



Licence number	L9124/2018/1
Licence holder	Lakewood Mining Pty Ltd
ACN	659 952 066
Registered business address	15 - 17 Altona Street WEST PERTH 6005
DWER file number	DER2018/000472-1
Duration	21/05/2020 to 20/05/2030
Date of transfer	5 September 2022
Premises details	Lakewood Gold Processing Facility Mining Tenements M26/242 and M26/367 Mount Monger Road LAKEWOOD WA 6431 As defined in Schedule 2

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 5: Processing or beneficiation of ore	900,000 tonnes per annual period
Category 61: Liquid Waste Facility	1,300 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 5 September 2022, by:

Tanya Fyfe

A/SENIOR ENVIRONMENTAL OFFICER, INDUSTRY REGULATION

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

Licence history

Instrument Log		
Instrument	Issued	Description
L8298/2008/1	06/11/2008	New application.
W4561/2009/1	10/09/2009	Works Approval for new Tailings Storage Facility
W5012/2011/1	08/09/2011	Works Approval for mill upgrade
L8298/2008/2	03/11/2011	Licence reissue.
W5487/2013/1	09/09/2013	Works Approval for new Tailings Storage Facility (TSF2)
L8298/2008/3	30/10/2014	Licence reissue in new format with addition of category 61.
L8298/2008/3	22/10/2015	Transfer of licence to Golden Mile Milling Pty Ltd.
L8298/2008/3	2018	Licence ceased to have effect on non-payment.
L9124/2018/1	21/05/2018	Replacement licence issued for ceased licence L8298/2008/3.
L9124/2018/1	22/03/2019	Amendment Notice 1 (AN1) Licence amendment to install a carbon stripping circuit; Commissioning and improvement conditions IR1, IR2 and IR3 relating to changes to water management at the tailings storage facility.
L9124/2018/1	16/04/2020	Removal of improvement requirement (IR1 of condition 4.1, Table 4.1) to achieve a water recovery rate of 60% for TSF1. This requirement is removed from the licence. IR 3 is also removed as it duplicates requirements of DMIRS. Consolidation of licence with amendment notice.
L9124/2018/1	09/10/2020	Amendment to reflect the new groundwater monitoring well network and groundwater recovery bore system.
L9124/2018/1	05/09/2022	Licence transfer from Golden Mile Milling Pty Ltd to Lakewood Mining Pty Ltd Updates to formatting including removal of introductory text. Refer to the Industry Regulation Guide to Licencing for current information on the Part V licencing process.

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 Audit Compliance Report’ means a compliance report in the form approved by the CEO and published on the DWER website;

‘annual period’ means the inclusive period from 1 October until 30 September in the following 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 5667.10’ means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*;

‘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 or target is measured or a monitoring result is obtained;

‘CEO’ means Chief Executive Officer of the Department of Water and Environmental Regulation;

‘CEO’ for the purpose of correspondence means;

Chief Executive Officer

Department Administering the *Environmental Protection Act 1986*

Locked Bag 10

JOONDALUP DC WA 6919

Telephone: (08) 6367 7000

Facsimile: (08) 6367 7001

Email: info@dwer.wa.gov.au

‘controlled waste’ has the definition in *Environmental Protection (Controlled Waste) Regulations 2004*;

‘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 L9124/2018/1 and issued under the Act;

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

‘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 October to 31 December and in the following year, 1 January to 31 March, 1 April to 30 June, 1 July to 30 September;

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

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

'Schedule 3' means Schedule 3 of this Licence unless otherwise stated;

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

'µS/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.

1.1.5 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:

- (a) pollution;
- (b) unreasonable emission;
- (c) discharge of waste in circumstances likely to cause pollution; or
- (d) being contrary to any written law.

1.2 General conditions

1.2.1 The Licence Holder shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.

1.2.2 The Licence Holder shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.3 The Licence Holder shall:

- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
- (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.¹

Note 1: *The Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.

1.3 Premises operation

1.3.1 The Licence Holder shall ensure that all pipelines containing environmentally hazardous substances are either:

- (a) equipped with telemetry systems and pressure sensors along pipelines to allow the detection of leaks and failures;
- (b) equipped with automatic cut-outs in the event of a pipe failure; or

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

1.3.2 The Licence Holder shall ensure that tailings are only discharged into containment cells with the relevant infrastructure requirements and at the locations specified in Table 1.3.1.

Table 1.3.1: Containment infrastructure			
Containment point reference	Containment cell or dam number (s)	Material	Infrastructure requirements
C1	TSF Western Cell	Tailings	Constructed and operated in accordance with the document titled 'Proposed Extension to Tailings Storage Facility, Lakewood Gold Processing Facility MINING PROPOSAL' Coffey Mining, 22 June 2009. A minimum top of embankment freeboard of 300 mm or a 1 in 100 year/72 hour storm event (whichever is greater) is maintained. Methods of operation minimise the likelihood of erosion of the embankments by wave action.
C2	TSF Eastern Cell		
C3	TSF Cell No.1		Constructed and operated in accordance with the document titled 'Additional Embankment Tailings of Tailings Storage Facility 1, Lakewood Mill Mining Proposal, Silver Lake Resources Ltd', Coffey Mining, 20 December 2007.
C4	Liquid Waste Facility	Controlled waste	Lined with 1mm HDPE to achieve a permeability of at least $<10^{-9}$ m/s or equivalent.

1.3.3 The Licence Holder shall:

- undertake inspections as detailed in Table 1.3.2;
- 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
- maintain a record of all inspections undertaken.

Table 1.3.2: Inspection of infrastructure		
Scope of inspection	Type of inspection	Frequency of inspection
Tailings pipelines	Visual integrity	Daily
Return water lines		
Embankment freeboards of containment infrastructure listed in Table 1.	Visual to confirm required freeboard capacity is available	

1.3.4 The Licence Holder shall manage and maintain an internal toe drain and earthen bunds along the perimeter embankments of the tailings storage facility, which shall be used to collect and recover any liquid matter resulting from seepage or breach of the embankments.

1.3.5 The Licence Holder shall only allow waste to be accepted on to the Premises if:

- it is of a type listed in Table 1.3.3; and

- b) the quantity accepted is below any limit listed in Table 1.3.3; and
- c) it meets any specification listed in Table 1.3.3.

Table 1.3.3: Waste acceptance			
Waste	Waste Code	Quality Limit	Specification¹
Planting and Heat Treatment			
Cyanides (inorganic)	A130	100,000 L/annual period	Accepted by truck in liquid form and directed to a sump located in the cyclone feed floor.
Industrial Wash Water			
Industrial wash water contaminated with controlled waste	L150	3,500,000 L/annual period	Accepted by truck in liquid form and directed to a sump located in the cyclone feed floor.

Note 1: Additional requirements for the acceptance of controlled waste are set out in the Environmental Protection (Controlled Waste) Regulations 2004.

- 1.3.6 The Licence Holder shall ensure that the wastes accepted onto the Premises are only subjected to the process(es) set out in Table 1.3.4 and in accordance with any process requirements described in that table.

Table 1.3.4 Waste processing		
Waste type	Process	Process requirements
Cyanides (inorganic) and Industrial wash water contaminated with a controlled waste.	Receipt, handling and temporary storage prior to processing in the carbon in leach circuit as identified in Schedule 1, Figure 3.	Waste must be stored and processed in a manner that prevents incompatible wastes mixing.

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;
- 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 the relevant table.

- 2.1.2 The Licence Holder shall ensure that:

- a) monthly monitoring is undertaken at least 15 days apart; and
- b) quarterly monitoring is undertaken at least 45 days apart.

2.2 Monitoring of inputs and outputs

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

Table 2.2.1: Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Waste Inputs	Liquid waste	Litres	N/A	Each batch arriving at premises

2.3 Process monitoring

2.3.1 The Licence Holder shall undertake the monitoring in Table 2.3.1 according to the specifications in that table.

Table 2.3.1: Process monitoring				
Monitoring point reference	Parameter	Units	Frequency	Method
TSF Western Cell	Volumes of tailings deposited into the TSF	m ³	Continuous	None specified
TSF Eastern Cell				
TSF Cell No.1				

2.4 Ambient environmental quality monitoring

2.4.1 The Licence Holder shall undertake the monitoring in Table 2.4.1 according to the specifications in that table and record and investigate results that do not meet any target specified.

Table 2.4.1: Monitoring of ambient groundwater quality					
Monitoring point reference and location	Parameter	Limit	Units	Averaging period	Frequency
Monitor Bores as shown in Schedule 1, Figure 2: Map of Monitoring Locations CMB1: Screen intervals CMB1 (1) and CMB1 (2a) CMB2 CMB3 CMB4: Screen intervals CMB4 (1), CMB4 (2a), CMB4(3) and CMB4 (4) CMB5 CMB6: Screen intervals CMB6 (1) and CMB6 (2a) CMB7 CMB8: Screen intervals CMB8 (1), CMB8 (2a) and CMB8 (2b)	Standing water level (SWL) ¹	-	mbgl	Spot sample	Monthly
	pH		-		Quarterly
	Total dissolved solids (TDS)		mg/L		
	Electrical conductivity		µS/cm		
	Arsenic		mg/L		
	Cadmium				
	Chromium				
	Copper				
	Lead				
	Nickel				
	Zinc				
	Total cyanide				
	Weak acid dissociable cyanide (WAD cyanide)		0.5mg/L		

Note 1: SWL shall be determined prior to collection of other water samples.

2.4.2 Where monitoring results indicate groundwater contamination has occurred exceeding the requirements of condition 2.4.1, the Licence Holder shall operate the groundwater recovery bore system (TSF1 to TSF10 as shown in Figure 2 of Schedule 1: Maps). Groundwater recovery shall continue until groundwater monitoring results indicate that compliance with condition 2.4.1 has been achieved.

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 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 ensure that:

- a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
- b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.

3.1.3 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 EP Act for the Premises for the previous annual period. This shall be submitted to the CEO by 1 December following the end of each annual period.

3.1.4 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 Environmental Report by 1 December 2023 and biennially thereafter. The report shall contain the information listed in Table 3.2.1 in the format or form specified in that table, for the preceding two annual periods.

Table 3.2.1: Environmental report		
Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken.	None specified
Table 2.4.1	Monitoring of ambient groundwater quality	None specified
3.1.4	Complaints summary	None specified

3.2.2 The Licence Holder shall ensure that the Environmental Report also contains:

- a) any relevant process, production or operational data;

- b) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.

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 (if relevant)	Parameter	Notification requirement ¹	Format or form ²
2.1.1	Breach of any limit specified in the Licence ¹	Part A: As soon as practicable, but no later than 5pm of the next usual working day. Part B: As soon as practicable.	N1

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

Note 2: Form is in Schedule 2.

4 Improvements

4.1 Improvement program

4.1.1 The Licence Holder shall complete the improvements in Table 4.1 by the date of completion in table 4.1.

4.1.2 The Licence Holder, for improvements not specifically requiring a written submission, shall write to the CEO stating whether and how the Licence Holder is compliant with the improvement within one week of the completion date specified in Table 4.1.

Table 4.1 Improvement program		
Improvement reference	Improvement	Date of completion
IR1	The Licence Holder shall record the water balance for the site and report to the CEO on a quarterly basis.	Ongoing from the amendment date.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).



Figure 1: Map of the boundary of the prescribed premises

Map of Monitoring Locations

The locations of the monitoring points defined in Table 2.4.1 are shown below in Figure 2.

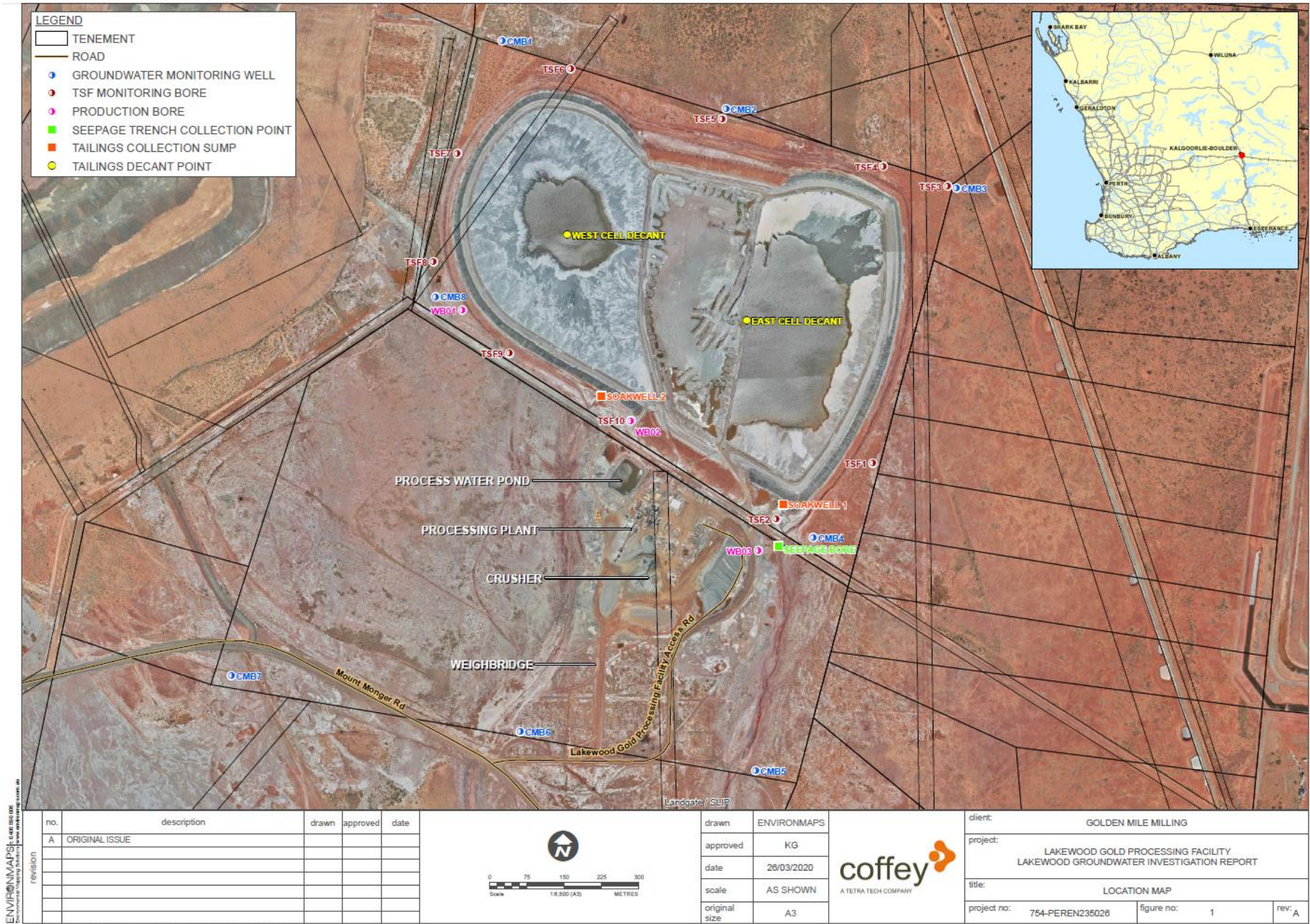


Figure 2: Location of groundwater monitoring wells and groundwater recovery bore system

Carbon Stripping Circuit

The carbon stripping circuit is shown below in Figure 3.

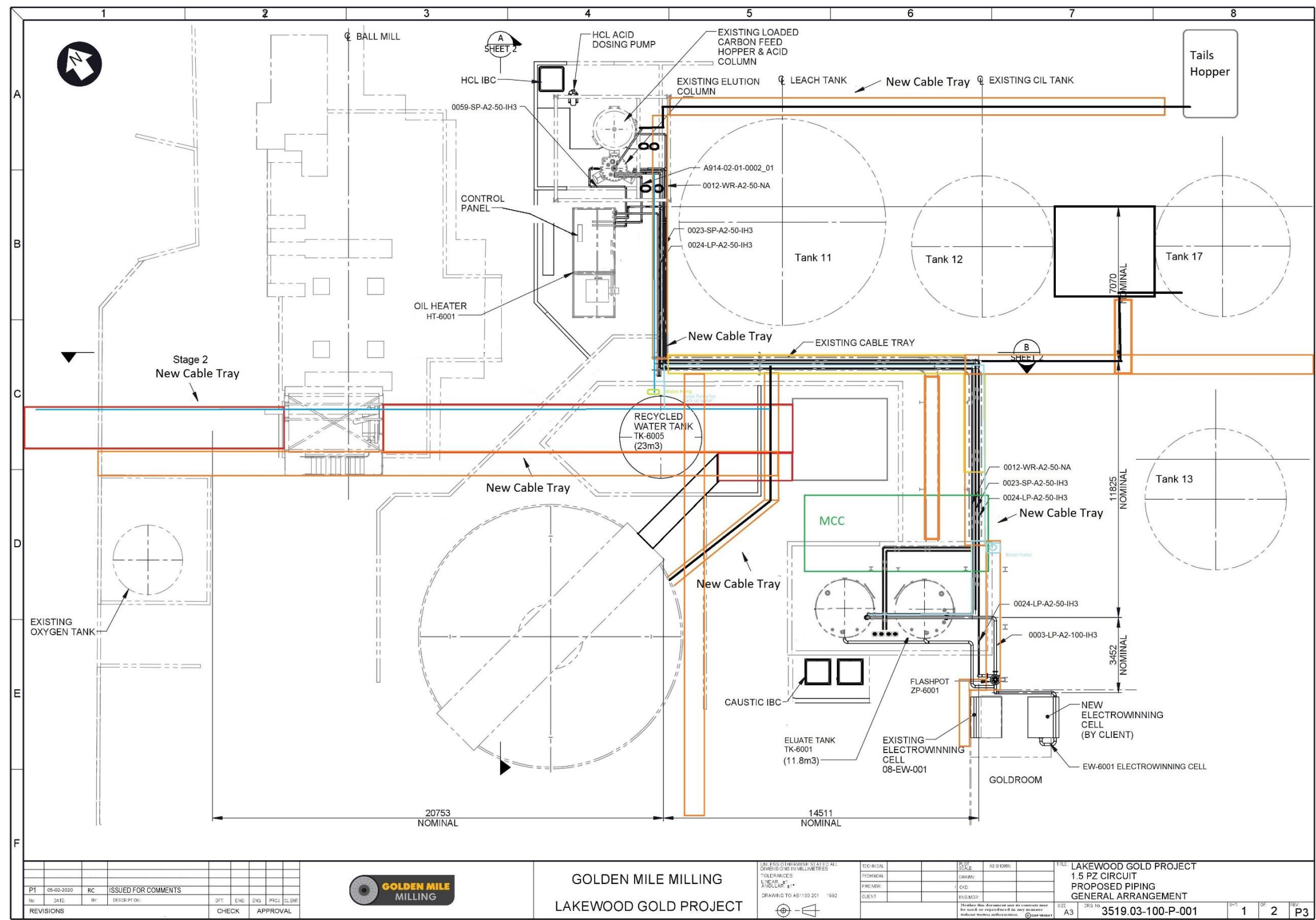


Figure 3: Map of Carbon Stripping Circuit

Schedule 2: Prescribed Premises Categories

The Premises prescribed categories under schedule 1 of Environmental Protection Regulation 1987.

Table 2: Prescribed Premises categories

Category number	Category Description	Category production or design capacity	Approved Premises production or design capacity
5	Processing or beneficiation of metallic or non metallic ore: premises on which – 4.2 Metallic or non-metallic ore is crushed, ground, milled or otherwise processed; 4.3 Tailings from metallic or non-metallic ore are reprocessed; or 4.4 Tailings or residue from metallic or non metallic ore are discharged into a containment cell or dam.	50,000 tonnes or more per year	900,000 tonnes per annual period
61	Liquid waste facility: premises on which liquid waste produced on others premises (other than sewage waste) is stored, reprocessed, treated or irrigated.	100 tonnes or more per year	1,300 tonnes per annual period

Schedule 3: Notification and Forms

Licence: L9124/2018/1

License Holder: Lakewood Mining 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	
Description of the failure or accident	
Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution	
Date and time of event	
Reference or description of the location of the event	
Description of where any	

release into the environment took place	
Substances potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident	

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 Lakewood Mining Pty Ltd	
Date	