



Government
of South Australia

Department for
Energy and Mining

28 November 2024

Mr. Andrew Alesci
Senior Project Geologist
Gawler Resources Pty Ltd
47 King Street
NORWOOD SA 5067

aalesci@investres.com.au

Dear Mr Alesci,

Approval Notification - Exploration Program for Environment Protection and Rehabilitation (EPEPR2024-038) EL 5938, EL6253, EL6345

The program for EL 5938, EL6253, EL6345, final version submitted on 26 November 2024 to conduct 15 RC drillholes to a maximum depth of 400m at Wiawera, situated approximately 10km east of Olary, has been approved in accordance with Section 70B(5) of the *Mining Act, 1971 (the Act)*.

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).
8. The EPEPR is approved for a period of twelve months from the date of this letter.

MINERALS REGULATION

Level 7, 11 Waymouth Street, Adelaide SA 5000 | GPO Box 320 Adelaide SA 5001

Tel (+61) 8 8463 3000 | www.energymining.sa.gov.au | ABN 83 768 683 934



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 Cobus Martins on 0437252134 or Shelley Rasmussen 0409 797 670 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
REGULATION & COMPLIANCE
In accordance with delegated
Ministerial powers and functions

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

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	EL5938, EL6253, EL6345		
Tenement holder(s) (for each tenement)	Gawler Resources Pty Ltd (a 100% owned subsidiary of Investigator Resources Ltd)		
Operating company	Gawler Resources Ltd. 47-49 King Street, Norwood, SA 5067 (08) 7325 2222		
Agency agreement (if applicable)	N/A		
PEPR prepared by			
Project supervisor/contact person(s)	Project Supervisor/contact person: Andrew Alesci, Senior Project Geologist. >15 years geological experience and +6 yrs experience directly related to the project region.		
Project/prospect name	Wiawera, Curnamona		
Location details	The project area is located within the Eringa Park, Maldorky, Wiawera, Oulnina, Wadnaminga and Taltabooka Stations. The Olary township resides directly on the Northwestern corner of the tenement boundary with 110km to Broken Hill. The project is within the Olary project area 1:250,000km mapsheet.		
Project description, commodity type and mineralisation model	The Project area is located at the eastern end of the Adelaidean Fold Belt within the Olary province. Regionally the Early Proterozoic Wilyama Supergroup sediments form fault bounded inliers against the younger Adelaidean (850-570 ma) sediments. In the project area the dominant structural controls are the Macdonald and Outalpa faults which trend SE-NW which form sharp contacts with the older Wilyama to the east. Significant deformation has occurred throughout the history of the Curnamona province which is dominated by the Delamerian Orogeny (450-500 Ma). Exploration models adopted for the tenement are structurally related gold mineralisation within Neoproterozoic units of the Adelaidean Sequence, and copper-gold mineralisation associated with intrusive Delamerian granitoids		
Proposed project schedule	Start date	15/02/2025	End date 14/02/2026

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	Andrew Alesci	Signature (digital allowed)	<i>A.Alesci</i>
Position	Senior Project Geologist	Date	9/10/2024

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.

Desktop Reviews

A desktop review of all open file historical exploration has been conducted by Gawler Resources geologists, in addition to geological consultants, with particular attention to existing historical excavations at the Junction Creek, Copperlinka, Dalkey and Cemetery mineral occurrences. These areas of known mineralisation have informed exploration models and targetting for the wider tenement area particularly along strike of recognised mineral hosting structures. An assessment of open file gravity and magnetic survey data has been conducted in tandem with recently acquired gravity data across multiple prospects which has highlighted new areas of interest that have previously not been explored. Desktop reviews of DEWNR flora and fauna records, waterconnect borehole information, bureau of meteorology groundwater dependence data and relevant land management was undertaken to understand the environment that the proposed work will occur within.

Field Visits, Reconnaissance and Landowner Consultation

Exploration activities over these tenements has been muted due to protracted negotiations with native title owners the Wilyakali Aboriginal corporation since initial grant of EL5938 in 2017. The Wilyakali Aboriginal Corporation Native Title group and Gawler Resources finalised a Native Title Mining Agreement (NTMA) in 2022 allowing for more detailed work programs to occur. Since agreement of this NTMA exploration has accelerated in the form of multiple sporadic small scale ground investigations with geochemical sampling of areas of interest. Undertaking of detailed geophysical surveys has further informed targeting within the project area. Regular communication with landowners and native title groups with multiple notices of entry forms provided for each small scale program undertaken. Maldorky and Wiawera stations have provided accommodation for previous visits, and conversations have occurred with Maldorky Station manager Mark Francis regarding assisting in future earthwork preparation for drilling activities

Contractor Consultation

Gawler Resource’s preferred drill contractor ‘Bullion Drilling’ will conduct the drill program (subject to availability). Timing of the drill program is scheduled for November/December 2024 but subject to the completion of a Native Title survey and drill rig availability. Drilling will be by reverse circulation method (“RC”) and comprise 1 x rig plus ancilliary equipment. The program is reconnaissance in nature with holes at variable spacings scattered over multiple target areas (refer accompanying images). Gawler Resources have a strong relationship with Maldorky Station owner Mark Francis who has previous experience in earthworks in preparatory works for drilling. Mark is aware of the requirements to adhere to E-PEPR and IVR guidelines and as owner of one of the stations in which IVR operates understands the importance of rehabilitation to ensure best outcomes.

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
EL5938	Maldorky + Eringa (Oulnina) Station, Mark Francis	Lease	Pastoral	Form 21a 6/08/2024 Form 21b 15/10/2024				<Tab to add rows.>

Exploration PEPR application – 12-month period

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
EL5938, EL6253, EL6345	Wiawera Station,	Lease	Pastoral	Form 21a 6/08/2024 Form 21b 15/10/2024				
EL5938, EL6253, EL6345	Wilyakali	Native Title Holders	-	Form 21a 6/08/2024				

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

Not applicable, all landowners were contacted by email and have responded with no issues presented.

Provide any additional relevant information.

Native Title Heritage Survey has been requested and will be undertaken prior to commencing any activities relating to advanced exploration programs.

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 project area is located within the Eringa Park, Maldorky, Wiawera, Oulnina, Wadnaminga and Taltabooka Stations. The Olary township resides directly on the Northwestern corner of the tenement boundary with 110km to Broken Hill. The project is within the Olary project area 1:250,000km mapsheet.

Wiawera Homestead resides in the upper northern section of the tenement. Maldorky Homestead, who will provide accommodation during the work programs, is approximately 4km to the southeast of southern tenement boundary. Other homesteads nearby are Eringa Park on the western boundary & Devonborough Downs 5km off the southern boundary. All station residences listed will not be impacted by the program of work in this E-PEPR.

Accessibility to the project area is good, with the unsealed station roads passing just south of the proposed areas of work. Additional access will be via the existing network of station tracks and along fencelines within the region. Station tracks where utilised will be monitored for damaged and remediated if damaged as part of the program.

A number of dams are present in the area subject of this E-PEPR. Drilling is not planned in the vicinity of any dams within the area and as such they will remain unaffected by the program. Access tracks in some instances pass proximal to dams and speed restrictions and other aspects to ensure no affect on infrastructure or stock will be put in place via a traffic management plan.

No railway, transmission, communication lines are present in the area of work and no buildings or ruins are present.

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
Freehold	<input type="checkbox"/>
Pastoral lease	<input checked="" type="checkbox"/>
Perpetual lease	<input type="checkbox"/>
Crown land	<input type="checkbox"/>
Mining reserve	<input type="checkbox"/>
Aboriginal freehold/leasehold land (e.g. Anangu Pitjantjatjara Yankunytjatjara and Maralinga Tjarutja lands)	<input type="checkbox"/>
Forestry reserve	<input type="checkbox"/>
Marine parks	<input type="checkbox"/>
National parks, conservation parks, conservation reserves, regional reserves*	<input type="checkbox"/>
Adelaide Dolphin Sanctuary	<input type="checkbox"/>
Murray Darling Basin	<input type="checkbox"/>
<If park/reserve is selected, please provide the name of the park>	
Other*	<input type="checkbox"/>
<If other is selected, describe the land tenure here.>	

Land use	Applicable
Grazing	<input checked="" type="checkbox"/>
Cultivated land	<input type="checkbox"/>
Residential	<input type="checkbox"/>
Township	<input type="checkbox"/>
Industrial	<input type="checkbox"/>
Tourism	<input type="checkbox"/>
Conservation	<input type="checkbox"/>
Defence activity	<input type="checkbox"/>
Road reserve	<input type="checkbox"/>
Sites of scientific significance (geological monuments, fossil reserves etc.)	<input type="checkbox"/>
Orchard/vineyard	<input type="checkbox"/>
*Native vegetation heritage agreements	<input type="checkbox"/>
<Provide the name of the area>	
*European heritage sites	<input type="checkbox"/>
<Provide the name of the site>	
*Other (e.g. historic mining)	
<Provide the name of the site>	

* 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.

N/A

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?	n/a				
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?					
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).

Exploration PEPR application – 12-month period

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?		
Provide the date the Range Control Officer granted access permission to conduct the proposed exploration operations.		
Describe the results of consultation and how any concerns raised were addressed.		
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"/>	Wilyakali Aboriginal Corporation	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?*	EL5938, EL6253, EL6345 Instrument Number 52039
Have you accepted an Indigenous land use agreement (ILUA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the ILUA registered?*	<List the tenements covered by the ILUA>
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.

<Include text here.>

Landform and topography

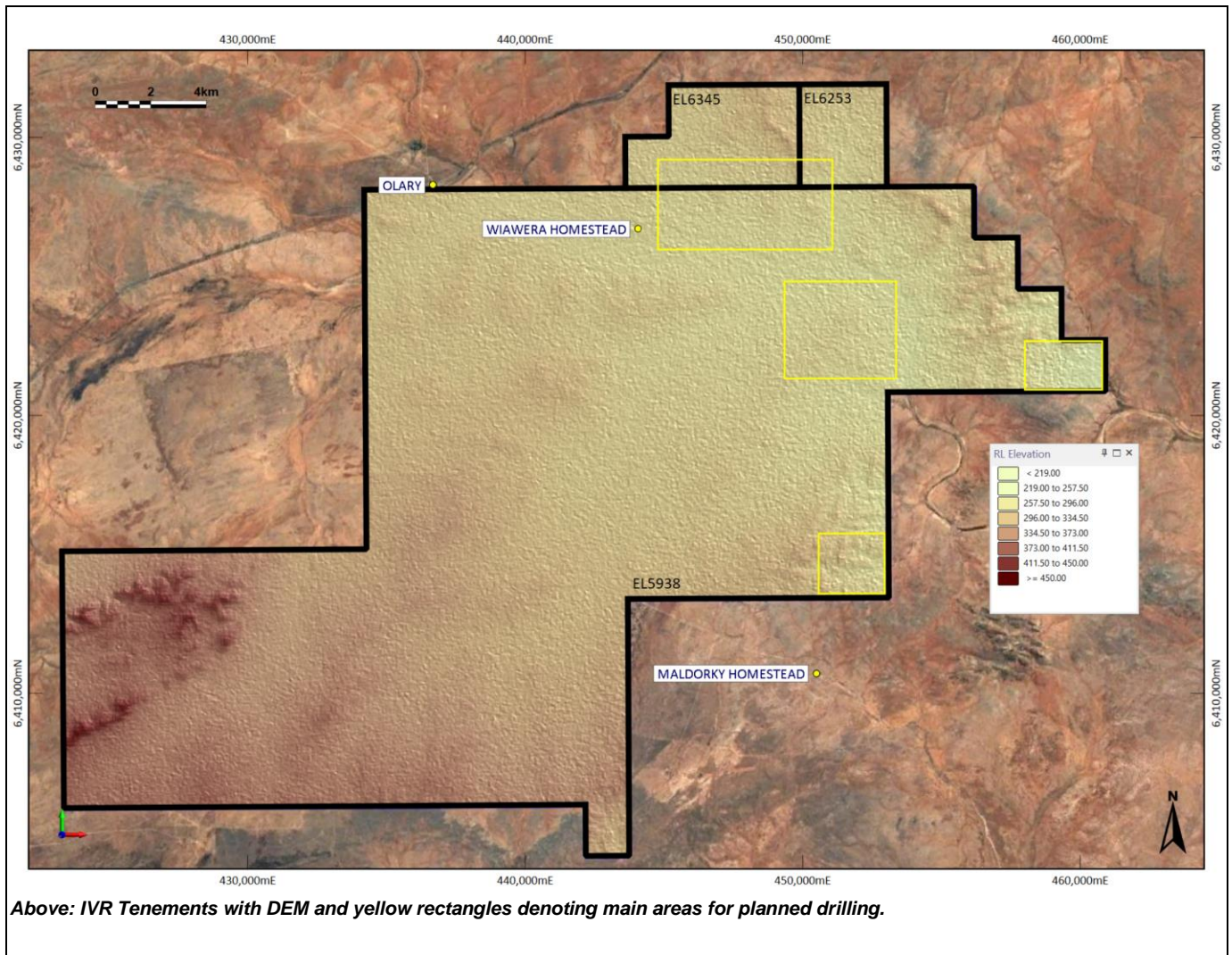
Describe the topography of the general area affected by the exploration program. Include the susceptibility to erosion and visual attributes (steep or undulating slopes, plains, rocky outcrops, dunes, salt pans, clay pans etc.).

The western half of tenement EL5938 is composed of gently undulating plains dominated by grasses and bluebush that meet ephemeral creeks that feed the major drainage hosts on the tenement. Olary creek on the northern boundary and Copperlinka Creek on the Southwestern corner. On expansive flats and lowlands the drainage typically fragments into a braided system of broad gravel choked channels. Significant outcrop is present across these plains and towards the more topographical varied regions to the east. Aerial imagery exhibits the structural complexity and exposure of local shale and siltstone units within large km scale synforms and antiforms visible. Drainage appears to follow bedrock and structural lineaments within the region.

Gradual elevation changes occur moving east across the tenement transitioning into the Maldorky Hills with occasional outcrop of sandstone and erosion resistive units that make up these hills. Most prominent of these features is Maldorky Hill located to the southeast off the tenement with elevation of 412m. These more topographically varied regions are incised by small ephemeral drainage systems that feed the larger Olary creek.

Exploration will be restricted to broad plains regions and lesser hills of the central and eastern portion of the tenement with care taken to avoid disturbing erosional affects of these areas. Drainage systems are to be avoided where possible and existing crossings of drainage systems are to be utilised where possible.

Exploration PEPR application – 12-month period



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.

Soils within the project area consist of colluvial and aeolian sediment plains that are generally in the form of sandy and/or calcareous loams. Regolith is typically transported from abundant exposures of local geology on topographic highs onto colluvial plains, and into many drainage depressions scattered across the area. Prominent topographic high ridges of outcropping Wilyperpa sandstones span the eastern boundaries of the tenement package. Colluvial and aeolian sediments flowing into sparse quaternary drainage systems separate these prominent topographic highs. Rock rubble is distributed proximally to outcropping features, generally with dispersion of no more than approximately 100m

The thin sandy soils that dominate the area are not expected to suffer from any significant compaction or erosion from drilling activities, due to the limited period that the rig will be on a drill pad (up to 1 day). Erosion can be increased if flora root stock is removed, track and pad clearing will be as minimal as possible, and where possible be constrained to flattening of vegetation if required so as to preserve root stock. Tracks where possible will be constructed to fit with existing contours and minimise potential to development of new drainage and erosional channels. New tracks in the soil type described have potential to rut and degrade and will where possible be constructed with minimal bends to reduce potential for churn of soil and excessive break down of soil structure locally. Where clearing is required or construction of drill pad and sumps, the topsoil will be removed and stockpiled separately and utilised in the last phase of rehabilitation.

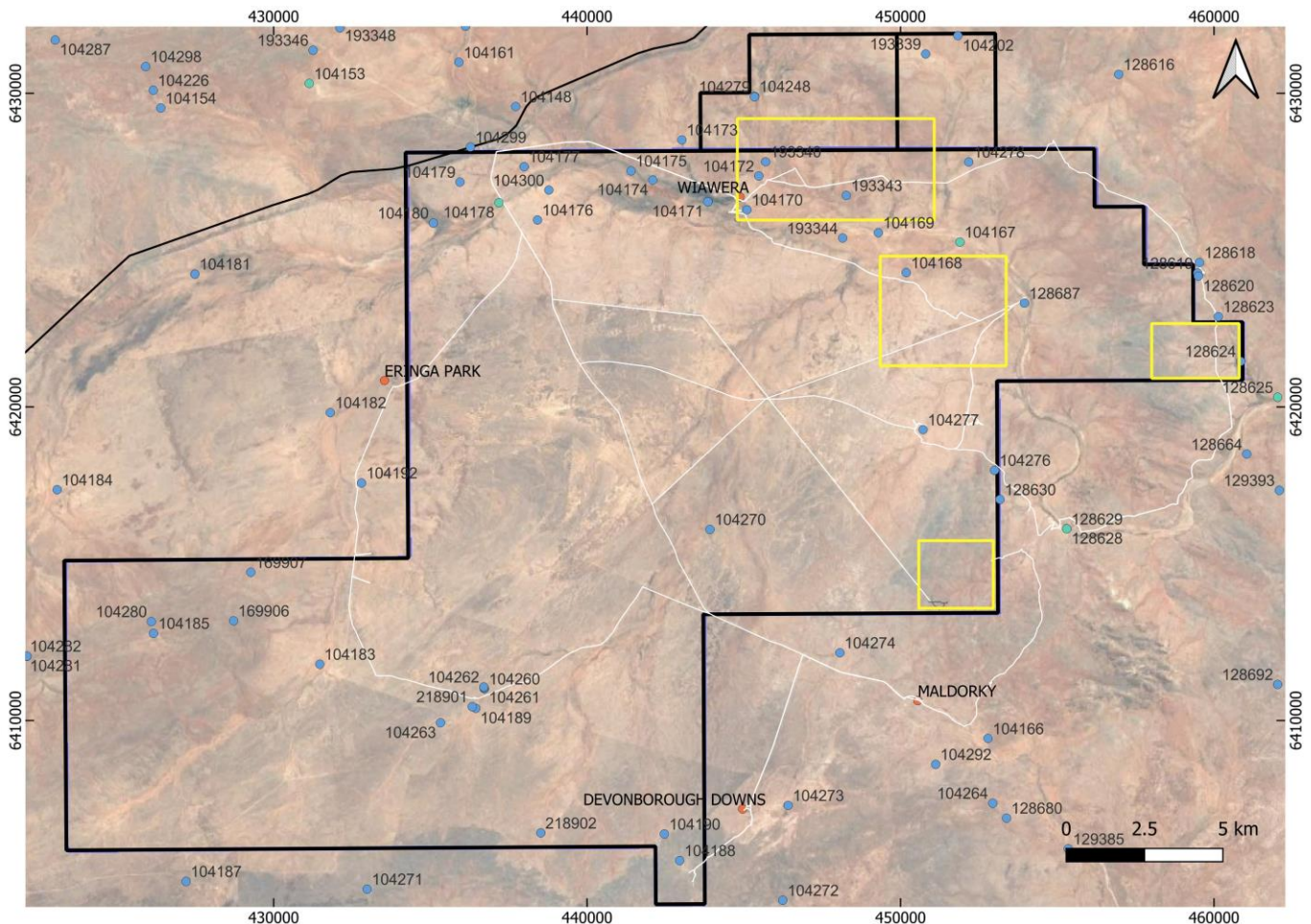
Exploration PEPR application – 12-month period

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"/>
<If yes, provide the name(s)>		

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 checked="" type="checkbox"/>	No <input type="checkbox"/>
<p>A search of waterconnect.sa.gov.au showed the project area having 33 wells across the region. Of the wells listed with sufficient information, most wells were targeted on the Wilyerpa Formation with one well by the Wiawera homestead within quaternary rocks. Majority of wells in the areas listed purpose are for stock watering with only one domestic bore with data available by the Wiawera homestead. Proposed areas of exploration are distant to location of this bore.</p> <p>Groundwater intersected in this program is likely to be associated with Wilyerpa formation lithologies conducive to fracturing (quartzites or similar) or within structural features. Based on data present within the waterconnect database groundwater if intersected in this region has moderate TDS ratings between 6000-8000mg/l with low flow rate. Excavation of 2 sumps at each drillsite will be undertaken to capture any excess groundwater from drilling activities, with the option for a third sump if excessive water intersected during drilling and additional storage capacity required to achieve target drill depth.</p> <p>Only 4 bores are present within a 5km radius of proposed target areas Information for these are listed in table below.</p>		



Above: IVR Tenements with Water Wells plotted

Exploration PEPR application – 12-month period

Description of the locality/area where different groundwater conditions may be encountered					
Treloars/Junction Creek					
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
Wilyerpa (7033-37)	4.4	Wilyerpa	N/A	Unconfined	3827mg/l TDS, 1.63m SWL
Wilyerpa(7033-1422)	N/A	Wilyerpa	N/A	Unconfined	2956 mg/l TDS, OPR
N/A (6933-130)	N/A	N/A	N/A	Unconfined	8286 mg/l TDS, 6.8m SWL, OPR
N/A (7033-94)	19.5	N/A	N/A	Unconfined	1984 mg/L TDS, 18.2 SWL, OPR

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

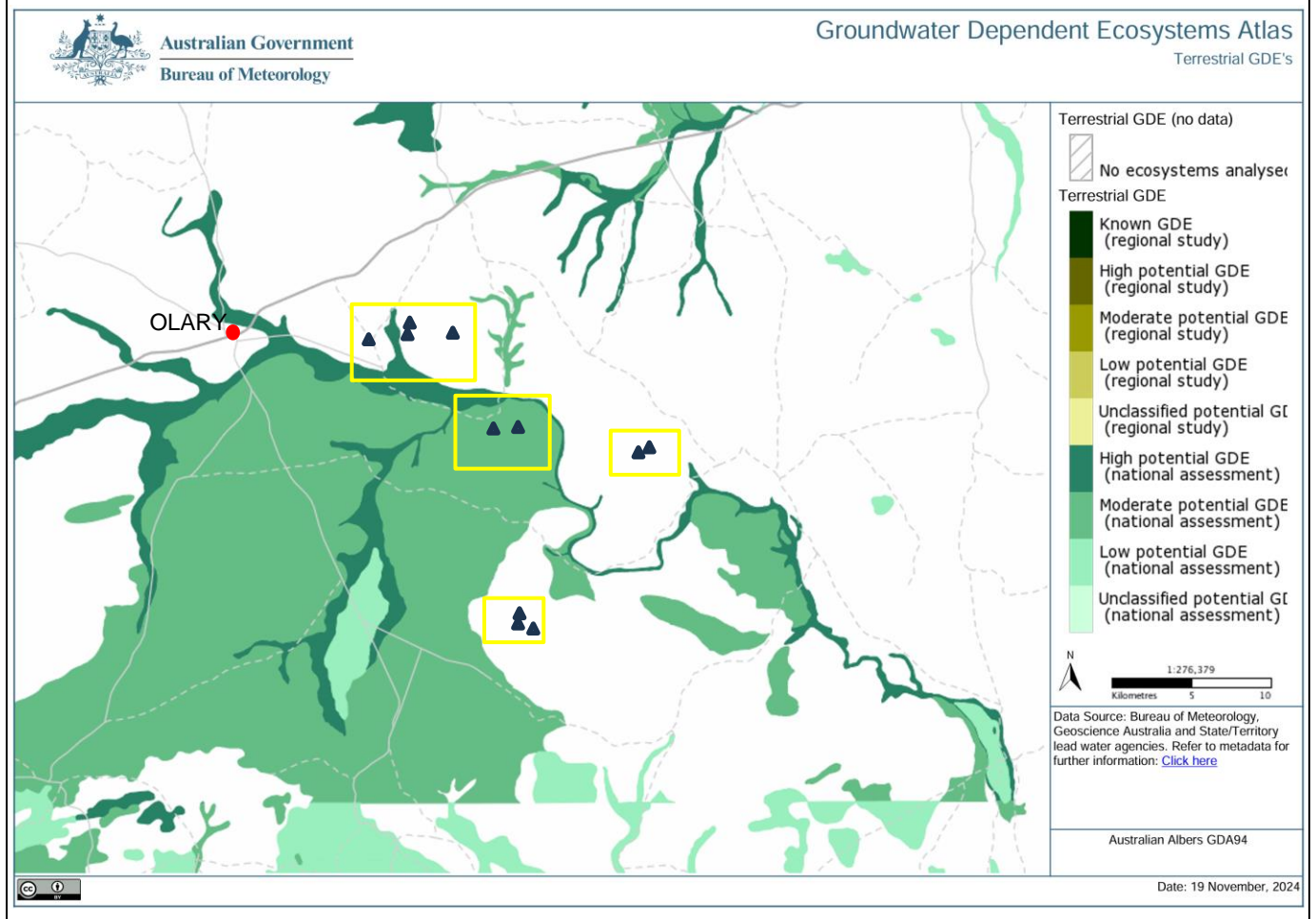
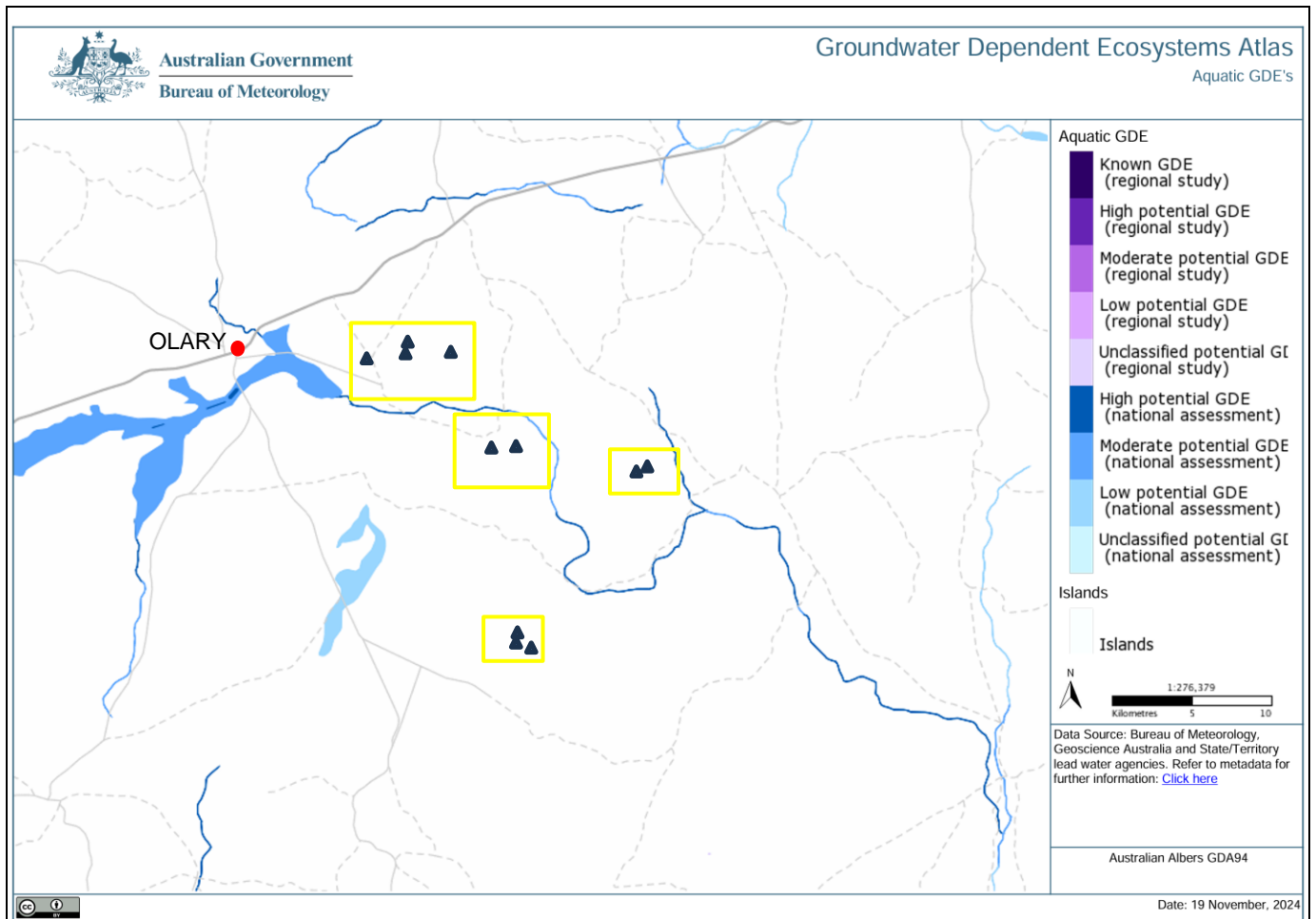
With expected TDS levels within target areas between 2000-8000 mg/L, environmental value for encountered water would only be relevant for potential livestock drinking water within the area in line with EPA Water quality policy.

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

GDE's within the region are restricted along the major drainage systems present in the northern section of the Project area. Reviewing the GDE Atlas produced by the Bureau of Meteorology data GDEs of note are listed below.
 Multiple creeks and drainage systems in the area including the Wiawera and Copperlinka creeks are rated as moderate potential whilst the largest drainage in the area Olary creek is rated as High potential GDE.
 The western plains of the project area has two shrubland types of *Atriplex vesicaria* and *Maireana pyramidata* with moderate potential GDE. Areas proximal to drainage areas in the north of the project area along Olary, Wiawera and Copperlinka creeks have wetland ecosystems with high GDE assessment. - Images of GDE systems and ratings are attached, with areas of interest highlighted by yellow polygons and approximate locations of planned drillholes (yet to be finalised).

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

Provide any additional information, if required.



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"/>
Sloping plains of the project area is dominated by low open shrubland with predominant species of saltbush and blue bush (<i>Atriplex vesciara</i>) Other low shrubs amongst the plains include <i>Maireana astrotricha</i> , +/- <i>Maireana pyramidata</i> , +/- <i>Rhagodia spinescens</i> over smaller species including <i>Enneapogon avenaceus</i> , <i>Sclerolaena ventricosa</i> , <i>Sclerolaena brachyptera</i> , <i>Sclerolaena obliquicuspis</i> , <i>Dissocarpus paradoxus</i> . Drainages and floodouts typically hold small populations of <i>Nitraria</i> species.		
The eastern portion of the project area varies with stream channels and valleys between topographic highs holding species of <i>Acacia</i> emergent over low shrubland of <i>Maireana pyramidata</i> and other low shrubs. Some areas of low open tussock grassland of <i>Enneapogon</i> and similar species can be found. <i>Acacia</i> woodland is typically found on the eastern and western extremities of the tenement entering the more prominent hills.		
Larger stream channels of Olary drainage system can have varying degrees of <i>Eucalyptus</i> woodland particularly in vicinity of Wiawera homestead.		

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>Dianellaa porracea</i>	Pale Flax-lily	Vulnerable	<EPBC Act rating>
<i>Swainsona fuscoviridis</i>	Dark green Swainson pea	Rare	N/A

* *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.

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*).

No significant invasive plant species listed.

Fauna

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

Review of SA's NatureMaps has highlighted sightings of the following fauna within the project area: Red, Western and Eastern Grey Kangaroos, Emu, Spotted Marsh Frog, Sudells Frog, Little Eagle, White Winged Fairy Wren, Goat, Euro, House Mouse, Fox, Dwarf Skink.

Significant fauna

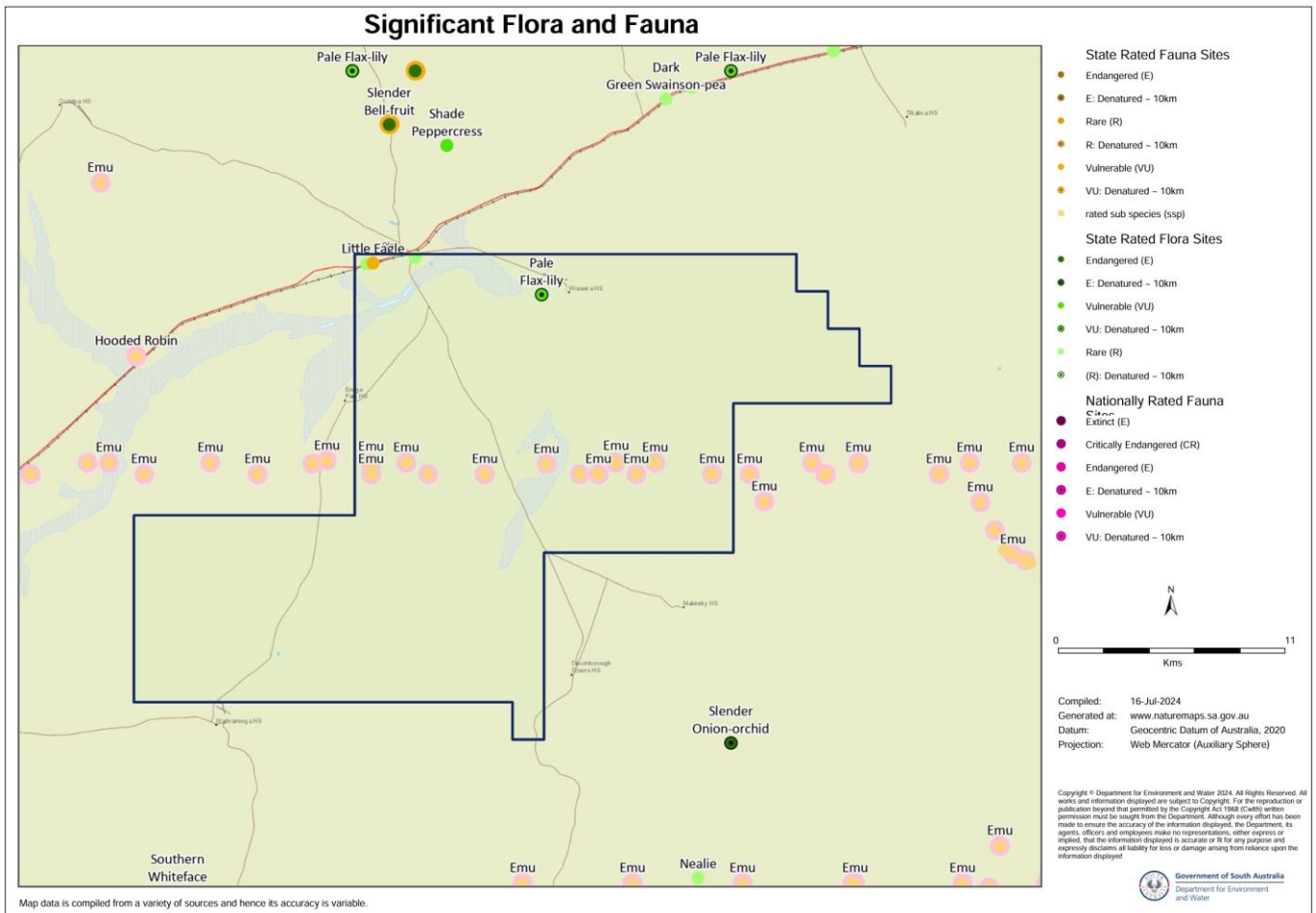
Where possible, using the table below, list any rare or endangered fauna species located or reported to have been in the area that may be impacted by the proposed program. Include known sightings of listed species on a locality plan/map.

Species	Common name	NPW Act rating	EPBC Act rating
<i>Hieraaetus morphnoides</i>	Little Eagle	Vulnerable	
<i>Dromaius novaehollandiae</i>	Emu	Rated Sub species	

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.

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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"/>
The Olary Creek runs proximal to our northern areas of interest. From national assessment these are classed as high potential Terrestrial GDE's. Where possible drilling will be planned to ensure outside of the area of high GDE potential. The central area of interest is within an area classed as moderate potential Terrestrial GDE through the national assessment. Refer to the maps presented on page 10.		
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"/>
Drainage systems are to be avoided where possible and existing crossings of drainage systems are to be utilised where possible.		
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.		
<i>Native Title Heritage Survey has been requested and will be undertaken prior to commencing any activities relating to advanced exploration programs.</i>		

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	2	Gawler Resources
Land access/environmental	1	Gawler Resources Senior Project Geologist will be the liaison officer.

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Field assistants/technicians	3	Contract Labour Hire Company - Techforce	
Drilling crew	4	Contract Drill Company – Preferred contractor Bullion Drilling, however tendering process will be undertaken.	
Site preparation and rehabilitation	1	Contract Earthworks company – preferred contractor Maldorky Station (Mark Francis)	
Other (provide details)		<Include name and contact details here.>	
Shifts worked per day	Hours worked per day	Days worked per week	
1	12	7	
Equipment type	Owner/operator	Description/capacity	Activity/purpose
RC Drill Rig	Drill Company - To be tendered.	Truck Mounted 8x8 AWD	RC Drilling
Compressor/Booster Truck	Drill Company - To be tendered.	6 or 8 Wheel drive, flat bed support truck	Provide additional air volume and pressure to the drill system.
Drillers Light Vehicle	Drill Company - To be tendered.	4WD Dual Cab or single cab light vehicle	Facilitate drill crew commute and carry light daily supplies.
Support Water Truck	Drill Company - To be tendered.	6 or 8 Wheel drive, flat bed support truck	Additionally facilitate drill crew commute and carry light daily supplies.
2 nd Support Truck	Drill Company - To be tendered.	4WD flat bed support truck	Additionally facilitate drill crew commute and carry light daily supplies.
Toyota Landcruisers	Gawler Resources	4WD Landcruisers	Geologist/Labour Hire/Project Supervisor – Support and transportation.
Toyota Hilux	Gawler Resources	4WD Dual Cab light vehicle	Geologist/Labour Hire/Project Supervisor – Support and transportation.
Front End Loader, backhoe, bulldozer, grader etc.	Mark Francis		Site preparation (clearing + sump excavation), clearing new tracks and site + track rehabilitation.

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 type="checkbox"/>	No <input checked="" type="checkbox"/>
N/a		

Drilling activities

Will exploration drilling activities be conducted? If yes, fill out the below table	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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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)
EL5938	RC	15	400m	3	5m x 1.5m x 3m = 22.5m ³	30m x 30m = 900m ²	0	0
TOTAL		15	6000	45	1012.5	13,500	0	0

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

Exploration PEPR application – 12-month period

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.

Where new tracks are required the aim is to minimise disturbance to existing vegetation by using natural clearings for access and pad creation. Mature trees will be avoided and if trimming of trees is required to accommodate drill vehicle access hand pruning (chain saw) of tree branches, without harmful disturbance to roots will be undertaken where possible. If new tracks are required, they will be constructed as short and straight as possible (limiting tight turns) to limit vegetation and surface disturbances but to also limit track degeneration.

Where clearing of under storey vegetation is required (shrubland e.g. bluebush, saltbush etc) for the drill work area, care will be taken to leave roots in place and to not cut into the soil (i.e. loader bucket/blade will skim over the ground surface and cut the vegetation). Any pruned or cut vegetation will be temporarily stockpiled for later redistribution.

Drill pads will be sized no larger than 30m x 30m to safely accommodate all required vehicles and equipment. Areas with mature trees and obvious significant ecological habits will be avoided. Where possible, if pad size can be reduced it will be.

Sumps will be constructed by separately removing and stockpiling the top 30cm "topsoil" profile and using the remaining excavated material to build bunds behind the sump. Sump construction will have one sloping face to allow egress should wildlife enter. Sumps will have approximate dimensions of 5m x 3m with a maximum depth of 1.5m. Due to limited knowledge of groundwater distribution, sumps are planned at all holes in the event of groundwater being intersected and requiring retention to ensure containment. Sumps will not be lined to allow water to drain in addition to evaporation which should see sumps dry within days of drilling.

RC drilling samples will be collected in large plastic bags and laid out in rows on the ground. Rehabilitation of drill cuttings and bags will be undertaken as soon as practicable following completion of drilling and receipt of sample analysis results, with drill cuttings used to back-fill drill holes where possible. Excess drill cuttings will be buried in drill sumps. All plastic bags will be removed from site and disposed of at an authorised waste facility at Olary or Broken Hill..

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"/>
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.		
Each drill hole will be collared with a pilot hole utilising a 5 3/8" bit and opened up with a 6 5/8" bit to insert a nominal length of 150mm PVC casing (1-6m in length depending on ground conditions). The PVC casing will be secured with two part expanding polyurethane foam. A t piece diversion box will be placed on the collar to allow any groundwater intersected during drilling to be directed into the sump.		
On completion of the hole a plastic hole cap filled with material will temporarily cap the hole. Upon receipt of drilling analytical results and final approval for rehabilitation, rehabilitation will commence with holes backfilled in accordance with ISM 21		
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.		
Final rehabilitation of each hole will occur after final analytical results have been returned and analysed (usually within 3-4 months of drilling). Rehabilitation will involve backfilling using drill cuttings, clean fill containing clay or cement (for a single unconfined aquifer) in accordance with ISM 21. For confined aquifers a plug will be inserted from the level at which the aquifer was penetrated with cement grout back to a minimum of 15m into the confining bed above; and then backfilled as for a single unconfined aquifer. Then breaking/cutting of the PVC casing >30cm below the surface, placing a plastic hole plug in the remaining PVC and final burial with topsoil. All rubbish including sample bags and hole pegs will be removed and taken to a licenced waste facility. The pad will then be scarified and stockpiled vegetation will be distributed over the pad to aid re-vegetation. Final rehabilitation photos will be taken with GPS coordinates and photo direction recorded for future monitoring.		

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)
						<Tab to add rows.>
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).

Drill bulk samples will be collected at one metre intervals via the drill rig cyclone into numbered plastic bags and arranged in rows in the confines of the drill pad. 2-3kg analytical samples will be collected into calico bags by 3m composite spear sampling for assaying and chip tray samples collected for geological logging. A rig mounted cone-splitter or a manual riffle splitter will provide a separate 2-3kg 1m sample into a calico bag. These 1m samples, if generated by the rig, will be retained inside the bulk 1m sample bags for subsequent sub sampling should results from the 3m composite samples warrant it and/or manual splitting may be undertaken once initial 3m composite results are received. The UVA stabilised plastic bags will not perish during the period between drilling and rehabilitation that will prevent drill cuttings from spreading over the ground and visually affecting the surface. Analytical samples in calico bags will be bundled into polyweave bags and taken back to camp each night for collation and storage in bulka bags, which will be despatched to the laboratory upon filling. During rehabilitation excess drill cuttings will either be returned to the drill hole as backfill or placed in the sump and buried. Empty plastic bags will be taken to a licenced waste facility for disposal. All samples will be dispatched to the laboratory during and at completion of the drilling program and chip trays sent to a Gawler Resource's Adelaide office.

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 checked="" type="checkbox"/>	No <input type="checkbox"/>
The tracks are currently in reasonable condition, however if they degrade during exploration, maintenance will be scheduled to occur using a grader or frontend loader at a time agreed with station owners. Frequent communication of track conditions and maintenance requirements will be communicated as required with the landowners/pastoral managers. All station access tracks used in the program will be reinstated to their original condition on completion of program.		
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 type="checkbox"/>	No <input checked="" type="checkbox"/>
N/a		
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 checked="" type="checkbox"/>	No <input type="checkbox"/>
Existing tracks will be utilised wherever possible with many holes planned close to existing tracks. New access tracks will be created in areas with minimal vegetation and the lowest topographical surface gradients to prevent potential wind and water erosion. The routes will be as short as practical to also minimise the total affected area. The drill line tracks will be initiated with a 4WD Utility, followed by a front-end loader with its bucket height set at above ground surface to remove tyre puncture hazards while leaving plant root stock and soil intact.		
Vehicles will follow the newly established access tracks to drill sites as far as reasonably practical and aim to prevent the unnecessary creation of multiple tracks. New track routes will be designed to avoid water courses; avoid stands of significant or established vegetation; and minimise potential for erosion. Mature vegetation will be avoided where possible and any overhanging trees will be trimmed by chainsaw of branches as opposed to wholesale tree removal. Where practical, entry and exit points will be created to accommodate a trucks ability to turn into the track. New tracks will follow a direct straight line where possible, and avoid S bends during creation to limit tyre rutting. If meandering tracks are required, broad turning circles to prevent excessive erosion and rutting at bends, will be created. The use of earthmoving equipment to establish new tracks will be kept to the minimum required for a safe and accessible program.		
It is estimated that approximately 5.5km of new access track will be required, with track widths at 3.2m to safely allow the access for the large trucks associated with the drill rig. Refer to section J for a map off potential new access track locations.		

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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Maldorky and/or Wiawera Station will rent out their shearers quarters to Gawler Resources for the duration of the program.		
What is the maximum number of personnel requiring accommodation?	11	
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.		
Maldorky and Wiawera station shearers quarters are a short distance from the work area and have all services available and existing for the program including space for lay down.		
What will be the total area (ha) of the campsite(s)?	N/A	ha
What will be the total area (ha) of vegetation clearance for the campsite?	N/A	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 checked="" type="checkbox"/>	No <input type="checkbox"/>
Existing plumbed in septic system installed Maldorky and Wiawera Station shearers quarters.		
Proposed infrastructure (includes caravans, tents, offices, hydrocarbon and water storage requirements etc)	Quantity	Description/capacity
		<Tab to add rows.>

Laydown area details		
Will laydown areas be required? If no, no further information is required.	Yes <input checked="" type="checkbox"/>	No <input 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 checked="" type="checkbox"/>	No <input type="checkbox"/>
What will be the maximum area (ha) required for the laydown area(s)?	0.5ha	
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
Drilling Fluids		<i>Drilling Additives/fluids/muds will be required to be stored on pallets above the ground at the designated laydown unless used on the drill site. Support trucks with bunding may also be used.</i>
Hydrocarbon Storage		<i>Drill contractors will have tanks on a support vehicle to take fuel to drill sites. Drill support vehicle and drill rigs will be required to have spill kits positioned at the pump.</i>
Other Hydrocarbon Storage		<i>Any other hydrocarbons – i.e. hydraulic oil, engine oil etc used by the drilling contractor will be required to be stored on pallets above the ground and have plastic sheeting beneath in such a way as to contain potential spills or leaks. Support vehicles with bunding may also be used.</i>
Provide a description and justification of the location (e.g. previously cleared areas), and any other relevant information if required.		
Location of lay down area is easily accessible before commencement of days activities after pre-starts and previously cleared allowing less disturbance.		

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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		

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 checked="" type="checkbox"/>	No <input type="checkbox"/>
Maldorky and/or Wiawera station shearers quarters accommodation will be utilised, which are connected to station water supply. Estimated water requirements are 30L/day per person (washing, cooking, cleaning etc.), totalling <7000L for the program. Water requirements for drilling would be <2000L and only used for dust suppression during RC drilling. This water will be supplied from station dams.		
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.
New track routes will be designed to avoid water courses; avoid stands of significant or established vegetation; and minimise potential for erosion. Mature vegetation will be avoided where possible and any overhanging trees will be trimmed by chainsaw of branches as opposed to wholesale tree removal.

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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.

Where practical, entry and exit points will be created to accommodate a trucks ability to turn into the track. New tracks will follow a direct straight line where possible, and avoid S bends during creation to limit tyre rutting. If meandering tracks are required, broad turning circles to prevent excessive erosion and rutting at bends will be implemented. The use of earthmoving equipment to establish new tracks will be kept to the minimum required for a safe and accessible program.

Drill bulk samples will be collected at one metre intervals via the drill rig cyclone into numbered plastic bags and arranged in rows in the confines of the drill pad. Analytical samples will be taken in calico bags for assaying and chip tray samples collected for geological logging. The UVA stabilised plastic bags will not perish during the period between drilling and rehabilitation that will prevent drill cuttings from spreading over the ground and visually affecting the surface.

On completion of a drill hole, the hole is capped and made secure, rubbish removed and just the green bulk samples remain. Upon receipt of analytical results and no further extension to the program, the site will be rehabilitated in accordance with completion and backfilling requirements under ISM 21.

Excess sample not returned down the drill hole will be buried in the sumps, the surface relevelled and top soil replaced to replicate the original site conditions. Any cleared vegetation will be lightly spread across the drill pad to encourage seed regeneration. Access tracks that are newly created will be rehabilitated with distribution of topsoil and scarification in addition to distribution of branches or similar to deter access. Photo sites will be recorded and presented in the annual compliance report

State the estimated budget required to rehabilitate impacted sites.

\$15,000

Vegetation Clearance

Will any area of cleared native vegetation be unrehabilitated after the authorised period?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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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 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.)	All permitting and clearances as required by DEM as part of the Mining Act legislation, will be completed and a record maintained of all relevant notices and applications (e.g. Form 21). All Native Title parties with registered areas covering the proposed exploration area, have been engaged by way of having a registered Native Title Mining Agreement (NTMA). All areas will be subject of a Native Title Heritage clearance prior to site clearance and drilling activities. A register of consultation and communication will be maintained. In addition to required regulatory communication relating to work programs under this E-PEPR, Investigator will maintain regular consultative engagement with the impacted pastoral lease holders to ensure that work does not adversely impact on their business operations or infrastructure. Early consultation (phone and/or face to face discussions) with Pastoral Lease holders and Native Title groups to explain scope of program, and to ascertain areas of concern will occur. A traffic management plan will be clearly communicated to all workers and contractors regarding requirements to stick to existing tracks, drive at appropriate speeds and report issues relating to degradation of tracks or damage to infrastructure (fences/gates etc). Staff will use existing track networks wherever possible. Gawler Resources will undertake a hazard analysis relating to operations related to this E-PEPR and on a daily basis as part of pre-start meeting to assess the potential risks to external stakeholders from other potential impacts including fire danger, both from ambient weather conditions, in addition to hot work	2	B	Low	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 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	CQ			Risk
			<p>activities. Gawler Resources have mandatory hot work permitting in place during the fire danger season.</p> <p>Gawler Resources will maintain a database of incidents where potential sites of aboriginal heritage importance are identified within the program area.</p> <p>All new tracks and drill sites will be clearly demarcated and ensure that any clearing work undertaken is supervised with adequate recording of work undertaken (including representative photographic evidence) to ensure work is undertaken in such a way as to minimise impact on the environment.</p> <p>Gawler Resources will ensure that rehabilitation is completed to required specifications and that records (photos) are maintained to support such rehabilitation efforts. Station tracks will be surveyed and similarly rehabilitated to a standard of “as good or better” than prior conditions.</p> <p>Drill holes will be situated away from infrastructure and stock watering points (i.e. >200m). Drill holes in this program are located >2km from the nearest residence.</p> <p>Water for drilling, if required, will be sourced from Maldorky or Wiawera Station.</p>					
Stakeholder: DEW	<p>Interference to:</p> <ul style="list-style-type: none"> existing or permissible land use. buildings, structures, existing tracks or other infrastructure. aesthetic values of an area. <p>Noncompliance with legislative requirements.</p>	No (Applicable to programs located adjacent to or within parks and reserves.)	N/a	1	B	Low	<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. 	<p>Provide confirmation that:</p> <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.)	<p>Gawler Resources will ensure that workers/contractors are aware of threatened native flora species that are found in the area and will ensure that all workers are aware of the company’s traffic management plan in addition to a requirement to remain within the confines of cleared tracks when operating in the area. All initial planning locations are to be inspected with drill sites located in naturally cleared areas where possible. Tracks will be planned to utilise naturally open areas to avoid trees and densely vegetated areas where possible.</p> <p>Any vegetation clearing activities should attempt to leave rootstock intact in soil, to promote new growth after rehabilitation. All vegetation clearing must be pre-approved by Gawler Resources staff. During drilling phase, all vehicle movements to be limited to already created tracks and pads.</p> <p>All new tracks and pads are to be rehabilitated after the drilling program is complete.</p> <p>All incidents involving native flora/fauna will be reported through established reporting guidelines, and recorded in the company’s HSE and Environmental databases.</p>	2	B	Low	<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>	<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:</p> <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. <p>Representative photos to be included within the annual exploration compliance report.</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
			<p>Gawler Resources will minimise the spread of potential weeds within the working area by ensuring that all vehicles brought to site are clean and free of seeds and other vegetation material that may potentially introduce weed species.</p> <p>Track and drill pad clearing operations will be surveyed in advance of clearing by Gawler Resources personnel to ensure that mature species or populations of plants of potential higher diversity are avoided wherever possible.</p>					
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.)	<p>Gawler Resources will institute a requirement for all vehicles arriving on site to be clean and free of seeds and vegetation that might have potential to spread weeds and pathogens prior to entry to site.</p> <p>Vehicle can be washed in Burra (or Broken Hill depending on direction of travel) prior to arrival, which is 300km away along a sealed highway or 110km in the case of Broken Hill.</p> <p>Traffic management plan shall require vehicles to remain on existing tracks unless safety requirements dictate otherwise</p>	2	B	Low	<p>No introduction of new species of weeds and plant pathogens, nor increase in abundance of existing weeds species.</p> <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.	Yes (Applicable to exploration programs that involve drilling and/or require excavations.)	<p>Drillholes will be capped on completion of drilling.</p> <p>Drilling sumps will be created with one ramped face to allow fauna to exit if entrapment occurs to allow egress.</p> <p>During rehabilitation casing will be cut to a depth of no less than 0.3m below ground surface, plugged and back filled to prevent animal access.</p> <p>Rehabilitation to occur as soon as possible upon completion of the program and in liaison with the pastoral station owners work regime.</p>	2	B	Low	<p>No fauna traps created as a result of exploration activities.</p> <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.)	<p>Heritage clearance survey to be conducted before the drill program or clearing of access tracks/pads occurs. Heritage clearance may be by way of site-specific clearance or area clearance as determined with Native Title holders.</p> <p>All employees and contractors will be inducted and made aware of their responsibilities regarding Aboriginal Heritage should any site be discovered in the area. Employees and contractors are to report any potential sites that may be regarded as heritage to the Site manager and recorded in the company's HSE and Environmental database.</p>	2	B	Low	<p>No disturbance to Aboriginal artefacts or sites of significance unless prior approval under the relevant legislation is obtained.</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"> 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. 	
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).	No (Applicable to exploration programs located close to or within European heritage sites and sites of scientific and	No sites of European or scientific significance have been identified within the area of proposed works.	1	A	Low	<p>No disturbance to European heritage sites and to sites of scientific and environmental significance unless prior approval under the relevant legislation is obtained.</p> <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. 	

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		
		environmental significance.)						
Soil/vegetation/fauna	Soil/vegetation contamination (e.g. hydrocarbons, rubbish, drill samples/cuttings, ablutions, other sources).	Yes (Applicable to all programs.)	<p>All rubbish will be placed in secure bins or green sample bags, not accessible to wildlife. All rubbish will be disposed of at a registered waste facility. Recycling will be disposed of at a registered waste depot.</p> <p>Ensure hydrocarbon spills are reported within incident systems and appropriate clean up protocols are in place, which will include bagging of all contaminated soil/absorbent pads and removal to a registered waste facility.</p> <p>Spill kits to be maintained at all fuel storage sites in addition to the drill rig/fuel trucks.</p> <p>All drill cuttings are either placed back down the hole or buried in the sump during rehabilitation.</p> <p>Chemicals/muds to be stored neatly in packaging and on pallets in laydown</p>	2	B	Low	<p>No contamination of soil and vegetation as a result of exploration activities.</p> <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.)	<p>Gawler Resources staff to ensure earthwork operators are supervised and briefed on the importance of ensuring the minimal clearance as possible with as little disturbance of topsoil as possible.</p> <p>Existing tracks will be used as much as possible and all vehicles will stay on established pads and tracks unless unsafe to do.</p> <p>New track turnoffs from existing tracks will not be "dog legged" but created to suit truck turning ability. Track creation will be conducted in a manner that minimises disturbance to mature vegetation and avoids tight bends on tracks (that cut into ground and widen track). Speed restrictions will be enforced and driving to the conditions.</p> <p>Any deviations around mature populations or particularly diverse populations of native species are undertaken by wide, meandering track as opposed to narrow, sharp turns in order to lessen the damage to soil and tracks by vehicles during the program.</p> <p>Rehabilitation to be undertaken such that the original profile of land is returned to a level that is consistent with its surroundings and that any stockpiled topsoil is redistributed evenly over the area. All rehabilitation includes the scarification/furrowing of the resultant completed works to allow for the capture of windblown native seeds and promote revegetation. All new tracks will have vegetation placed such that it camouflages the track turnoff</p>	2	B	Low	<p>Where soil disturbance occurs as a result of exploration activities, ensure that:</p> <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 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		
			(e.g. by placement of dead branches/stumps present in the area) in order to disincentivise the potential for vehicles to disturb rehabilitated areas. All employees and contractors will be aware of the traffic management plan, which includes speed limits and the requirement to restrict driving to existing demarcated tracks and avoid creating new tracks.					
Surface water	Alteration to surface water – interference to surface drainage.	No (Applicable to exploration programs that are likely to impact on surface drainage channels.)	Drilling is not planned in the vicinity of any salt lakes and will be sited to avoid proximity to drainage courses.	1	A	Low	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).	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). Alternatively, provide copies of water affecting permits within the annual exploration compliance report.
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). 	Yes (Applicable to all exploration programs that may intersect groundwater.)	All aquifers encountered during drilling will be reported to Gawler Resources staff and recorded (historic drillhole records indicate NO unconfined aquifers are likely to be encountered). Gawler Resources are to ensure drilling operator's muds/additives that they are degradable and non-hazardous in quantities used (MSDS verification). The area of drilling is not artesian and hydrostatic conditions are not anticipated to be affected by the drilling program. Gawler Resources to ensure that holes are capped post drilling and rehabilitated such that holes do not present an opportunity for pollutants to enter. If aquifers are intersected, they are likely to be unconfined. Final rehabilitation of each hole will occur after final analytical results have been returned and analysed (usually within 3-4 months of drilling). Rehabilitation will involve backfilling using drill cuttings, clean fill containing clay or cement (for a single unconfined aquifer) in accordance with ISM 21. For confined aquifers a plug will be inserted from the level at which the aquifer was penetrated with cement grout back to a minimum of 15m into the confining bed above; and then backfilled as for a single unconfined aquifer.	2	B	Low	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.	Maintain evidence demonstrating that drillholes are decommissioned in accordance with Earth Resources Information Sheet M21, Mineral exploration drillholes – general specifications for construction and backfilling , 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. Provide the information requested within the 'Groundwater' section of the annual exploration compliance report.
Soil/vegetation/fauna	Discharge of groundwater into the surrounding environment.	Yes (Applicable to all exploration programs that may intersect groundwater or where activities require the discharge of groundwater into the surrounding environment.)	There may be potential for groundwater to be discharged as part of the drilling process, particularly during RC drilling. This E-PEPR has allowed for the collection of this water by way of sumps at the drill site so as to prevent excessive discharge into the environment. If required, drilling operations will cease to ensure that excessive groundwater intersections don't go beyond the sump and drill pad.	2	B	Low	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.	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. Representative photos and water affecting activity permits (where applicable) to be included within the annual exploration compliance report.
Groundwater users	Interference to existing water users when extracting water from existing dams, water bores or mineral drillholes.	No (Applicable to all exploration programs that may require the use of water from existing dams, water bores or mineral drillholes.)	No water is planned to be extracted from existing water users, dams, bores or other unless in case of emergency. If water is required it would only be a small amount from the dams and would only be taken upon approval from station manager.	2	B	Low	No public nuisance impacts resulting from the extraction of water for exploration purposes, unless prior approval under the relevant legislation is obtained.	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. 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.

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
Soil/vegetation/fauna	Degradation of rehabilitated access tracks caused by third party access (includes previously closed and rehabilitated access tracks).	Yes (Applicable to exploration programs that create new access tracks.)	<p>Gawler Resources will complete rehabilitation of access tracks as per DEM guidelines.</p> <p>All tracks are to be camouflaged at entry points by the placement of dead vegetation with additional physical barriers to entry (using dead trees and similar from area to block entry).</p> <p>All sites will have pre and post rehabilitation photographs, including access points to tracks.</p>	1	B	Low	<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.)	<p>Gawler Resources have a policy of no field activities on days marked as catastrophic fire days by the CFS and a Fire index rating of 50.</p> <p>Gawler Resources also have a policy of daily hazard assessment during the fire danger season and this incorporates checks of the CFS fire danger rating for the area of activity in addition to reference to local conditions – the site supervisor at morning toolbox meetings to discuss the relevant hazards and has the authority to halt operations on a catastrophic fire danger day.</p> <p>All vehicles will have fire extinguishing facilities (either fire extinguishers or fire suppression units).</p> <p>Hot Work Permits are mandatory for any hot work undertaken.</p> <p>Gawler Resources does not allow the construction of open fire's for comfort at any camps or drill locations within the fire danger season. Outside of fire danger season activity is to be hazards assessed.</p> <p>Designated smoking areas at camp will be established with appropriate butt disposal. Drillsite smoking if smokers are present will be required within the confines of the cleared pad and must have appropriate butt disposal.</p> <p>Although the likelihood is highly unlikely the consequence is high. This risk is inherent during the summer months and all strategies will be vigourously enforced.</p>	1	D	High	<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> <p>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.</p>	
General public	Injury or death to members of the public as a result of exploration activities.	Yes (Applicable to all programs.)	<p>The project area is remote in nature and the likelihood of the general public accessing is remote. Pastoralists will be notified formally (Form 21b) and informally via direct contact prior to the commencement of drilling and the location and likely length of the program.</p> <p>Access to the drill rig will be signed with "no unauthorised entry" and relevant safety signage (danger, PPE requirements etc) will be placed before the drill pad entry.</p> <p>All visitors to the drillsite will be inducted to ensure hazards are identified.</p> <p>Note that whilst the likelihood of such an incident occurring is rated as rare, the consequence has been rated as major, producing a risk ranking of 'High'. This is deemed acceptable, given the highly unlikely likelihood, and the safety measures and level of supervision that will be present at the rig.</p>	1	E	High	<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>	

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
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.)	There are no uranium or thorium occurrences identified within the tenements and a scintillometer and portable xrf device have been used on historic core drilled within the tenements, with no elevations of uranium or thorium detected. Based on this it is not anticipated that mineralisation will have high levels of uranium.	2	C	Mod	No increase in background radiation levels, and employee/contractor exposure levels during the exploration program are within safe limits.	Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that: <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)

Gawler Resources employs leading practise exploration methodologies that are equally matched by corporate policies and safe work procedures for personnel/contractors, communities and the environment in which we operate in. Our systems ensure all employees and contractors are inducted and informed of their obligations to Workplace Health and Safety, the environment and community we explore in. Our exploration programs are designed using best practises when considering the environment, aboriginal heritage and safe work program. Gawler Resources establishes stakeholder relationships to work mutually and cooperatively with landowners, traditional owners and other key agencies. Gawler Resources have an operational safety management system and environmental management system.

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.


<Include text here.>

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
Tombstone Prospect	2/10/2024		451628	6423400	54	Terrain photo
						

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Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
Treloar's Prospect	2/10/2024		449620	6426756	54	Terrain photo



Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments

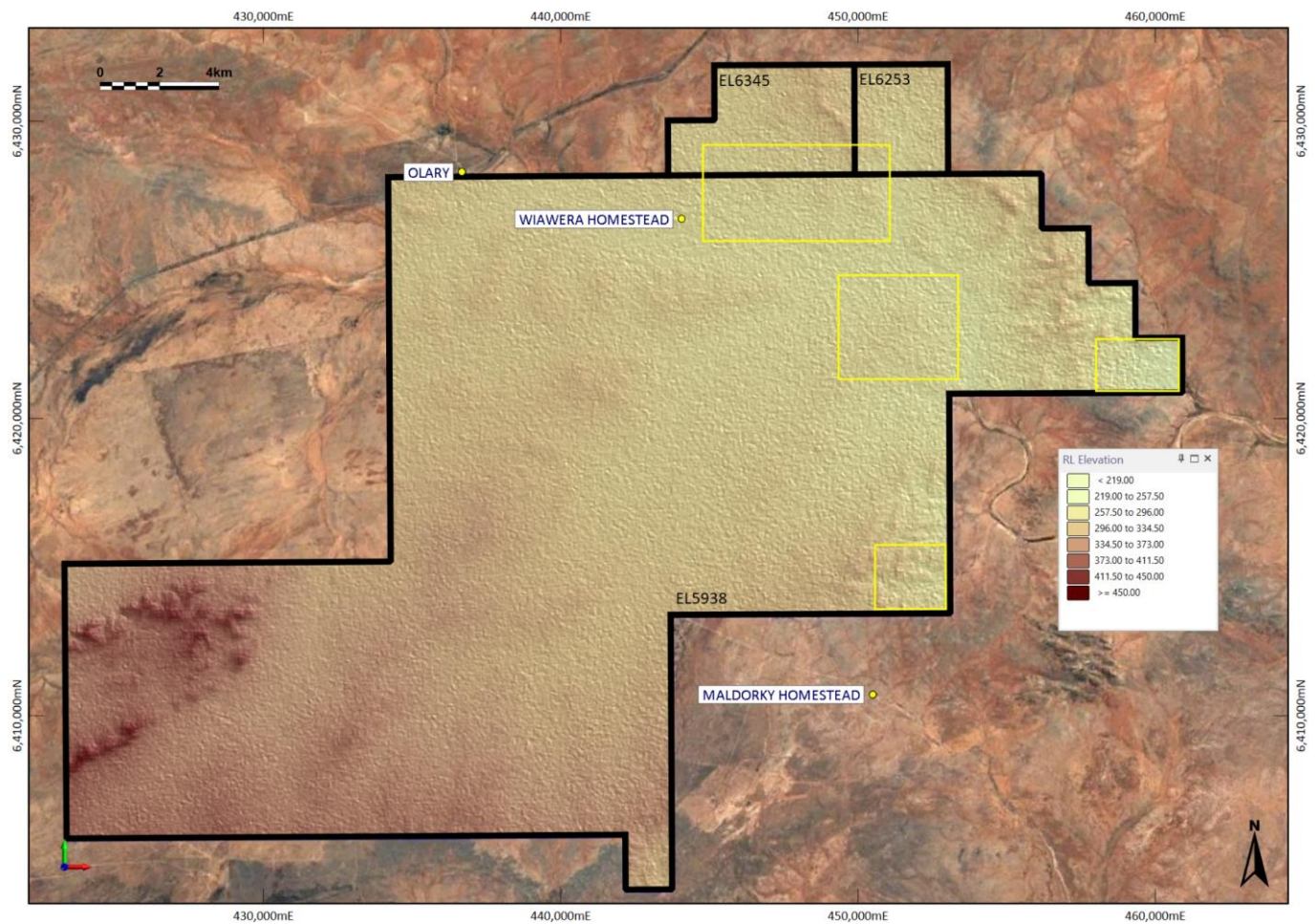
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SECTION J – MAPS

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

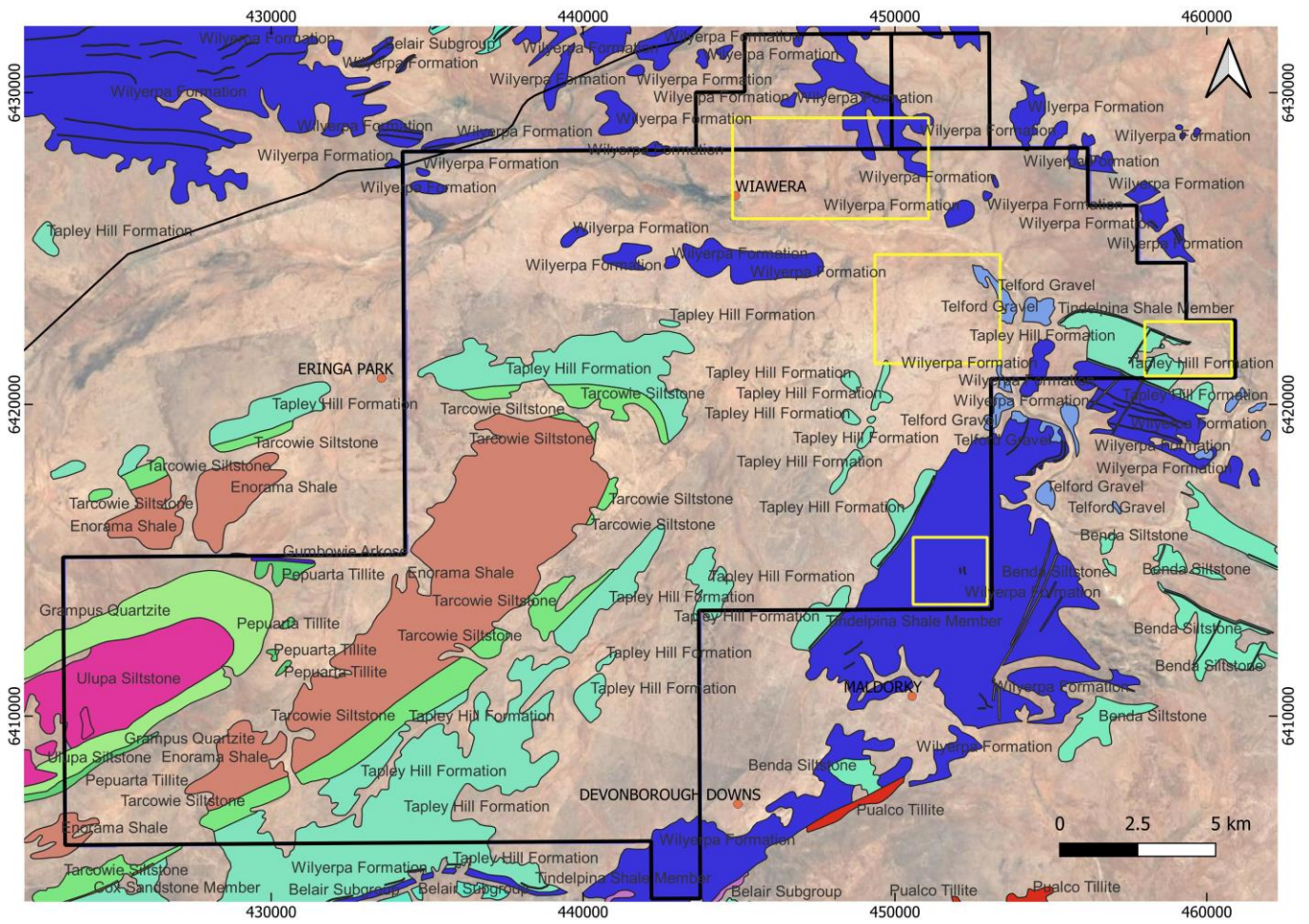
- tenement boundaries,
- cadastral information,
- existing surface contours,
- existing vegetation,
- location of the proposed exploration operations (includes drillholes, existing and new access tracks, drill traverses, campsites, laydown areas and other applicable information) and/or the target exploration 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.

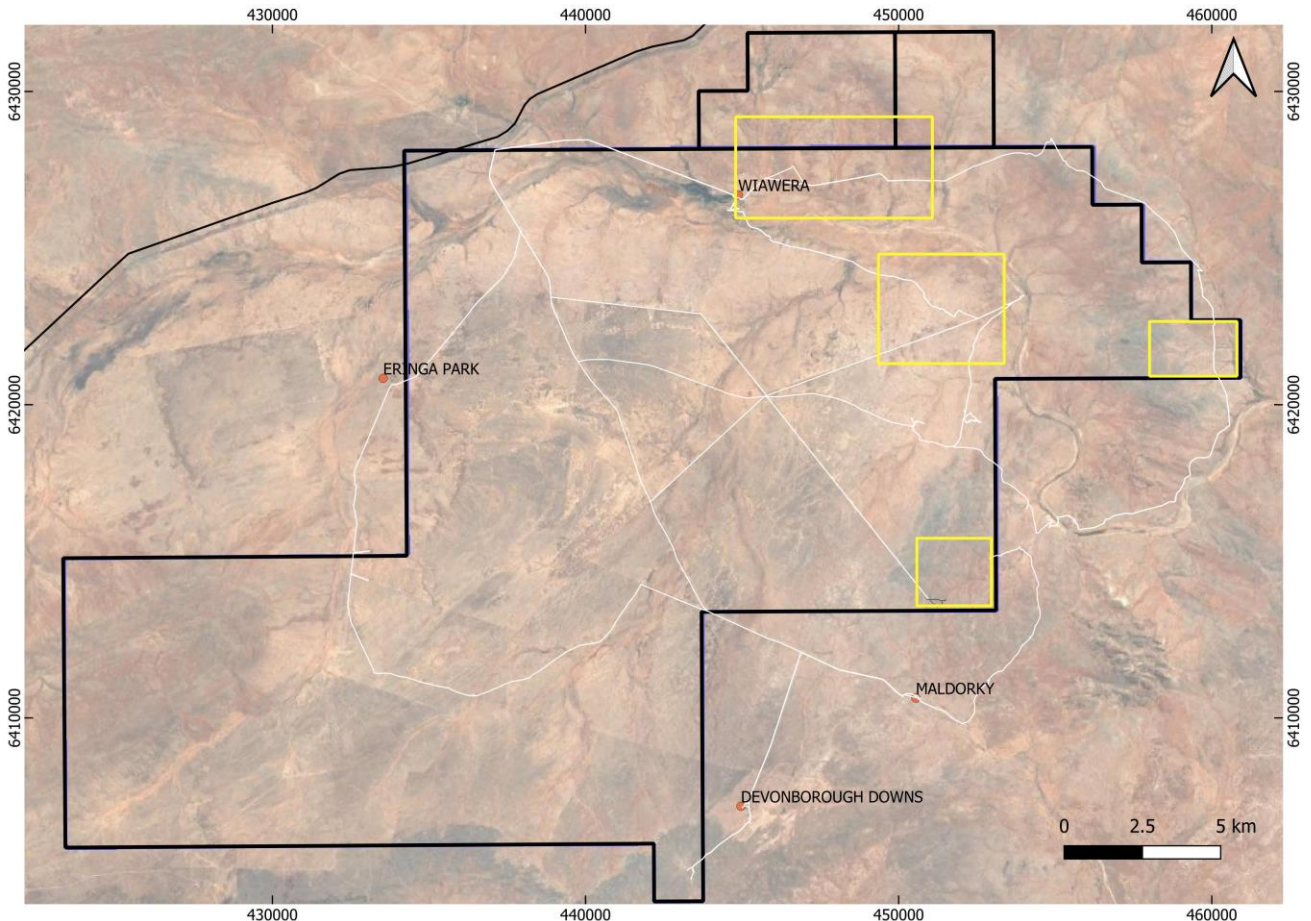


Above: DEM within tenement boundaries

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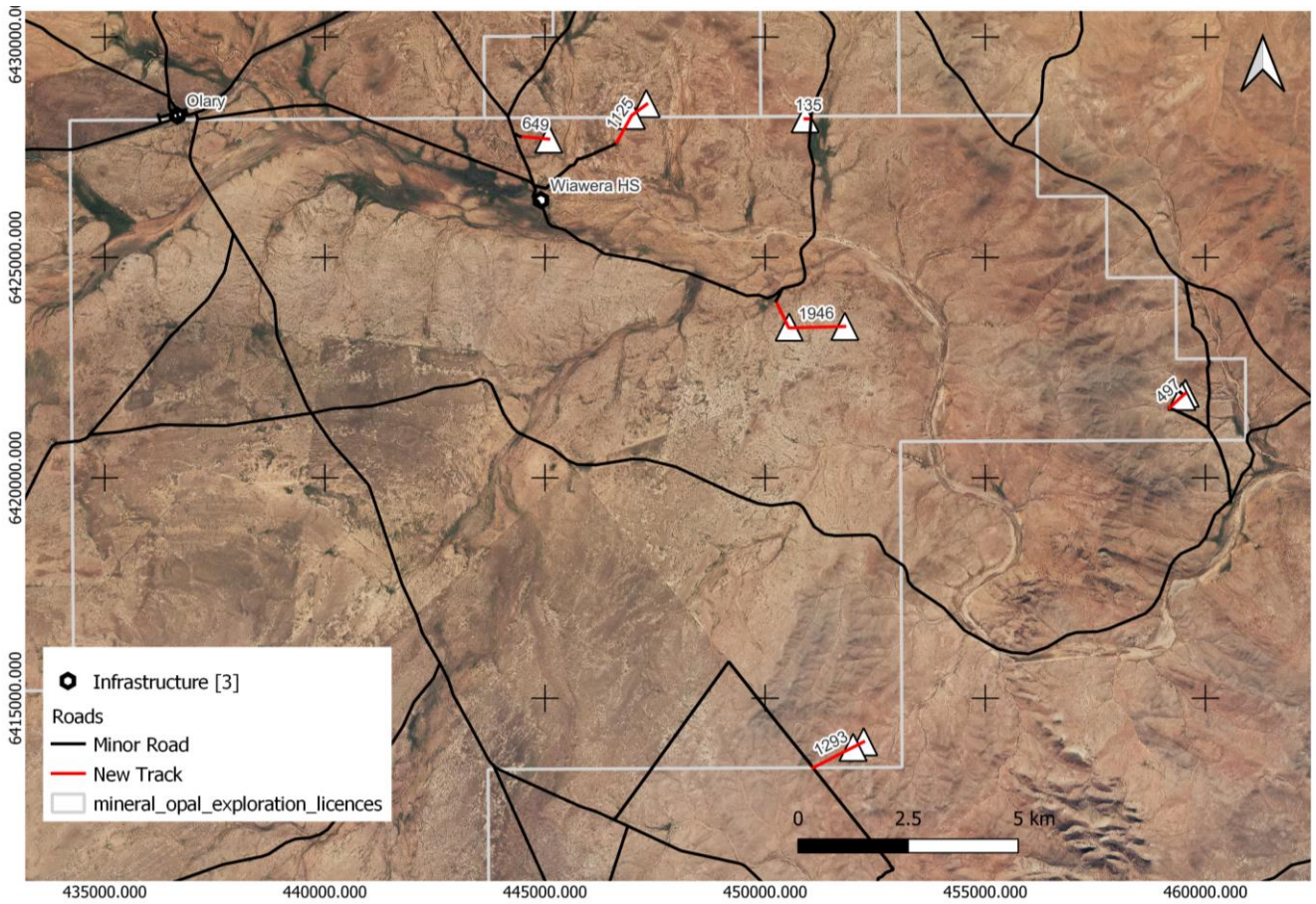


Above: 250k geological map layer.

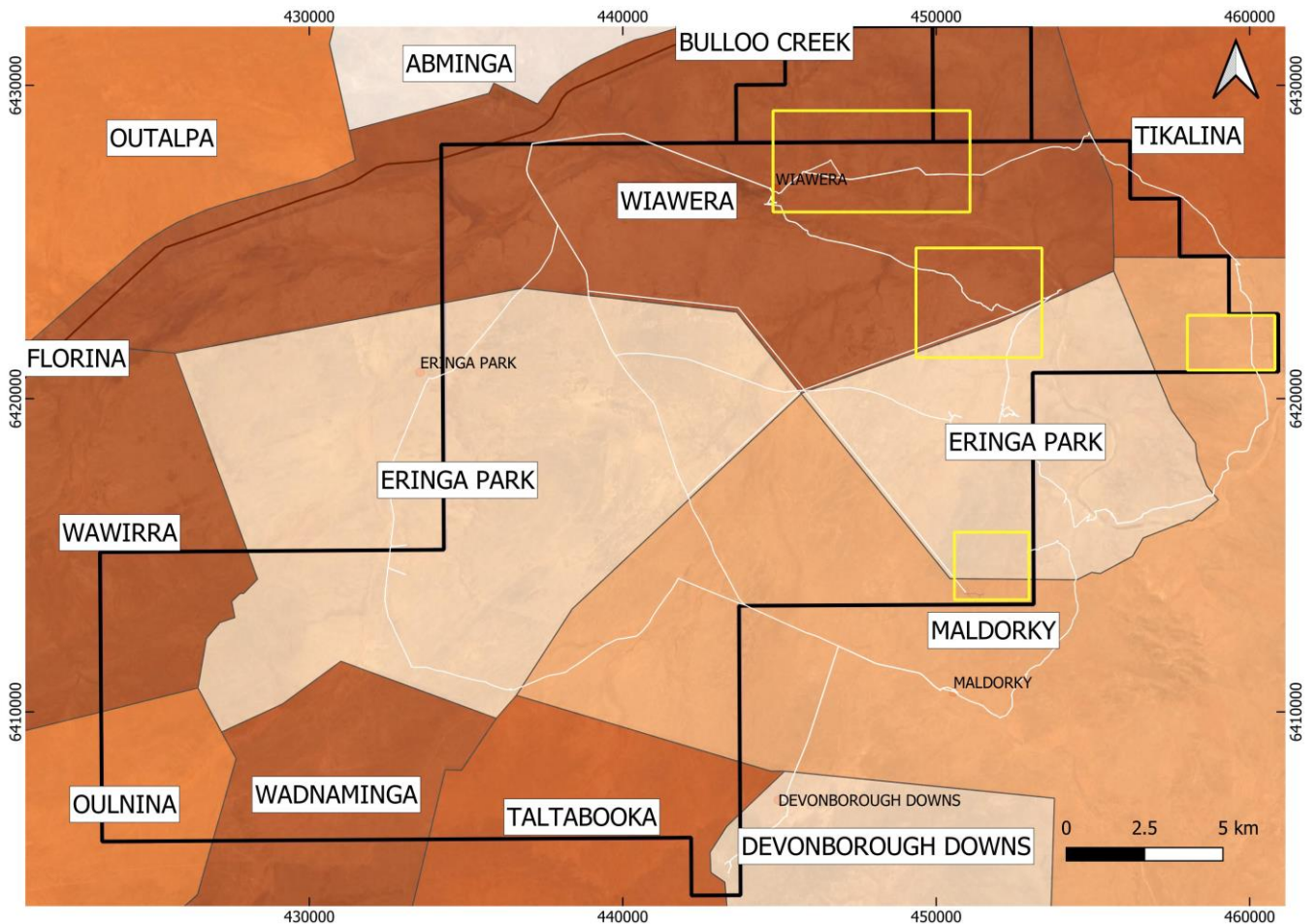


Above: Tenements with areas of interest and known track access.

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Above: Northern and central areas of interest with known track access and new required access tracks. Note drill hole locations are not final and are subject to change but will be in this general vicinity.



Above: Tenements with areas of interest, known track access and pastoral boundaries.

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.