



Licence number	L9402/2023/1
Licence holder	Carnegie Gold Pty Ltd
ACN	117 116 097
Registered business address	Level – 1/2 Kings Park Rd, West Perth WA 6005
DWER file number	DER2023/000375
Duration	10/11/2023 to 09/11/2037
Date of issue	10/11/2023
Premises details	Riverina Gold Operations Within Mining Tenement M30/256 As defined by the premises map within Schedule 1.

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 6: Mine dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	500,000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 10 November 2023, by:

**A/SENIOR ENVIRONMENTAL OFFICER, INDUSTRY REGULATION
REGULATORY SERVICES**

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of changes
10/11/2023	L9402/2023/1	Licence granted

Interpretation

In this licence:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The Licence Holder must ensure that the following conditions are complied with:

Infrastructure and equipment

General conditions

1. The Licence Holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 1.

Table 1: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
Dewatering Pipeline and dewatering associated infrastructure	The following infrastructure requirements include: <ol style="list-style-type: none"> (a) Telemetry, leak detection systems and automatic cut-outs must be maintained; (b) Dewatering pipeline must be located within V notch drains in bunded corridor or buried in a trench; and (c) V-notch rain within bunded corridor must be maintained. 	In the corresponding locations presented in Schedule 1: Maps, Figure 1
Standpipes and staging tanks	The following standpipes and tank requirements include: <ol style="list-style-type: none"> (a) Standpipes and staging tanks must be located within mine disturbed areas and on a negative gradient leading to the pit void; (b) V-drains and overflow pipes to be maintained; as presented in Schedule 1: Maps, Figure 1 "ENLARGEMENT NTS"; (c) Shutoff valves must be fitted and maintained at standpipes; and (d) Staging tanks must have a maintained pipeline leading back to the pit to prevent the staging tanks from overflowing. 	
Catch sumps (C1 to C8)	Each catch sump must include be: <ol style="list-style-type: none"> (a) Maintained with adequate storage capacity to contain mine dewater from pipeline failure until automatic pressure shutoff device is activated; and (b) Used as a temporary discharge location for the purpose of pipeline maintenance. 	

2. The Licence Holder must ensure that all pipelines containing dewater either:
 - (a) equipped with telemetry systems and pressure sensors along pipeline routes to allow the detection of leaks and failures; and
 - (b) equipped with automatic cut-outs in the event of a pipe failure; or
 - (c) provided with secondary containment, including bunding, sufficient to contain any spill for a period equal to the time between routine inspections.

Premises operation

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3. The Licence Holder must:
- (a) undertake inspections as detailed in Table 2;
 - (b) where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental consequences as soon as practicable; and
 - (c) maintain a record of all inspections undertaken.

Table 2: Inspection of infrastructure

Scope of inspection	Type of inspection	Frequency of inspection
Dewater pipeline and catch sumps	Visual condition and leak assessment.	Twice daily (at least nine hours between each inspection)
Standpipes and associated tanks		Daily
Lady Gladys Pit	Visual to confirm required freeboard is available.	Daily

4. The Licence Holder must maintain a minimum 10 m embankment freeboard at Lady Gladys Pit and ensure that the facility is designed to hold any inflow received as a result of a 1:100 year, 72-hour duration storm event.

Emissions and discharges

5. The Licence Holder must ensure that the emissions specified in Table 3, are discharged into the environment only from the corresponding discharge point and only at the corresponding discharge point location.

Table 3 : Authorised discharge points

Emission	Discharge point	Discharge point location
Mine dewater	Lady Gladys Pit	As shown in Schedule 1: Maps, Figure 1
	Riverina Pit South	
	Catch sumps (only to empty the pipeline for servicing).	

6. The Licence Holder must ensure that any dewatering effluent used for dust suppression is managed in a manner that minimises damage to surrounding vegetation.

Monitoring

7. The Licence Holder shall ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - (b) all surface water sampling is conducted in accordance with AS/NZS 5667.4 or AS/NZS 5667.6 as relevant;
 - (c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in condition 9; and

- (d) all monitoring equipment used to comply with conditions 8 and 9 is operated and calibrated in accordance with the manufacturer's specifications.
- 8.** The Licence Holder must ensure that:
- (a) monitoring is undertaken in each monthly period such that there are at least 15 days in between the days on which samples are taken in successive months;
 - (b) monitoring is undertaken in each quarterly period such that there are at least 45 days in between the days on which samples are taken in successive quarters.
 - (c) monitoring is undertaken in each annual period such that there are at least 9 months in between the days on which samples are taken in successive years.
- 9.** The licence holder must monitor:
- (a) from each corresponding monitoring location;
 - (b) for the corresponding parameter;
 - (c) in the corresponding unit; and
 - (d) at the corresponding frequency,
- as set out in Table 4.

Table 4 : Monitoring and analytical parameters

Monitoring location	Parameter	Unit	Frequency
Lady Gladys Pit staging tank or Riverina Pit South staging tank	Flow volume ¹	L	Monthly
	pH ¹	N/A	
	Electrical conductivity (EC) ¹	µS/cm	
	TDS ¹	mg/L	
	EC	µS/cm	Quarterly
As shown in Schedule 1: Maps, Figure 1	TDS, Ca, Mg, Na, K, HCO ₃ , Cl, SO ₄ , As, Pb, B, Ba, Co, Cs, Cu, Fe, Li, Mn, Ni and Zn	mg/L	
Lady Gladys Pit Lake	Water level (surveyed) ¹	mbgl; and mAHD or RL	Annually
	pH ¹	N/A	
	EC ¹	µS/cm	
	TDS ¹	mg/L	
	Ca, Mg, Na, K, HCO ₃ , Cl, SO ₄ , As, Pb, B, Ba, Co, Cs, Cu, Fe, Li, Mn, Ni, Zn	mg/L	
As shown in Schedule 1: Maps, Figure 1			

¹ In-field non-NATA accredited analysis permitted using an appropriate instrument.

Records and reporting

- 10.** The Licence Holder must record the following information in relation to complaints received by the Licence Holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

- (a) the name and contact details of the complainant, (if provided);
 - (b) the time and date of the complaint;
 - (c) the complete details of the complaint and any other concerns or other issues raised; and
 - (d) the complete details and dates of any action taken by the Licence Holder to investigate or respond to any complaint.
- 11.** The Licence Holder must:
- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
 - (b) prepare and submit to the CEO by no later than 60 days after the end of that annual period an Annual Audit Compliance Report in the approved form.
- 12.** The Licence Holder must submit to the CEO by no later than 60 days after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Table 5, and which provides information in accordance with the corresponding requirement set out in Table 5.

Table 5: Annual Environmental Report Requirements

Condition	Requirement	Format or form
---	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period, and any actions taken.	None specified.
----	Any relevant process, production or operational data.	None specified.
7	Calibration evidence of instruments used for field parameters (pH, EC and TDS). Instrument model to be included within the report.	None specified.
9	Monitoring results.	A tabulated summary of results, as well as all raw data provided in an accompanying Microsoft Excel spreadsheet digital document/file with all results being clearly referenced to laboratory certificates of analysis. Time series graphs for each monitoring location, showing concentration of all parameters monitored.
10	Complaints summary.	None specified.
N/A	Date on the commencement of dewatering from the Riverina Pit to Lady Gladys Pit and the following dates whenever the flow direction is reversed.	None specified.

- 13.** The Licence Holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:

- (a) the calculation of fees payable in respect of this licence;
- (b) the works conducted in accordance with condition 1 of this licence;
- (c) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;
- (d) monitoring programmes undertaken in accordance with condition 9 of this licence; and
- (e) complaints received under condition 10 of this licence.

14. The books specified under condition 13 must:

- (a) be legible;
- (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
- (c) be retained by the Licence Holder for the duration of the licence; and
- (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this licence, the terms in Table 6 have the meanings defined.

Table 6: Definitions

Term	Definition
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
annual period	a 12-month period commencing from 1 July until 30 June of the immediately following year.
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
EC	means electrical conductivity
emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
mAHD	means metres in relation to the Australian Height Datum.
mbgl	means metres below ground level.

Term	Definition
monthly period	means a one-month period commencing from the first day of a month until the last day of the same month.
NATA	National Association of Testing Authorities
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map Figure 1 in Schedule 1: Maps to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
RL	means Reduced Level.
TDS	means total dissolved solids.
waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map

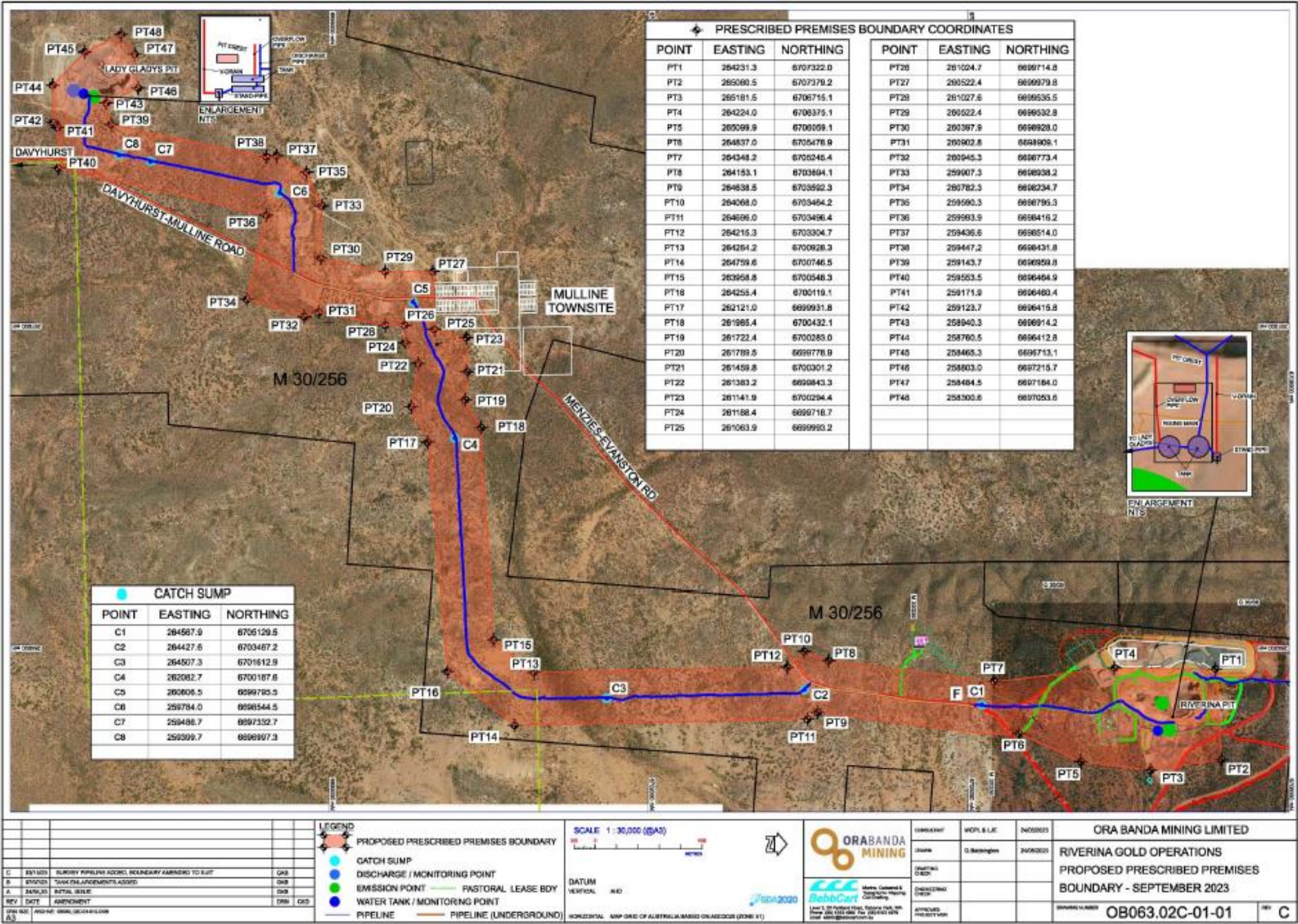


Figure 1: Map of prescribed premise boundary and location of infrastructure

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