



Licence number	L7817/2000/6	
Licence holder	Sand Queen Gold Mines Pty Ltd	
ACN	141 839 287	
Registered business address	Level 1, 672 Murray Street WEST PERTH WA 6005	
DWER file number	2012/006894-1	
Duration	14/10/2013 to	13/10/2028
Date of issue	22 March 2023	
Premises details	Sand Queen Dewatering Project Mining tenements M29/52; M29/233; M29/321 and L29/67 MENZIES WA 6436 As depicted in 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	1,500,000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 22 March 2023, by:

Timothy Moran

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
27/08/2022	W3231/2000/1	Works approval for category 6
14/10/2002	L7817/2000/1	Licence issued
14/10/2003	L7817/2000/2	Licence reissue
14/10/2004	L7817/2000/3	Licence reissue
14/10/2005	L7817/2000/4	Licence reissue
14/10/2008	L7817/2000/5	Licence reissue
14/10/2013	L7817/2000/6	Licence reissue and DER conversion to REFIRE
22/03/2023	L7817/2000/6	Amendment to extend the expiry date to 13 October 2028, revised dewatering monitoring frequency, minor administrative amendments and conversion to contemporary licence format.

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

Premises operation The licence holder must ensure that all pipelines containing environmentally hazardous substances are either:

- a) equipped with automatic cut-outs in the event of a pipeline failure; or
 - b) provided with secondary containment sufficient to contain any spill for a period equal to the time between routine inspections.
- 2 The licence holder must ensure that the pipeline discharge point is at least 300 metres into Lake Goongarrie from the closest point of the lake foreshore.
- 3 The licence holder must undertake inspections as detailed in Table 1 and:
- a) 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
 - b) maintain a record of all inspections undertaken.

Table 1 Infrastructure and equipment requirements

Scope of inspection	Type of inspection	Frequency of inspection
Dewatering pipeline	Visual integrity	Daily when dewatering is in operation

Emissions and discharges

Point source emissions to surface water

- 4 The licence holder must ensure that where waste is emitted to surface water from the emission points in Table 2 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this licence.

Table 2 Emission points to surface water

Emission point reference	Emission point reference on map of emission points	Description	Source including abatement
W1	Lake Goongarrie	Receiving environment saline lake	Mine dewater

- 5 The licence holder must not cause or allow point source emissions to surface water greater than the limits listed in

6 Table 3.

Table 3 Point source emission limits to surface water

Emission point reference	Parameter	Limit ¹ (including units)	Averaging period
W1	Total dissolved solids (TDS)	<300,000 mg/L*	Spot sample
	Total Suspended Solids (TSS)	<30 mg/L	
	Copper	< 0.5 mg/L	
	Arsenic	< 0.5 mg/L	
	Lead	<0.1 mg/L	
	Zinc	< 20 mg/L	
	Mercury	< 0.002 mg/L	
	Weak acid dissociable cyanide	< 0.5 mg/L	

¹Limits derived from the National Water Quality Management Strategy, paper no. 4, Australian and New Zealand guidelines for fresh and marine water quality, volume 1, the guidelines, October 2000

* Based on historical mine dewater emissions data

General monitoring

- 7 The licence holder must 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; and
 - (c) all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured.
- 8 The licence holder must ensure that:
- (a) quarterly monitoring is undertaken at least 45 days apart; and
 - (b) six monthly monitoring is undertaken at least 5 months apart.

Monitoring of point source emissions to surface water

- 9 The licence holder must undertake the monitoring in Table 4 according to the specifications in that table.

Table 4 Monitoring of point source emissions to surface water

Emission point reference	Parameter	Units	Frequency
W1	pH	pH units	Quarterly (December, March, June and
	Total dissolved solids (TDS)	mg/L	

	Total suspended solids (TSS)	mg/L	September) when dewatering is in operation
	Arsenic, copper, lead, mercury, zinc, weak acid dissociable cyanide (WAD-CN)	mg/L	
LG1	Shoreline vegetation photographic monitoring	-	Six monthly (June and December)
LG2	Shoreline vegetation photographic monitoring	-	
LG3	Pipeline discharge photographic monitoring	-	

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 30 October an Annual Audit Compliance Report in the approved form.
- 12 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) any maintenance of infrastructure that is performed in the course of complying with condition 3 of this licence;
 - (c) monitoring programmes undertaken in accordance with condition 9 of this licence; and
 - (d) complaints received under condition 10 of this licence.
- 13 The books specified under condition 12 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.
- 14 The licence holder must submit to the CEO an Environmental Report by no later than

30 October 2023 and then biennially thereafter. The report shall contain the information listed in Table 5 in the format or form specified in that table.

Table 5 Biennial environmental report

Condition or table (if relevant)	Parameter	Format or form
-	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the annual period and any action taken	None specified
11	Compliance	Annual Audit Compliance Report (AACR)
10	Complaints summary	None specified
Table 4	<p>Monitoring of point source emissions to surface water, including:</p> <ul style="list-style-type: none"> • Relevant process, production or operational data recorded under condition 9; • An assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets; and • A list of any original monitoring reports submitted to the licensee from third parties for the annual period and make these reports available on request 	None specified

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 September until 31 August of the immediately following year.
Approved form	means the Annual Audit Compliance Report (AACR) form template approved by the CEO for use and available via DWER's external website.
AS/NZS 5667.1	Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples</i>
AS/NZS 5667.4	Australian Standard AS/NZS 5667.4 <i>Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made</i>
averaging period	The time over which a limit or target is measured or a monitoring result is obtained
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
Condition	a condition to which the licence is subject under section 62 of the <i>Environmental Protection Act 1986</i>
DWER / 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.
emission	has the same meaning given to that term under the EP Act.

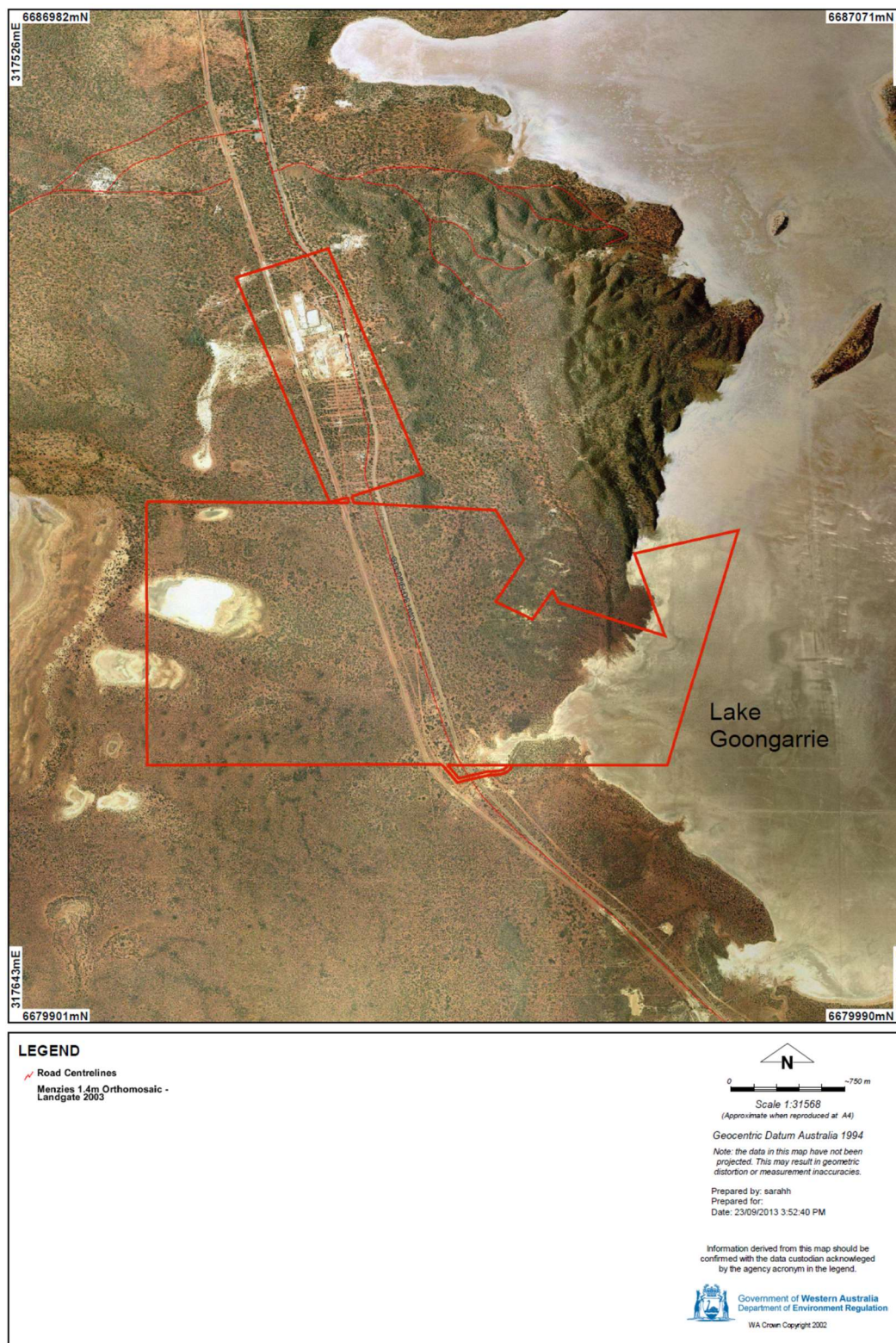
Term	Definition
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
NATA	the National Association of Testing Authorities, Australia
NATA accredited	in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis
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 in Schedule 1 to this licence.
six monthly period	means the 2 inclusive periods from 1 April to 30 September and 1 October to 31 March in the following year
spot sample	a discrete sample representative at the time and place at which the sample is taken

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Error! Reference source not found.).



Map of emission and monitoring points

The locations of the emission and monitoring points defined in Table 2 are shown below (Figure 2).

