



Government
of South Australia

Department for
Energy and Mining

27 May 2025

Mr. Charles Nesbitt,
Exploration Manager,
R & B Resources Pty Ltd,
90B, King William Road,
GOODWOOD, SOUTH AUSTRALIA, 5034

cnesbitt@cr3minerals.com

Dear Mr. Nesbitt,

Approval Notification - Exploration Program for Environment Protection and Rehabilitation (EPEPR2025-006) EL 6624

The program for EL 6624, final version submitted on 21 May 2025 to conduct exploration drilling targeting Uranium along road reserves in the area surrounding Cummins consisting of 120AC holes, has been approved in accordance with Section 70B(5) of the *Mining Act, 1971 (the Act)*.

In accordance with section 62(1) of the *Mining Act, 1971*, a rehabilitation bond/bank guarantee to the value of **\$50,000** is required to be lodged with the Mining Registrar. Appropriate documentation will be forwarded to you shortly. The bond must be lodged within 28 days of receiving these documents.

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

MINERALS REGULATION

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(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.

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 Shelley Rasmussen 0409 797 670 / Jonathan Gnanapragasam on 08 8429 7038 or Simon Constable on 08 8429 2516 or email DEM.exploration@sa.gov.au.

Yours sincerely,



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

In accordance with delegated
Ministerial powers and functions

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	EL6624		
Tenement holder(s) (for each tenement)	R&B Resources Pty Ltd (a wholly owned subsidiary of Core Energy Minerals Limited)		
Operating company	R&B Resources Pty Ltd		
Agency agreement (if applicable)	An agency agreement between Core Energy Minerals Limited and Teneman Consulting Pty Ltd. This was registered with the DEM on 23/08/2023		
PEPR prepared by	Charles Nesbitt		
Project supervisor/contact person(s)	Charles Nesbitt BSc (Hons) Geology, M.AusIMM, Exploration Manager, Core Energy Minerals Ltd. Charles is a 27 year experience geologist across mining and exploration, predominantly in the uranium commodity.		
Project/prospect name	Cummins Project		
Location details	Lower Eyre Peninsula, in the area of Cummins.		
Project description, commodity type and mineralisation model	Aircore drilling program targeting sandstone/palaeochannel hosted uranium mineralisation.		
Proposed project schedule	Start date	26/05/2025	End date 25/05/2026

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	Charles Nesbitt	Signature (digital allowed)	
Position	Exploration Manager	Date	9/04/2025

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

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

SECTION B – PROGRAM PREPARATION AND ACCESS TO LAND

Work undertaken in preparing the proposal

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

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

Desktop review of historical geophysics and drilling, field reconnaissance and stakeholder engagement, notices of entry form 21B,

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
EL6624	Lower Eyre Council	Road Reserves	Road reserves	19/02/2025	Road Reserve	27/02/2025	27/02/2025	<p><i>On Friday 21st of February, the company received a response from the NoE from the Lower Eyre Council, stating that we are required to lodge an application for a Permit to Alter a Public Road Reserve. This was completed and lodged with the Lower Eyre Council on 26th Feb 2025. The permit was granted with the provision that:</i></p> <ol style="list-style-type: none"> <i>1. No drilling is permitted on the road surface or within 2 metres of the road formation</i> <i>2. The road surface is not to be damaged by drilling plant and equipment</i> <i>3. Traffic control measures are to be undertaken in accordance with the requirements of AS1742.3 Traffic Control Devices or Works on Roads, and the worksite is to be maintained by a person qualified in work zone traffic management.</i> <i>4. That Council be provided with a contact number should there be any public inquiries regarding the drilling works.</i> <i>5. Council's Works Administration is notified prior to any work being carried out under this permit</i> <i>6. Council's Works Administration is notified of the completion of works under this permit</i>

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
EL6624	H2EX South Australia Pty Ltd	PELA725	Petroleum Lease Application	19/02/2025	NA	20/02/2025	20/02/2025	<i>The company received a response to the NoE from H2EX on 20th Feb 2025 wishing company luck with the drilling. No issues were raised.</i>

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

N/A

Provide any additional relevant information.

N/A

SECTION C – DESCRIPTION OF THE ENVIRONMENT

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

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

Proximity to infrastructure and housing

Provide the following information:

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

Provide this information on a locality plan/map.

Please refer to Section J

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.

Land tenure/type	Applicable	Land use	Applicable
Freehold	<input type="checkbox"/>	Grazing	<input type="checkbox"/>
Pastoral lease	<input type="checkbox"/>	Cultivated land	<input type="checkbox"/>
Perpetual lease	<input type="checkbox"/>	Residential	<input type="checkbox"/>
Crown land	<input checked="" type="checkbox"/>	Township	<input type="checkbox"/>
Mining reserve	<input type="checkbox"/>	Industrial	<input type="checkbox"/>
Aboriginal freehold/leasehold land (e.g. Anangu Pitjantjatjara Yankunytjatjara and Maralinga Tjarutja lands)	<input type="checkbox"/>	Tourism	<input type="checkbox"/>
Forestry reserve	<input type="checkbox"/>	Conservation	<input type="checkbox"/>
Marine parks	<input type="checkbox"/>	Defence activity	<input type="checkbox"/>
National parks, conservation parks, conservation reserves, regional reserves*	<input type="checkbox"/>	Road reserve	<input checked="" type="checkbox"/>
Adelaide Dolphin Sanctuary	<input type="checkbox"/>	Sites of scientific significance (geological monuments, fossil reserves etc.)	<input type="checkbox"/>
Murray Darling Basin	<input type="checkbox"/>	Orchard/vineyard	<input type="checkbox"/>
<If park/reserve is selected, please provide the name of the park>		*Native vegetation heritage agreements	<input type="checkbox"/>
Other*	<input type="checkbox"/>	<Provide the name of the area>	
<If other is selected, describe the land tenure here.>		*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.

Exploration PEPR application – 12-month period

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

- 1 - No drilling is permitted on the road surface or within 2 metres of the road formation
- 2 - The road surface is not to be damaged by drilling plant and equipment
- 3 - Traffic control measures are to be undertaken in accordance with the requirements of AS1742.3 Traffic Control Devices or Works on Roads, and the worksite is to be maintained by a person qualified in work zone traffic management.
- 4 - That Council be provided with a contact number should there be any public inquiries regarding the drilling works.
- 5 - Council's Works Administration is notified prior to any work being carried out under this permit
- 6 - Council's Works Administration is notified of the completion of works under this permit

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

None known

Provide any additional relevant information.

<Include text here.>

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 type="checkbox"/>
In which zone will activities be conducted?					
Does the Exploration Permit allow the operator to conduct exploration operations in the WPA?				Yes <input type="checkbox"/>	No <input type="checkbox"/>
What is the expiry date of the resource exploration permit?					
Identify closure periods that may impact on the exploration program.					
<Include text here.>					

Other land owned or controlled by the Commonwealth Department of Defence

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

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

Will operations be conducted within the Port Wakefield Proof and Experimental Establishment, Murray Bridge Training Area, or Cultana Training Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<If yes, indicate which area.>		
Do you have a Deed of Access with Defence?	Yes <input type="checkbox"/>	No <input 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.		
<Include text here.>		

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 type="checkbox"/> No <input checked="" 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"/>	Nauo Aboriginal Corporation; and Barngarla Aboriginal Corporation	If no, an Environment, Resources and Development (ERD) Court determination is required.

Exploration PEPR application – 12-month period

Have you negotiated a native title mining agreement?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the agreement registered?*	<List the tenements covered by the agreement>
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?*	<List the tenements covered by the determination>

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

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

Provide any additional relevant information.

The proposed drill program is located within the public road reserve, where Native Title is extinguished.

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.).

Within the licence area there are various landforms, these include gently and very gently undulating plains with and without sandhills as well as plains, commonly with gilgai microrelief.

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.

Central EL 6624
 DEEP SILICEOUS SAND (Lowan soil)
 General Description: Thick sand with a paler coloured or bleached subsurface layer, grading to a yellow or brown sandy subsoil continuing below 100 cm.
 Erosion Potential: Water: Low. Wind: High.

North East within EL 6624 –
 GRADATIONAL GREY CLAY LOAM (Grey clay soil)
 General Description: Grey well structured clay loam, usually cracking, grading to a grey coarsely structured clay, calcareous with depth.
 Erosion Potential: Water: Low. Wind: Low.

SANDY LOAM OVER BROWN CLAY (Butler soil)
 General Description: Sandy loam over coarsely structured brown clay, calcareous with depth.
 Erosion Potential: Water: Low. Wind: Moderately low

South West within EL 6624
 IRONSTONE SOIL WITH CALCAREOUS LOWER SUBSOIL
 (Vanilla soil – sodic variant)
 General Description: Sandy loam with a paler and ironstone gravelly subsurface layer over a brown clay, calcareous with depth.
 Erosion Potential: Water: Low. Wind: Low.

Data sourced from NatureMaps – For corresponding soil sample locations please refer to Figure ** EL 6244 – Soil Classification Sites

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"/>
<include information here.>		
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"/>
<If yes, provide the name(s)>		
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"/>
The drill holes will intersect the Bridgewater Fm, Uley Fm, Pedinga Fm (Upper and Lower) and the weathered basement. Planned drill hole depth will be between 30 and 60m, so it is envisaged that groundwater will be intersected.		

Description of the locality/area where different groundwater conditions may be encountered					
The Quaternary rock aquifer was intersected approximately 12km west of Cummins. The Uley Formation aquifer has been intersected in several locations directly south of this. The Pidinga Formation aquifer occurs in the south of the licence. These aquifers have been marked on Figure 7 EL 6624 – Water wells with aquifer details.					
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
Q: Quaternary rocks	0m to 13.5m	Bridgewater	5.5m – 13.5m	Unconfined	TDS: 33704 mg/L SWL: 18.37m
Qpcb: Bridgewater Formation [SU3361]	0m to 5.5m	Bridgewater Formation	0m – 5.5m	Unconfined	DH 7329 TDS: 7840 mg/L SWL: 11.5m
TpQau: Uley Formation [SU4241]	13.72m to 24.38m	Uley Formation	13.72m to 24.38m	Unconfined, Confined	DH 12184 TDS: 16298 mg/L SWL: 17.68m DH 12212 TDS: 783 mg/L SWL: 8.1m DH 12964 TDS: 1776 mg/L SWL: 7.9m
Tbp: Pidinga Formation [SU4054]	1+ m	Pidinga Formation	0m to 14m	Confined	DH 12016 TDS: 9067 mg/L SWL: 1.93m
Yh: Hutchison Supergroup [SU6858]	1+ m	Hutchison Subgroup	0 – 9m	Unconfined, confined	DH 12012 TDS: 19474 mg/L SWL: 1.41m

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

Exploration PEPR application – 12-month period

Most of the groundwater sources from the aquifers mentioned above are only suitable for livestock drinking water, however there some wells within EL 6624 that contain water suitable for human consumption.

Environmental values of particular waters

Waters	Aquatic ecosystem	Recreation and aesthetics	Drinking water for human consumption	Primary industries—irrigation and general water uses	Primary industries—livestock drinking water	Primary industries—aquaculture and human consumption of aquatic foods
Underground waters as follows:						
(a) underground waters with a background TDS level of less than 1 200 mg/L			X	X	X	X
(b) underground waters with a background TDS level of 1 200 mg/L or more, but less than 3 000 mg/L				X	X	X
(c) underground waters with a background TDS level of 3 000 mg/L or more, but less than 13 000 mg/L					X	X

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

There are many terrestrial groundwater dependant ecosystems within the licence area. They are common around the lakes (samphire shrubland) and along creeks and streams. These ecosystems are commonly made up of Eucalyptus mallee forest and mallee woodlands. Refer to Figure 6, EL 6624 Terrestrial Groundwater Dependant Ecosystems.

Aquatic groundwater dependant ecosystems also occur throughout the Exploration Licence and are often associated with Seasonal/intermittent saline lakes – such as Lake Malata and Lake Greenly and Seasonal/intermittent freshwater ponds and marshes on inorganic soils; includes sloughs, potholes; seasonally flooded meadows, sedge marshes. Refer to Figure 2, EL 6624 Aquatic Groundwater Dependent Ecosystems.

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

Provide any additional information, if required.

<Include text here.>

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"/>
All drilling is located along existing roads, and holes will be sited to avoid any substantial native vegetation, however the most common native vegetation is Eucalyptus mallee forest and mallee woodlands and some samphire shrubland.		

Exploration PEPR application – 12-month period

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>Prasophyllum laxum</i>	Lax Leek Orchid	Endangered	Critically Endangered
<i>Caladenia tensa</i>	Greencomb Spider-orchid, Rigid Spider-orchid	-	Endangered
<i>Thelymitra ixioides</i>	Spotted Sun-orchid	Endangered	
<i>Veronica parkalliana</i>	Port Lincoln Speedwell	Endangered	Endangered
<i>Haloragis eyreana</i>	Prickly Raspwort	Endangered	Endangered
<i>Acacia enterocarpa</i>	Jumping-jack Wattle	Endangered	Endangered
<i>Thelymitra epipactoides</i>	Metallic Sun-orchid	Endangered	Endangered
<i>Eucalyptus calycogona</i> ssp. <i>spaffordii</i>	Spafford's Square-fruit Mallee	Endangered	
<i>Pultenaea trichophylla</i>	Tufted Bush-pea	Rare	Endangered
<i>Bossiaea peninsularis</i>	Sword Bossiaea	Endangered	Endangered
<i>Prasophyllum goldsackii</i>	Goldsack's Leek-orchid	Endangered	Endangered
<i>Acacia pinguifolia</i>	Fat-leaved Wattle, Fat-leaf Wattle	Endangered	Endangered
<i>Ptilotus beckerianus</i>	Ironstone Mulla Mulla	Vulnerable	Vulnerable
<i>Dodonaea procumbens</i>	Trailing Hop-bush	-	Vulnerable
<i>Caladenia brumalis</i>	Winter Spider-orchid	Vulnerable	Vulnerable
<i>Prostanthera calycina</i>	West Coast Mintbush, Limestone Mintbush, Red Mintbush	Vulnerable	Vulnerable
<i>Limosella granitica</i>	Granite Mudwort	-	Vulnerable
<i>Angianthus phyllocalymmeus</i>	Silver Candles	-	Vulnerable (listed as <i>Pleuropappus phyllocalymmeus</i>)
<i>Prasophyllum laxum</i>	Lax Leek Orchid	-	Critically Endangered
<i>Caladenia tensa</i>	Greencomb Spider-orchid, Rigid Spider-orchid	-	Endangered

* *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*).

Please refer to Figure 8 EL 6624 - Weeds of National Significance and Buffel Grass. The company conducted a search of identified 'Weeds of National Significance and Buffel Grass' through the South Australian Government's NatureMaps site with many identified Weeds of significance with-in the proposed drilling area.

The company will utilise this map and the Weed control methods outlined in the 'Weed Control Handbook – For Declared Plants in South Australia – 2024 Edition', while conducting the subject field activities of this PEPR. Vehicles will be regularly cleaned to help prevent the spread of weeds.

Several occurrences of Phytophthora have been recorded near the southeastern corner of the exploration licence.

Exploration PEPR application – 12-month period

Fauna

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

Several nationally and state listed endangered fauna species have been recorded within the exploration licence area. The majority of these species are birds. The Common Brushtail Possum, Short-beaked Echidna, Western Three-lined Skink and Heath Goanna may also occur within the licence area.

Introduced fauna may include the following:

Eurasian Skylark
 Domestic Fowl
 House Sparrow
 Common Ostrich
 Common Starling
 Common Blackbird
 Horse (Brumby)
 House Mouse
 Rabbit (European Rabbit)
 Sheep (Feral Sheep)
 Black Rat (Ship Rat, Roof Rat)
 Fox (Red Fox)

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>Calidris acuminata</i>	Sharp-tailed Sandpiper	VU	
<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater	ssp	
<i>Aphelocephala leucopsis leucopsis</i>	Southern Whiteface	sp	
<i>Pluvialis squatarola squatarola</i>	Grey Plover	sp	
<i>Tringa nebularia</i>	Common Greenshank	EN	
<i>Sternula nereis nereis</i>	Fairy Tern	VU	E
<i>Stipiturus malachurus parimeda</i>	Southern Emuwren (southern Eyre Peninsula)	EN	E
<i>Calidris ferruginea</i>	Curlew Sandpiper	CR	E
<i>Haliaeetus leucogaster</i>	White-bellied Sea Eagle		E
<i>Lophoictinia isura</i>	Square-tailed Kite		E
<i>Pandion haliaetus cristatus</i>	Eastern Osprey		E
<i>Arenaria interpres interpres</i>	Ruddy Turnstone	sp	R
<i>Actitis hypoleucos</i>	Common Sandpiper		R
<i>Biziura lobata menziesi</i>	Musk Duck		R
<i>Bubulcus ibis coromandus</i>	Eastern Cattle Egret		R
<i>Calidris alba alba</i>	Sanderling		R
<i>Cereopsis novaehollandiae</i> (NC)	Cape Barren Goose		R
<i>Cereopsis novaehollandiae novaehollandiae</i>	Cape Barren Goose		R
<i>Corcorax melanorhamphos</i>	White-winged Chough		R
<i>Egretta garzetta nigripes</i>	Little Egret		R
<i>Egretta sacra sacra</i>	Pacific Reef Heron		R
<i>Falco peregrinus macropus</i>	Peregrine Falcon		R
<i>Gerygone fusca</i>	Western Gerygone		R
<i>Haematopus fuliginosus fuliginosus</i>	Sooty Oystercatcher		R

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Haematopus longirostris	Pied Oystercatcher		R
Lichenostomus cratitius occidentalis	Purple-gaped Honeyeater (mainland SA)		R
Myiagra inquieta	Restless Flycatcher		R
Neophema elegans elegans	Elegant Parrot		R
Neophema petrophila zietzi	Rock Parrot		R
Numenius phaeopus variegatus	Whimbrel		R
Petroica boodang boodang	Scarlet Robin		R
Pluvialis fulva	Pacific Golden Plover		R
Spatula rhynchotis	Australasian Shoveler		R
Tringa glareola	Wood Sandpiper		R
Turnix varius varius	Painted Buttonquail		R
Trichosurus vulpecula	Common Brushtail Possum		R
Acritoscincus trilineatus	Western Three-lined Skink		R
Corcorax melanorhamphos whiteae	White-winged Chough (Gawler Ranges, EP, southern FR, MLR)		SP
Gerygone fusca fusca	Western Gerygone (Eyre Peninsula)		SP
Dromaius novaehollandiae	Emu	ssp	ssp
Hylacola cauta	Shy Heathwren	ssp	ssp
Limosa lapponica	Bar-tailed Godwit	ssp	ssp
Manorina flavigula	Yellow-throated Miner (complex)	ssp	ssp
Stipiturus malachurus	Southern Emuwren	ssp	ssp
Tachyglossus aculeatus	Short-beaked Echidna	ssp	ssp
Lichenostomus cratitius	Purple-gaped Honeyeater		ssp
Microeca fascinans	Jacky Winter		ssp
Strepera versicolor	Grey Currawong		ssp
Leipoa ocellata	Malleefowl	VU	V
Stagonopleura guttata	Diamond Firetail	VU	V
Thinornis cucullatus cucullatus	Hooded Plover	VU	V
Macronectes giganteus	Southern Giant Petrel	EN	V
Ardeotis australis	Australian Bustard		V
Cladorhynchus leucocephalus	Banded Stilt		V
Hieraaetus morphnoides	Little Eagle		V
Zanda funerea whiteae	Yellow-tailed Black Cockatoo		V
Varanus rosenbergi	Heath Goanna		V
Calidris acuminata	Sharp-tailed Sandpiper	VU	
Melithreptus brevirostris	Brown-headed Honeyeater	ssp	
Aphelocephala leucopsis leucopsis	Southern Whiteface	sp	
			<Tab to add rows.>

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"/>
There are several Native Vegetation Heritage Agreements (NVHA) within EL 6624 – refer to Figure 3 - EL 6624 – Native Vegetation Heritage Agreements. The proposed drilling will not be within these areas, so there will be no impact on the NVHA's.		
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"/>
The proposed drilling will not be within these areas, so there will be no impact on the NVHA's.		
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.		
An Aboriginal heritage survey has not been conducted. The drilling is proposed for the public road verge where Native Title is extinguished and the ground has generally been disturbed due to road and fence construction. NoE's has been sent to the Native Title holders and SANTS with no objections received.		

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	Core Energy Minerals Ltd	
Land access/environmental			
Field assistants/technicians	1	Casual hire - TBA	
Drilling crew	3	McLeod Drilling	
Site preparation and rehabilitation	1	Local contractor TBA	
Other (provide details) Down Hole Geophysics Technician	1	TBA	
Shifts worked per day	Hours worked per day	Days worked per week	
1	10-12hrs	7	
Equipment type	Owner/operator	Description/capacity	Activity/purpose
Aircore Rig	McLeod Drilling	MD4, compact, powerful Aircore / RC rig mounted on a Toyota 6wd Diesel Landcruiser	Aircore drilling
Drill Support Vehicle	McLeod Drilling	Toyota 6wd Diesel Landcruiser carrying extra rods and compressor	Drill support, rod carrier
Drill Support Vehicle	McLeod Drilling	Toyota 4x4 Diesel Landcruiser support vehicle carrying fuel, water tools etc	Drill support
Drill Support Vehicle	McLeod Drilling	Off road support trailer with all drill spares, welder, genset etc	Drill support
Drill Support Vehicle	McLeod Drilling	Hino 500 support truck with 2000lt fuel, 2000lt water, grouting and water pumping equipment	Drill Support

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Down Hole Geophysics	Borehole Wireline	Hino 500 support truck with 2000lt fuel, 2000lt water, grouting and water pumping equipment	<i>Down Hole Geophysics - gamma</i>
4WD Dual cab utility	Core Energy Minerals Ltd (hire vehicle)	Geologist's vehicle	<i>Transport and support vehicle for company geologist.</i>

Provide any additional information, if required.

The drilling equipment being Landcruiser mounted does not need tracks and leaves a very small environmental footprint with minimal compaction

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"/>
<i><Include text here.></i>		

Drilling activities

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

Tenement	Drilling type	Maximum number of drillholes	Maximum drillhole depth (m)	Maximum number of sumps required at each site	Maximum size of sumps (length x depth x width) (m ³)	Average size of each drill pad* (m ²) (no excavation required)	Number of sites requiring pad excavation	Average volume (m ³) of material to be excavated (excluding sumps)
EL6624	Aircore	120	90	1	5 x 3 x 2.5	30 x 20**	0	0
TOTAL		120	10,800	120	4,500	72,000	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).
--	---	---	--	---	--	--	--

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

****I have increased the size of the pad area to include access tracks. It is not feasible to design access tracks from the aerial photo as it will be dependent on the rig, support truck, landforms and vegetation. The access tracks are short as we are drilling on the road verge. They will be designed around significant vegetation where possible.**

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.

Land cruiser based aircore rig will be used to minimise ground and vegetation disturbance. A sump will be needed to dispose of the drill cuttings and hold the displaced water. The orientation of the drill pad will be designed around the significant vegetation such as large trees although some pruning and clearing will be required to make the drill work site safe. A backhoe will be used to dig the drill sump pit and clear some of the vegetation, as well as site rehabilitation. Final location of the drill site is flexible to minimise vegetation disturbance.

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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.		
<p>Aircore Method</p> <p>The rig is set up for aircore blade drilling to blade refusal. RC sampling hammer is available to penetrate hard bands or the penetrate basement when required. Proposed drill holes are expected to be 30m to 70m in depth. The target formation is the Pedinga Fm, with drilling to intersect the Bridgewater Fm, Uley Fm, Pedinga Fm and weathered basement. Steel collar casing (1.5 - 2m long) is used while drilling which is then removed at the completion of the drill hole. No other casing will be required. Ground water will be encountered at a shallow depth and therefore a sump pit will be required to catch the water expelled from the drill hole. The sump pit will be bunted off to prevent people and animals from accidentally falling in. A ramp will be formed at one end to allow animals to escape if accidentally trapped.</p> <p>Rotary Mud Method</p> <p>Rotary mud method will only be used if aircore drilling proved unsatisfactory. The proposed hole locations and drill depths are the same as for aircore drilling. A sump pit will also need to be dug adjacent to the drill hole for mixing and circulating drill mud as well as catching the cuttings displaced from the drill hole. Cuttings samples are taken from the mud stream at the top of the drill hole and placed on the ground in 1 or 2m composite piles for geological logging. Cuttings samples are scraped back into the pit on rehab. PVC collar casing approx. 3m and may be used while drilling and is removed at hole completion. The sump pit will be bunted off to prevent people and animals from accidentally falling in. A ramp will be formed at one end to allow animals to escape if accidentally trapped.</p>		
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.		
All drill holes will be backfilled after wireline geophysical logs have been carried out.		
<p>Aircore Method</p> <ul style="list-style-type: none"> Where drilling does not penetrate aquifers, or alternatively penetrates unconfined aquifers only, drillholes will be backfilled with drill cuttings or clean fill and plugged with a cement plug of appropriate diameter to permanently seal the drillhole and backfilled with locally sourced rocks and loam to form a slight mound over the collar to allow for subsidence. Drillholes that penetrate confined aquifers will be rehabilitated on completion of wireline logging, and prior to the drill rig moving to the next drill site, by grouting from base of the hole to surface. Photographs of the drill sites will be taken before drill pad preparation, after or during drilling and post rehabilitation and reported in the Annual Compliance Report. <p>Rotary Mud Method</p> <ul style="list-style-type: none"> Drill holes will be rehabilitated on completion of wireline logging, and prior to the drill rig moving to the next drill site, by grouting from base of the hole to surface, using cement. Photographs of the drill sites will be taken before drill pad preparation, after or during drilling and post rehabilitation and reported in the Annual Compliance Report. 		

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).

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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).

Samples will be collected each metre. Green plastic bags will be used to collect the samples with second sample in a calico bag collected from the cone splitter on the rig. After the samples have been geologically logged by the geologist, the cuttings will be emptied from the green bags into the sump pit and green bags removed from site and disposed of in a council approved rubbish collection site.

Access routes to work areas

Will existing tracks require upgrading and/or maintenance? If yes, detail the work required to upgrade/maintain existing tracks.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<If yes, include text here.>		
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"/>
<If yes, include text here.>		
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"/>
Drill sites will be located between the public road and the property boundary. Access tracks will be minimal. Maximum disturbance estimated to be 30m x 20m for each drill pad (inclusive of short access track - 72000m ² for 120 drill holes – note: not all drill holes will be drilled) Access tracks and drill pads will be planned around significant vegetation to minimise disturbance.		

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.		
Accommodation will be in a nearby township eg Cummins or Elliston. There will be no need to set up a fly camp for this program due to the proximity of nearby townships.		
What is the maximum number of personnel requiring accommodation?	7	
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.		
<Include text here.>		
What will be the total area (ha) of the campsite(s)?	ha	
What will be the total area (ha) of vegetation clearance for the campsite?	ha	
If vegetation clearance is required, describe the methods used to prepare the site.		
<Include text here.>		
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 type="checkbox"/>
<Include text here.>		

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Are the proposed ablution facilities endorsed/approved for use by the Department of Health or local council, where applicable? If no, indicate why.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<Include text here.>		
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 type="checkbox"/>	No <input checked="" type="checkbox"/>
Will the laydown area(s) be located at the same location as the campsite? If no, has the location(s) been discussed with the landowner?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<Include text here.>		
What will be the maximum area (ha) required for the laydown area(s)?	ha	
What will be the total area (ha) of vegetation clearance for the site?	ha	
If vegetation clearance is required, describe the methods used to prepare the site.		
<Include text here.>		
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 type="checkbox"/>
<Include text here.>		
Proposed infrastructure (includes hydrocarbon and water storage requirements)	Quantity	Description/capacity
<Tab to add rows.>		
Provide a description and justification of the location (e.g. previously cleared areas), and any other relevant information if required.		
<Include text here.>		

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 checked="" type="checkbox"/>	No <input type="checkbox"/>
<p>Drill pad preparation – a sump to catch any displaced water will be dug at each drill site. Each sump will be fenced off along the side of the sump which has no adjacent dirt stockpile. The fence will consist of star droppers and either flagged rope or white, plastic coated horse wire.</p> <p>Traffic management – CR3 will employ traffic management controllers where necessary to ensure public safety.</p>		

Water supply and management

Will camp and/or drilling water be required? If yes, describe how and where water will be sourced for drilling, track maintenance and camping purposes (e.g. groundwater, surface water, mains). Provide details on the volume of water required and how wastewater or runoff water will be managed.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<Include text here.>		
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"/>
The initial Aircore program will not require a water source. If follow up drilling with Rotary Mud is required, water will be required. Water will be sourced from the local township standpipe or arranged with a local farmer.		

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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"/>
<If yes, include text here.>		
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"/>
<Include text here.>		

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"/>
<If yes, include text here.>		

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 checked="" type="checkbox"/>	No <input 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"/>
<If yes, include text here.>		

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.
<ul style="list-style-type: none"> Drill holes will be plugged and backfilled. Steel collar casing is used for air core drilling which is removed at the completion of drilling. All equipment will be demobilised from the site and rubbish removed. Any cuttings on the surface will be removed and placed either down the drill hole or in the sump pit. Compact areas on drill pads or tracks will be ripped, scarified and contoured where necessary. Sump pits once dried, will be backfilled first with any drill cuttings from the drill hole, second with the excavated substrate and then third with the top soil. The area will be scarified with the toothed edge of the backhoe bucket and the stock pile of cleared vegetation will be re-distributed across the disturbed site. The back filled pit will be mounded on top to allow for subsidence from compaction over time. All plastic bags that held the cuttings, as well as any other rubbish, will be removed from site and disposed of at a waste facility. Any tracks made accessing the drill pad will be rehabilitated by backfilling wheel ruts and scarifying to prevent erosion and promote water retention and vegetation growth. Any accidental hydrocarbon spills will be remediated by bagging of the contaminated soil and disposal at a waste facility. Final wash down of the rig will be at the final drill site of the program where water runoff from the washdown will be directed toward the drill sump pit. A plastic drop sheet will be used to direct any contamination towards the pit. Photographs before, during and after will be kept of each drill site. A handheld scintillometer will be used to survey each drill site prior to disturbance to determine and record the background radiation. Each drill site will be surveyed again after rehabilitation to show that there has been no radioactive contamination of drill site. If radiation is discovered post rehab above background levels, the contaminated soil/cuttings will be removed and placed in a new but smaller pit, adjacent to the sump pit and excavated and rehabilitated in the same way as the sump pit.
State the estimated budget required to rehabilitate impacted sites.
<ul style="list-style-type: none"> There are 120 drill holes proposed not all of which will be drilled in the initial program. 50 priority drill holes will take approx. 1 week to rehabilitate at approx. \$15,000. For all 120 drill holes it will cost approx. \$28,000. Rehabilitation will be conducted in a campaign style once the sump pits have dried out, but within the deadline of 3 months from the expiry of the EPEPR.

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Vegetation Clearance

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

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.

<Include text here.>

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.)	<ul style="list-style-type: none"> Stakeholder engagement will be ongoing Stakeholder and community consultation register will be recorded and maintained throughout the exploration activities. Project updates will be provided to affected stakeholders. All statutory forms will be served in accordance with the Mining Act No exploration will occur within 400m of a dwelling. Exploration and rehabilitation will be monitored and reported. All employees and contractors will undergo site inductions prior to work. All activities will be supervised by the site supervisor (Exploration Geologist) All work activities will be conducted during daylight hours. 	2	C	Moderate	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.
Stakeholder: DEW	Interference to: <ul style="list-style-type: none"> existing or permissible land use. buildings, structures, existing tracks or other infrastructure. aesthetic values of an area. Noncompliance with legislative requirements.	N/A (Applicable to programs located adjacent to or within parks and reserves.)	N/A	N/A	N/A	N/A	For activities located within or adjacent to regional reserves, national, conservation and marine parks only: <ul style="list-style-type: none"> no unauthorised interference with park management activities. 	Provide confirmation that: <ul style="list-style-type: none"> Park access notification forms were submitted to DEW and DEM at least 10 days prior to entry into regional reserves, national, conservation and marine parks, or Program notifications for PEPRs approved for an ongoing period of time, were submitted to DEW and the DEM at least 21 days prior to entry into regional reserves, national, conservation and marine parks.

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		
Flora and fauna and their habitats; includes Commonwealth and state scheduled species.	Loss/modification of native vegetation and associated habitats through the clearance of vegetation.	Yes (Applicable to exploration programs located within or impacting on native vegetation.)	<ul style="list-style-type: none"> Employees and contractors will undergo inductions so that all employees and contractors are aware about keeping to existing tracks and prescribed areas Each site will be inspected when drill holes are pegged for significant/sensitive/endangered flora or fauna that needs to be avoided. If the area is sensitive, the site will not be pegged. Drill site preparation will only occur at pegged locations. Access tracks to each drill site will be clearly marked. Each vehicle, footwear and equipment will be sprayed with Phytophthora disinfectant prior to entering each drill area. Vehicles and equipment will be thoroughly cleaned prior to entering each drill area. All vehicles and equipment to be routinely inspected using checklists to identify possible hazards such as hydrocarbon leaks, to reduce risks from spills and potential fire sources. All vehicles will be maintained within manufacturers specifications and in working order. Vehicles will be inspected prior to entering the project area and prior to relocating to each new drill area. Maintenance log books will be inspected prior to start of drill program. Each vehicle will carry UHF radio, first aid kit, fire extinguisher. Each drill site will have a hydrocarbon spill kit and communications. Site access may be limited during significant rain events. 	2	B	Minor	<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>
All flora and fauna, especially listed species.	Loss/modification of the environment (biological, social and economic) through the introduction of weeds and pathogens.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Employees and contractors will undergo inductions so that all employees and contractors are aware about keeping to existing tracks and prescribed areas A wash down facility will be provided for the cleaning of vehicles. Drill site preparation will only occur at pegged locations. Access tracks to each drill site will be clearly marked. Each vehicle will be inspected for weeds prior to moving to each drill area. Each vehicle, footwear and equipment will be sprayed with Phytophthora disinfectant prior to entering each drill area. Vehicles and equipment will be thoroughly cleaned prior to entering each drill area. All vehicles and equipment to be routinely inspected using checklists to identify possible hazards such as hydrocarbon leaks, to reduce risks from spills and potential fire sources. All vehicles will be maintained within manufacturers specifications and in working order. Vehicles will be inspected prior to entering the project area and prior to relocating to each new drill area. Maintenance log books will be inspected prior to start of drill program. Each drill site will have a hydrocarbon spill kit and communications. Site access may be limited during significant rain events. Photographs will be taken before drill pad preparation, during drilling and after rehabilitation. 	2	B	Minor	<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 properties¹ 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.

Exploration PEPR application – 12-month period

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor	Potential impacts	Is the potential impact applicable (Yes/No)	Control strategies	Risk assessment				
Lists are not exhaustive.	Lists are not exhaustive.	Some potential impacts are applicable to all programs.	Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	LH	CQ	Risk		
All fauna	Entrapment of fauna through open drillholes and excavations.	Yes (Applicable to exploration programs that involve drilling and/or require excavations.)	<ul style="list-style-type: none"> Each drill hole will be plugged prior to moving site, until each drill hole is rehabilitated. Once grouted, the drill hole collar will be back filled with soil and rocks sourced immediately adjacent to the drill hole. Drill sumps will be fenced off to prevent accidental egress of fauna, livestock and people. A ramp will be dug at one end of the sump to allow fauna/livestock to escape. Rehabilitation of each drill site will be carried out within 3 months of expiry of the EPEPR. 	2	B	Minor	No fauna traps created as a result of exploration activities.	<p>Maintain before, during and after photographic evidence of all drillholes and/or excavations demonstrating that:</p> <ul style="list-style-type: none"> All drillholes were permanently or temporarily capped/plugged immediately upon completion. No fauna and livestock became trapped in drillholes and/or excavations throughout the duration of the program. All rehabilitation was completed within 3 months of expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. <p>Representative photos are to be included within the annual exploration compliance report.</p> <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>
Aboriginal heritage sites	Disturbance to Aboriginal heritage.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Drilling will occur within 30m of a public road where native title is extinguished and ground has been disturbed through road construction and fence construction. All pegged locations will be pegged outside any exclusion zones identified by the search report for registered heritage sites and objects. Employees and contractors will be inducted to ensure all works and activities are outside the heritage sites and objects exclusion zones and will report any unregistered artefacts to the site supervisor. In event that Aboriginal heritage site being discovered during the course of exploration, the works will stop at that site immediately, the find will be recorded and reported to the authorities in accordance with the Aboriginal Heritage Act 1988. Site supervisor will attend each drill site during drilling to inspect operations. 	2	C	Moderate	No disturbance to Aboriginal artefacts or sites of significance unless prior approval under the relevant legislation is obtained.	<p>Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that:</p> <ul style="list-style-type: none"> Heritage sites were not impacted during the conduct of the exploration program, unless prior approval was obtained under the appropriate legislation. Work ceased on discovery of a significant site and recommenced only after authorisation. Aboriginal heritage sites identified during the exploration program were appropriately recorded and reported to authorities, if not previously known.
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 environmental significance.)	No European heritage sites exist in the proposed drill sites.	1	B	Minor	No disturbance to European heritage sites and to sites of scientific and environmental significance unless prior approval under the relevant legislation is obtained.	<p>Demonstrate no impact to heritage sites and sites of scientific and environmental significance by:</p> <ul style="list-style-type: none"> Maintaining evidence, including detailed maps showing sites compared to the location of exploration activities, and photographic evidence of sites before and after the conduct of the exploration program. Providing a statement within the annual exploration compliance report confirming sites were not impacted during the conduct of the exploration program.

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	Soil/vegetation contamination (e.g. hydrocarbons, rubbish, drill samples/cuttings, ablutions, other sources).	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Employees and contractors will undergo inductions so that all employees and contractors are aware about keeping to existing tracks and prescribed areas A wash down facility will be provided for the cleaning of vehicles. All vehicles and equipment to be routinely inspected using checklists to identify possible hazards such as hydrocarbon leaks, to reduce risks from spills and potential fire sources. All vehicles will be maintained within manufacturers specifications and in working order. Vehicles will be inspected prior to entering the project area and prior to relocating to each new drill area. Maintenance log books will be inspected prior to start of drill program. Each vehicle will carry UHF radio, first aid kit, fire extinguisher. Each drill site will have a hydrocarbon spill kit and communications. Site access may be limited during significant rain events. Site supervisor will attend each drill site during drilling to inspect operations. Fuel and chemical storage will be kept in accordance with EPA requirements. All rubbish will be disposed of in a durable plastic bag which will be removed from site and disposed of in a council approved waste facility All drill sites will be kept clean and free of un-contained rubbish Photographs will be taken before drill pad preparation, during drilling and after rehabilitation. Drill cuttings will be disposed within 3 months of the expiry of the EPEPR of by burying them in the drill sump pit in accordance with the EPA guidelines, Radiation Protection guidelines on mining in SA: Mineral Exploration; or by backfilling the drill hole. 	2	C	Moderate	No contamination of soil and vegetation as a result of exploration activities.	<p>Demonstrate that all domestic or industrial waste (includes general rubbish and hydrocarbons) is disposed of in accordance with the <i>Environment Protection Act 1993</i> within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), and that all fuel and chemicals are stored in accordance with EPA requirements, by providing:</p> <ul style="list-style-type: none"> The name, location and contact details of the authorised waste disposal facility. A statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming domestic and industrial waste was removed from all exploration sites and disposed of at an authorised waste disposal facility. Photographic evidence within the annual exploration compliance report demonstrating that all fuel and chemical storage facilities were managed in accordance with EPA requirements. <p>Maintain photographs of all exploration sites and provide representative photos within the annual exploration compliance report demonstrating that drill cuttings are:</p> <ul style="list-style-type: none"> removed from site and disposed of at a licensed facility buried under a minimum of 30 cm of soil, or in accordance with EPA guideline, Radiation protection guidelines on mining in South Australia: mineral exploration, available on the EPA website, or backfilled down the drillhole, within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>
Soil	Disturbance to the soil profile and topography, and accelerated soil erosion caused by exploration activities (e.g. construction of sumps, new tracks and drill pads; ground compaction at laydown areas and camps).	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Employees and contractors will undergo inductions so that all employees and contractors are aware about keeping to existing tracks and prescribed areas. Drill sump pits will have the excavated top soil and substrate stockpiled separately, adjacent to the pit and returned in the same order when backfilled. Backfilled sumps and pits will be mounded to allow for subsidence. Compacted soil as a result of vehicle access will be ripped and contoured to reduce erosion. Where tracks or work sites degrade to bull dust conditions, water will be applied from a water truck to create a crust over the soil and prevent dust becoming windborne. Dead vegetation laying on the ground will be distributed across the rehabilitated site to help reduce windborne dust and water run off, and to help facilitate the natural regrowth of vegetation by the capture of seeds and animal/bird droppings. 	2	B	Minor	Where soil disturbance occurs as a result of exploration activities, ensure that: <ul style="list-style-type: none"> topsoil quality and quantity is maintained the soil profile and topography is reinstated to original conditions there is no accelerated soil erosion. 	<p>Maintain before, during and after photographic evidence of all excavations, drillsites, camps, laydown areas and new tracks demonstrating that:</p> <ul style="list-style-type: none"> The soil profile and topography is reinstated to original conditions and is consistent with natural surroundings within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. Where required, sufficient topsoil is removed (depending on soil profile), stored separately from subsoil and reinstated (in the correct order) within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. There are no signs of accelerated soil erosion during and post rehabilitation of disturbed sites. <p>Representative photos to be included within the annual exploration compliance report.</p> <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>
Surface water	Alteration to surface water – interference to surface drainage.	Yes (Applicable to exploration programs that are likely to impact on surface drainage channels.)	<ul style="list-style-type: none"> Water courses will be avoided where possible. Temporary access tracks will be minimal as the drill areas will be adjacent to the public roads. However, where an access track creates a water course during rain events will have the windrows broken to allow the water to escape the track and mounds placed to divert water from the tracks. Photographs will be taken before drill pad preparation, during drilling and post rehabilitation. 	2	C	Moderate	No permanent modification to hydrological features caused by exploration activities without obtaining a water affecting permit from the relevant Landscape Board (under Landscapes Act SA 2019).	<p>Provide before, during and after photographic evidence within the annual exploration compliance report demonstrating that original drainage contours (watercourses and lakes) are consistent with the natural relief post rehabilitation within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period).</p> <p>Alternatively, provide copies of water affecting permits within the annual exploration compliance report.</p>

Exploration PEPR application – 12-month period

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor	Potential impacts	Is the potential impact applicable (Yes/No)	Control strategies	Risk assessment				
Lists are not exhaustive.	Lists are not exhaustive.	Some potential impacts are applicable to all programs.	Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	LH	CQ	Risk		
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.)	<ul style="list-style-type: none"> All drill contractors will be inducted prior to start of the drill program. Earth Resources Information Sheet M21 Mineral Exploration Drillholes – General specifications for construction and backfilling Drillers will at a minimum be licenced for Class 2 drilling. All drill holes will be decommissioned as per the DEM Earth Resources Information Sheet M21. If rotary Mud drilling occurs in a subsequent drill program for Priority 2 drill holes, the drill hole will be grouted from bottom to top. Aircore drillholes that do not penetrate aquifers, or alternatively penetrate unconfined aquifers only, will be backfilled with drill cuttings or clean fill and plugged with a cement plug of appropriate diameter to permanently seal the drillhole and backfilled with locally sourced drill cuttings to form a slight mound over the collar to allow for subsidence. Aircore drillholes that penetrate confined aquifers will be rehabilitated on completion of wireline logging, and prior to the drill rig moving to the next drill site, by grouting from base of the hole to surface. All chemicals, fuels and waste to be stored in appropriately contained facilities. Drill sites will be photographed before site preparation, during or just after drilling, and post rehab. 	2	C	Moderate	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.)	<ul style="list-style-type: none"> All employees and contract staff will be inducted prior to the start of the drill program which will include a direction that no ground water is to be discharged in the surrounding environment. Each drill site will have a sump pit dug to contain the groundwater lifted from the drill hole. Size of the pits will be adequate to contain the water. Drill sites will be photographed before site preparation, during or just after drilling, and post rehab. 	2	B	Minor	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.)	Extraction of water from bores/dams/mineral drill holes will not be required. Water can be sourced from the township stand pipe if required (in the case of rotary mud drilling)	2	B	Minor	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.
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.)	<ul style="list-style-type: none"> Any new temporary access track will be angled where possible to obscure sight from the road and once rehabilitated, it will have natural, loose vegetation (such as dead branches) and rocks scattered across it to discourage third party access. Drill sites and tracks will be photographed before site preparation, during or just after drilling, and post rehab. 	2	B	Minor	Rehabilitated access tracks remain permanently closed, unless prior approval under the relevant legislation is obtained.	Maintain before and after photographic evidence demonstrating that all tracks are closed and rehabilitated within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. Representative photos are to be included within the annual exploration compliance report. Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.
Community/landowners	Damage to infrastructure and loss of income through fire.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Drill sites will be clear of combustible dry grass near hot machinery and exhausts. No comfort fires will be allowed. All employees and contract staff will be inducted prior to the start of the drill program which will rules around hot works (eg use of angle grinders and dangers of fire when using angle grinders). Fire extinguishers will be located on site and on vehicles. Method of communication will be available on the drill site. 	1	B	Low	No loss of infrastructure or income through fire as a result of exploration activities.	Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming that no uncontrolled fires* occurred. Alternatively, provide a report on the independent investigation of all uncontrolled fires* demonstrating that the licensee could not have reasonably prevented the fire through the implementation of precautionary measures.

Exploration PEPR application – 12-month period

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor Lists are not exhaustive.	Potential impacts Lists are not exhaustive.	Is the potential impact applicable (Yes/No) Some potential impacts are applicable to all programs.	Control strategies Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to Minerals Regulatory Guidelines MG22 for more information.	Risk assessment LH = likelihood of consequence CQ = severity of consequence				
				LH	CQ	Risk		
			<ul style="list-style-type: none"> Extra precautions (eg no hot works, extra fire controls, fire break, fire fighting pump and water) will be undertaken on days of high fire danger ratings which may include stop work order on extreme or catastrophic fire danger ratings, especially if dry crops are in adjacent paddocks. 					
General public	Injury or death to members of the public as a result of exploration activities.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> Signs erected at the entrance of the access tracks to the drill sites warning of danger and no unauthorised access. 	1	C	Moderate	No accidents involving the public that could have been reasonably prevented by the licensee.	<p>Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming no accidents occurred involving the public during and after the exploration program.</p> <p>If an accident involving the public did occur, provide a copy of the independent investigation report within the annual exploration compliance report demonstrating that the licensee could not have reasonably prevented the accident through the implementation of precautionary measures.</p>
General public, employees, contractors and the environment	Contamination of the environment when exploring for known uranium and thorium deposits. Public and employee/contractor exposure to low level radiation.	Yes (Applicable to exploration programs located within known uranium or thorium deposits.)	<ul style="list-style-type: none"> All employees and contract staff will be inducted prior to the start of the drill program which will include Radiation Management Plan Radiation levels will be recorded before drill site preparation, during drilling and after rehabilitation. 	2	C	Moderate	No increase in background radiation levels, and employee/contractor exposure levels during the exploration program are within safe limits.	<p>Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that:</p> <ul style="list-style-type: none"> Radiation levels post exploration and rehabilitation are consistent with pre-existing background levels. Employee and contractors exposure levels were within safe limits during the exploration program.
Other (if applicable)								

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

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

SECTION G - OPERATOR CAPABILITY

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

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

Core Energy Minerals Ltd has the following governance, policies, management and communication systems in place:

Corporate Governance

- *Code of Conduct*

Policies

- *Health & Safety Policy*
- *Environmental Policy*
- *Drug and Alcohol Policy*
- *Fit For Work Policy*

Management Systems

- *Radiation Management Plan*
- *Incident Reporting System*
- *Stakeholder Engagement Plan*

Meetings

- *Toolbox Meetings*
- *Weekly Safety Meetings*

Stakeholder Engagement

- *Stakeholder Engagement Plan*
- *Notices of Entry*
- *Permit 298 - Section 221 - Alter a Public Road - Drilling in Road Reserves*

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.

- *Radiation Management Plan*
- *Registered Aboriginal heritage sites and objects search report*
- *Approval – Permit 298 – Section 221 – Alter a Public Road – Drilling in Road Reserves – Core Energy Minerals Ltd*

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
Nunmulta Prospect – Warrow Rd	25/02/2025					Example of vegetation along Warrow Road verge – Nunmulta Prospect



<Copy and paste photo here, then resize to fit page width.>

Exploration PEPR application – 12-month period

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
Nunmulta Prospect	25/02/2025					Example of vegetation along Warrow Road verge – Nunmulta Prospect



Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
Warrow Road – Lake Greenly area						Example of vegetation along Warrow Road in the Lake Greenly Area – Marble Range in the distance



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.

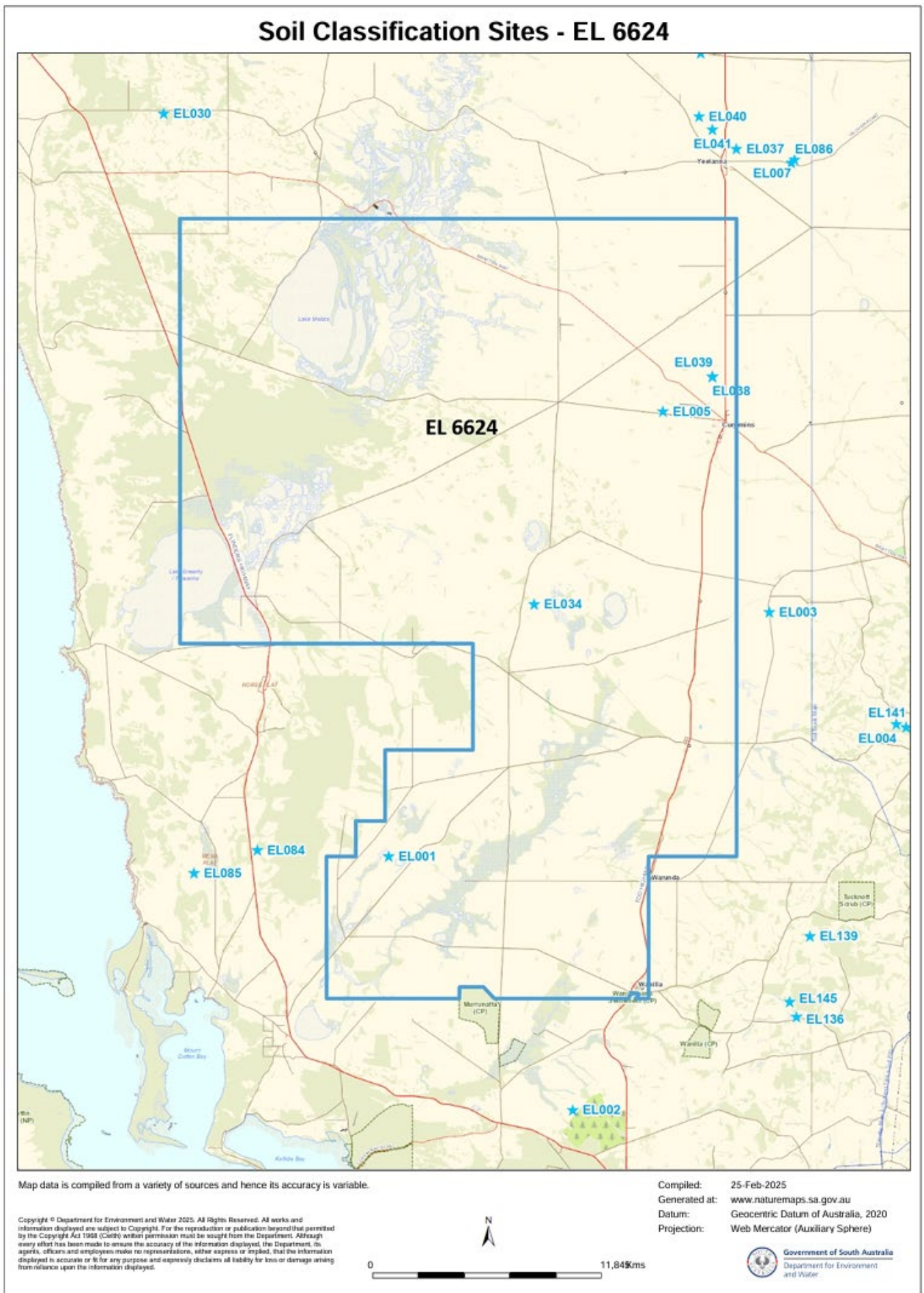
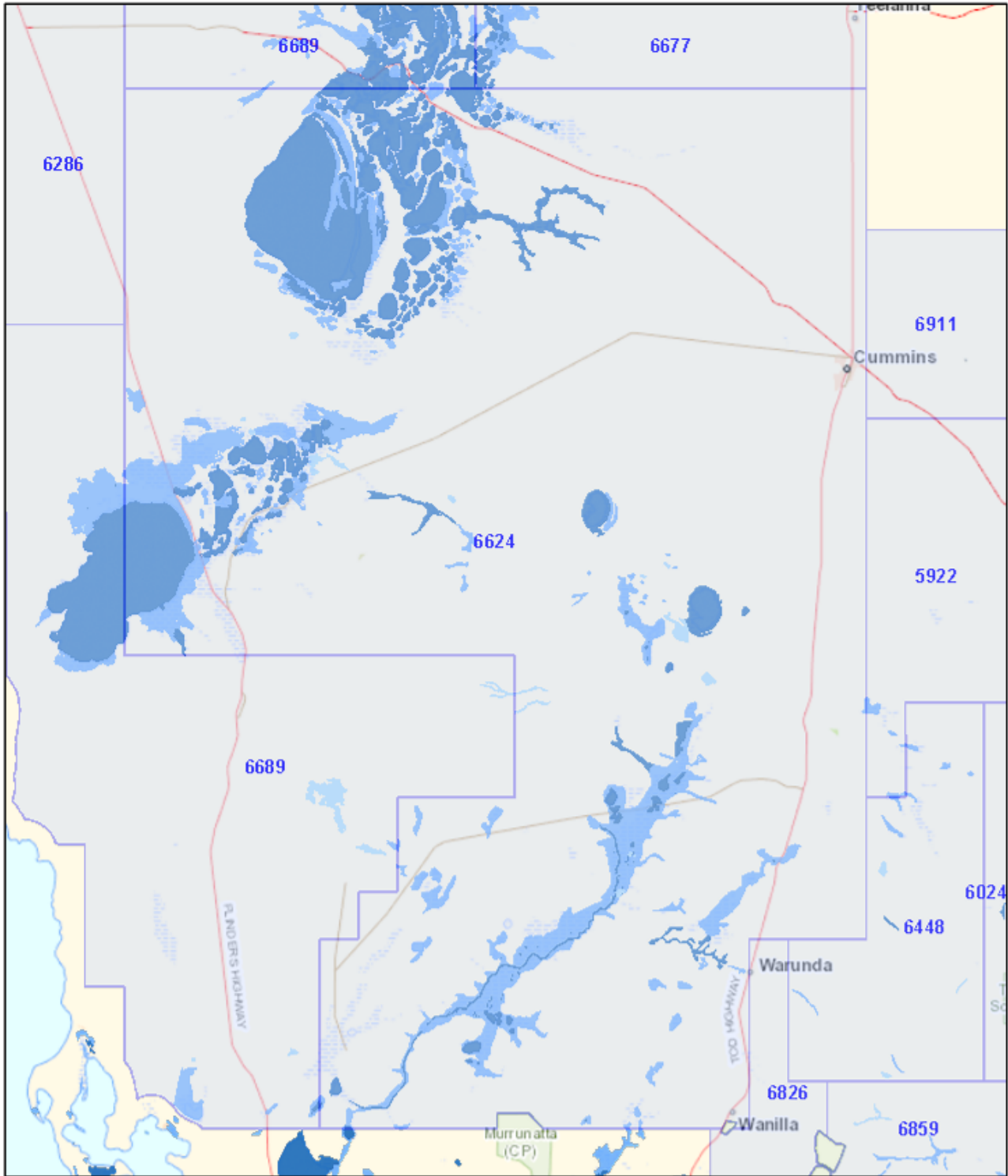
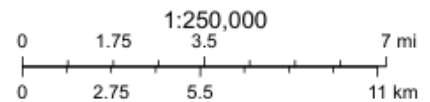


Figure 1 – Soil classification sites

EL 6624 - Aquatic Groundwater Dependent Ecosystems



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Figure 2 -Aquatic groundwater dependent ecosystems

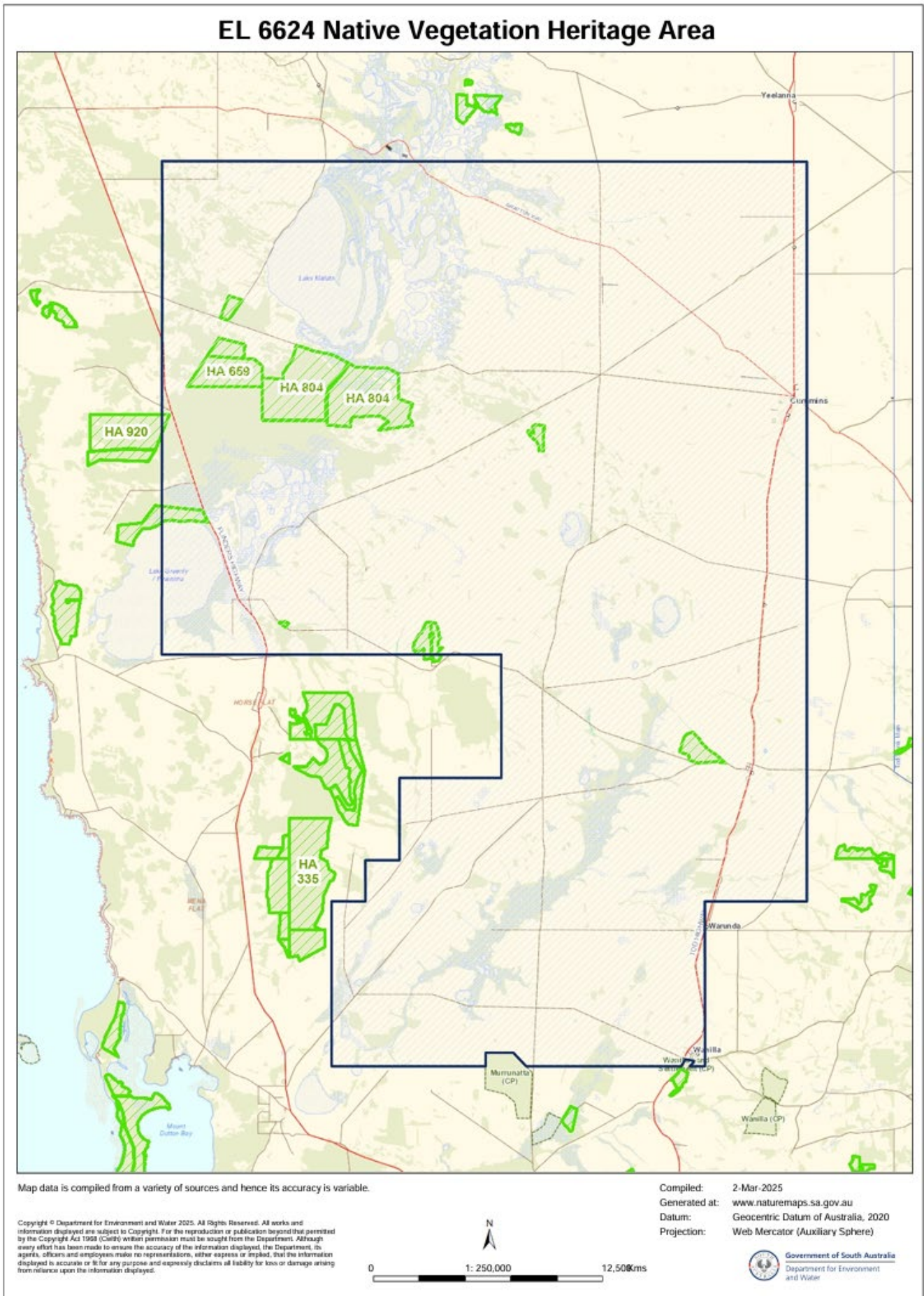
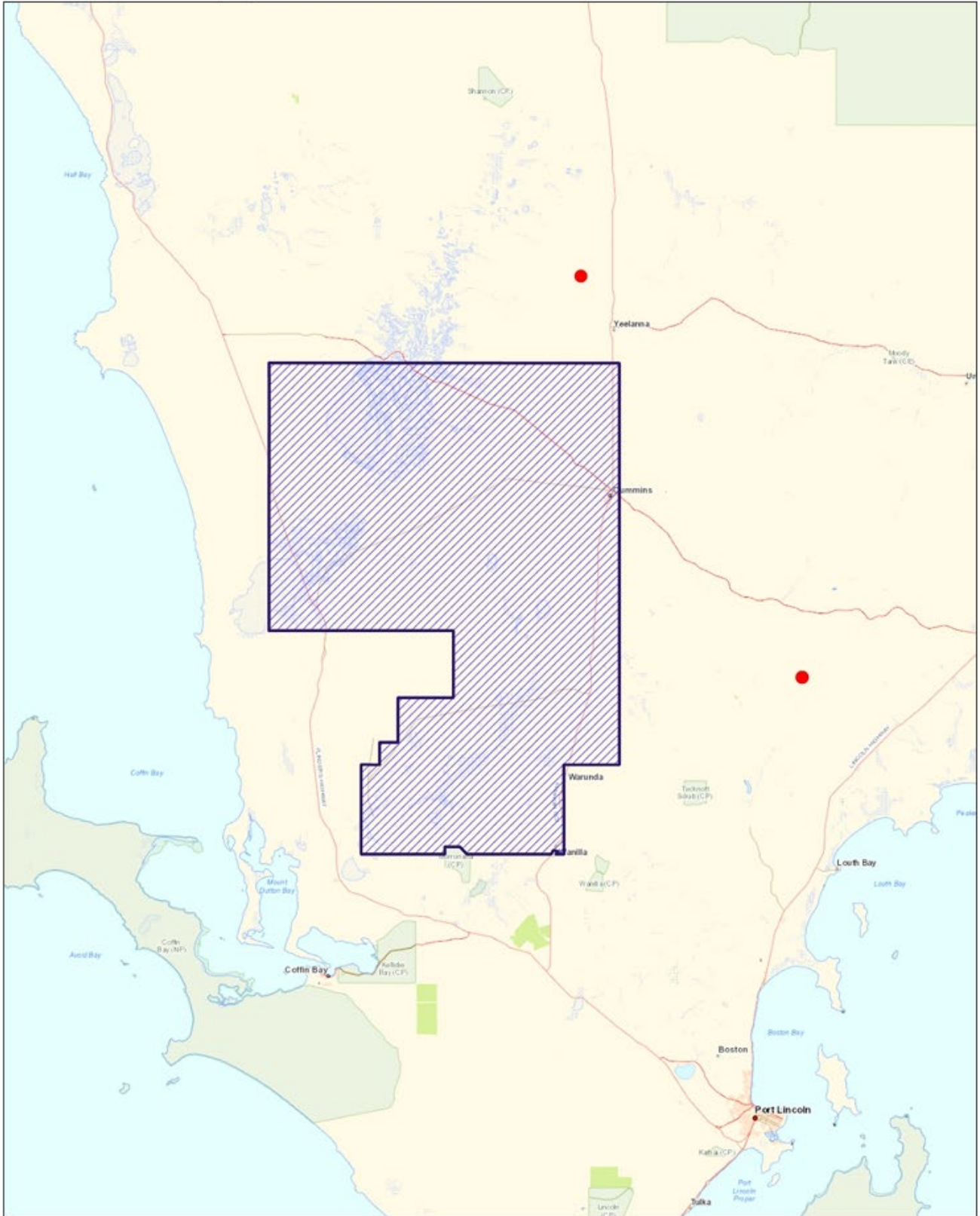


Figure 3 -Native vegetation heritage area

EL 6624 - *Prasophyllum laxum* (Lax Leek Orchid) Recorded Occurrences



Map data is compiled from a variety of sources and hence its accuracy is variable.

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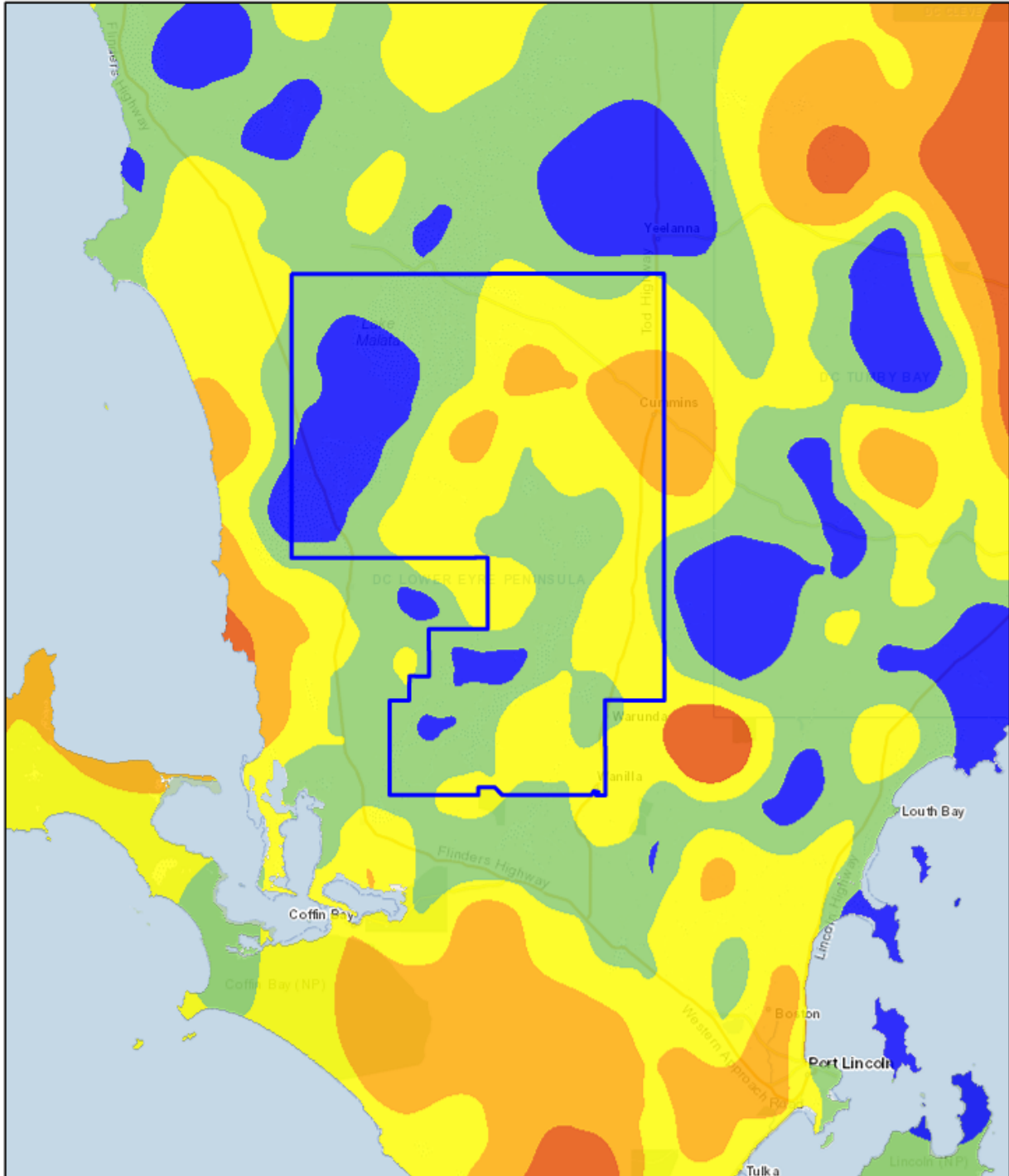


Compiled: 2-Mar-2025
 Generated at: www.naturemaps.sa.gov.au
 Datum: Geocentric Datum of Australia, 2020
 Projection: Web Mercator (Auxiliary Sphere)



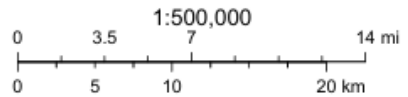
Figure 4 - *Prasophyllum laxum* (Lax Leek Orchis) recorded occurrences

EL 6624 - Shallow Groundwater Depth



March 2, 2025

Blue - 0-2m below surface
Green - 2-5m below surface
Yellow - 5-10m below surface
Orange - 10-20m below surface

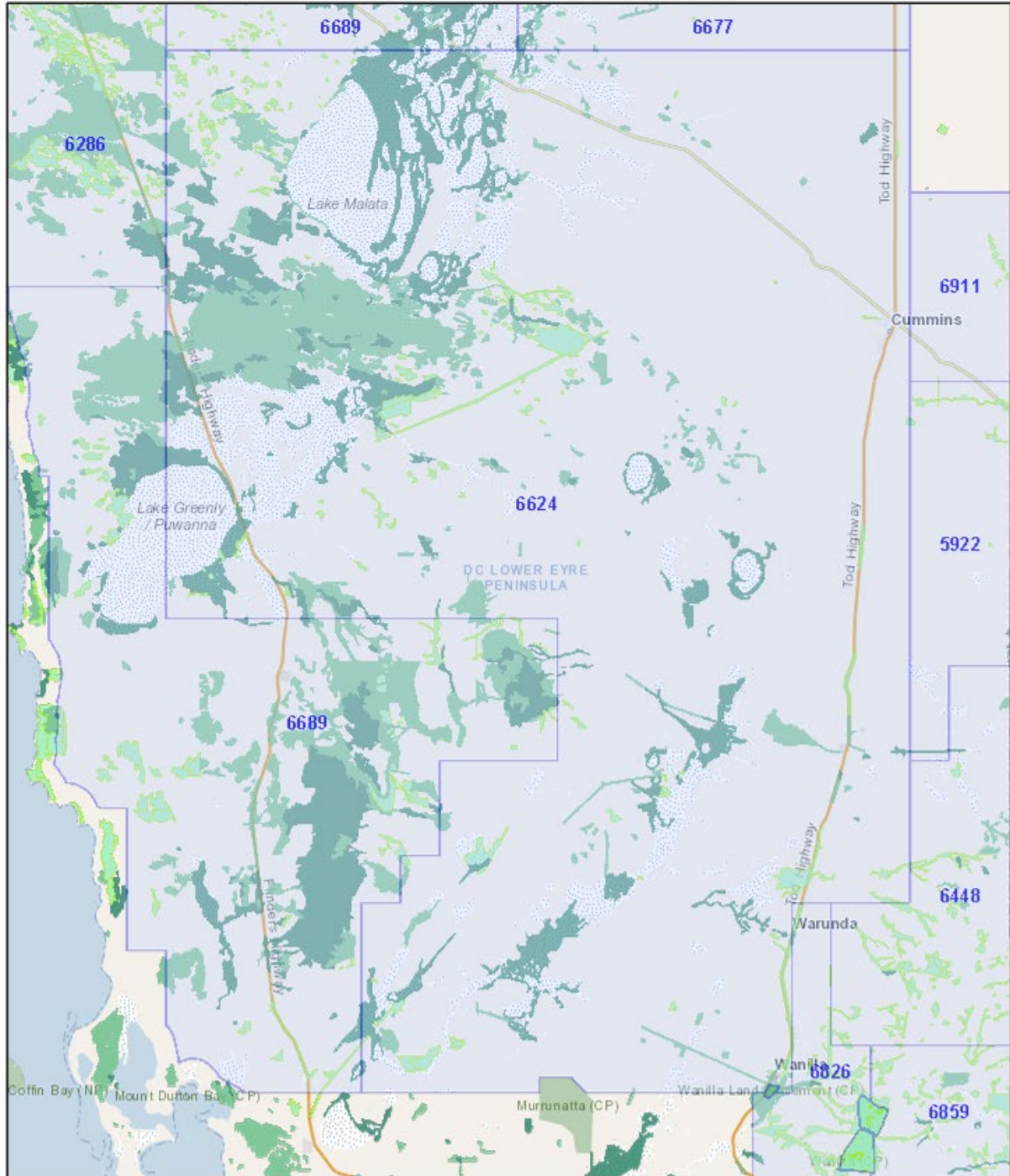


Location SA, DPTI

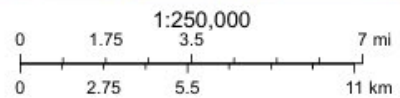
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Figure 5 – Shallow groundwater depth

EL 6624 - Terrestrial Groundwater Dependent Ecosystems



February 28, 2025

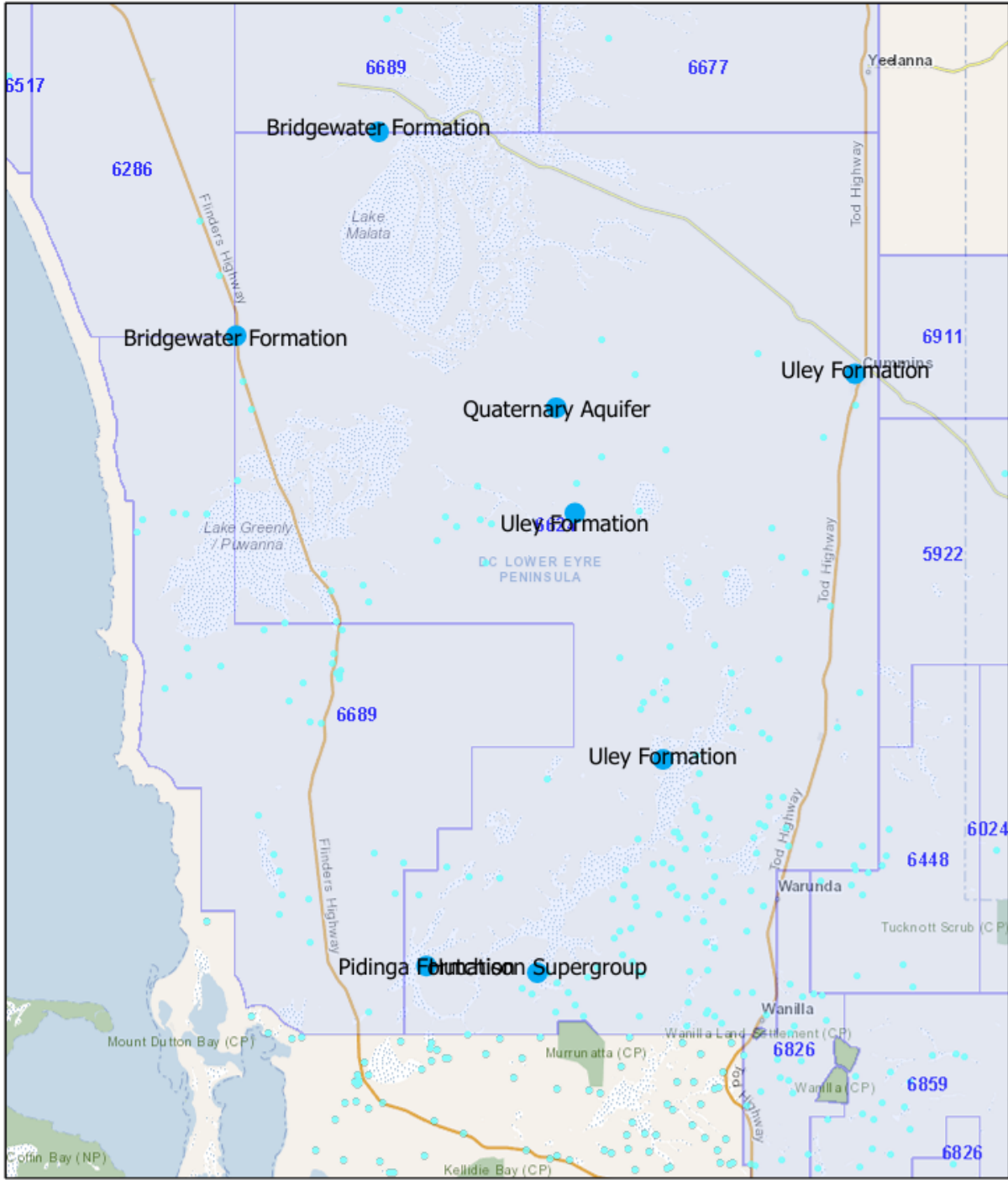


Location SA, DPTI

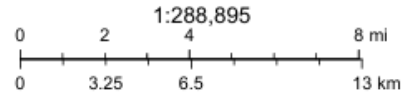
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Figure 6 – Terrestrial groundwater dependent ecosystems

EL 6624 - Water Wells with Aquifer Details



March 2, 2025



Location SA, DPTI

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Figure 7 – Water wells with aquifer details

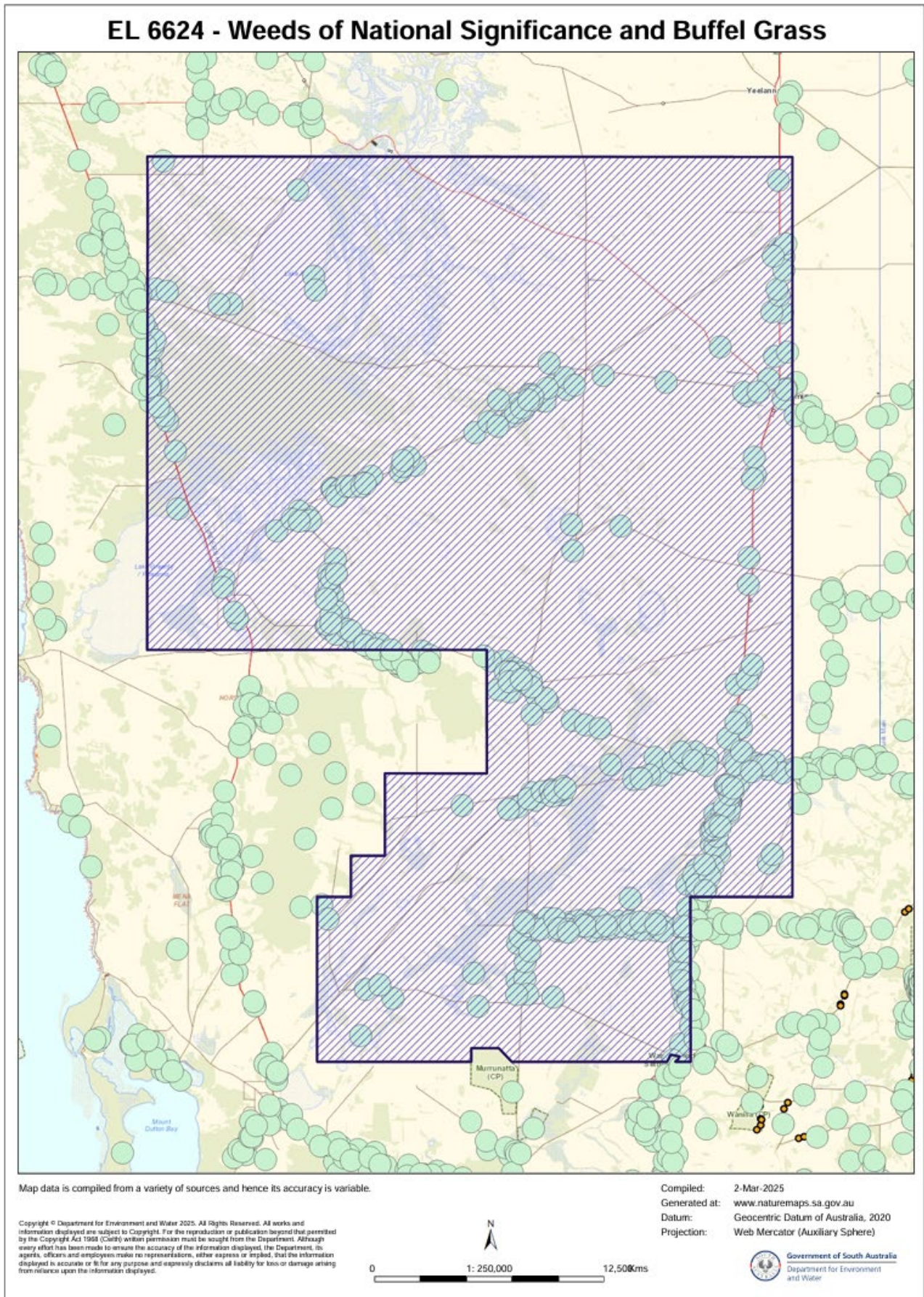


Figure 8 – Weeds of national significance and Buffel Grass

Exploration PEPR application – 12-month period

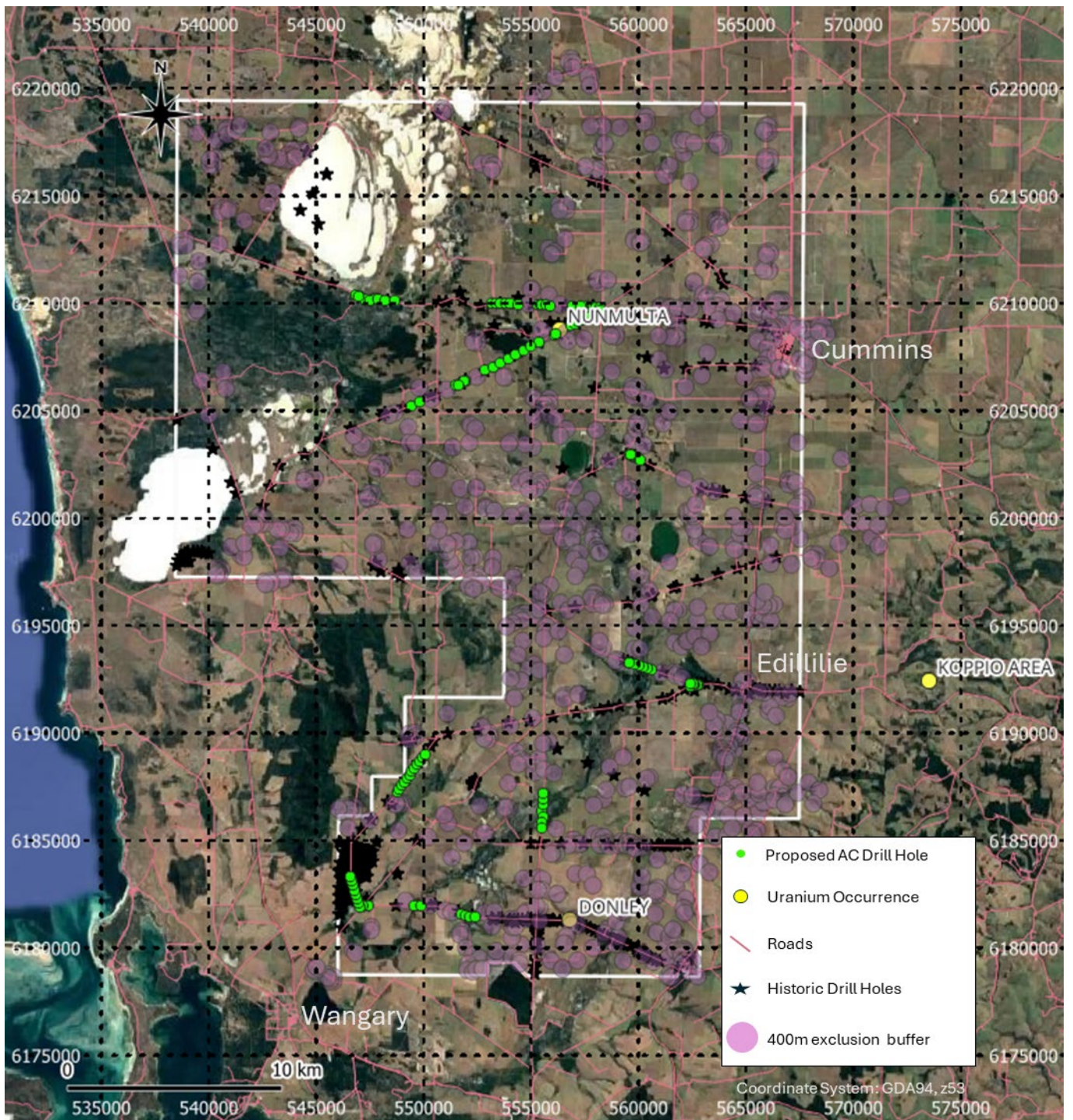


Figure 9 – Proposed drill holes

Exploration PEPR application – 12-month period

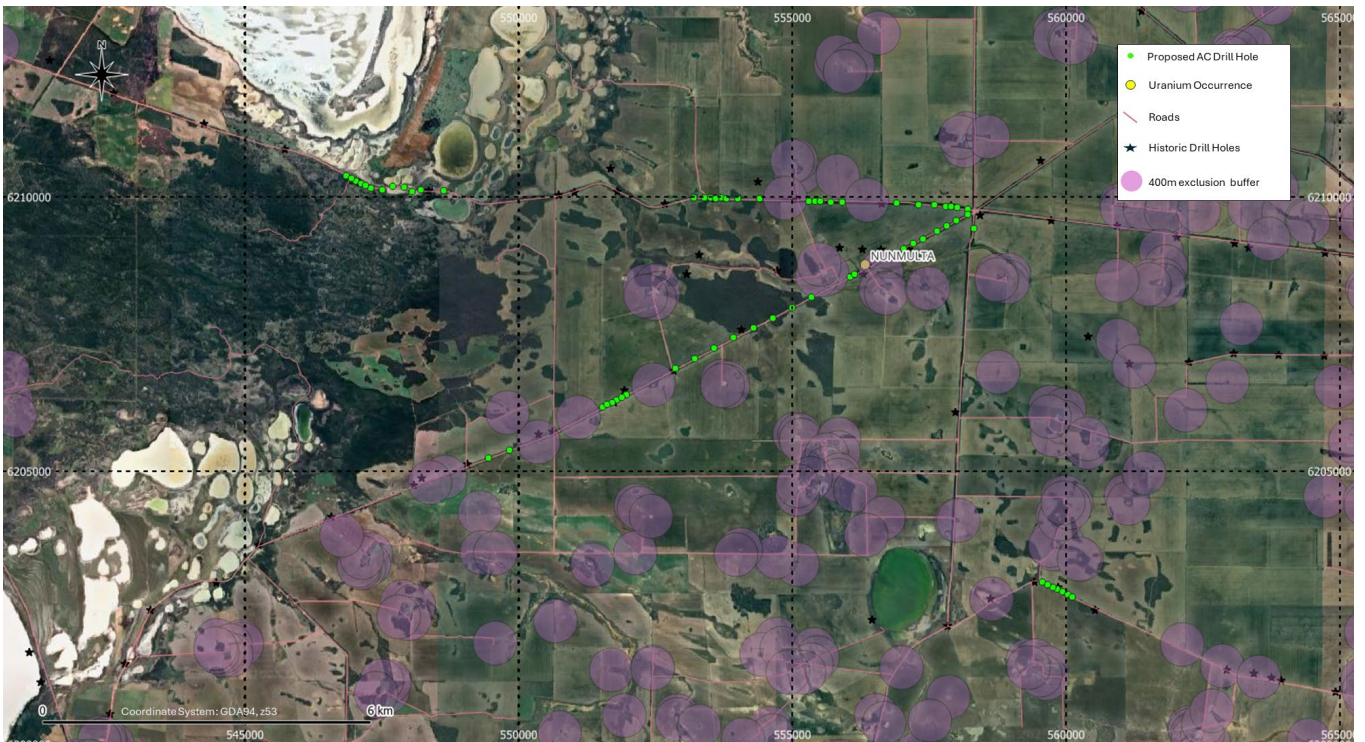


Figure 10 – Proposed Drill Holes (northern area) with 400m exclusion zones around houses, sheds and dams

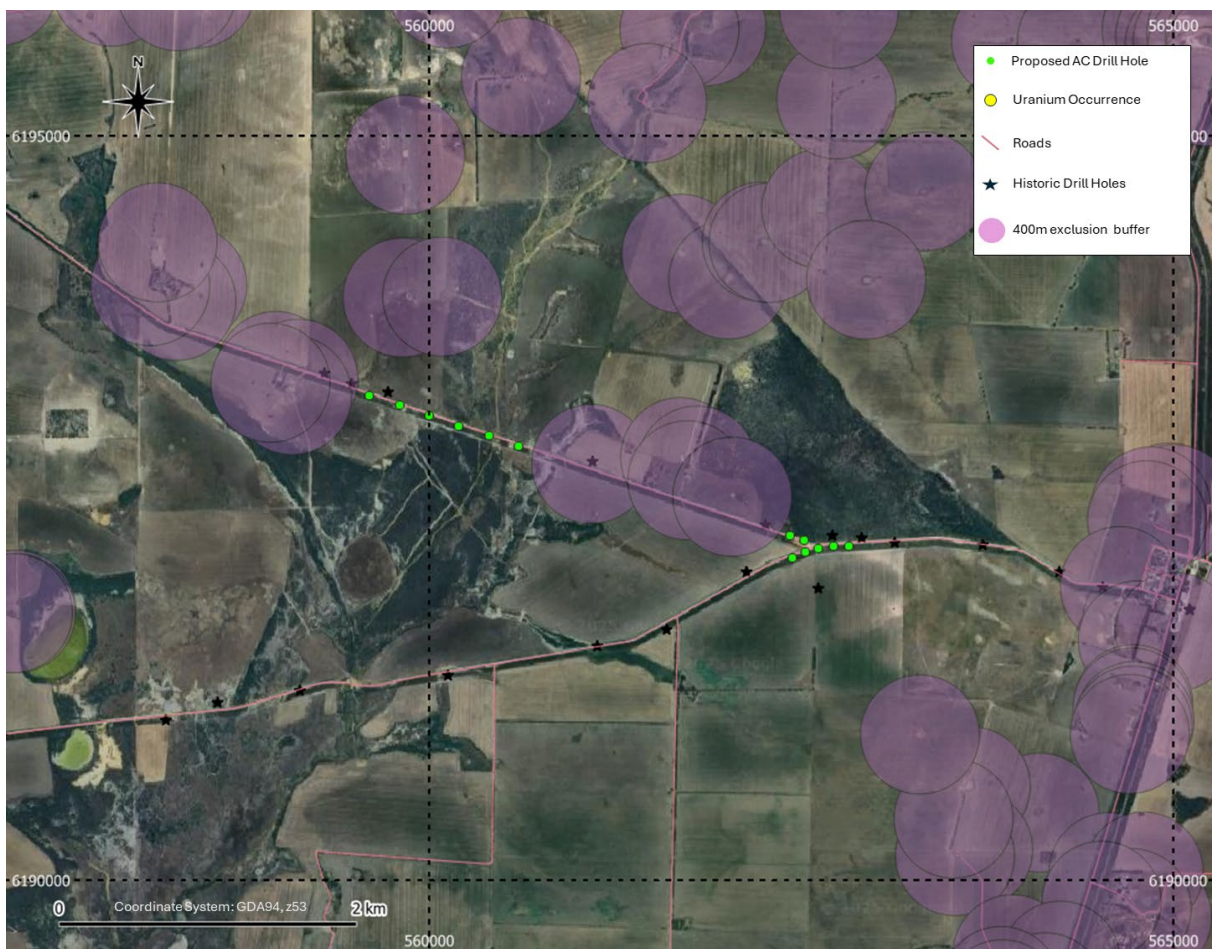


Figure 11 – proposed drill holes (central) with 400m exclusion zones around houses, sheds and dams

Exploration PEPR application – 12-month period

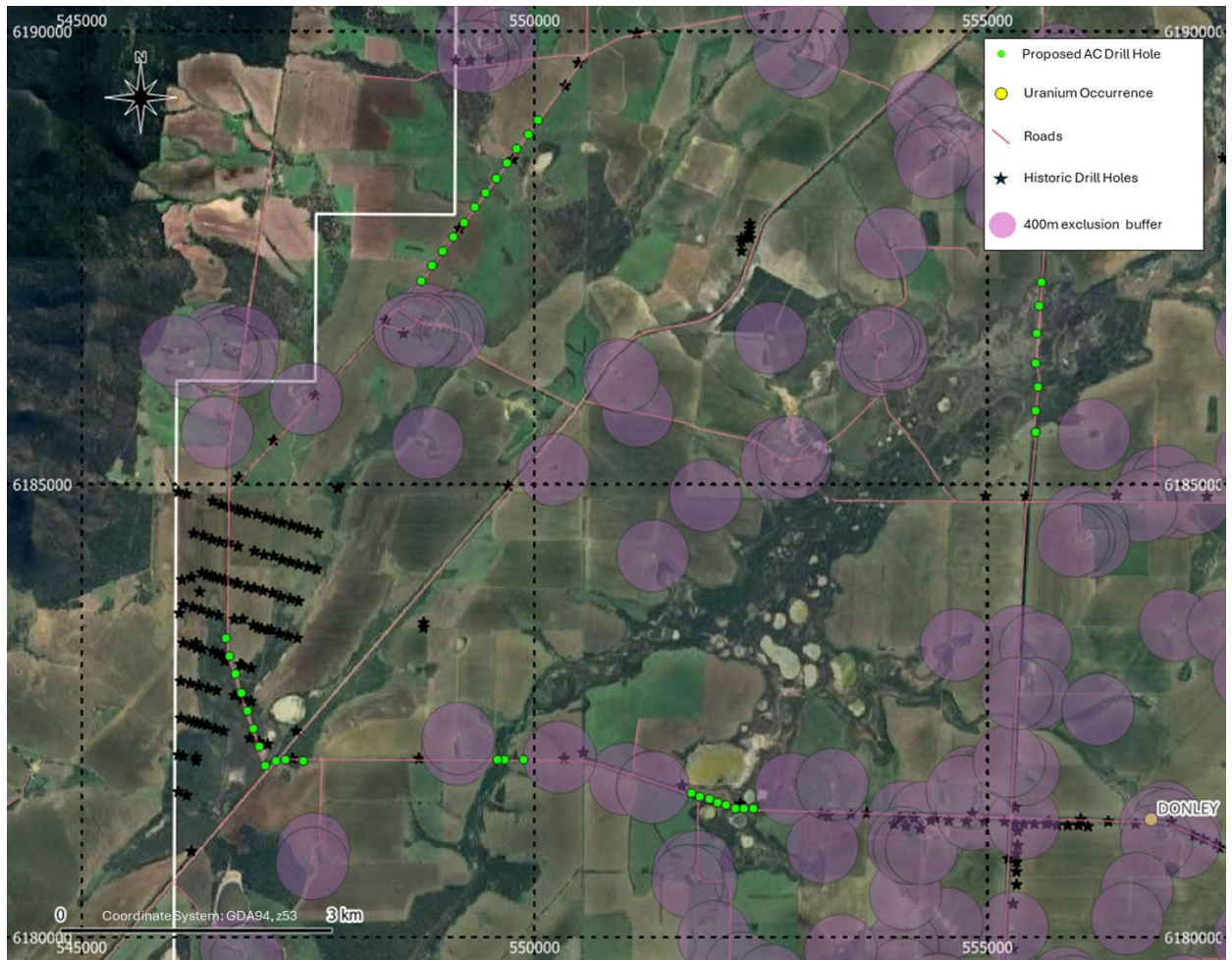


Figure 12 - proposed drill holes (south) with 400m exclusion zones around houses, sheds and dams.

Exploration PEPR application – 12-month period

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.