



**Government  
of South Australia**

*Mining Act 1971*

**TENEMENT DOCUMENT**

**MINERAL LEASE**

<b>TENEMENT HOLDER</b>	Kalkaroo Copper Pty Ltd (ACN 111 129 812)
<b>CLASS OF LEASE</b>	Mineral Lease (ML)
<b>MINERAL LEASE NUMBER</b>	6499
<b>COMMENCEMENT DATE</b>	22 May 2019
<b>TERM OF LEASE</b>	Twenty-one (21) years
<b>EXPIRY DATE</b>	21 May 2040
<b>MINERAL(S)</b>	Minerals (Copper, Gold, Molybdenum and Cobalt)
<b>AREA OF LEASE</b>	974.9 hectares

**DATE BY WHICH THE PROPOSED PEPR MUST BE SUBMITTED: 21 May 2020**

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### **Details of Grant of a Mining Tenement**

1. On 22 May 2019, pursuant to Part 6 of the Act, the Minister made a statutory grant of a mineral lease (the Mining Tenement) described in this Tenement Document.
2. The Mining Tenement is granted:
  - 2.1. To Kalkaroo Copper Pty Ltd (ACN 111 129 812);
  - 2.2. For the purpose of recovering the Mineral(s) described in the First Schedule of this Tenement Document.
3. The Mining Tenement is numbered ML6499.
4. The Mining Tenement is:
  - 4.1. Subject to the Terms and Conditions prescribed by the Act and Regulations and specified in this Tenement Document; and
  - 4.2. Subject to the Additional Terms and Conditions specified in the First and Second Schedules (respectively) of this Tenement Document.

### **Terms and conditions required by the Act to be specified in the Tenement Document**

#### **Description of the Land**

5. The Mining Tenement is granted over an area of 974.9 hectares and is located in the Kalkaroo area, approximately 60 km north of Olary.
6. The location of the Mining Tenement is more specifically defined in the map and coordinates specified in the Third Schedule of this Tenement Document.

#### **Term, Commencement and Expiration**

7. The Mining Tenement is granted for the term of twenty-one (21) years. The term of the Mining Tenement commenced on 22 May 2019, and, unless it is earlier renewed, surrendered or cancelled, the Mining Tenement will cease on 21 May 2040.

**Rental**

8. The Tenement Holder shall pay, by way of rental, such sums as may be prescribed and in accordance with section 40 of the Act and regulation 42 of the Regulations.

**Compensation**

9. The Minister may, at any time, require the Tenement Holder to pay to any person an amount of compensation stipulated by the Minister, to which that person is, in the opinion of the Minister, entitled in consequence of mining operations in pursuance of the rights granted and the obligations imposed by the grant of the Mining Tenement.

**Suspension and Cancellation: Stipulation of Process**

10. Pursuant to subsection 41(1) of the Act, the Minister may suspend or cancel the Mining Tenement if the Tenement Holder contravenes or fails to comply with a term or condition of this Tenement Document or a provision of the Act (which includes the Regulations).
11. Pursuant to subsection 41(2) of the Act, the Minister may stipulate in the tenement document a process for suspension or cancellation that must be followed before the powers in subsection 41(1) may be exercised.
12. The process for suspension of the Mining Tenement shall be as stipulated in the Fourth Schedule of this Tenement Document.
13. The process for cancellation of the Mining Tenement shall be as stipulated in the Fifth Schedule of this Tenement Document.

**Environmental outcomes specified pursuant to Regulation 65 of the Regulations**

14. The Sixth Schedule of this Tenement Document sets out outcomes contemplated in regulation 65(2) of the Regulations, that the Tenement Holder is required to address in any program submitted in accordance with Part 10A of the Act.

*Explanatory note: The Sixth Schedule may also contain strategies and criteria, which the Department has formed the view would address the outcomes set out in that Schedule.*

## **Restatement of selected provisions from the Act**

### **Explanation of Restatements**

15. All of the restatements in this portion of this Tenement Document are included for guidance only and do not replace the substantive provisions of the Act or the Regulations.
16. If any restatement is inconsistent with the substantive provisions of the Act or the Regulations, the restatement will be invalid and the substantive provision of the Act or the Regulations will prevail and the Tenement Holder is required to comply with the substantive provision of the Act or the Regulations.
17. The Tenement Holder is still required to comply with any provision of the Act or Regulations that is not restated in this Mineral Lease.

### **Restatement of rights conferred on Tenement Holder**

18. The grant of the Mining Tenement confers an exclusive right upon the Tenement Holder including officers, employee(s), contractor(s) or duly authorised agent(s) of the Tenement Holder, to conduct mining operations on the Land, for the Mineral(s), subject to the provisions of the Act and the Regulations, and the terms and conditions of this Tenement Document.
19. The grant of the Mining Tenement authorises the Tenement Holder, including officers, employee(s), contractor(s) or duly authorised agent(s) of the Tenement Holder, to sell, or dispose of, the Mineral(s) recovered in the course of mining operations conducted in pursuance of the grant or to utilise any such mineral(s) for any commercial or industrial purpose, subject to the payment of royalty.

### **Restatement of rights and powers not conferred on the Tenement Holder**

20. The grant of the Mining Tenement does not confer any right on the Tenement Holder:
  - 20.1. To use the Land for any purpose other than the authorised mining operations.
  - 20.2. To confer any rights on any other person in relation to the Mining Tenement.

*Explanatory note: For example, the Tenement Holder cannot grant rights to a party under a Joint Venture Agreement (or other agreement however described), to conduct mining operations on the Land in that party's own right. The Tenement Holder may engage employees, contractors or agents to perform work on the tenement on the Tenement Holder's behalf).*

**Restatement of obligations imposed on Tenement Holder: Program for environment protection and rehabilitation**

21. The Tenement Holder must not carry out mining operations unless there is an approved program for environment protection and rehabilitation (an Approved PEPR).
22. A Proposed PEPR will only be approved when it complies with the requirements of Part 10A of the Act and the Regulations.
23. To comply with Part 10A of the Act, the Proposed PEPR must:
  - 23.1. Contain the information specified in section 70B(2) of the Act and regulation 65(2),(5),(6) of the Regulations and determinations made by the Minister under regulation 65(7) of the Regulations (if any);
  - 23.2. Comply with any applicable conditions specified in this Tenement Document (if any);
  - 23.3. Address any relevant environmental outcomes listed in the Sixth Schedule of this Tenement Document.

*Explanatory note: At the date of grant, the determinations are available at:  
[http://energymining.sa.gov.au/minerals/knowledge\\_centre/ministerial\\_determinations](http://energymining.sa.gov.au/minerals/knowledge_centre/ministerial_determinations)*

24. In accordance with regulation 65(10) of the Regulations, the Tenement Holder must submit to the Department for Energy and Mining for ministerial approval a Proposed PEPR that fully complies with the Act and Regulations within twelve (12) months after the grant of the Mining Tenement unless the Tenement Holder has been granted an extension of time for such submission.

*Explanatory note: Until otherwise notified, the Tenement Holder may apply for an extension of time in writing to the Director of Mines, GPO Box 320, Adelaide, SA 5001, setting out the reasons why the Tenement Holder seeks an extension and the date when the Tenement Holder estimates that the document will be ready for submission to the Minister.*

**Restatement of obligations imposed on Tenement Holder: Working conditions**

25. In accordance with regulation 35 of the Regulations, unless otherwise determined or agreed by the Minister, the Tenement Holder must:
  - 25.1. Commence mining operations in accordance with the Approved PEPR within twelve (12) months after its approval; and
  - 25.2. Thereafter continue mining operations in accordance with the requirements of the program in the Approved PEPR.

*Explanatory note: Until otherwise notified, the Tenement Holder may apply for an extension of time in writing to the Director of Mines, GPO Box 320, Adelaide, SA 5001, setting out the reasons why the Tenement Holder seeks an extension and the date when the Tenement Holder estimates that the document will be ready for submission to the Minister.*

**Restatement of obligations imposed on Tenement Holder: Other**

26. In addition to obligations about the conduct of mining operations and rehabilitation, the Act and Regulations impose other obligations on the Tenement Holder including obligations to:
  - 26.1. Comply with Part 3 of the Act (royalties).
  - 26.2. Comply with the applicable provisions of Part 9 of the Act (entry onto land and use of declared equipment).
  - 26.3. Comply with the applicable provisions of Part 9B of the Act (native title).
  - 26.4. Comply with the provisions of section 76 of the Act (mining returns) to the extent relevant to a mineral lease.
  - 26.5. Comply with section 77 of the Act (records and geological samples) and regulation 84 of the Regulations.
  - 26.6. Comply, as necessary, with section 83 of the Act (ministerial consent for dealings in relation to the Tenement) and regulations 44 and 70 of the Regulations.
  - 26.7. Comply, insofar as applicable to a mineral lease, with regulation 86 of the Regulations (compliance reports).
  - 26.8. Comply with the requirement in regulation 43 of the Regulations to maintain all posts, boundary indicator markers and notices in the positions required by the Regulations as applicable.
  - 26.9. Permit the pastoral lessee (if any) of the Land to have free access and use at all times for domestic purposes, and for the purposes of watering stock from any surface water on the land which shall not have been provided or stored by artificial means by the Tenement Holder.

**Restatement of Exempt Land**

27. In accordance with section 9 of the Act, the grant of the Mining Tenement does not authorise prospecting, exploring or mining upon any exempt land unless or until the benefit of the exemption is waived under section 9AA.



**Restatement of Bond**

28. In accordance with section 62 of the Act, the Minister may by written notice require the Tenement Holder to pay a bond in such sum and subject to such terms and conditions as ensure, in the opinion of the Minister, that the following will be satisfied:

28.1. Any civil or statutory liability likely to be incurred by the Tenement Holder in the course of carrying out mining operations;

28.2. The present and future obligations of the Tenement Holder in relation to the rehabilitation of land disturbed by mining operations.

*Explanatory note: The terms and conditions referred to in this paragraph will be imposed in the written notice given by the Minister. The Minister may include a term or condition that the bond may be increased if circumstances arise during the term of this Mineral Lease which increases the rehabilitation liability or increases the cost of civil or statutory liability.*

**Restatement of Fees**

29. The Tenement Holder shall pay all fees imposed by the Act and Regulations from time to time.

**Restatement of Renewal**

30. This Mining Tenement shall be renewed in accordance with the Act.

**Restatement of Surrender**

31. The Tenement Holder may apply to surrender the Mining Tenement during its term in accordance with the Act and the Regulations.

**Restatement of Forfeiture**

32. The Mining Tenement is subject to the forfeiture provision of the Act being sections 70 and 85.

**Restatement of Notices**

33. Notices under the Act will be served in accordance with regulation 106 of the Regulations.

**Restatement of Mining Register**

34. Section 15A of the Act requires the Mining Registrar to keep a register of, amongst other things, mineral leases. Upon payment of the prescribed fee, the public may inspect the Mining Register.

**Restatement of Mining Operations**

35. As defined by section 6 of the Act “mining operations” means:
- 35.1. Operations carried out in the course of prospecting, exploring or mining for minerals; or
  - 35.2. Without limiting paragraph 35.1, any operations by which minerals are recovered from any place or situation, including by recovering minerals from the sea or a natural water supply; or
  - 35.3. On-site operations undertaken to make minerals recovered from the site a commercially viable product, other operations involving such minerals, or other operations involving minerals brought on to the site of a mine for processing; or
  - 35.4. Operations for the rehabilitation of land on account of the impact of any operations under a preceding paragraph; or
  - 35.5. Operations that are directly related to any operations under a preceding paragraph;  
but does not include –
  - 35.6. An investigation or survey under section 15 of the Act; or
  - 35.7. Fossicking; or
  - 35.8. The surface removal of loose rock material disturbed by agricultural operations.
36. This definition applies to operations that occur during all phases of the mine’s life.

**Restatement of requirement to notify of a change in status**

37. The Tenement Holder must comply with regulation 98(1)(c) and 98(2).
- 37.1. If the Tenement Holder is a natural person, he or she is required to notify the Mining Registrar of a declaration of bankruptcy within fourteen (14) days of the declaration.
  - 37.2. If the Tenement Holder is a company, it is required to notify the Mining Registrar of its being placed under official management, or in liquidation or receivership within fourteen (14) days of any of those events.

**Restatement of Public Liability Insurance**

38. The Tenement Holder must comply with regulation 90, which concerns public liability insurance.

**Definitions**

39. In this Tenement Document, the following words have the following meanings:
- 39.1. **“the Act”** means the *Mining Act 1971* of South Australia;
  - 39.2. **“Additional Terms and Conditions”** means the Additional Terms and Conditions authorised by section 34(4) of the Act and set out in the First and Second Schedule of this Tenement Document respectively;
  - 39.3. **“ANCOLD”** means Australian National Committee on Large Dams;
  - 39.4. **“Applicant”** means the person or persons who applied for the Mining Tenement;
  - 39.5. **“Approved PEPR”** means the document contemplated by section 70B(5) of the Act i.e. a Proposed PEPR that has received ministerial approval;
  - 39.6. **“business day”** means any day that is not a Saturday, Sunday or a public holiday in South Australia;
  - 39.7. **“Contamination” and “contaminated”** mean the presence of chemical substances in concentrations greater than the background concentrations (if any), where the presence of the chemical substances in the greater concentrations has resulted in:
    - 39.7.1. Actual or potential harm to the health or safety of human beings that is not trivial; or
    - 39.7.2. Actual or potential harm to water that is not trivial; or
    - 39.7.3. Other actual or potential environmental harm that is not trivial;
  - 39.8. **“DEM”** means the Department for Energy and Mining and includes any substituted Department;
  - 39.9. **“DRP”** means Decommissioning and Rehabilitation Plan;
  - 39.10. **“environmental values (ground and surface water)”** means the environmental values recognised in the *‘Australian and New Zealand Guidelines for Fresh and Marine Water Quality, October 2000, Paper No 4’*;
  - 39.11. **“EPA”** means the Environment Protection Authority under the *Environment Protection Act 1993* of South Australia;
  - 39.12. **“freeboard”** means the difference in height between the level of the supernatant pond and the lowest point of the tailings dam embankment;
  - 39.13. **“the Land”** means the land over which the Mining Tenement is granted and which is described in paragraphs 5 and 6 and in the Third Schedule of this Tenement Document;

- 39.14. **“mine completion”** means the Land has been rehabilitated to an extent that the Minister could approve an application for surrender of the Mining Tenement on the basis that the Tenement Holder has complied with sub-regulation 45(1) of the Regulations and there is no obstacle under sub-regulation 45(3) of the Regulations;
- 39.15. **“mineral lease”** means the Mining Tenement granted to the Tenement Holder as referred to in paragraph 1 of this Tenement Document;
- 39.16. **“Mineral(s)”** means the Minerals referred to in the First Schedule of this Tenement Document;
- 39.17. **“Mining Tenement”** or **“Tenement”** means the mineral lease granted to the Tenement Holder, as referred to in paragraphs 1 and 2 of this Tenement Document and all of the rights and obligations encompassed in the grant;
- 39.18. **“the Minister”** means the Minister for Energy and Mining (or any substituted Minister);
- 39.19. **“NAF”** means non-acid forming waste rock;
- 39.20. **“PAF”** means potentially acid forming waste rock;
- 39.21. **“PEPR”** means Program for Environment Protection and Rehabilitation;
- 39.22. **“pests”** means any pest animals declared under the *Natural Resources Management Act 2004*;
- 39.23. **“Proposed PEPR”** means the document required by regulation 65(10) to be submitted for ministerial approval within twelve (12) months of the date of grant of the Mining Tenement;
- 39.24. **“Regulations”** means the Mining Regulations 2011 of South Australia;
- 39.25. **“site”** means the Land;
- 39.26. **“Tenement Document”** means this document;
- 39.27. **“Tenement Holder”** means the person, or persons to whom the mining tenement was granted and includes:
- 39.27.1. in the case of a natural person, the executors, administrators and assigns of that person;
- 39.27.2. in the case of a body corporate, the successors, administrators or permitted assigns thereof.

*Explanatory Note: “The Tenement Holder” has the same meaning as “the mining operator” as defined by section 6 of the Act.*

- 39.28. **“third party land users”** means the owner of land as defined by the Act (which includes native title holders and any persons lawfully occupying land with the licence of the owner, or the consent of the owner) and **“third party land use”** has a corresponding meaning;
- 39.29. **“TSF”** means the Tailings Storage Facility;
- 39.30. **“weeds”** means any invasive plant that threatens native vegetation in the local area or any species recognised as invasive in South Australia;
- 39.31. **“WRD”** means the Waste Rock Dump.

**Interpretation**

40. For the purposes of interpreting this Tenement Document the following will apply:
- 40.1. Unless otherwise stated, any term which is used in this Tenement Document which has a specific meaning in the Act or the Regulations, has that same meaning in this Tenement Document;
  - 40.2. The masculine shall include the feminine, words importing persons shall include corporations, and the singular shall include the plural when the context or circumstances require and unless inconsistent with or repugnant to the context the following words shall have the meanings set opposite to them respectively –
    - 40.2.1. “amendment” includes an addition, excision or substitution;
    - 40.2.2. “the Land” includes any part thereof; and
    - 40.2.3. “the term” includes any renewal or extension thereof.
  - 40.3. If the Mining Tenement is granted to more than one person, all of the persons to whom it is granted are all jointly and severally liable for compliance with the Act, the Regulations and this Tenement Document, including the Additional Terms and Conditions in the First and Second Schedules of this Tenement Document respectively;
  - 40.4. If, by virtue of a dealing under section 83 of the Act, the Mining Tenement comes to be held by more than one person, they will all be jointly and severally liable for compliance with the Act, the Regulations and this Tenement Document including the Additional Terms and Conditions in the First and Second Schedules of this Tenement Document respectively;
  - 40.5. If any act pursuant to Tenement Document would otherwise be required to be done on a day which is not a Business Day, then that act may be done on the next Business Day;
  - 40.6. To the extent that there is any inconsistency, on the one hand, between a term of this Tenement Document or any Additional Term or Condition, and, on the other hand, the Act or Regulations, the Act or Regulations shall prevail;
  - 40.7. Subject to the transitional provisions in any amendment to the Act or the Regulations, all provisions referred to in this Tenement Document shall be taken to include any such amendment;

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- 40.8. Subject to the transitional provisions in any amendment to the Act or the Regulations, to the extent that there is any inconsistency, on the one hand, between a term of this Tenement Document or any Additional Term or Condition, and, on the other hand, any amendments to the Act or Regulations, the amended Act or Regulations shall prevail;
  - 40.9. Footnotes and Explanatory notes do not form part of this Tenement Document;
  - 40.10. The contents page does not form part of this Tenement Document;
  - 40.11. The front page and all of the Schedules form part of this Tenement Document.
-



**Executed by the Tenement Holder(s) in accordance with regulation 41**

SIGNED by Kalkaroo Copper Pty Ltd (ACN 111 129 812) )  
in accordance with section 127 of the )  
*Corporations Act 2001* and its Constitution )

.....  
Signature of Director

.....  
Signature of Director/Secretary

.....  
Print Name of Director

.....  
Print Name of Director/Secretary

.....  
Date

.....  
Date

**When executed, the Tenement Document will  
be entered into the Mining Register and will  
be available through the Mining Register  
Search Tool on the South Australian Resources  
Information Gateway (SARIG) at  
<https://map.sarig.sa.gov.au>**

Entered in the Mining Register on 22 May 2019  
In accordance with section 15A(1)(c) of the Act.

Signed by .....  
Junesse Martin  
Mining Registrar

.....  
Date

**FIRST SCHEDULE****ADDITIONAL TERMS**

*Explanatory note: A term is a clause that gives a right to a Mining Tenement.*

**Authorised Mining Operations**

1. The grant of the Mining Tenement authorises mining operations (only) for the recovery of:
  - 1.1. Copper;
  - 1.2. Gold;
  - 1.3. Molybdenum; and
  - 1.4. Cobalt.
  
2. In accordance with section 39(2) of the Act, the grant of the Mining Tenement authorises the recovery of extractive minerals including, but not limited to:
  - 2.1. Quartzite;
  - 2.2. Clay; and
  - 2.3. Shale;produced as a result of mining operations conducted in pursuance of this Mining Tenement.
  
3. The grant of the Mining Tenement authorises mining operations (only) that are consistent with the mining operations described in the Mining Proposal document dated 11 September 2014 and subsequent Response Documents dated 30 November 2015 and 19 January 2017.

**SECOND SCHEDULE**  
**ADDITIONAL CONDITIONS**

*Explanatory note: A condition is a clause that imposes a restriction on a Mining Tenement.*

<b>INDEX TO SECOND SCHEDULE (ADDITIONAL CONDITIONS)</b>	<b>Condition No.</b>
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**Tailings Storage Facility (TSF)**

1. Provide verification reports compiled by a suitably qualified independent expert, against the design and plans that have been adopted for the TSF construction, operation and closure:
  - 1.1. For all stages of TSF construction;
  - 1.2. At an appropriate frequency for operations; and
  - 1.3. For closure of the TSF including the cover system.

All verification reports will be made publically available and must be provided to the Director of Mines (or other authorised officer) prior to the initial placement of tailings in the TSF. Subsequent reports must be provided to the Director of Mines (or other Authorised Officer) within one (1) month of completion.

**Surface Water**

2. The Tenement Holder must ensure that any watercourse diversions are designed to (at a minimum):
  - 2.1. Incorporate natural features (including geomorphic and vegetation) present in the landscape and local watercourses;
  - 2.2. Maintain the existing hydrology and hydraulic characteristics of surface water systems;

- 2.3. Maintain sediment transport and water quality regimes that allow the watercourse diversion to be self-sustaining.

### **Transparency**

3. The Tenement Holder agrees to the Approved PEPR and any compliance reports and reportable incident reports, submitted in accordance with the Regulations, being made available for public inspection.

### **Notification of Cessation of Operations**

4. Within thirty (30) days of becoming aware of any event or decision which is likely to give rise to the cessation of mining operations for a period of more than seven (7) days and prior to the cessation of mining operations, the Tenement Holder must notify the Director of Mines (or other authorised officer) in writing of the event or decision. The notice must specify the date upon which the mining operations are expected to cease, or have ceased and an estimate of the period of cessation.

### **Decommissioning and Rehabilitation Plan (DRP)**

5. If the Tenement Holder decides to cease mining operations or an event occurs that is likely to give rise to the permanent cessation of mining operations, the Tenement Holder must develop a DRP and submit it to the Director of Mines (or other authorised officer) for approval within thirty (30) days of the decision or event (or such longer period as approved by the Director of Mines (or other authorised officer)).
6. The DRP must:
  - 6.1. Set out the activities and scheduling required for the carrying out of the rehabilitation works specified in the Approved PEPR;
  - 6.2. Be prepared in accordance with any guidelines provided by the Director of Mines (or other authorised officer).
7. The Tenement Holder must carry out decommissioning and rehabilitation in accordance with the approved DRP and the Approved PEPR.
8. If, in the opinion of the Director of Mines, mining operations have substantially ceased for a period of two (2) consecutive years, the Director of Mines may direct the Tenement Holder:

- 8.1. To develop and submit a DRP (which must address the requirements of Second Schedule Condition 4) for approval within thirty (30) days of the direction or such longer period as the Director of Mines may allow; and/or
- 8.2. To carry out decommissioning and rehabilitation in accordance with the approved DRP and the Approved PEPR.

### **Additional Information in the Program**

9. In accordance with section 70B(2)(d) of the Act it is a condition of the grant of the Mining Tenement that a Proposed PEPR submitted in accordance with Part 10A of the Act must include reports from suitably qualified independent experts on the following matters:
  - 9.1. The effectiveness of the proposed strategies in the Proposed PEPR achieving the environmental outcomes identified in the Proposed PEPR, including but not limited to reports from:
    - 9.1.1. An Independent tailings storage facility expert (i.e.: for TSF design, construction methodology and operation);
    - 9.1.2. An Independent Hydrology Expert (i.e.: for Surface water management);
    - 9.1.3. All reports must include identification of any risks, assumptions and uncertainties associated with the relevant strategies.
  - 9.2. The capacity of the tenement holder to achieve compliance with the Act and the Proposed PEPR in light of its management systems, personnel, policies, procedures, practices and resources.

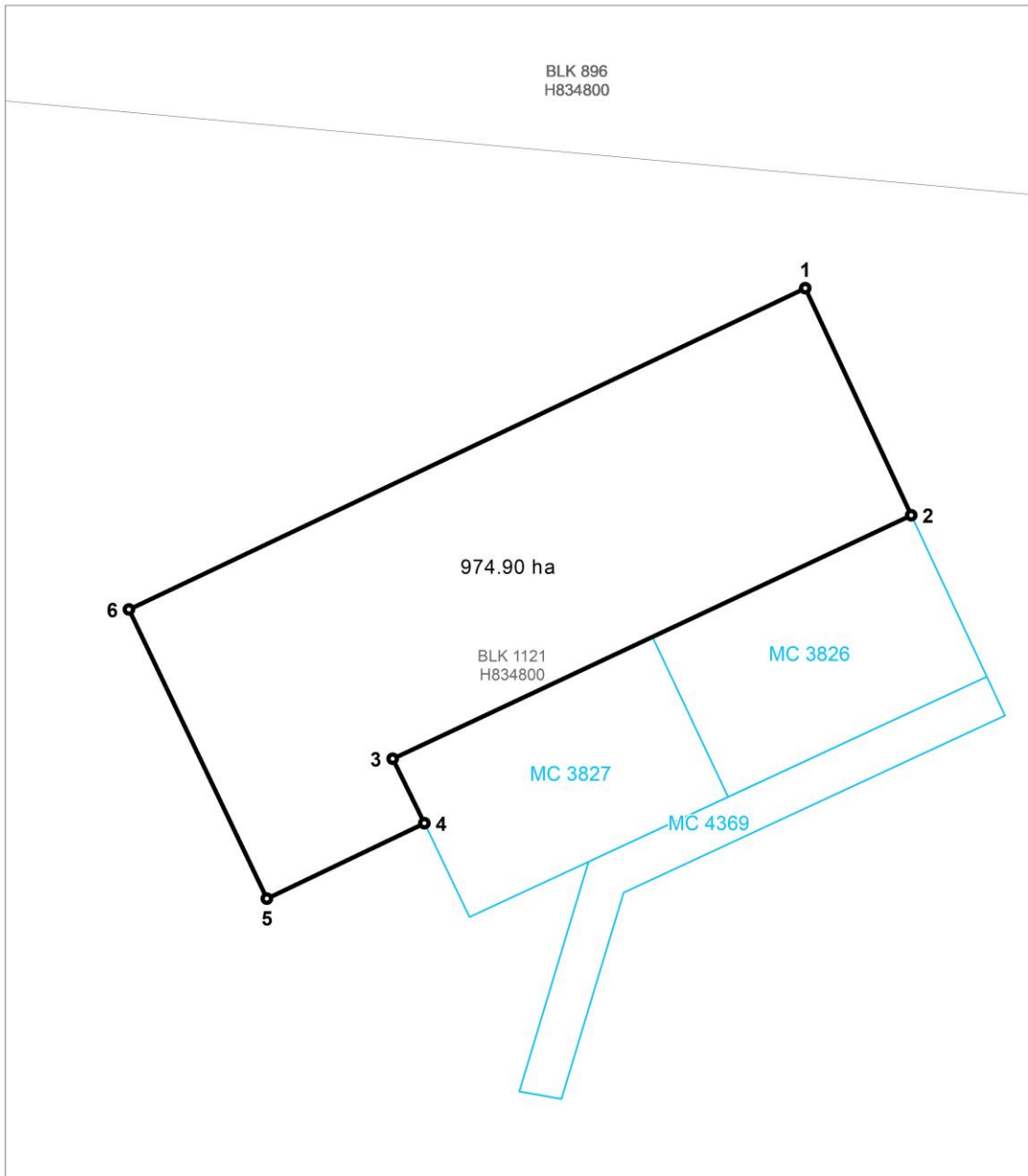
### **Other Legislation**

10. The Tenement Holder must comply with all State and Commonwealth legislation and regulations applicable to the activities undertaken pursuant to this Mining Tenement including (but not limited to) the:
  - 10.1. *Environment Protection and Biodiversity Conservation Act 1999*;
  - 10.2. *Development Act 1993*;
  - 10.3. *Planning, Development and Infrastructure Act 2016*;
  - 10.4. *Dangerous Substances Act 1979*;
  - 10.5. *National Parks and Wildlife Act 1972*;
  - 10.6. *Natural Resources Management Act 2004*;

- 10.7. *Public and Environmental Health Act 1987;*
- 10.8. *Aboriginal Heritage Act 1988;*
- 10.9. *Heritage Places Act 1993;*
- 10.10. *Work Health and Safety Act 2012;*
- 10.11. *Environment Protection Act 1993;*
- 10.12. *Native Vegetation Act 1991;*
- 10.13. *Mines and Works Inspection Act 1920; and*
- 10.14. *Road Traffic Act 1961.*

THIRD SCHEDULE

MAP



NOTE: The boundary of this lease is depicted so as to best represent the relationship to the surrounding cadastral parcels. The legal boundary is to be ascertained by the coordinates specified.

DATE PRODUCED: 1/04/2019

**THIRD SCHEDULE****DESCRIPTION OF AREAS**

All that part of the State of South Australia, bounded by a line joining the points of coordinates set out in the following table:

Map Grid of Australia 1994 Zone 54		
Point	Easting	Northing
1	455984 mE	6492420 mN
2	456725 mE	6490829 mN
3	453098 mE	6489123 mN
4	453319 mE	6488670 mN
5	452217 mE	6488142 mN
6	451253 mE	6490169 mN

Area: 974.90 ha

Based on information provided by the applicant.



**FOURTH SCHEDULE**  
**PROCESS FOR SUSPENSION**

**Issuance of Suspension Show Cause Notice**

1. Where the Minister is of the view that there may be grounds to consider whether to suspend the grant of the Mining Tenement, the Minister shall give written notice to the Tenement Holder, which shall:
  - 1.1. Specify the provision of the Act or the Regulations, or the term or condition of the grant of the Mining Tenement, that the Minister believes the Tenement Holder has contravened or failed to comply with; and
  - 1.2. Give the Tenement Holder thirty (30) Business Days from the date of the written notice to show cause why the grant of the Mining Tenement should not be suspended (“the Suspension Show Cause Notice”).

**Minister’s action if Tenement Holder does not respond**

2. If the Tenement Holder does not respond to the Suspension Show Cause Notice within thirty (30) Business Days, the Minister may suspend the grant of the Mining Tenement without further notice (in accordance with the process outlined below).

**Minister’s action if Tenement Holder does respond**

3. If the Tenement Holder responds to the Suspension Show Cause Notice within thirty (30) Business Days, the Minister will consider the Tenement Holder’s submission and decide whether to suspend the grant of the Mining Tenement (in accordance with the process outlined below).

**Written Notice of Minister’s decision**

4. The Minister shall give written notice to the Tenement Holder of the Minister’s decision:
  - 4.1. If the decision is to suspend the grant of the Mining Tenement, the written notice shall be called “Notice of Decision: Suspended”.
  - 4.2. If the decision is to not to suspend the grant of the Mining Tenement, the written notice shall be called “Notice of Decision: Not Suspended”.
5. A Notice of Decision: Not Suspended, may contain any information that the Minister considers relevant.
6. A Notice of Decision: Suspended, shall:
  - 6.1. Specify the reason for suspension;

- 6.2. specify the period of suspension;
- 6.3. specify the action (if any) the Tenement Holder may be required to take for the Minister to consider revoking the suspension, and the time frame for taking that action; and
- 6.4. inform the Tenement Holder of their right of appeal to the Environment, Resources and Development Court in accordance with subsection 41(3) of the Act.

#### **Minister's action if Tenement Holder takes action as specified in Notice of Decision**

7. If the Tenement Holder takes the action specified by the Minister under paragraph 6.3, the Minister will consider revoking the suspension.
8. If the Minister revokes the suspension, the Minister will, within a reasonable time write to the Tenement Holder informing the Tenement Holder of the revocation.

#### **Minister's action if Tenement Holder appeals**

9. If the Tenement Holder appeals to the Environment, Resources and Development Court the Minister will consider exercising the discretion under section 41(4) of the Act, to stay the operation of the suspension until the appeal is finally disposed of.
10. If the Environment, Resources and Development Court, or a court of further appeal finally determines that it is satisfied that there is no proper ground for the suspension, and so orders, the Minister will reinstate the grant of the Mining Tenement in accordance with section 41(5) of the Act.

#### **The Mining Register**

11. All of the stages in the suspension process shall be recorded on the Mining Register by way of appropriate memoranda, for example:
  - 11.1. A memorandum Notice of Decision: Suspended;
  - 11.2. A memorandum Notice of Decision: Not Suspended;
  - 11.3. A memorandum of Minister's Decision to Revoke the Suspension;
  - 11.4. A memorandum of Appeal;
  - 11.5. A memorandum of Stay of Suspension by the Minister;
  - 11.6. Memoranda of all of the courts' orders (whether the Environment Resources and Development Court or subsequent appeal courts).

**FIFTH SCHEDULE**  
**PROCESS FOR CANCELLATION**

**Issuance of Cancellation Show Cause Notice**

1. Where the Minister is of the view that there may be grounds to consider whether to cancel the grant of the Mining Tenement, the Minister shall give written notice to the Tenement Holder, which shall:
  - 1.1. Specify the provision of the Act or the Regulations, or the term or condition of the grant of the Mining Tenement, that the Minister believes the Tenement Holder has contravened or failed to comply with; and
  - 1.2. give the Tenement Holder sixty (60) Business Days from the date of written notice to show cause why the grant of the Mining Tenement should not be cancelled (“the Cancellation Show Cause Notice”).

**Minister’s action if the Tenement Holder does not respond**

2. If the Tenement Holder does not respond to the Cancellation Show Cause Notice within sixty (60) Business Days, the Minister may cancel the grant of the Mining Tenement without further notice (in accordance with the process outlined below).

**Minister’s action if the Tenement Holder does respond**

3. If the Tenement Holder responds to the Cancellation Show Cause Notice within sixty (60) Business Days, the Minister will consider the Tenement Holder’s submission and decide whether to cancel the grant of the Mining Tenement (in accordance with the process outlined below).

**Written notice of Minister’s decision**

4. The Minister shall give written notice to the Tenement Holder of the decision:
  - 4.1. If the decision is to cancel the grant of the Mining Tenement, the written notice shall be called “the Notice of Decision: Cancelled”.
  - 4.2. If the decision is not to cancel the grant of the Mining Tenement, the written notice shall be called “the Notice of Decision: Not Cancelled”.
5. A Notice of Decision: Not Cancelled may contain any information that the Minister considers relevant.

6. A Notice of Decision: Cancelled shall:
  - 6.1. Specify the reason for cancellation;
  - 6.2. Specify the date from which cancellation is effective; and
  - 6.3. Inform the Tenement Holder of their right of appeal to the Environment, Resources and Development Court in accordance with subsection 41(3) of the Act.

#### **Minister's action if Tenement Holder appeals**

7. If the Tenement Holder appeals to the Environment, Resources and Development Court the Minister will consider exercising his discretion under section 41(4) of the Act, to stay the operation of the cancellation until the appeal is finally disposed of.
8. If the Environment, Resources and Development Court, or a court of further appeal finally determines that it is satisfied that there is no proper ground for the cancellation, and so orders, and the cancellation has not been stayed by the Minister under section 41(4) of the Act, or by order of the Environment, Resources and Development Court, the Minister will reinstate the grant of the Mining Tenement in accordance with section 41(5) of the Act.

#### **The Mining Register**

9. All stages in the cancellation process shall be recorded on the Mining Register by way of appropriate memoranda, for example:
  - 9.1. A memorandum Notice of Decision: Cancelled;
  - 9.2. A memorandum of Notice of Decision: Not Cancelled;
  - 9.3. A memorandum of Minister's Decision to Revoke the Cancellation;
  - 9.4. A memorandum of Appeal;
  - 9.5. A memorandum of Stay of Cancellation by the Minister;
  - 9.6. Memoranda of all of the courts' orders (whether the Environment, Resources and Development Court or subsequent appeal courts).

**SIXTH SCHEDULE****ENVIRONMENTAL OUTCOMES****AND ASSOCIATED CRITERIA AND STRATEGIES PURSUANT TO  
REGULATION 65 OF THE MINING REGULATIONS 2011**

*Explanatory note: The Sixth Schedule of this Tenement Document sets out outcomes contemplated in regulation 65(2) of the Regulations, that the Tenement Holder is required to address in any program submitted in accordance with Part 10A of the Act. The Sixth Schedule may also specify requirements for strategies and criteria relevant to the outcomes set out in that Schedule.*

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### **Air Quality Outcome**

1. The Tenement Holder must, during construction, operation and post-mine completion, ensure that there are no adverse impacts to:
  - 1.1. public health; and/or
  - 1.2. public amenity;
 from air emissions and/or dust generated by mining operations.

### **Air Quality Strategy**

2. The Tenement Holder is required to address the following matter for the purpose of Regulation 65(2)(c) in relation to the Air Quality Outcome in Sixth Schedule Clause 1:
  - 2.1. Demonstrate that progressive rehabilitation and stabilisation of disturbed areas will be undertaken throughout the life of mine to control dust emissions generated by wind erosion.

### **Noise Outcome**

3. The Tenement Holder must, during construction and operation, ensure that there are no public nuisance impacts from noise emanating from the Land.

### **Waste Management Outcome**

4. The Tenement Holder must, during construction, operation and post-mine completion ensure that no contamination of natural water drainage systems, streams and rivers, groundwater, land and soils occurs either on or off the Land resulting from permanent disposal or temporary storage of mine or waste material.

**Waste Management Strategies**

5. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(c) in relation to the Waste Management Outcome in Sixth Schedule Clause 4:
  - 5.1. Determine a sulphur cut-off grade for PAF material through further testing for each waste rock unit.
  - 5.2. Provide block modelling of the sulphur distribution of all waste and ore to be mined for the purpose of determining the distribution and estimating the volume of NAF and PAF using the sulphur cut-off grade.
  - 5.3. Integrate the sulphur model with the geological model to provide confidence in the definition of PAF boundaries, potential zones of high neutralising capacity and potential geological controls on mineralisation.
  - 5.4. Provide procedures for regularly updating the models with new geological and sulphur assay data collected in the course of mine operations.
  - 5.5. Provide procedures for ensuring PAF and NAF boundaries derived from the sulphur cut-off and the sulphur block model are included in open pit mine plans.
  - 5.6. Provide procedures for assaying the sulphur content of waste and ore, produced during the course of mining, for verifying PAF and NAF information included in the open pit mine plans to provide a final check that all PAF and NAF materials have been correctly identified.
  - 5.7. Provide procedures and recording systems for selective mining of the identified PAF and NAF materials and their separate placement.
  - 5.8. Provide strategies as directed by any guidelines provided by the Director of Mines (or other authorised officer).
  - 5.9. Provide control and management strategies to mitigate impacts to receptors from the TSF.
  - 5.10. Ensure the design, construction, operation and closure of the TSF is prepared in accordance with, but not limited to, the most recent ANCOLD Tailings Dam Guidelines.
  - 5.11. Provide quality control arrangements for all stages of construction of the TSF including supervision by appropriately qualified and experienced persons, documented procedures, quality control testing and record keeping.

- 5.12. Provide a strategy to ensure deposition of tailings to the TSF ceases if the specified limits for freeboard height or supernatant pond dimensions are exceeded. If exceeded report this to the Director of Mines (or other Authorised Officer) within twenty-four (24) hours.
- 5.13. Provide strategies for the control of seepage through the TSF base, embankment and walls.
- 5.14. Provide strategies for achieving and maintaining design tailings discharge densities and tailings consolidation rates to ensure timely construction of the cover system post cessation of tailings deposition.
- 5.15. Provide tailings discharge density trigger limits and remedial actions to ensure design densities are achieved.
- 5.16. Provide a seepage detection program for monitoring seepage through the embankment and the base of the TSF.
- 5.17. Provide the design, construction and maintenance of the TSF and mine waste cover systems including, but not limited to, a detailed cover system design, construction methodology, cover system modelling and provision of a program of works for field trials and collection of site specific data to validate/calibrate the model(s).
- 5.18. Ensure that the WRD and TSF final landforms will be chemically and physically stable post-mine completion.
- 5.19. Ensure all mine waste materials, infrastructure and landforms are geotechnically stable.
- 5.20. Ensure all domains have been rehabilitated in accordance with the design and closure strategies.
- 5.21. Ensure land is chemically stable.
- 5.22. Ensure no industrial or commercial wastes are left on the Land unless approved through other legislation.
- 5.23. Conduct trials of alternative cover systems during operation to determine the optimum thickness, material properties and slope profiles (e.g. stepped or concave) for the WRD and TSF cover systems.



**Surface Water Outcomes**

6. The Tenement Holder must during construction, operation and post-mine completion, ensure that there is no adverse impact on surface water quality and water dependent ecosystems as a result of contamination and sedimentation from mining operations.
7. The Tenement Holder must during construction, operation and post-mine completion, ensure that no adverse impact to the quantity of surface water available to water dependent ecosystems (including permanent pools) and existing users, on and off the Land, caused by mining operations.

**Surface Water Strategies**

8. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(c) in relation to the Surface Water Outcomes in Sixth Schedule Clauses 6 and 7:
  - 8.1. The Tenement Holder must ensure no contaminated surface water leaves the Land as a result of mining operations; and
  - 8.2. The Tenement Holder must ensure that, apart from water contained in the pit void:
    - 8.2.1. No contaminated surface water remains within the Land post-mine completion; and
    - 8.2.2. No contamination of surface water occurs post-mine completion as a result of mining operations within the Land.
  - 8.3. The Tenement Holder must ensure that any watercourse diversion is designed to ensure that it will be effective in achieving any surface water outcomes, including, but not limited to:
    - 8.3.1. Incorporate natural features (including geomorphic and vegetation) present in the landscape and local watercourses;
    - 8.3.2. Maintain the existing hydrology and hydraulic characteristics of surface water systems;
    - 8.3.3. Maintain sediment transport and water quality regimes that allow the watercourse diversion to be self-sustaining.

**Groundwater Outcome**

9. The Tenement Holder must during construction, operation and post-mine completion, ensure that there is no adverse impact to the quantity and quality of groundwater available to existing users as a result of mining operations.

**Groundwater Strategies**

10. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) of the Regulations in relation to the Groundwater Outcome in Sixth Schedule Clause 9:
  - 10.1. The Tenement Holder must provide a calibrated groundwater model.
    - 10.1.1. The model must include modelling of groundwater mounding caused by the TSF operations;
    - 10.1.2. Adequacy of the current closure modelling approach is to be verified by:
      - 10.1.2.1. Providing volumes of groundwater extracted by the 'drain' cells representing the pit lake;
      - 10.1.2.2. Providing a comparison of the pit lake levels to the regional potentiometric surface immediately adjacent to the pit.
    - 10.1.3. References must be provided for the sensitivity analyses undertaken on the groundwater model.
  - 10.2. The Tenement Holder must establish a program for the establishment and ongoing calibration of the transient ground water model using data obtained from groundwater monitoring within the proposed PEPR.
  - 10.3. The Tenement Holder must establish a program for the ongoing calibration of the pit lake geochemistry and hydrogeological models using data obtained from operational monitoring to address any assumptions and uncertainty within the model.
  - 10.4. The Tenement Holder must provide further explanation and evidence to support the conclusion that the sapprolite and sapprock material will behave as a porous media. If evidence cannot be provided the model must be updated to include a layer representing the sapprolite as an aquitard.

**Groundwater Criteria**

11. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(d) in relation to the Groundwater Outcome in Sixth Schedule Clause 9:
  - 11.1. Establish compliance groundwater monitoring bores either on the Land or at sensitive receptors that are of sufficient density and depth to detect movement of groundwater off the Land.
  - 11.2. Establish representative baseline water quality and quantity for groundwater within the Land and at sensitive receptors, with consideration of existing groundwater users.

**Native Vegetation Outcome**

12. The Tenement Holder must, during construction, operation and post-mine completion, ensure no loss of abundance or diversity of native vegetation on or off the Land through;
  - 12.1. clearance;
  - 12.2. dust;
  - 12.3. fire; or
  - 12.4. other Damage;unless a significant environmental benefit has been approved in accordance with the relevant legislation.

**Native Vegetation Criteria**

13. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(d) in relation to the Native Vegetation Outcome in Sixth Schedule Clause 12:
  - 13.1. Collect representative baseline data for native vegetation prior to commencement of mine operations. The baseline data must include (but not limited to):
    - 13.1.1. The condition, abundance and diversity of native vegetation within the Land.

**Weeds, Pests and Plant Pathogens Outcome**

14. The Tenement Holder must, during construction, operation and post-mine completion, ensure no introduction of new species of weeds, pests (including feral animals) or plant pathogens, nor sustained increase in abundance of existing weeds or pests in the Land.

**Weeds, Pests and Plant Pathogens Criteria**

15. The Tenement Holder is required to address the following matter for the purpose of Regulation 65(2)(d) in relation to the Weeds, Pests and Plant Pathogens Outcome in Sixth Schedule Clause 14:
  - 15.1. Collect representative baseline data on the presence and abundance of weeds, pests and plant pathogens within the Land prior to commencement of mine operations.

**Fauna Outcome**

16. The Tenement Holder must ensure during construction, operation and post-mine completion, that there are no native fauna injuries or deaths due to mining operations that could have been reasonably prevented.

**Soil Outcome**

17. The Tenement Holder must, during construction, operation and post-mine completion ensure that the existing (pre-mining) soil quantity and quality is maintained.

**Soil Strategies**

18. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(c) in relation to the Soil Outcome in Sixth Schedule Clause 17:
  - 18.1. Strategies to achieve recovery of topsoil and subsoil from areas to be disturbed by mining operations.
  - 18.2. Strategies for maintaining the quantity of stockpiled soil until such time that it is used for rehabilitation purposes.
  - 18.3. Strategies that take into consideration the optimal soil stockpile heights.
  - 18.4. Strategies for reinstatement of these soils so as to ensure achievement of the outcome.

- 18.5. An auditable record of soil movement including recovery, stockpiling and reinstatement.
- 18.6. Progressive rehabilitation would be implemented for all domains as soon as practicable.

### **Visual Amenity Outcome**

19. The Tenement Holder must, during operation and post-mine completion ensure that the form, contrasting aspects and reflective aspects of mining operations are visually softened.

### **Visual Amenity Strategies**

20. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(c) in relation to the Visual Amenity Outcome in Sixth Schedule Clause 19:
  - 20.1. The Tenement Holder must ensure that all infrastructure is decommissioned and removed from the Land at mine completion unless the Director of Mines (or other authorised officer) has approved, in writing, for the infrastructure to remain;
  - 20.2. Develop and implement strategies in consultation with affected parties for the management of visual amenity which should include (but not limited to):
    - 20.2.1. Shape permanent mine landforms to soften the visual impact.
    - 20.2.2. Prompt rehabilitation of disturbed areas once no longer required for mining operations, utilising every available opportunity provided by the mine plan.

### **Traffic Outcome**

21. The Tenement Holder must, during construction and operation, ensure that there are no traffic accidents involving the public at mine access points that could have been reasonably prevented by the Tenement Holder.

**Traffic Strategy**

22. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(c) in relation to the Traffic Outcome in Sixth Schedule Clause 21:
  - 22.1. Develop and implement strategies in consultation with affected parties to divert the proposed Kalkaroo Access Road away from Boolcoomatta Homestead.

**Public Safety and Land Use Outcomes**

23. The Tenement Holder must, during construction and operation, ensure that unauthorised entry to the site does not result in public injuries and or deaths that could have been reasonably prevented.
24. The Tenement Holder must demonstrate that post-mine completion, the risks to the health and safety of the public so far as it may be affected by mining operations are as low as reasonably practicable.
25. The Tenement Holder must ensure that the Land is progressively and finally rehabilitated to support the future land use.
26. Before mine completion, the Tenement Holder must satisfy the Director of Mines (or other authorised officer) that where practicable, the pre-mining land use can be recommenced post-mine completion.

**Public Safety and Land Use Strategies**

27. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(c) in relation to the Public Safety and Land Use Outcome in Sixth Schedule Clause 24:
  - 27.1. Develop strategies to ensure final landform design for the open pit void meets the outcome for protection of public safety post-mine completion and in the long term to address potential hazards including, but not limited to:
    - 27.1.1. The risk of falling;
    - 27.1.2. The risk of drowning;
    - 27.1.3. The risk of vehicle incident/accidents; and
    - 27.1.4. Ground instability.

**Heritage Outcome**

28. The Tenement Holder must, in construction and operation, ensure that there is no disturbance to Aboriginal or European heritage sites, objects or remains unless it is authorised under the relevant legislation.

**Blasting Outcome**

29. The Tenement Holder must, during construction and operation, ensure that there are no adverse impacts to:
- 29.1. public safety;
  - 29.2. human comfort;
  - 29.3. third party property;
  - 29.4. adjacent land use; or
  - 29.5. other receptors;
- from airblast, flyrock and vibration caused by blasting.

**Blasting Strategies**

30. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(d) in relation to the Blasting Outcome in Sixth Schedule Clause 29:
- 30.1. Develop strategies for the management of impacts from blasting, including the determination of blast exclusion zones, in accordance with relevant standards.
  - 30.2. A blasting protocol and blasting schedule will be developed in consultation with residents of land within and adjoining the Land to reflect the needs of the neighbouring land use practices.