none"> existing or permissible land use (includes loss of income, noise, dust, light and other emissions). buildings, structures, existing tracks or other infrastructure. aesthetic values of an area. Noncompliance with legislative requirements.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Stakeholders identified include: <ul style="list-style-type: none"> DEW (see section below) Ikara-Flinders ranges National Park Co-management Board Native title parties (NAWNTAC) (see <i>Aboriginal heritage sites</i> section below) European heritage (see <i>European heritage sites and sites of scientific and environmental significance</i> section below) Plan minimal disturbance and conduct rehabilitation in accordance with M33 guidelines Consult with park ranger and co-management to discuss scope of activities, disturbance, specific requirements relating to park access, and ensure compliance with the Bimbowrie CP management plan and values. Park access notifications will be submitted at least 10 days prior to entry into Bimbowrie to: The Coordinator, Conservation and Mining. Serve all required statutory forms under the Mining Act (including part 9B of the Mining Act where required) Activities carried out with minimal disturbance. Impose vehicle speed limits appropriate to conditions on park tracks and around buildings, and vehicle movements will be minimised. All activities will be conducted in accordance with the MG4 Landowner Rights and Access Arrangements in Relation to Mineral Exploration in South Australia. Any complaints received will be investigated and actions put in place to achieve an agreed resolution. Details will be recorded in the company Consultation Register and communicated to DEM. 	2	A	L	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.	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 compliance report demonstrating that prescribed forms were served and agreements obtained in accordance with the Mining Act prior to the commencement of exploration activities.

Exploration PEPR application – 12-month period

Impact assessment						Outcomes	Outcome measurement criteria (inc. monitoring plan)	
Receptor	Potential impacts	Is the potential impact applicable (Yes/No)	Control strategies	Risk assessment				
Lists are not exhaustive.	Lists are not exhaustive.	Some potential impacts are applicable to all programs.	Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	LH	CQ			Risk
Stakeholder: DEW	Interference to: <ul style="list-style-type: none"> existing or permissible land use. buildings, structures, existing tracks or other infrastructure. aesthetic values of an area. Noncompliance with legislative requirements.	Yes (Applicable to programs located adjacent to or within parks and reserves.)	<ul style="list-style-type: none"> Consult with park ranger and co-management to discuss scope of activities, disturbance, specific requirements relating to park access, and ensure compliance with the Bimbowrie CP management plan and values. Park access notifications will be submitted at least 10 days prior to entry into Bimbowrie to: The Coordinator, Conservation and Mining. Ensure compliance with the Native Vegetation Act 1991, interrogate the relevant GIS databases, and ensure all personnel are familiar with the presence of significant flora and fauna in the area during inductions. Consult with park ranger and interrogate the relevant GIS databases and observe distribution during reconnaissance to determine the presence and extent of current weed infestation, and ensure all personnel are informed of the findings during inductions. Avoid planning activities near park infrastructure and within the CP Protection Zone (Figure 1). Prevent all access to the Excluded Access Areas (Figure 1) that cover geological monuments in the park, these areas will not be accessed during any exploration activities. Minimise all environmental impact of exploration activities by utilising low impact methods of exploration such as hand-held XRF and vegetation analysis. Drone operation (if required) will abide by CASA regulations and company policy, with strict flying heights adhered to, line-of sight maintained (no night flying), and launch pads selected to allow for a clear take-off area. Any fauna interactions will be minimised, and flights aborted if disturbance is probable, particularly to significant species such as wallabies and birds of prey. 	1	B	L	<p>For activities located within or adjacent to regional reserves, national, conservation and marine parks only:</p> <ul style="list-style-type: none"> no unauthorised interference with park management activities. 	Provide confirmation that: <ul style="list-style-type: none"> Park access notification forms were submitted to DEW and DEM at least 10 days prior to entry into regional reserves, national, conservation and marine parks, or Program notifications for PEPRs approved for an ongoing period of time, were submitted to DEW and the DEM at least 21 days prior to entry into regional reserves, national, conservation and marine parks.
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.	Yes (Applicable to exploration programs located within or impacting on native vegetation.)	<ul style="list-style-type: none"> Ensure compliance with the Native Vegetation Act 1991, interrogate the relevant GIS databases, and ensure all personnel and contractors are familiar with the presence of significant flora and fauna in the area during inductions. All personnel will be trained in identification of listed species in case of new or unmapped sightings and will be prepared to abort an activity in the case it may affect a listed species detrimentally. Consult with park ranger and co-management to discuss scope of project, disturbance, specific requirements relating to park access, and ensure compliance with the Bimbowrie CP management plan and values. Unnecessary vegetation disturbance will be avoided by careful advanced planning of access routes in consultation with the park management, with site access utilising existing roads, tracks, fence lines, and most direct routes. For proposed track usage refer to Figure 2. There will be no clearing of access routes within the CP or removal of roots or trunks, only light crushing of grasses. Vegetation sampling will be limited to less than 10% of the total volume of tissue on each specimen, and plants will be selected based on plant health. Species will be selected that are common and wide ranging in the area (refer to Appendix 1) Controls will be implemented to reduce fire danger (refer to section on fire below) All rubbish including food scraps will be removed from the work areas to reduce the likelihood of attracting feral animals into the area. 	2	B	L	<p>No permanent loss/modification of native flora and fauna populations and their habitats through:</p> <ul style="list-style-type: none"> clearance fire other <p>unless prior approval under the relevant legislation is obtained.</p>	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: <ul style="list-style-type: none"> 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.

Exploration PEPR application – 12-month period

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor Lists are not exhaustive.	Potential impacts Lists are not exhaustive.	Is the potential impact applicable (Yes/No) Some potential impacts are applicable to all programs.	Control strategies Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	Risk assessment LH = likelihood of consequence CQ = severity of consequence				
				LH	CQ	Risk		
All flora and fauna, especially listed species.	Loss/modification of the environment (biological, social and economic) through the introduction of weeds and pathogens.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Interrogate the relevant GIS databases and observe distribution during reconnaissance to determine the presence and extent of current weed infestation, and ensure all personnel are informed of the findings during inductions. Regularly discuss the risk of weed introduction with all crews active in the project area, and with the park ranger. All vehicles and machinery entering the project area that pose a risk are to be cleaned and visually inspected to be free of plant and mud material before exiting the Barrier Highway to prevent further spread of weeds. Vehicle logs will be kept as records. Listed flora species including <i>Acacia carneorum</i> (Purple-wood wattle) and Slender Bell-fruit (<i>Codonocarpus pyramidalis</i>) will not be disturbed in this project. A map of environmental constraints (no go areas) will be supplied to the site preparation crew, including photos for identification (e.g. Photo 3, identified during previous access through CP). Listed fauna species habitats will be avoided during this project. A map of environmental constraints (no go areas) will be supplied to crews, including photos of fauna for identification. All personnel will be trained in identification of listed species in case of new or unmapped sightings and will be prepared to abort an activity in the case it may affect a listed species detrimentally. Drone operation (if required) will abide by CASA regulations and company policy, with strict flying heights adhered to, line-of sight maintained (no night flying), and launch pads selected to allow for a clear take-off area. Any fauna interactions will be minimised, and flights aborted if disturbance is probable, particularly to significant species such as wallabies and birds of prey. 	2	B	L	No introduction of new species of weeds and plant pathogens, nor increase in abundance of existing weeds species.	<p>Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report, confirming that:</p> <ul style="list-style-type: none"> 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 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.
All fauna	Entrapment of fauna through open drillholes and excavations.	No (Applicable to exploration programs that involve drilling and/or require excavations.)	N/A				No fauna traps created as a result of exploration activities.	<p>Maintain before, during and after photographic evidence of all drillholes and/or excavations demonstrating that:</p> <ul style="list-style-type: none"> All drillholes were permanently or temporarily capped/plugged immediately upon completion. No fauna and livestock became trapped in drillholes and/or excavations throughout the duration of the program. All rehabilitation was completed within 3 months of 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. <p>Representative photos are to be included within the annual exploration compliance report.</p> <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>
Aboriginal heritage sites	Disturbance to Aboriginal heritage.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Preliminary operations or 'low impact' exploration activities do not require heritage clearance surveys as this is covered under the NTMA. All identified archaeological cultural heritage sites from past clearance surveys will be flagged and buffers applied to ensure the 'low impact' activities will not encroach on these areas. All vehicle movements are to be limited to existing tracks to control ground disturbance, and access routes will be planned to avoid all significant sites. For proposed track usage refer to Figure 2. Company personnel will complete heritage inductions prior to activities commencing and be informed of heritage sites and the importance of not disturbing these sites. In the event of a discovery of a potential Aboriginal artefact all activities will stop in the immediate vicinity, the area will be clearly marked and isolated from further activities, and relevant authorities will be notified. Work to recommence only after authorisation has been received (clause 9 of the NTMA) 	1	B	L	No disturbance to Aboriginal artefacts or sites of significance unless prior approval under the relevant legislation is obtained.	<p>Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that:</p> <ul style="list-style-type: none"> 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 during the exploration program were appropriately recorded and reported to authorities, if not previously known.

Exploration PEPR application – 12-month period

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor	Potential impacts	Is the potential impact applicable (Yes/No)	Control strategies	Risk assessment				
Lists are not exhaustive.	Lists are not exhaustive.	Some potential impacts are applicable to all programs.	Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	LH = likelihood of consequence CQ = severity of consequence	LH	CQ		
European heritage sites and sites of scientific and environmental significance	Disturbance to European heritage sites and sites of scientific and environmental significance (e.g. geological monuments, fossil reserves).	Yes (Applicable to exploration programs located close to or within European heritage sites and sites of scientific and environmental significance.)	<ul style="list-style-type: none"> No registered national heritage sites were flagged in the EPBC Act Protected Matters report. All heritage zones within the CP (Figure 1) including the state listed 'Antro' Woolshed & Shearers Kitchen will be avoided during activities. Excluded Access Areas that cover geological monuments in the park will not be accessed during any exploration activities. A map of environmental constraints (no go areas) will be present during all activities to ensure no breaches. Access routes will be planned to avoid all significant sites. 	1	B	L	No disturbance to European heritage sites and to sites of scientific and environmental significance unless prior approval under the relevant legislation is obtained.	<p>Demonstrate no impact to heritage sites and sites of scientific and environmental significance by:</p> <ul style="list-style-type: none"> 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. Providing a statement within the annual exploration compliance report confirming sites were not impacted during the conduct of the exploration program.
Soil/vegetation/fauna	Soil/vegetation contamination (e.g. hydrocarbons, rubbish, drill samples/cuttings, ablutions, other sources).	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> All bulk diesel, hydrocarbon and chemical storage is to be banded in accordance with EPA guidelines. All hydrocarbon spills will be contained immediately, impacted soil will be collected, bagged, and sent to a licenced facility for disposal or treatment. Personnel will be inducted in this and reminded at regular intervals. All spills greater than 20L will trigger an incident report to be submitted to the company for investigation. Pre-start checks will be undertaken on vehicles and equipment to identify any leaks. Rubbish will be securely contained from wildlife and vermin, and regularly disposed of at an approved waste facility. 	3	A	L	No contamination of soil and vegetation as a result of exploration activities.	<p>Demonstrate that all domestic or industrial waste (includes general rubbish and hydrocarbons) is disposed of in accordance with the <i>Environment Protection Act 1993</i> 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, by providing:</p> <ul style="list-style-type: none"> The name, location and contact details of the authorised waste disposal facility. 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. Photographic evidence within the annual exploration compliance report demonstrating that all fuel and chemical storage facilities were managed in accordance with EPA requirements. <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"> removed from site and disposed of at a licensed facility 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 backfilled down the drillhole, 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. <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>
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).	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Activities will be carried out with minimal disturbance to soil profile and topography by using existing tracks, avoiding tight bends on tracks, avoiding creek crossing where possible, imposing speed limits (<10kph on old tracks), and driving with careful consideration of topography to limit potential for modified water runoff. For proposed track usage refer to Figure 2. As advised by the Bimbowrie park ranger, after wet weather conditions/rainfall, contact will be made with the onsite manager before utilising park tracks. Vehicle movement on unsealed roads will be controlled or halted (depending on conditions) to minimise ground disturbance. Public roads will only be driven on when declared open by authorities and in consultation with the relevant land manager. Access off tracks within the Bimbowrie CP and surrounding pastoral leases will avoided, and access to areas of interest will be by utilising existing roads, tracks, and fence lines or utilising scars where original station tracks, and internal fence lines have been decommissioned in consultation with Park Management (Figure 2). All access and route planning will be determined in consultation with park management. 	3	A	L	Where soil disturbance occurs as a result of exploration activities, ensure that: <ul style="list-style-type: none"> topsoil quality and quantity is maintained the soil profile and topography is reinstated to original conditions there is no accelerated soil erosion. 	<p>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"> 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 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 of disturbed sites. <p>Representative photos to be included within the annual exploration compliance report.</p> <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>

Exploration PEPR application – 12-month period

Impact assessment						Outcomes	Outcome measurement criteria (inc. monitoring plan)	
Receptor	Potential impacts	Is the potential impact applicable (Yes/No)	Control strategies	Risk assessment				
Lists are not exhaustive.	Lists are not exhaustive.	Some potential impacts are applicable to all programs.	Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	LH = likelihood of consequence CQ = severity of consequence	LH			CQ
			<ul style="list-style-type: none"> In the event that accelerated soil erosion results from the 'low impact' activities, rehabilitation will be conducted immediately after activity completion and in accordance with M33 guidelines. 					
Surface water	Alteration to surface water – interference to surface drainage.	No (Applicable to exploration programs that are likely to impact on surface drainage channels.)	<ul style="list-style-type: none"> Existing drainage channels will be preserved by utilising existing tracks in consultation with Park Management. For proposed track usage refer to Figure 2. Care will be taken to avoid all disruption and contamination to watercourses, and activities that may result in an increased risk of erosion. 				<p>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).</p> <p>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> <p>Alternatively, provide copies of water affecting permits within the annual exploration compliance report.</p>	
Groundwater/aquifer	Groundwater contamination: <ul style="list-style-type: none"> contamination of aquifers through entry of pollutants from the surface interconnection between aquifers degradation of natural hydrostatic conditions (maintain pre-drilling pressures). 	No (Applicable to all exploration programs that may intersect groundwater.)	<ul style="list-style-type: none"> Low impact activities are not expected to impact groundwater in any way and will be conducted in accordance with the M33 guidelines. 				<p>Drillholes restored to controlling geological conditions that existed before the hole was drilled or, where it is intended to re-enter the hole, the hole must be completed with casing of adequate strength and the casing cemented so that all aquifers are isolated to prevent the movement of any fluids behind the casing.</p> <p>Maintain evidence demonstrating that drillholes are decommissioned in accordance with Earth Resources Information Sheet M21, <i>Mineral exploration drillholes – general specifications for construction and backfilling</i>, and/or specific conditions from DEW (Groundwater) 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.</p> <p>Provide the information requested within the 'Groundwater' section of the annual exploration compliance report.</p>	
Soil/vegetation/fauna	Discharge of groundwater into the surrounding environment.	No (Applicable to all exploration programs that may intersect groundwater or where activities require the discharge of groundwater into the surrounding environment.)					<p>No discharge of groundwater outside of the exploration site (e.g. drillsite) into the surrounding environment and no discharge of water into a watercourse, unless prior approval under the relevant legislation is obtained.</p> <p>Maintain photographic evidence of all drillsites demonstrating that groundwater was not discharged into the surrounding environment, unless water affecting activity permits were obtained allowing the discharge of groundwater into watercourses and/or lakes.</p> <p>Representative photos and water affecting activity permits (where applicable) to be included within the annual exploration compliance report.</p>	
Groundwater users	Interference to existing water users when extracting water from existing dams, water bores or mineral drillholes.	Yes (Applicable to all exploration programs that may require the use of water from existing dams, water bores or mineral drillholes.)	<ul style="list-style-type: none"> If water samples are taken from water bores, wells, or other surface water occurrences, samples will be minimal, and no water will be discharged into the environment 	1	A	L	<p>No public nuisance impacts resulting from the extraction of water for exploration purposes, unless prior approval under the relevant legislation is obtained.</p> <p>Provide the information requested within the 'Complaints' section of the annual exploration compliance report demonstrating that all reasonable complaints from stakeholders were resolved to the satisfaction of both parties, prior to and ongoing during the course of the exploration program without the involvement of DEM.</p> <p>Where permits are required for the extraction and/or usage of groundwater, provide copies of the licence or permit within the annual exploration compliance report.</p>	
Soil/vegetation/fauna	Degradation of rehabilitated access tracks caused by third party access (includes previously closed and rehabilitated access tracks).	No (Applicable to exploration programs that create new access tracks.)	<ul style="list-style-type: none"> Degradation of rehabilitated access tracks is unlikely to occur, given that low impact activities will not require clearing for track creation. Any resulting rehabilitation will be conducted immediately after activity completion and in accordance with M33 guidelines. Rehabilitation will include raking and placing vegetation over the path within 50m of track entryways. For proposed track usage refer to Figure 2. 	2	A	L	<p>Rehabilitated access tracks remain permanently closed, unless prior approval under the relevant legislation is obtained.</p> <p>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.</p> <p>Representative photos are to be included within the annual exploration compliance report.</p> <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>	
Community/landowners	Damage to infrastructure and loss of income through fire.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Fires are prohibited in the park during fire bans and activities will be minimised during catastrophic fire days. Maintain equipment engine exhaust systems. 	2	B	L	<p>No loss of infrastructure or income through fire as a result of exploration activities.</p> <p>Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming that no uncontrolled fires* occurred.</p>	

Exploration PEPR application – 12-month period

Impact assessment						Outcomes	Outcome measurement criteria (inc. monitoring plan)	
Receptor Lists are not exhaustive.	Potential impacts Lists are not exhaustive.	Is the potential impact applicable (Yes/No) Some potential impacts are applicable to all programs.	Control strategies Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	Risk assessment LH = likelihood of consequence CQ = severity of consequence				
				LH	CQ			Risk
			<ul style="list-style-type: none"> All vehicles and plant fitted with fire extinguishers and/or fire suppression units. Fires for personal warmth outside of the fire ban season, if required, will be contained within appropriate bunding in an area designated by the onsite park manager, and firewood will be sourced from outside of the park. In the case of a fire, company Emergency Response Management Plan protocols will be implemented. 				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.	
General public	Injury or death to members of the public as a result of exploration activities.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Given that the project is occurring on a remote conservation park with a low rate of public visitation, the likelihood of the public being present is reduced. Avoid activities in the CP during peak tourist times where possible in consultation with the park ranger. Prevent third party access to utilised tracks by disguising entry and exit points off existing roads. Only inducted personnel will be permitted in the work areas. Visitors will undergo a visitor induction and will be chaperoned by a staff member. Company vehicles will abide by speed limits, or a maximum of 80km/h when on unsealed roads. All staff are instructed to drive to conditions. Any complaints received will be investigated and actions put in place to achieve an agreed resolution. Details will be recorded in the company Consultation Register and communicated to DEM. 	1	B	L	<p>No accidents involving the public that could have been reasonably prevented by the licensee.</p> <p>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.</p> <p>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 through the implementation of precautionary measures.</p>	
General public, employees, contractors and the environment	Contamination of the environment when exploring for known uranium and thorium deposits. Public and employee/contractor exposure to low level radiation.	No (Applicable to exploration programs located within known uranium or thorium deposits.)	N/A				<p>No increase in background radiation levels, and employee/contractor exposure levels during the exploration program are within safe limits.</p> <p>Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that:</p> <ul style="list-style-type: none"> Radiation levels post exploration and rehabilitation are consistent with pre-existing background levels. Employee and contractors exposure levels were within safe limits during the exploration program. 	
Other (if applicable)								

* Uncontrolled fires = fires that escape outside of the work area (e.g. drillsite).

† Properties = freehold (cropping and grazing land); perpetual/pastoral lease land; council land; regional reserves; national, conservation and marine parks; Aboriginal land; Commonwealth land etc.

SECTION G - OPERATOR CAPABILITY

Provide information demonstrating that the tenement holder and operator (where applicable) has the capability to conduct the program in a manner that consistently ensures ongoing achievement of the environmental outcomes. This may be demonstrated within the PEPR by providing an overview of the following:

- Manuals or standard operating procedures that outline the safe and environmentally sound operation of all critical operations associated with the exploration program that ensure compliance with the PEPR.
- Systems in place to monitor, audit and assess compliance against the criteria approved in the PEPR.
- Systems in place to identify and report any noncompliance with regulatory requirements or relevant environmental outcomes (e.g. measures in place to report incidents in accordance with regulation 79(3)).
- Practices and procedures in place to provide appropriate communication of regulatory requirements to employees and contractors (e.g. induction programs).
- Practices and procedures in place to respond to, and communicate with landowners and external parties on the proposed program and compliance matters (e.g. complaints)

Standard Operating Procedures have been developed and adjusted to meet the needs of the company's exploration projects. Sinosteel has management plans, procedures, forms, and checklists to manage all remote exploration programs. These include (but are not limited to):

- Flora and Fauna Management plan
- Weed hygiene and washdown checklist
- Ground disturbance checklist
- Spill response procedures
- Emergency management plan
- Exploration site induction including
 - o landholder requirements,
 - o heritage clearance conditions & exclusion zones, and
 - o flora and fauna awareness & sensitive areas.

Supervision of exploration programs is undertaken by experienced staff. During activities, the approved ePEPR is on site and available to everyone. Ongoing compliance checks are completed by the supervising geologist, these include compliance with the Mining Act, the approved EPEPR, and cultural heritage protection.

Communication is maintained through regular communication to the relevant parties involved, following the company Stakeholder Engagement Plan and all interactions/requests/complaints are recorded in a Stakeholder Register. All communications with stakeholders including DEM, DEW, landholders, and NAWNTAC are recorded in a company Stakeholder Communication Register to enable cross referencing of dialogue between Sinosteel staff.

SECTION H –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.

N/A

SECTION I – PHOTOS

Include photographs in this section:

- that have been obtained during site visits
- that help describe relevant environmental and operational aspects in the PEPR.

To insert photos, copy and paste the photo into the template below. Resize photos to fit page width. Ensure that all information about each photo is completed and refer to the photo number in the relevant section of the PEPR.

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
Bimbowrie 2011 drilling area	2011	Photo 1 Landform and Topography	Unknown	Unknown	N/A	Flat to mildly undulating arid floodplains with relatively little sub crop evident. Location approximate, in the south-east of the park. Similar terrain expected in the north-west.



Exploration PEPR application – 12-month period

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
Bimbowrie 2017 reccy	19/12/2017	Photo 2 Landform and Topography	Unknown	Unknown	N/A	Interspersed rocky outcrop hills to approximately 30m above the level of the plains. Location approximate, in the north-west of the park.



Exploration PEPR application – 12-month period

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
Bimbowrie public road – Purple-wood occurrence	26/11/2020	Photo 3 Native Vegetation	422920	6451880	54	Stand of Purple-wood Wattle (<i>Acacia carneorum</i>) identified on the public roadside in Bimbowrie CP during site access to Kalabity 2020



Exploration PEPR application – 12-month period

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
Koolka South BGC location	20/10/2021	Photo 4 a & b Surface Sampling	420230	6466080	54	On-foot access to biogeochemistry and soil sample sites under the 2021 ADI initiative project



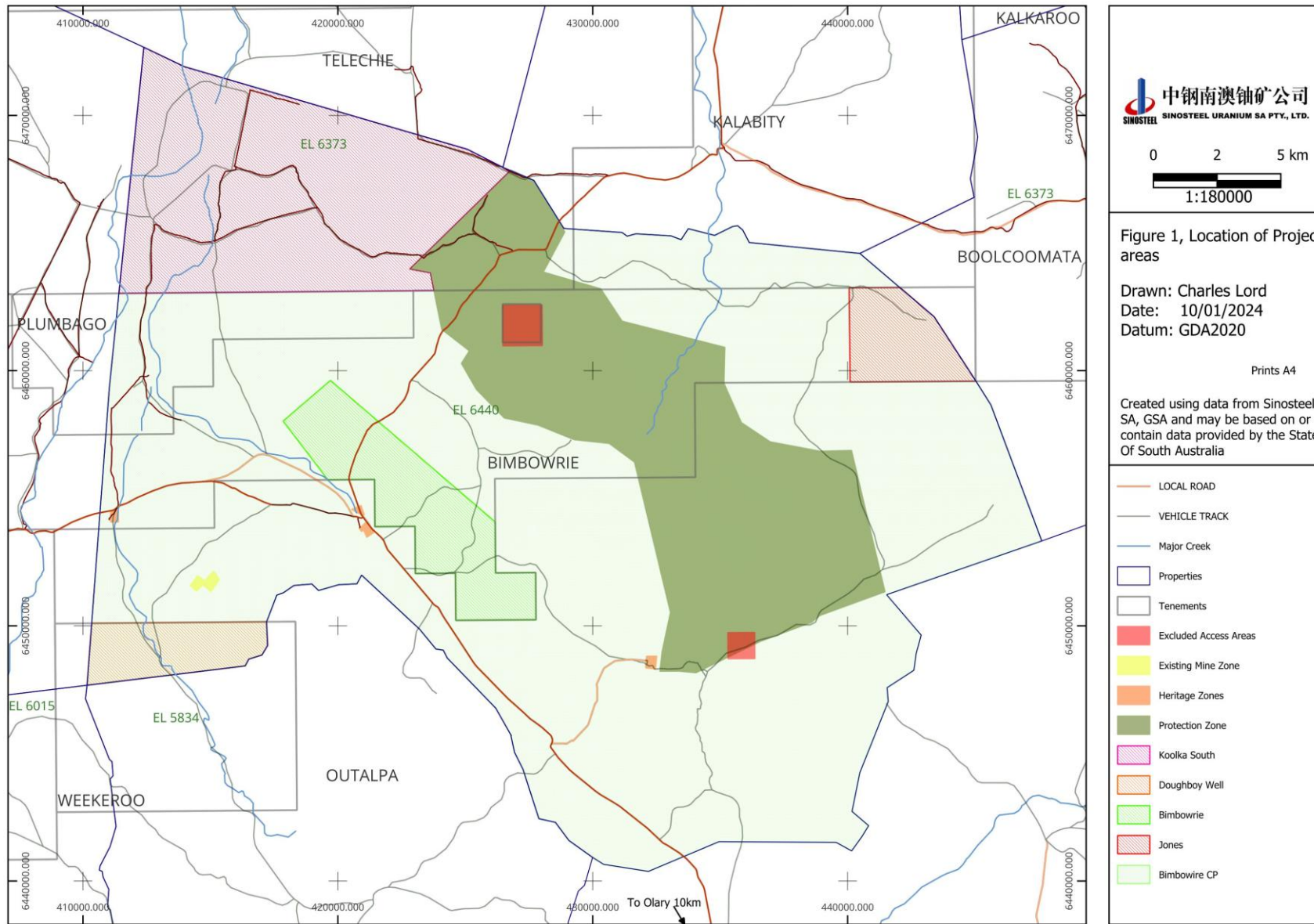
SECTION J – MAPS

Provide a map(s) showing the following information that is located adjacent to or within the proposed area of operations, where applicable:

- tenement boundaries,
- cadastral information,
- existing surface contours,
- existing vegetation,
- location of the proposed exploration operations (includes drillholes, existing and new access tracks, drill traverses, campsites, laydown areas and other applicable information) and/or the target exploration area(s),
- location of existing ephemeral and permanent rivers, creeks, swamps, streams or watercourses and water management structures,
- location of towns, houses and homesteads, existing roads, rails, fences, transmission lines, buildings, dams and pipelines
- known sightings of listed species,
- location and extent of all environmentally sensitive areas,
- any relevant land use types (e.g. parks and reserves, Aboriginal freehold land, Woomera Prohibited Area).

All maps and sections must conform to the standards outlined in the Exploration PEPR Terms of Reference.

Exploration PEPR application – 12-month period



中钢南澳铀矿公司
SINOSTEEL SINOSTEEL URANIUM SA PTY., LTD.

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Figure 1, Location of Project areas

Drawn: Charles Lord
Date: 10/01/2024
Datum: GDA2020

Prints A4

Created using data from Sinosteel SA, GSA and may be based on or contain data provided by the State Of South Australia

Figure 1: Project Location

Exploration PEPR application – 12-month period

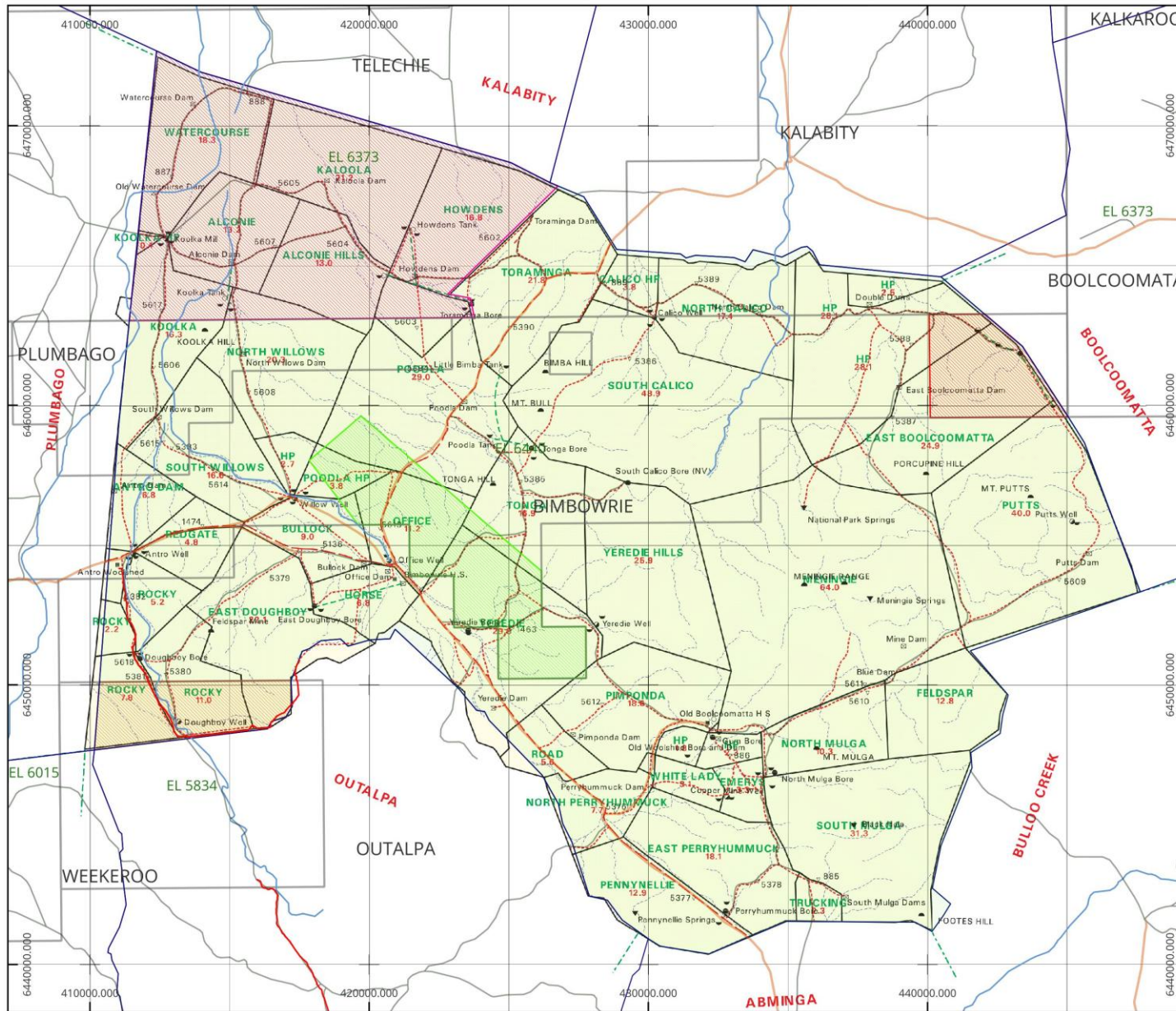


Figure 2 Access

Drawn: Charles Lord
Date: 10/01/2024
Datum: GDA2020

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Created using data from Sinosteel SA, GSA and may be based on or contain data provided by the State Of South Australia

- Track to Outalpa
- LOCAL ROAD
- VEHICLE TRACK
- Major Creek
- Properties
- Tenements
- Koolka South
- Doughboy Well
- Bimbowrie
- Jones
- Bimbowrie CP

Figure 2: Access Routes

Exploration PEPR application – 12-month period

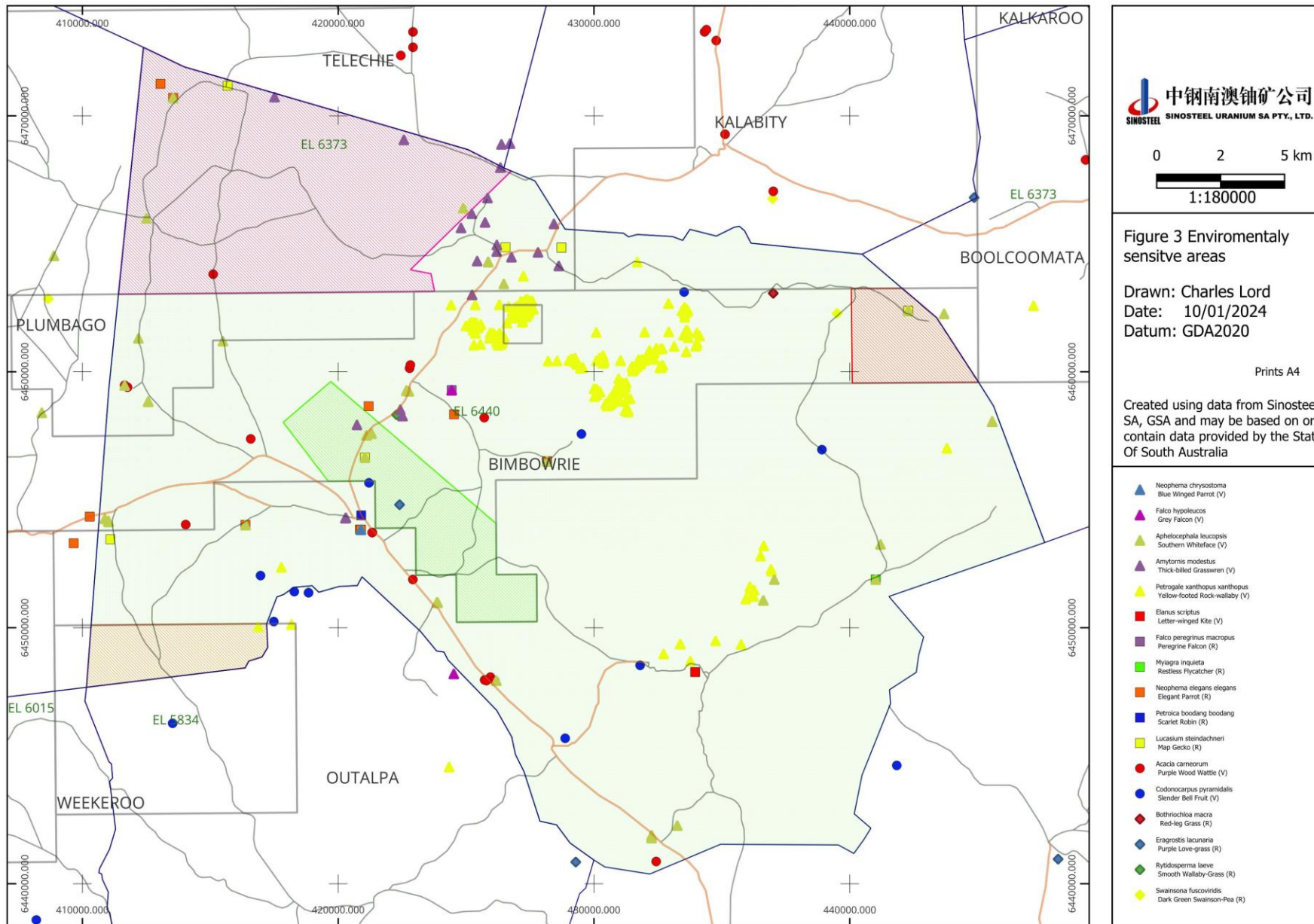


Figure 3 Environmentally sensitive areas

Drawn: Charles Lord
Date: 10/01/2024
Datum: GDA2020

Prints A4

Created using data from SinoSteel SA, GSA and may be based on or contain data provided by the State Of South Australia

- ▲ Neophema chrysostrisoma Blue-winged Parrot (V)
- ▲ Falco hypoleucos Grey Falcon (V)
- ▲ Aphelocephala leucopsis Southern Whiteface (V)
- ▲ Amytornis modestus Thick-billed Grasswren (V)
- ▲ Petrogale xanthopus xanthopus Yellow-footed Rock-wallaby (V)
- Elanus scriptus Letter-winged Kite (V)
- Falco peregrinus macropus Peregrine Falcon (R)
- Myiagra inquieta Restless Flycatcher (R)
- Neophema elegans elegans Elegant Parrot (R)
- Petroica boodang boodang Scarlet Robin (R)
- Lucasium steindachneri Map Gecko (R)
- Acacia carneorum Purple Wood Wattle (V)
- Codonocarpus pyramidalis Slender Bell (V)
- ◆ Bothriochloa macra Red-leg Grass (R)
- ◆ Eragrostis lacunaria Purple Love-grass (R)
- ◆ Rytidosperma laevis Smooth Wallaby-Grass (R)
- ◆ Swainsona fuscoviridis Dark Green Swainson-Pea (R)

Figure 3: Environmentally sensitive areas

SECTION K – PUBLIC RELEASE

PEPR documents will be registered on the mining register and publicly released in full without the need to request consent from the tenement holder(s). Ultimately, it is the applicant's responsibility to ensure that confidential, or commercially sensitive, information is not included within the PEPR application.

SECTION L – SUBMISSION OF THE APPLICATION

An application for an Exploration PEPR or PEPR review, must be submitted in the following form, unless otherwise specified by the Director of Mines or an authorised officer:

- an electronic version of the PEPR must be submitted using the exploration PEPR template(s) provided on the DEM Minerals website,
- the electronic version must be submitted online through the DEM Minerals website using the exploration PEPR submission form,
- the electronic version must be submitted in one single Acrobat PDF file, and
- Microsoft Word-compatible files must be submitted if requested by the Director of Mines (or delegate), or other authorised officers.