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| **Refer to the Exploration PEPR** [**Terms of Reference**](https://sarigbasis.pir.sa.gov.au/WebtopEw/ws/samref/sarig1/image/DDD/MD013.pdf) **and to** [**Minerals Regulatory Guidelines MG22**](https://sarigbasis.pir.sa.gov.au/WebtopEw/ws/samref/sarig1/image/DDD/MRGMG22.pdf) **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**](http://www.energymining.sa.gov.au/) **.** |

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| SECTION A – GENERAL DETAILS |

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| Operational approval period  | Ongoing approval period.A program notification is required to be provided to DEM 21 days prior to the start date of each new program of works (PEPR program notification template is available from [the](http://www.minerals.dmitre.sa.gov.au) [DEM Minerals website](http://energymining.sa.gov.au/minerals/exploration/exploration_activities)). All rehabilitation is to be completed within 3 months after the expiry of each program notification. |
| Tenement details | <Include relevant EL, RL or MC tenement number(s)> |
| Tenement holder(s) (for each tenement) | <Insert full name(s) for each tenement> |
| Operating company | <Include company name, address and contact details of the exploration company that will conduct the program> |
| Agency agreement (if applicable) | <If the PEPR is not submitted by the tenement holder, indicate here if an agency agreement between the relevant parties is registered with DEM. Include the commencement date of the agreement and details of all relevant parties.> |
| PEPR prepared by | <Provide name, company, position and contact details. |
| Project supervisor/contact person(s) | <Provide name, company, position and contact details of the person(s) responsible for supervising/implementing the program (includes compliance monitoring requirements). Include details of their relevant experience and qualifications |
| Project/prospect name | <Insert details> |
| Location details  | <Provide general location details> |
| Project description, commodity type and mineralisation model | Provide a concise description of the proposed program, including the type of operations proposed, commodity type and mineralisation model.> |

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| 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 |  | Signature (digital allowed) |  |
| Position  |  | Date |  |

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).*

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| 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.

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| <Include text here.> |

## 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 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | *<Tab to add rows.>* |

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

|  |
| --- |
| <Include text here.> |

Provide any additional relevant information.

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| <Include text here.> |

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| **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.

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| <Include text here.> |

## 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 |[ ]   | Grazing |[ ]
| Pastoral lease | [ ]  |  | Cultivated land | [ ]  |
| Perpetual lease |[ ]   | Residential |[ ]
| Crown land | [ ]  |  | Township | [ ]  |
| Mining reserve |[ ]   | Industrial |[ ]
| Aboriginal freehold/leasehold land (e.g. Anangu Pitjantjatjara Yankunytjatjara and Maralinga Tjarutja lands)  | [ ]  |  | Tourism | [ ]  |
|  |  |  | Conservation  | [ ]  |
| Forestry reserve | [ ]  |  | Defence activity | [ ]  |
| Marine parks | [ ]  |  | Road reserve | [ ]  |
| National parks, conservation parks, conservation reserves, regional reserves\* | [ ]  |  | Sites of scientific significance (geological monuments, fossil reserves etc.) | [ ]  |
| Adelaide Dolphin Sanctuary | [ ]  |  | Orchard/vineyard | ☐ |
| Murray Darling Basin | [ ]  |  | \*Native vegetation heritage agreements | [ ]  |
| <If park/reserve is selected, please provide the name of the park> |  | <Provide the name of the area> |
| Other\* | [ ]  |  | \*European heritage sites | [ ]   |
| <If other is selected, describe the land tenure here.> |  | <Provide the name of the site> |
|  |  | \*Other (e.g. historic mining) |
|  |  | <Provide the name of the site> |
|  |  |  |

\* Indicates more information required in field immediately below.

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

|  |
| --- |
| <Include text here.> |

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

|  |
| --- |
| <Include text here.> |

Provide any additional relevant information.

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| --- |
| <Include text here.> |

## Woomera Prohibited Area (WPA)

| Will activities be conducted within the WPA | Yes [ ]  | No [ ]  | Do you have a resource exploration permit in place? | Yes [ ]  | No [ ]  |
| --- | --- | --- | --- | --- | --- |
| In which zone will activities be conducted? |  |
| Does the Exploration Permit allow the operator to conduct exploration operations in the WPA? | Yes [ ]  | No [ ]  |
| 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 [ ]  | No [ ]  |
| --- | --- | --- |
| <If yes, indicate which area.> |
| Do you have a Deed of Access with Defence? | Yes [ ]  | No [ ]  |
| 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](https://sarigbasis.pir.sa.gov.au/WebtopEw/ws/samref/sarig1/image/DDD/MRGMG22.pdf)).

|  |
| --- |
| Native title  |
| Is the proposed area of exploration located on native title land? | Yes [ ]  No [ ]  (If no, no further information in this section required.) |
| Are there registered native title party/parties in the area of proposed exploration? | Yes [ ]  No [ ]  | <Provide the names of the determined/claimant group> | If no, an Environment, Resources and Development (ERD) Court determination is required. |
| Have you negotiated a native title mining agreement? | Yes [ ]  No [ ]  | Is the agreement registered?\*Yes [ ]  No [ ]  | <List the tenements covered by the agreement> |
| Have you accepted an Indigenous land use agreement (ILUA)? | Yes [ ]  No [ ]  | Is the ILUA registered?\*Yes [ ]  No [ ]  | <List the tenements covered by the ILUA> |
| Have you obtained ERD Court determination?† | Yes [ ]  No [ ]  | Is the determination registered?\*Yes [ ]  No [ ]  | <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.

|  |
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| <Include text here.> |

## Landform and topography

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

|  |
| --- |
| <Include text here.> |

## 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.

|  |
| --- |
| <Include text here.> |

## 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 [ ]  | No [ ]  |
| --- | --- | --- |
| <include infromation here.> |
| Is the program area located within water protection areas defined under the *River Murray Act 2003*? If yes, provide the name(s). | Yes [ ]  | No [ ]  |
| <If yes, provide the name(s)> |
| Is the program area located within any prescribed watercourses or prescribed surface water areas under the *Landscape South Australia Act 2019*? If yes, provide the name(s). | Yes [ ]  | No [ ]  |
| <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 [ ]  | No [ ]  |
| --- | --- | --- |
| <Include text here.> |

|  |
| --- |
| Description of the locality/area where different groundwater conditions may be encountered |
| <Provide description here.> |
| 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 |
|  |  |  |  |  | *<Tab to add rows.>* |

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

|  |
| --- |
| <Include text here.> |

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

|  |
| --- |
| <Include text here.> |

| Is the proposed program located within a prescribed wells area or prescribed water resource area?If yes, provide the name of the area. | Yes [ ]  | No [ ]  |
| --- | --- | --- |
| <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:* 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 [ ]  | No [ ]  |
| --- | --- | --- |
| <include text> |

## 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† |
| <Species/habitat> | <Common name> | <NPW Act rating> | <EPBC Act rating> |
|  |  |  | *<Tab to add rows.>* |

\* *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*).

|  |
| --- |
| <Include text here.> |

## Fauna

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

|  |
| --- |
| <Include text here.> |

## 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 |
| <Species> | <Common name> | <NPW Act rating> | *<EPBC Act rating>* |
|  |  |  | *<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.

## 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 [ ]  | No [ ]  |
| --- | --- | --- |
| <If yes, include text> |
| Are you likely to impact on the environmentally sensitive area? If yes, detail the likely effects the proposed program may have. | Yes [ ]  | No [ ]  |
| <If yes, include text> |
| 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. |
| <Include text here> |

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| SECTION D– DESCRIPTION OF PROPOSED EXPLORATION OPERATIONS |

Include a description of the proposed operations. Each of the elements listed in below must be described only to the extent that they apply to the proposed exploration program.

## Exploration scope

Describe the scope of the proposed exploration operations and detailing the following:

* all exploration methods to be covered by the PEPR.
* extent of exploration operations – e.g. drillhole spacing and drill line density.
* geographic extent of the area covered by the PEPR, including a general locality plan with tenement details, landowner boundaries and areas with environmental classifications or sensitivities.
* specific environments where exploration operations will not be conducted – e.g. parks, reserves, salt lakes etc.

|  |
| --- |
| <Include text here.> |

## Equipment and personnel requirements

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

|  |
| --- |
| <Include text here.> |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Equipment type | Owner/operator | Description/capacity | Activity/purpose |
|  |  |  | *<Tab to add rows.>* |

## 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](https://sarigbasis.pir.sa.gov.au/WebtopEw/ws/samref/sarig1/image/DDD/MD001.pdf), (generic PEPR)? If yes, describe each type of low impact operations proposed. | Yes [ ]  | No [ ]  |
| --- | --- | --- |
| <Include text here.> |

## Drilling Operations

| Will exploration drilling activities be conducted? If yes, identify all the drilling methods that may be used. | Yes [ ]  | No [ ]  |
| --- | --- | --- |
| AC | RAB | RM | RC | DD | AC/DD | RAB/DD | RM/DD | RC/DD | Vibracore | Auger | Other |
| [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |

AC = aircore, RAB = rotary air blast, RM = rotary mud, RC = reverse circulation, DD = diamond drilling, AC/DD = aircore with diamond tails, RAB/DD = rotary air blast with diamond tails, RM/DD= rotary mud with diamond tails, RC/DD = reverse circulation with diamond tails.

Where ‘Other’ drilling method is selected, provide a description of the drilling method.

|  |
| --- |
| <Include text here.> |

## 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.

|  |
| --- |
| <Include text here.> |

## 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](https://sarigbasis.pir.sa.gov.au/WebtopEw/ws/samref/sarig1/image/DDD/ISM21.pdf)? | Yes [ ]  | No [ ]  |
| --- | --- | --- |
| 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.  |
| <Include text here.> |
| 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.  |
| <Include text here.> |

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, indicate the maximum dimensions and size of pits and costeans. | Yes [ ]  | No [ ]  |
| --- | --- | --- |
| <If yes, include text here.> |
| Describe site preparation methods, vegetation clearance, and safety and maintenance requirements if pits and costeans are required. |
| <Include text here.>  |

## 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).

|  |
| --- |
| <Insert information here.> |

## 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 [ ]  | No [ ]  |
| --- | --- | --- |
| <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. Details of the total area of disturbance (includes drill traverses and seismic lines) required off existing tracks (i.e. length (km) and width (m) of new tracks) must be provided in the program notification. | Yes [ ]  | No [ ]  |
| <If yes, include text here.> |

Where possible, 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

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. |
| <Include text here.> |
| What is the maximum number of personnel requiring accommodation? |       |
| Is a campsite required to be established? If no, no further information is required. | Yes [ ]  | No [ ]  |
| 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 (m3) of material to be excavated. | Yes [ ]  | No [ ]  |
| <Include text here.> |
| Are the proposed ablution facilities endorsed/approved for use by the Department of Health or local council, where applicable? If no, indicate why. | Yes [ ]  | No [ ]  |
| <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 [ ]  | No [ ]  |
| Will the laydown area(s) be located at the same location as the campsite? | Yes [ ]  | No [ ]  |
| 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 (m3) of material to be excavated. | Yes [ ]  | No [ ]  |
| <Include text here.> |
| Proposed infrastructure (includes hydrocarbon and water storage requirements) | Quantity | Description/capacity |
|  |  | *<Tab to add rows.>* |

## 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 [ ]  | No [ ]  |
| --- | --- | --- |
| <If yes, include text here.> |

## 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). Indicate how wastewater and/or runoff water will be managed. | Yes [ ]  | No [ ]  |
| --- | --- | --- |
| <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](http://www.environment.sa.gov.au/managing-natural-resources/water-use/water-planning/water-allocation-plans). 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 [ ]  | No [ ]  |
| <Include text here.> |

## 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 [ ]  | No [ ]  |
| --- | --- | --- |
| <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 [ ]  | No [ ]  |
| <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 [ ]  | No [ ]  |
| --- | --- | --- |
| <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 [ ]  | No [ ]  |
| --- | --- | --- |
| 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 [ ]  | No [ ]  |
| <If yes, include text here.> |

## Rehabilitation

| Detail all the activities and strategies relating to the remediation of all impacts associated with the proposed exploration operations (includes exploration camps and laydown areas, tracks).Completion of rehabilitation must be achieved within 3 months after the expiry of each program notification. |
| --- |
| <Include text here.> |
| State the estimated budget required to rehabilitate all impacted sites. |
| <Include text here.> |

## Vegetation Clearance

| Will any area of cleared native vegetation be unrehabilitated after the authorised period?If yes, provide a map and description of the vegetation present in the application area, the extent of any proposed vegetation clearance and the likelihood of the presence of threatened flora. 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. | Yes [ ]  | No [ ]  |
| --- | --- | --- |
| <Include text here.> |

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| --- |
| 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.> |

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| SECTION 6 – 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. Potnetial 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 (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 |

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| How to fill out the table |
| 1. | 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. |
| 2. | 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. |
| 3. | 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. |
| 4. | For each applicable potential impact, the corresponding outcome and outcome measurement criteria are required. |
| 5 | 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) |
| --- | --- | --- |
| ReceptorLists are not exhaustive. | Potential impactsLists are not exhaustive. | Is the potential impact applicable (Yes/No)Some potential impacts are applicable to all programs. | Control strategiesIndicate 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](https://sarigbasis.pir.sa.gov.au/WebtopEw/ws/samref/sarig1/image/DDD/MRGMG22.pdf) for more information. | Risk assessmentLH = likelihood of consequenceCQ = severity of consequence |
| LH | CQ | Risk |
| Stakeholders:* 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:* 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.) | <List the control and rehabilitation strategies> |  |  |  | **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:* existing or permissible land use.
* buildings, structures, existing tracks or other infrastructure.
* aesthetic values of an area.

Noncompliance with legislative requirements. | <Yes/No>(Applicable to programs located adjacent to or within parks and reserves.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **For activities located within or adjacent to regional reserves, national, conservation and marine parks only:*** **no unauthorised interference with park management activities.**
 | Provide confirmation that:* Park access notification forms were submitted to DEW and DEM at least 10 days prior to entry into regional reserves, national, conservation and marine parks, or
* Program notifications for PEPRs approved for an ongoing period of time, were submitted to DEW and the DEM at least 21 days prior to entry into regional reserves, national, conservation and marine parks.
 |
| Flora and fauna and their habitats; includes Commonwealth and state scheduled species. | Loss/modification of native vegetation and associated habitats through the clearance of vegetation. | <Yes/No>(Applicable to exploration programs located within or impacting on native vegetation.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **No permanent loss/modification of native flora and fauna populations and their habitats through:*** **clearance**
* **fire**
* **other**

**unless prior approval under the relevant legislation is obtained.** | Maintain before, during and after photographic evidence of all exploration sites (e.g. drillsites, new track exit/entry points off existing tracks, costeans, campsites) demonstrating that:* The area and method of disturbance is consistent with that described in the PEPR.
* No uncontrolled fires\* occurred as a result of exploration activities.

Representative photos to be included within the annual exploration compliance report. |
| 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.) | <List the control and rehabilitation strategies> |  |  |  | **No introduction of new species of weeds and plant pathogens, nor increase in abundance of existing weeds species.** | Provide a statement within the ‘Compliance with approved programs’section of the annual exploration compliance report, confirming that:* Vehicle logs were kept during the exploration program, demonstrating that all vehicles are clean and free of plant and mud material prior to entering properties† within the tenement areas, unless otherwise agreed to with the relevant landowners.
* Photographic evidence before and during exploration operations and after rehabilitation of disturbed sites was captured, demonstrating that no new weeds and plant pathogens were introduced, nor an increase in abundance of existing weeds recorded.
 |
| All fauna | Entrapment of fauna through open drillholes and excavations. | <Yes/No>(Applicable to exploration programs that involve drilling and/or require excavations.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **No fauna traps created as a result of exploration activities.** | Maintain before, during and after photographic evidence of all drillholes and/or excavations demonstrating that:* 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.

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. |
| Aboriginal heritage sites | Disturbance to Aboriginal heritage. | Yes(Applicable to all programs.) | <List the control and rehabilitation strategies> |  |  |  | **No disturbance to Aboriginal artefacts or sites of significance unless prior approval under the relevant legislation is obtained.** | Maintain a database and provide a statement within the ‘Compliance with approved programs’section of the annual exploration compliance report demonstrating that:* Heritage sites were not impacted during the conduct of the exploration program, unless prior approval was obtained under the appropriate legislation.
* Work ceased on discovery of a significant site and recommenced only after authorisation.
* Aboriginal heritage sites identified 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). | <Yes/No>(Applicable to exploration programs located close to or within European heritage sites and sites of scientific and environmental significance.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **No disturbance to European heritage sites and to sites of scientific and environmental significance unless prior approval under the relevant legislation is obtained.** | Demonstrate no impact to heritage sites and sites of scientific and environmental significance by:* Maintaining evidence, including detailed maps showing sites compared to the location of exploration activities, and photographic evidence of sites before and after the conduct of the exploration program.
* Providing a statement within the annual exploration compliance report confirming sites were not impacted during the conduct of the exploration program.
 |
| Soil/vegetation/fauna | Soil/vegetation contamination (e.g. hydrocarbons, rubbish, drill samples/cuttings, ablutions, other sources). | Yes(Applicable to all programs.) | <List the control and rehabilitation strategies> |  |  |  | **No contamination of soil and vegetation as a result of exploration activities.** | Demonstrate that all domestic or industrial waste (includes general rubbish and hydrocarbons) is disposed of in accordance with the *Environment Protection Act 1993* within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), and that all fuel and chemicals are stored in accordance with EPA requirements, by providing:* 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.

Maintain photographs of all exploration sites and provide representative photos within the annual exploration compliance report demonstrating that drill cuttings are:* 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*](http://www.epa.sa.gov.au/xstd_files/Radiation/Guideline/guidelines_mineral.pdf), 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.

Provide the information requested within the ‘Rehabilitation’ section of the annual exploration compliance report. |
| 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.) | <List the control and rehabilitation strategies> |  |  |  | **Where soil disturbance occurs as a result of exploration activities, ensure that:*** **topsoil quality and quantity is maintained**
* **the soil profile and topography is reinstated to original conditions**
* **there is no accelerated soil erosion.**
 | Maintain before, during and after photographic evidence of all excavations, drillsites, camps, laydown areas and new tracks demonstrating that:* 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.

Representative photos to be included within the annual exploration compliance report.Provide the information requested within the ‘Rehabilitation’section of the annual exploration compliance report. |
| Surface water | Alteration to surface water – interference to surface drainage. | <Yes/No>(Applicable to exploration programs that are likely to impact on surface drainage channels.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **No permanent modification to hydrological features caused by exploration activities without obtaining a water affecting permit from the relevant Landscape Board (under Landscapes Act SA 2019).** | Provide before, during and after photographic evidence within the annual exploration compliance report demonstrating that original drainage contours (watercourses and lakes) are consistent with the natural relief post rehabilitation within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period).Alternatively, provide copies of water affecting permits within the annual exploration compliance report. |
| Groundwater/aquifer | Groundwater contamination:* contamination of aquifers through entry of pollutants from the surface
* interconnection between aquifers
* degradation of natural hydrostatic conditions (maintain pre-drilling pressures).
 | <Yes/No>(Applicable to all exploration programs that may intersect groundwater.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **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*](https://sarigbasis.pir.sa.gov.au/WebtopEw/ws/samref/sarig1/image/DDD/ISM21.pdf), 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/No>(Applicable to all exploration programs that may intersect groundwater or where activities require the discharge of groundwater into the surrounding environment.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **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. | <Yes/No>(Applicable to all exploration programs that may require the use of water from existing dams, water bores or mineral drillholes.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **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/No>(Applicable to exploration programs that create new access tracks.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **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.) | <List the control and rehabilitation strategies> |  |  |  | **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. |
| General public  | Injury or death to members of the public as a result of exploration activities. | Yes(Applicable to all programs.) | <List the control and rehabilitation strategies> |  |  |  | **No accidents involving the public that could have been reasonably prevented by the licensee.** | Provide a statement within the ‘Compliance with approved programs’section of the annual exploration compliance report confirming no accidents occurred involving the public during and after the exploration program.If an accident involving the public did occur, provide a copy of the independent investigation report within the annual exploration compliance report demonstrating that the licensee could not have reasonably prevented the accident through the implementation of precautionary measures. |
| 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/No>(Applicable to exploration programs located within known uranium or thorium deposits.) | <If the potential impact is applicable, list the control and rehabilitation strategies> |  |  |  | **No increase in background radiation levels, and employee/contractor exposure levels during the exploration program are within safe limits.** | Maintain a database and provide a statement within the ‘Compliance with approved programs’ section of the annual exploration compliance report demonstrating that:* 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.

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| 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)

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| --- |
| <Include text here.> |

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| SECTION H –ADDITIONAL INFORMATION |

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

|  |
| --- |
| <Include text here.> |

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| 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 |
|  |  |  |  |  |  |  |
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| SECTION J – MAPS |

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

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

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

*<Attach maps here.>*

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| 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.

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| 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.