



Licence Number	L5946/1988/13
Licence Holder	Kalgoorlie Consolidated Gold Mines Pty Ltd
ACN	009 377 619
Registered business address	Level 1, 388 Hay Street SUBIACO WA 6008
File Number	DER2016/000718-1
Duration	26/09/2014 to 28/09/2029
Date of amendment	5 August 2022
Premises details	Gidji Processing Plant Mining tenements G24/24, G24/25, G24/26, G24/27, G24/28, G24/29, G24/30, G24/31, G24/32 and G24/33 KALGOORLIE WA 6430

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore.	438,000 tonnes per annual period

This Licence is granted to the Licence Holder, subject to the following conditions, on 5 August 2022, by:

Terrel MacGregor
A/MANAGER INDUSTRY REGULATION
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Introduction

This Introduction is not part of the Licence conditions.

DWER's industry licensing role

The Department of Water and Environment Regulation (DWER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DWER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DWER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DWER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DWER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This Licence is issued under Part V of the Act. Conditions contained within the Licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licence Holder the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link:

<http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

The Gidji Processing Plant, located 17 kilometres north of Kalgoorlie-Boulder, treats refractory gold sulphide concentrate produced by the Fimiston mill.

Historically, the sulphide ore was initially roasted to oxidate the sulphide which in turn allowed the fine gold particles to be dissolved once the ore was placed into cyanide solution. In order to reduce gaseous

emissions to air, the site undertook an Emissions Reduction Project under Works Approval W5659/2014/1. This involved the replacement of the two 20 tonne per hour roasters with one 30 tonne per hour Ultrafine Grinding Mill (UFG) to process refractory ore from Fimiston. This is in addition to the existing 10 tonne per hour UFG mill, maintaining the sites 40 tonne per hour processing of refractory ore. The two roasters ceased operating on 26 January 2015 and 5 April 2015, respectively. An amendment in 2016 removed reference to all point source air emissions and associated monitoring requirements. Additionally ambient monitoring requirements in accordance with the *Environmental Protection (Goldfields Residential Areas) (Sulfur Dioxide) Policy 2003* are also no longer relevant to this licence.

The tailings from the cyanide leach and carbon-in-pulp adsorption process is sent to the Gidji Tailings Storage Facilities (TSFs). Currently, two cells are in operation, Gidji II (east) and Gidji II (west). These cells were commissioned in 2012 and 2014, respectively. Associated infrastructure supporting the process plant includes access tracks, borefields (production and monitoring bores), water storage ponds, transfer ponds and seepage interception trench. A decommissioned TSF, Gidji 1 TSF also exists on the premises.

The licences and works approvals issued for the Premises since 1/10/2007 are:

Instrument log		
Instrument	Issued	Description
L5946/1988/10	1 October 2007	Licence re-issue
L5946/1988/11	29 September 2009	Licence re-issue
W4862/2011/1	4 April 2011	Works Approval for Gidji TSF extension
L5946/1988/12	1 December 2011	Licence re-issue and amendment to some condition wording
L5946/1988/12	19 April 2012	Licence amendment due to commissioning of TSF II East Cell
L5946/1988/12	12 June 2014	Licence amendment due to commissioning of TSF II West Cell
W5659/2014/1	26 June 2014	Works Approval for Emissions Reduction Program (install Ultra Fine Grinding (UFG) mill)
L5946/1988/13	26 September 2014	Licence re-issue, conversion to REFIRE format and TSF seepage and groundwater monitoring amendments
L5946/1988/13	4 December 2014	Licence amendment to increase plant throughput capacity from 225,000 tonnes to 351,000 tonnes per annum and to allow for the use of Gidji I TSF.
L5946/1988/13	21 April 2016	Licence amendment to remove metal smelting or refining and the Gidji I TSF for deposition of tailings. The vehicle wash down bay is also removed. The licence has also been amended to extend the duration of the licence in accordance with DER's <i>Guidance Statement on Licence Duration</i> .
L5946/1988/13	5 October 2016	Amendment notice 1: Amended to increase the approved throughput capacity, and remove the requirements for vegetation monitoring and the improvement condition requiring the submission of a dust management plan.
L5946/1988/13	5 August 2022	Amendment to allow the construction and operation of an embankment lift to the Gidji II TSF cells (East and West) and the amalgamation of amendment notices into a single licence document.

Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

END OF INTRODUCTION

Licence conditions

1 General

1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

'Act' means the *Environmental Protection Act 1986*;

'annual' means the inclusive period from 1 January until 31 December in that year;

'AS/NZS 5667.1' means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

'AS/NZS 5667.11' means the Australian Standard AS/NZS 5667.11 *Water Quality – Sampling – Guidance on sampling of groundwaters*;

'averaging period' means the time over which a limit is measured or a monitoring result is obtained;

'CEO' means Chief Executive Officer of the Department of Water and Environment Regulation;

'CEO' for the purpose of correspondence means:

Chief Executive Officer
Department Administering the *Environmental Protection Act 1986*
Locked Bag 33
CLOISTERS SQUARE WA 6850
Email: info@dwer.wa.gov.au

'CN-free' means free cyanide;

'CN-total' means total cyanide;

'CN-WAD' means weak acid dissociable cyanide;

'compliance bores' means those compliance monitoring bores listed in Table 2.2.2 and at the locations depicted in Schedule 1: Maps-Gidji operations monitoring bore location:

'environmentally hazardous material' means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines, Industry, Regulation and Safety;

'freeboard' means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point;

'Licence' means this Licence numbered L5946/1998/13 and issued under the Act;

'Licence Holder' means the person or organisation named as Licence Holder on page 1 of the Licence;

'mm' means millimetre;

'mg/L' means milligrams per litre;

'NATA' means the National Association of Testing Authorities, Australia;

'NATA accredited' means 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' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

'quarterly' means the 4 inclusive periods from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September and 1 October to 31 December in that year;

'Schedule 1' means Schedule 1 of this Licence unless otherwise stated;

'Schedule 2' means Schedule 2 of this Licence unless otherwise stated;

'six monthly' means the 2 inclusive periods from 1 January to 30 June and 1 July to 31 December in that year;

'spot sample' means a discrete sample representative at the time and place at which the sample is taken;

'SWL' means standing water level;

'TSF' means an engineered containment pond or dam used to store tailings, i.e. a tailings storage facility;

'TDS' means total dissolved solids

'usual working day' means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia; and

' μ S/cm' means microsiemens per centimetre.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

1.2 Premises operation

1.2.1 The Licence Holder shall ensure that all pipelines containing environmentally hazardous materials are either:

- (a) equipped with automatic cut-outs in the event of a pipe failure; or

- (b) provided with secondary containment sufficient to contain any spill for a period equal to the time between routine inspections.

1.2.2 The Licence Holder shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.2.2.

Table 1.2.2: Containment infrastructure

Storage vessel or compound and location in map of storage locations in Schedule 1	Material	Requirements
Gidji II TSF East Cell	Tailings	HDPE lined with under drainage layer, netted during tailings deposition Minimum freeboard of 300mm Embankments final crest elevation of RL 364m.
Gidji II TSF West Cell		HDPE lined with under drainage layer, netted during tailings deposition Minimum freeboard of 300mm Embankments final crest elevation of RL 364m.
Production water dam Return water dam	Any substance containing saline, alkaline or cyanide constituents resulting from activities on the Premises	HDPE lined, netted Minimum freeboard of 300mm

1.2.3 The Licence Holder shall:

- (a) undertake inspections as detailed in Table 1.2.3;
 (b) take corrective action to mitigate adverse environmental consequences as soon as practicable, where any inspection identifies that an appropriate level of environmental protection is not being maintained; and
 (c) maintain a record of all inspections undertaken.

Table 1.2.3: Inspection of infrastructure

Scope of inspection	Type of inspection	Frequency of inspection ¹
Tailings pipelines	Visual integrity	Every 6 hours during operations
Return water lines		
Tailings deposition	Visual	
Ponding on the surface of the TSF	Visual to confirm location of the pond	
Freeboard	Visual to confirm required freeboard capacity is available	
External wall of the TSF	Visual integrity	

Note 1: If circumstances at the scheduled time of inspection are identified as immediately hazardous to personnel the inspection should be undertaken as soon as practicable and the reason(s) recorded.

1.2.3 The Licence Holder shall install and maintain groundwater production bores to control the impact of seepage on groundwater levels such that the ambient groundwater water level limit measured in compliance monitoring bores are met.

- 1.2.4 The Licence holder must construct the infrastructure listed in Table 1.2.4, in accordance with:
- (a) the corresponding design and construction requirement; and
 - (b) at the corresponding infrastructure location
- as set out in Table 1.2.4.

Table 1.2.4: Design and construction requirements

Item	Infrastructure	Design and construction requirements	Infrastructure location
1.	Upstream embankment raise to the Gidji II TSF West Cell	Embankment raise to be constructed in accordance with design drawings titled 'General Arrangement' and 'Sections' within Schedule 1.	Gidji II West Cell shown within 'Map of storage locations' in Schedule 1.
2.	Upstream embankment raise to the Gidji II TSF East Cell	Embankment constructed to a maximum final crest elevation of RL 364m. Designed to allow the cell to be fully netted to prevent fauna access to the supernatant pond Designed to allow a 0.5 m freeboard above the 1:100 annual recurrence interval 75-hour rainfall event to be maintained. A geomembrane liner is to be extended on the raise to the elevation (RL 363m) of the maximum operating pond elevation (20% of the total cell area). The geomembrane liner is to have an equivalent hydraulic conductivity of 1×10^{-11} m/s	Gidji II East Cell shown within 'Map of storage locations' in Schedule 1.

- 1.2.5 The Licence Holder must within 30 days of each item of infrastructure required by condition 1.2.4 being constructed:
- (a) undertake an audit of their compliance with the requirements of condition 1.2.4; and
 - (b) prepare and submit to the CEO a construction compliance report on that compliance.
- 1.2.6 The report required by condition 1.2.5, must:
- (a) be certified by a suitably qualified professional engineer that each item of infrastructure listed in Table 1.2.4 meets the corresponding specifications set out in Table 1.2.4 and has been constructed with no material defects;
 - (b) include as constructed plans for each item of infrastructure or component of infrastructure specified in condition 1.2.4; and
 - (c) be signed by a person authorised to represent the licence holder and contains the printed name and position of that person within the company.

2 Monitoring

2.1 General monitoring

- 2.1.1 The Licence Holder shall ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - (b) all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and

- (c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.

2.1.2 The Licence Holder shall ensure that:

- (a) quarterly monitoring is undertaken at least 45 days apart;
 (b) six monthly monitoring is undertaken at least 5 months apart; and
 (c) annual monitoring is undertaken at least 9 months apart.

2.1.3 The Licence Holder shall ensure that all monitoring equipment used on the Premises complies with the conditions of this Licence and is calibrated in accordance with the manufacturer's specifications or any relevant and effective internal management system.

2.1.4 The Licence Holder shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

2.2 Ambient environmental quality monitoring

2.2.1 The Licence Holder shall undertake monitoring in Table 2.2.2 according to the specifications in that table.

Table 2.2.2: Monitoring of ambient groundwater quality

Monitoring point reference and location on map of groundwater monitoring locations in Schedule 1	Parameter	Limit	Units	Averaging period	Frequency
Gidji Trench, Gidji Return Dam	pH ¹	-	-	Spot sample	Annually
	Electrical conductivity ¹		µS/cm		
	TDS		mg/L		Annually
	CN-free				
	CN-WAD				
CN- total					
Compliance Monitoring bores MBR7, MBR8, MBR13- MBR15, MBR19-MBR28, MBR34	Standing water level (SWL) ¹	4	mbgl	Spot sample	Quarterly
	pH ¹	-	-		Six monthly
	Electrical conductivity ¹		µS/cm		
	TDS		mg/L		Annually
	CN-free				
	CN-WAD				
CN- total					
Operational area monitoring bores MBR1-MBR3, MBR6d, MBR6s, MBR9, MBR10, MBR12, MBR16, MBR29, MBR30, MBR32, MBR33	Standing water level (SWL) ¹	-	mbgl	Spot sample	Quarterly
	pH ¹		-		
	Electrical conductivity ¹		µS/cm		Six monthly
	TDS		mg/L		Annually
	CN-free				
	CN-WAD				
	CN- total				

Note 1: In-field non-NATA accredited sampling permitted

3 Information

3.1 Records

- 3.1.1 All information and records required by the Licence shall:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) except for records listed in 3.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
 - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 3.1.2 The Licence Holder shall complete an Annual Audit Compliance Report indicating the extent to which the Licence Holder has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.
- 3.1.3 The Licence Holder shall implement a complaints management system that as a minimum, records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

3.2 Reporting

- 3.2.1 The Licence Holder shall submit to the CEO an Annual Environmental Report by 31 March after the end of the annual period. The report shall contain the information listed in Table 3.2.1 in the format or form specified in that table.

Table 3.2.1: Annual Environmental Report

Condition or table	Parameter	Format or form ¹
	Summary of any failure or malfunction of any pollution control equipment that has resulted in any reportable environmental incidents that have occurred during the annual period and any action taken	None specified
3.1.2	Compliance	Annual Audit Compliance Report (AACR)
3.1.3	Complaints summary	None specified
Table 3.2.2	Reference non annual reporting data and provide a summary of the key findings and recommendations	
Table 3.3.1	Summary of any saline, alkaline or cyanide constituent spills greater than 5000L that escaped from pipeline bunding	

Note 1: AACR form found on the department's website.

- 3.2.2 The Licence Holder shall ensure that the Annual Environmental Report also contains an assessment of the information contained within the report against previous monitoring results.

3.2.3 The Licence Holder shall submit the information in Table 3.2.2 to the CEO according to the specifications in that table.

Table 3.2.2: Non-annual reporting requirements

Condition or table	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form
2.1.3	Calibration	Available on request	14 calendar days	None specified
-	Copies of original monitoring reports submitted to the Licence Holder by third parties	Not Applicable	Within 14 days of the CEO's request	As received by the Licence Holder from third parties
Table 2.2.2	Groundwater monitoring including summary of any limit exceedances	Quarterly	46 calendar days	None specified

3.3 Notification

3.3.1 The Licence Holder shall ensure that the parameters listed in Table 3.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 3.3.1: Notification requirements

Condition or table	Parameter	Notification requirement ¹	Format or form ²
-	Any spills of environmentally hazardous materials greater than 250L occurring in locations that may adversely impact on the environment	As soon as practicable but no later than 5pm of the next usual working day	None specified
-	Any liquid spills greater than 5000L containing saline, alkaline or cyanide constituents that escape from overland pipeline bunding		
2.1.1	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable	N1
2.1.4	Calibration report	As soon as practicable.	None specified

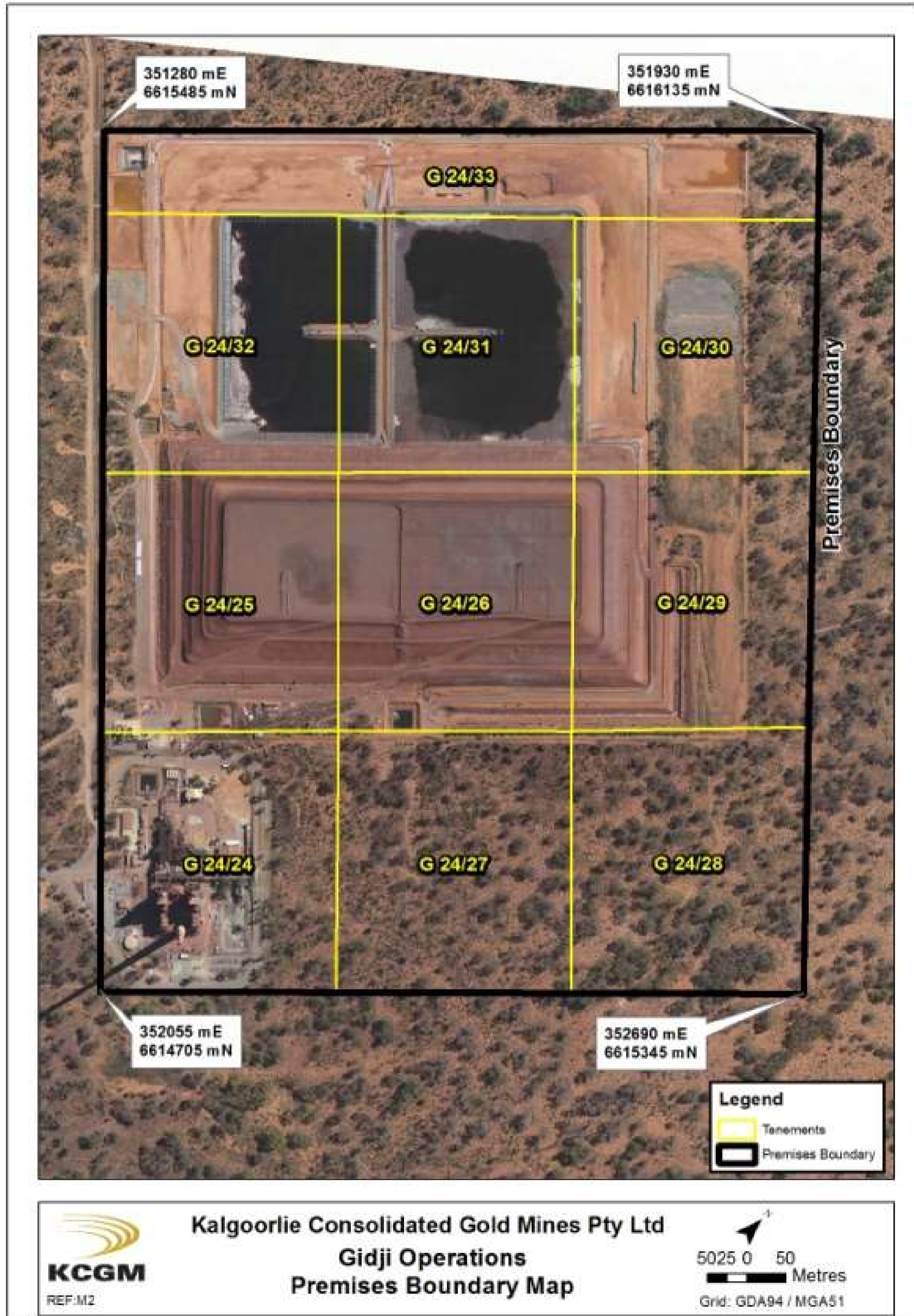
Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

Note 2: Form N1 is located in Schedule 2

Schedule 1: Maps

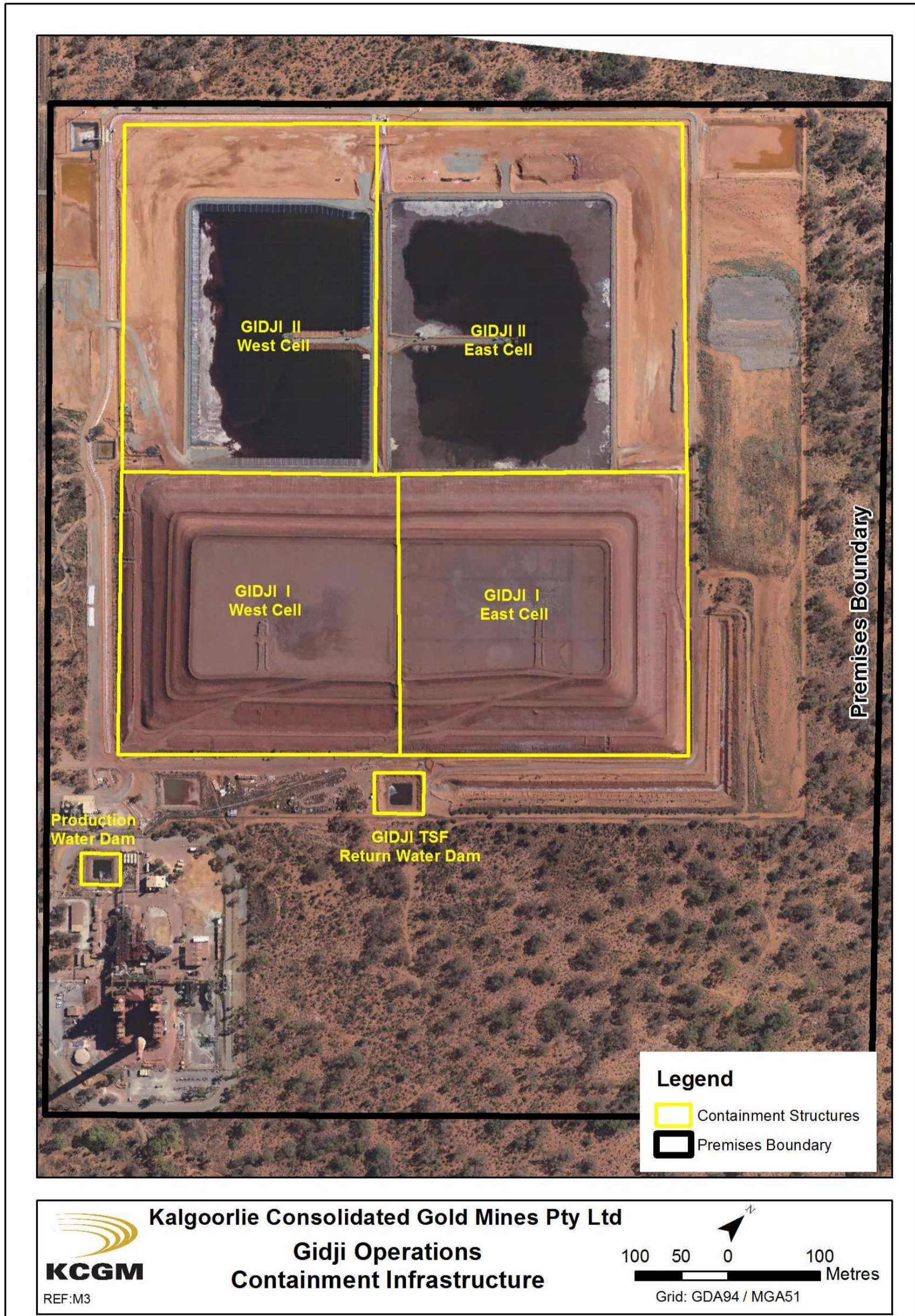
Premises map

The Premises are shown in the map below. The black line depicts the Premises boundary.



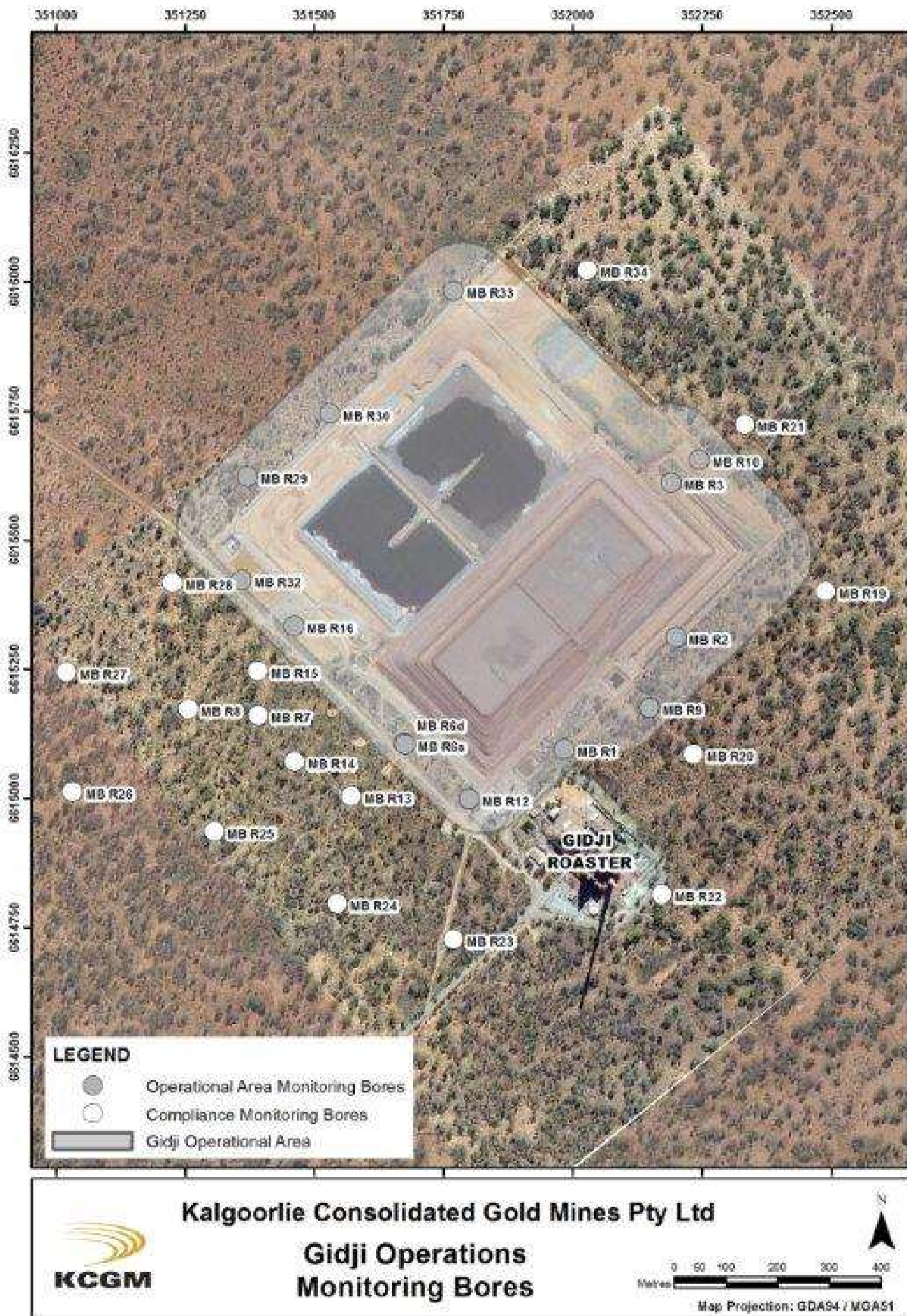
Map of storage locations

Storage locations as defined in Tables 1.3.2 are shown below. Gidji I TSF has been decommissioned.

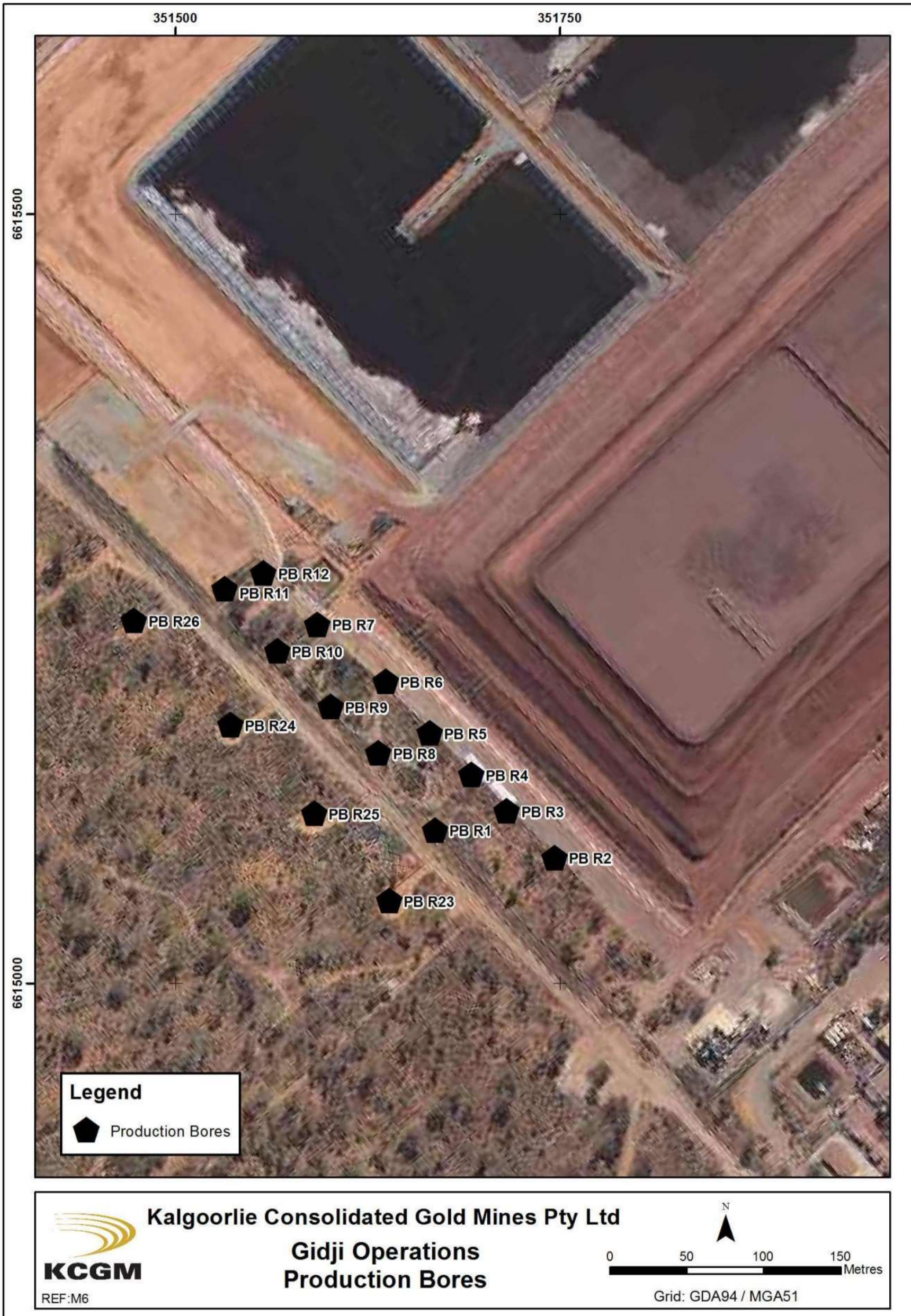


Map of groundwater monitoring locations

The locations of the monitoring points defined in Table 2.2.2 are shown below.

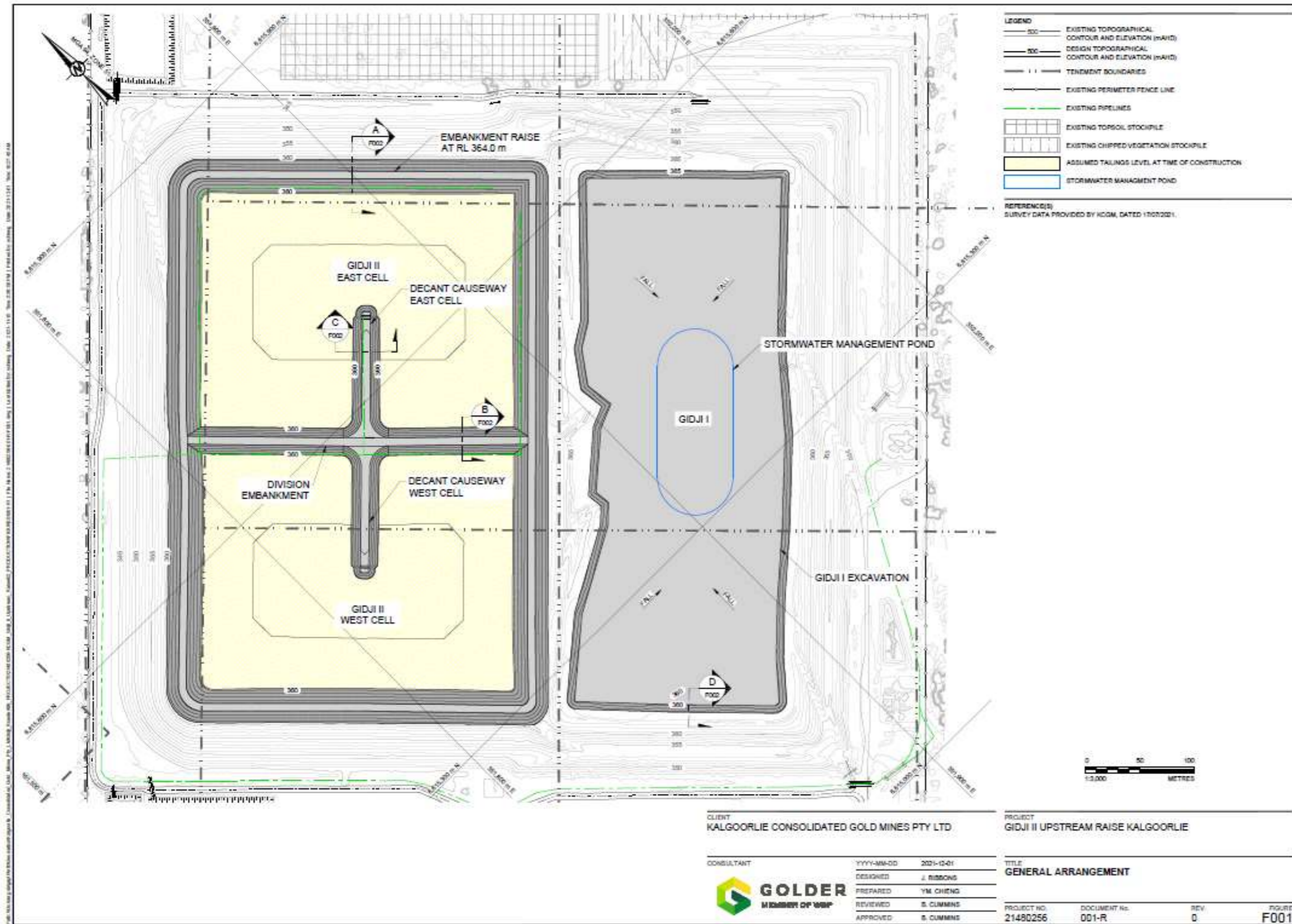


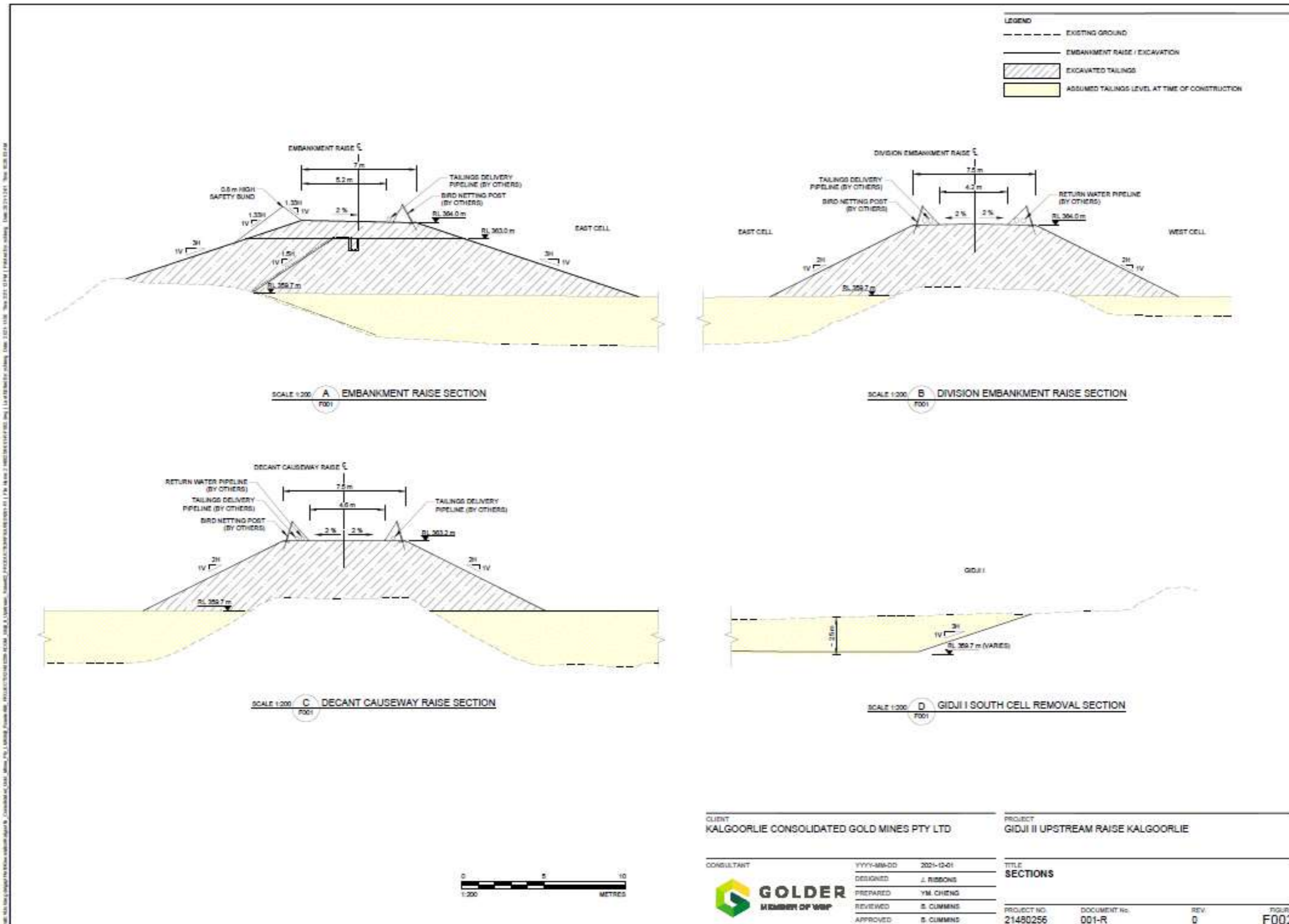
Map of groundwater production bores



Gidji II TSF embankment raise design drawings

Drawings referenced within condition 1.2.4.





Schedule 2: Reporting & notification forms

Licence: L5946/1988/13 Licence Holder: Kalgoorlie Consolidated Gold Mines Pty Ltd
 Form: N1 Date of breach:

Notification of detection of the breach of a limit

These pages outline the information that the operator must provide. Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Kalgoorlie Consolidated Gold Mines Pty Ltd	
Date	