



<b>Licence number</b>	L9190/2019/2
<b>Licence holder</b>	Kundana Gold Pty Ltd
<b>ACN</b>	009 643 252
<b>Registered business address</b>	Level 1, 388 Hay St SUBIACO WA 6008
<b>DWER file number</b>	DER2019/000056
<b>Duration</b>	29/01/2021 to 29/01/2041
<b>Date of issue</b>	7 January 2021
<b>Premises details</b>	Kundana Gold Mine  Mining tenements M16/72, M16/73, M16/87, M16/97, M16/157, M16/308, M16/309, M15/669, M15/993, M16/428, M24/924, L16/39, L16/105 and L16/106  KALGOORLIE WA 6430

<b>Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)</b>	<b>Assessed production capacity</b>
Category 5: Processing or beneficiation of metallic or non-metallic ore: premises on which: (a) Metallic or non-metallic ore is crushed, ground, milled or otherwise processed; or (b) Tailings from metallic or non-metallic ore are reprocessed; or (c) Tailings ore residue from metallic or non-metallic ore are discharged into a containment cell or dam.	850,000 tonnes per year
Category 6: Mine dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	12,000,000 tonnes per annual period
Category 12: Screening etc. of material; premises (other than premises within category 5 or 8) on which material extracted from the ground is screened, washed, crushed, ground, milled, sized or separated.	500,000 tonnes per year
Category 52: Electric power generation: premises on which electrical power is generated use a fuel.	15.65 MW
Category 89: Putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer, as amended from time to time) is accepted for burial.	5,000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 7 January 2021,  
by:

**Terrel MacGregor**

**A/MANAGER – RESOURCE INDUSTRIES**

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

## Licence history

Date	Reference number	Summary of changes
05/01/2004	L7323/1998/7	Licence re-issue
24/05/2004	W3973/1998/1	Category 6 and 64 works approval
13/01/2005	L7323/1998/8	Licence re-issue
18/03/2005	W4101/1998/1	Category 6 and 64 works approval
11/01/2006	L7323/1998/9	Licence re-issue
02/11/2009	L7323/1998/10	Licence re-issue
06/01/2011	L7323/1998/11	Licence re-issue
19/12/2013	L7323/1998/12	Licence re-issue and amendment to current format
08/01/2015	L7323/1998/12	Licence amended for administrative errors
26/11/2015	L7323/1998/12	Licence amended to include new landfill cell
15/12/2016	L7323/1998/12	Amendment Notice 1 – to amend the premises address and to include new dewatering discharge points
05/05/2017	L7323/1998/12	Amendment Notice 2 – to include the construction of the Millennium landfill cell.
17/11/2017	L7323/1998/12	Amendment Notice 3 – to include category 52, confirm Millennium landfill compliance report and include operational conditions.
05/02/2018	L7323/1998/12	Amendment Notice 4 – to include categories 5 and 12 to the Licence and permit crushing and screening of ore to a rate of 850 000 tpa and crushing and screening of waste rock at a rate up to 500 000 tpa.
31/01/2019	L9190/2019/1	New licence to replace L7323/1998/12. No new risk assessment has been carried out.
1/7/2021	L9190/2019/2	Administrative licence renewal. No further environmental assessment carried out. Administrative changes incorporated into licence.

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## 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 works with the business owners, community, consultants, industry and other representatives 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: <https://www.legislation.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**

Kundana Gold Pty Ltd (Kundana) is a gold mining company with its primary business purpose being the mining of gold ore from open pits and underground mines. The site is a prescribed premise due to the following activities:

- Mine dewatering operations, with discharge into various void pits and to White Flag Lake;
- Crushing and screening to pre-treat ore prior to transport offsite for processing and to use process waste rock into road base;
- Electric power generation; and
- Putrescible landfill

Prior to 2004, Kundana operated a gold mill which was licenced under category 5 of the *Environmental Protection Regulations 1987*. In March 2004, the mill was placed in care and maintenance and consequently the category was removed from the licence. Monitoring of groundwater, however, is still on the licence in relation to inactive tailings storage facilities (TSF) 1, 2 and 3.

Mine dewater is pumped via pipelines from the Kundana mining operations and the Mungari Gold Projects. The mine dewater is generally hypersaline at > 100,000 mg/L total dissolved solids (TDS) and is either reused in mining and ancillary operations, stored in pits, or the transfer dam prior to being discharged to White Flag Lake.

The White Flag Lake Water transfer system has been designed to facilitate flexibility with regards to dewatering activities associated with the Kundana and Mungari operations.

### **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. 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:

**‘AACR’** means Annual Audit Compliance Report, the template of which can be found on the DWER’s website [www.dwer.wa.gov.au](http://www.dwer.wa.gov.au)

**‘Act’** means the *Environmental Protection Act 1986*;

**‘annual period’** means the inclusive period from 1 January until 31 December in the same 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 5667.4’** means the Australian Standard AS/NZS 5667.4 *Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made*;

**‘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 Environment Regulation;

**‘CEO’** for the purpose of correspondence means;

Director General

Department Administering the Environmental Protection Act 1986

Locked Bag 10 JOONDALUP DC WA 6027

[info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au)

**‘Delegated Officer’** means an officer under section 20 of the EP Act

**‘Department’** means the department established under section 52 of the Public Sector Management Act 1994 and designation as responsible for the administration of Part V, Division 3 of the EP Act;

**‘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 and Petroleum;

**‘Licence’** means this Licence numbered L9190/2019/1 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;

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**‘Schedule 1’** means Schedule 1 of this Licence unless otherwise stated; and

**‘Schedule 2’** means Schedule 2 of this Licence unless otherwise stated.

- 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.<sup>1</sup>

*Note1: 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 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.
- 1.3.2 The Licence Holder shall ensure that any saline dewatering effluent shall only be disposed of in the following manner:
  - (a) used for dust suppression; or
  - (b) discharged in accordance with the conditions in section 2 of this Licence.

- 1.3.3 The Licence Holder shall undertake an annual assessment of dewatering discharge and shall provide a dewatering discharge report to the CEO. This report shall show the impacts of the mine dewatering discharges to the receiving environment, consistent with the requirements specified in Schedule 2. This report will accompany the Annual Environmental Report and will cover the previous 12 month period from 1 January to 31 December.
- 1.3.4 The Licence Holder shall:
- (a) undertake inspections as detailed in Table 1.3.1;
  - (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 1.3.1: Inspection of infrastructure**

Scope of inspection	Type of inspection	Frequency of inspection
Dewatering pipelines	Visual integrity	Daily

- 1.3.5 The Licence Holder shall only accept waste at the Raleigh, Rubicon or Millennium landfills if:
- (a) it is of a type listed in Table 1.3.2;
  - (b) the quantity accepted is below any quantity limit listed in Table 1.3.2; and
  - (c) it meets any specification listed in Table 1.3.2.

**Table 1.3.2: Waste acceptance**

Waste type	Quantity limit	Specification <sup>1</sup>
Inert Waste Type 1; Inert Waste Type 2; Putrescible waste; or Clean fill	5 000 tonnes per annual period	None specified

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

- 1.3.6 The Licence Holder shall ensure that wastes accepted onto the landfill are only subjected to the processes set out in Table 1.3.3 and in accordance with any process limits described in that Table.

**Table 1.3.3: Waste processing**

Waste type	Processes	Process limits <sup>1, 2</sup>
Inert Waste Type 1 and 2	Receipt, handling and disposal of waste by	<u>All waste types</u> Disposal of waste by landfilling shall only take place within the landfill areas shown on the Landfill Area Map in Schedule 1;
Putrescible waste		



Clean Fill	landfilling	The size of the tipping area is kept to a maximum length of 30 metres; and  The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2m.
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Note 1: Requirements for landfilling tyres are set out in Part 6 of the Environmental Protection Regulations 1987.

Note 2: Additional requirements for the acceptance and landfilling of controlled waste (including asbestos and tyres) are set out in the Environmental Protection (Controlled Waste) Regulations 2004.

- 1.3.7 The Licence Holder shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 1.3.4 and that sufficient stockpiles of cover are maintained on site at all times.

Table 1.3.4: Cover requirements <sup>1</sup>			
Waste type	Material	Depth	Timescales
All wastes described in Table 1.3.6	Type 1 Inert waste or soil	Sufficient to ensure the waste is completely covered and that no waste is exposed	Cover shall be applied monthly

Note 1: Additional requirements for the covering of tyres are set out in Part 6 of the Environmental Protection Regulations 1987.

- 1.3.8 The Licence Holder shall ensure that wind-blown waste is contained within the boundary of the premises.
- 1.3.9 The Licence Holder shall ensure that each item of infrastructure or equipment specified in column 1 of Table 1.3.6 is designed and constructed in accordance with the requirements specified in column 2 of Table 1.3.6.

Table 1.3.6: Infrastructure Requirements	
Column 1	Column 2
Infrastructure	Requirements (design and construction)
Dewatering pipelines	Located within bunded corridors
	All joins to be undertaken by a licenced and qualified polywelder
	All pipelines to be installed in accordance with AS4130 and the Plastics Industry Pipe Association of Australia Limited (PIPA) Guidelines POP003.
Millennium, Raleigh and Rubicon landfill	Tipping area of trench to be kept to a maximum length of 30 metres
	Located within the Raleigh, Rubicon Millennium waste rock dumps
	All tyres shall be disposed by burial in separate landfill cell to other wastes.
Kundana Power stations	Installation and commission three new (1.95MW) diesel fired generators to manufacturer specifications

	Location of generators as indicated in schedule 1 map.
Barkers Power Station	Location of generators as indicated in schedule 1 map.
Mobile Crushing and Screening Plant	Located within a bunded area, so that any contaminated stormwater is contained within the mobile plant area.

## 2. Emissions

### 2.1 General

- 2.1.1 The Licence Holder shall record and investigate the exceedance of any descriptive or numerical limit specified in any part of section 2 of this Licence.

### 2.2 Point source emissions to surface water

- 2.2.1 The Licence Holder shall ensure that where waste is emitted to surface water from the emission points in Table 2.2.1 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this licence.

Table 2.2.1: Emission points to surface water			
Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement
White Flag Lake (WFL)	MS95	Discharge to White Flag lake	Dewatering discharge from Kundana mine operations and Mungari Gold Project via a suitable energy dissipation device to ensure minimal erosion and scouring impacts, reduce the likelihood of ponding in White Flag lake and minimise damage to surrounding vegetation.

### 2.3 Emissions to land

- 2.3.1 The Licence Holder is permitted, subject to conditions in the licence, to emit waste to land through the emissions points listed in Table 2.3.1.

Table 2.3.1: Emission points to land		
Emission point reference	Description	Source including abatement
Kurrawang pit	Receiving environment – previously mined pit	Water from dewatering of Kundana mine operations and Mungari Gold Project
Pope John pit		
South pit		
Arctic/North pit		

Barkers pit		
Barkers North pit		
Moonbeam pit		

2.3.2 The Licence Holder shall not cause or allow point source emissions to land greater than the limits listed in Table 2.3.2

Table 2.3.2: Point source emission limits to land			
Emission point reference	Parameter	Limit (including units)	Averaging period
Kurrawang pit	Pit lake	6 m below crest level of pit	Spot sample
Pope John pit			
South pit			
Arctic/North pit			
Barkers pit			
Barkers North pit			
Moonbeam pit			

### 3. Monitoring

#### 3.1 General monitoring

3.1.1 The Licence Holder shall ensure that:

- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- (b) all surface water sampling is conducted in accordance with AS/NZS 5667.4, AS/NZS 5667.6 or AS/NZS 5667.9 as relevant;
- (c) all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
- (d) all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured unless indicated otherwise in relevant table.

### 3.2 Monitoring of point source emissions to surface water

3.2.1 The Licence Holder shall undertake the monitoring in Table 3.2.1 according to the specifications in that table.

Table 3.2.1: Monitoring of point source emissions to surface water			
Emission point reference	Parameter	Units	Frequency
MS95, MS200 and MS96	pH <sup>1</sup>	-	Quarterly (February, May, August and November) when accessible.
	TDS, TSS, arsenic, cadmium, chromium, copper, lead, nickel, sulphate, nitrate, carbonate, bicarbonate, sodium, magnesium, calcium, iron, potassium and chlorine.	mg/L	

Note 1: In-field, non-NATA accredited measurement is permitted.

### 3.3 Monitoring of point source emissions to groundwater

3.3.1 The Licence Holder shall undertake the monitoring in Table 3.3.1 according to the specifications in that table.

Table 3.3.1: Monitoring of point source emissions to groundwater			
Monitoring point reference	Parameter	Units	Frequency
TSF monitoring sites: MS11, MS12, MS13, MS16, MS17, MS18, MS20, MS21, MS22, MS112, MS113, MS114 and MS119	pH <sup>1</sup> , TDS, weak acid dissociable cyanide (WAD-CN) and SWL <sup>2</sup>	mg/L	Six-monthly - when accessible

Note 1: In-field, non-NATA accredited measurement is permitted.

Note 2: SWL shall be measured prior to any other monitoring being undertaken

### 3.4 Process monitoring

3.4.1 The Licence Holder shall undertake the monitoring in Table 3.4.1 according to the specifications in that table.

Table 3.4.1: Process monitoring					
Monitoring point reference	Process description	Parameter	Units	Frequency	Method
Flow meters located between MS200 and MS95	Volume (cumulative) of dewatering water	Volume of dewatering water	kL	Continuous / Monthly	Flow monitoring device

## 4. Information

### 4.1 Records

4.1.1 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 4.1.1(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.

4.1.2 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.

4.1.3 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 Act for the Premises for the previous annual period.

4.1.4 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.

### 4.2 Reporting

4.2.1 The Licence Holder shall submit to the CEO an Annual Environmental Report within 90 calendar days after the end of the annual period. The report shall contain the information listed in Table 4.2.1 in the format or form specified in that table.

Table 4.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	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 action taken	None specified
1.3.3	Dewatering discharge report	Requirements in Schedule 2
Table 3.2.1	Monitoring of point source emissions to surface water	None specified
Table 3.3.1	Monitoring of point source emissions to	None specified

	groundwater	
Table 3.4.1	Process monitoring	None specified
4.1.3	Compliance	Annual Audit Compliance Report (AACR) A template can be found at <a href="http://www.dwer.wa.gov.au">www.dwer.wa.gov.au</a>
4.1.4	Complaints summary	None specified

- 4.2.2 The Licence Holder shall ensure that the Annual Environmental Report also contains:
- any relevant process, production or operational data; and
  - an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets

- 4.2.3 The Licence Holder shall submit the information in Table 4.2.2 to the CEO according to the specifications in that table.

Table 4.2.2: Non-annual reporting requirements				
Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form
-	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

### 4.3 Notification

- 4.3.1 The Licence Holder shall ensure that the parameters listed in Table 4.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 4.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement <sup>1</sup>	Format or form <sup>2</sup>
2.1.1	Breach of any limit specified in the licence	No later than 5pm of the next usual working day.	N1

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

Note 2: Forms are in Schedule 2

## END OF CONDITIONS



## Schedule 1: Maps

### Premises map

The Premises is shown in the map below. The red line depicts the Premises boundary.

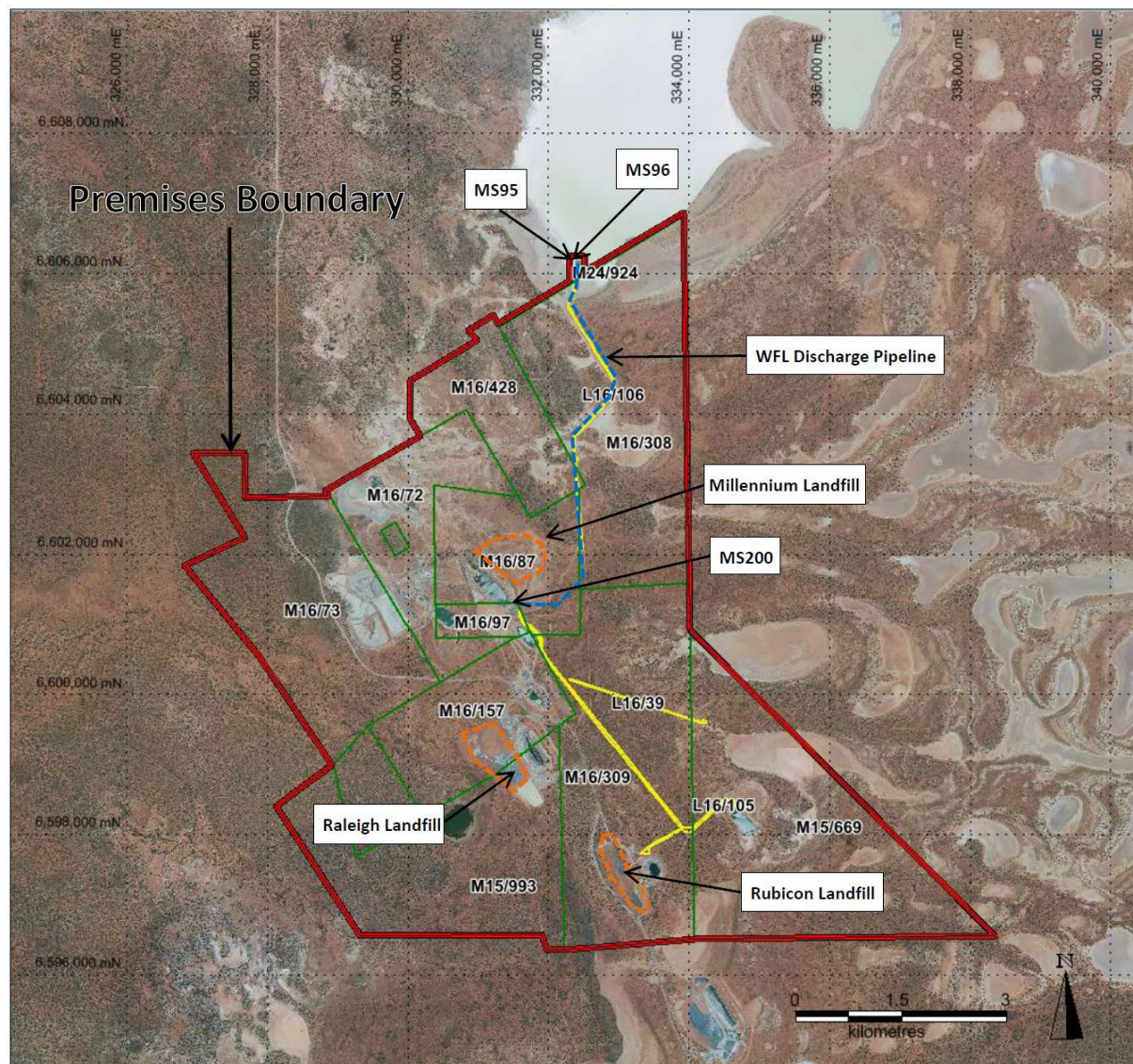
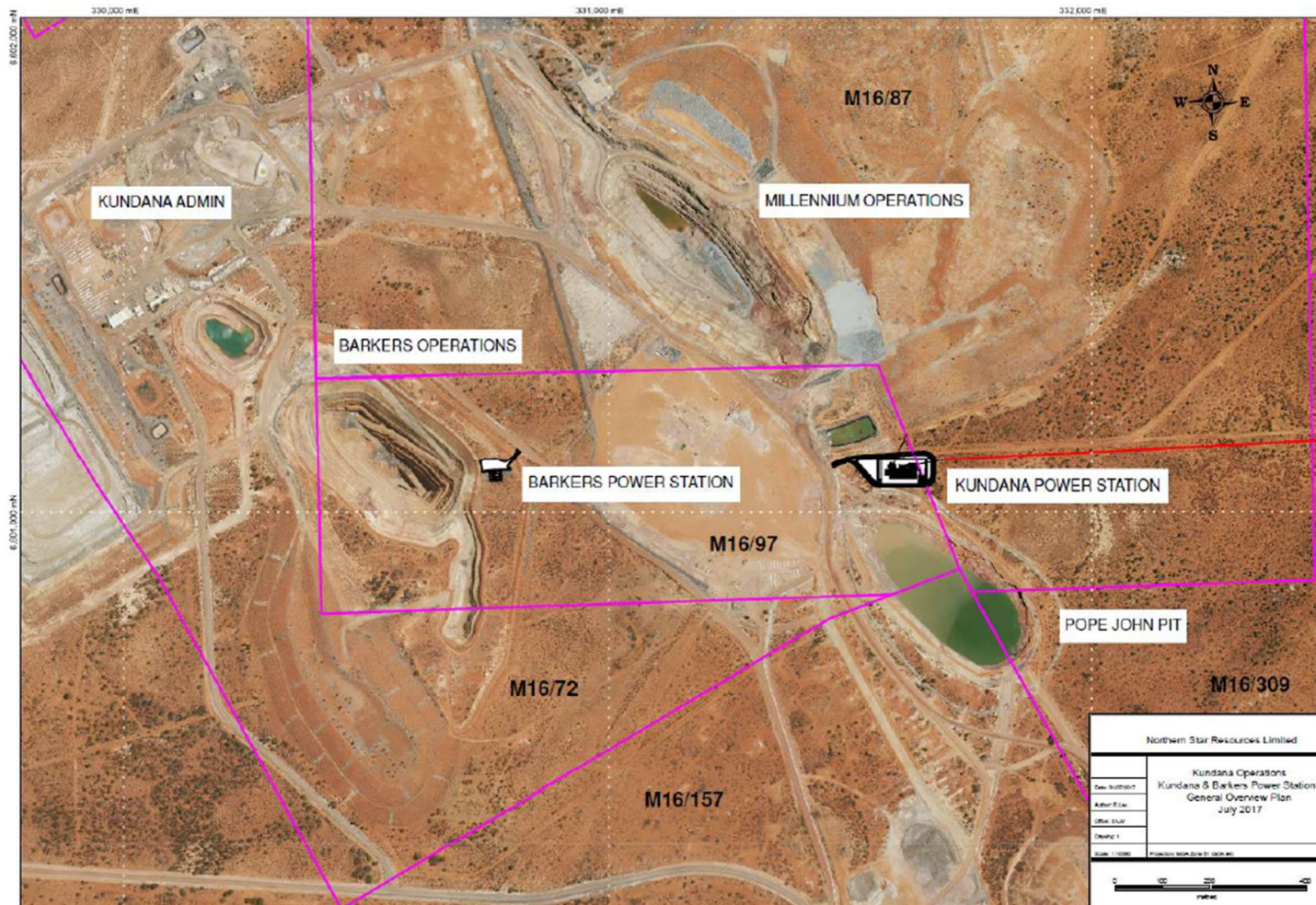


Figure 1 Premises map



## Maps of emission points

The locations of the Kundana and Barkers Power Stations are shown below.



**Figure 2: Map of emission points Kundana and Barkers Power Station**

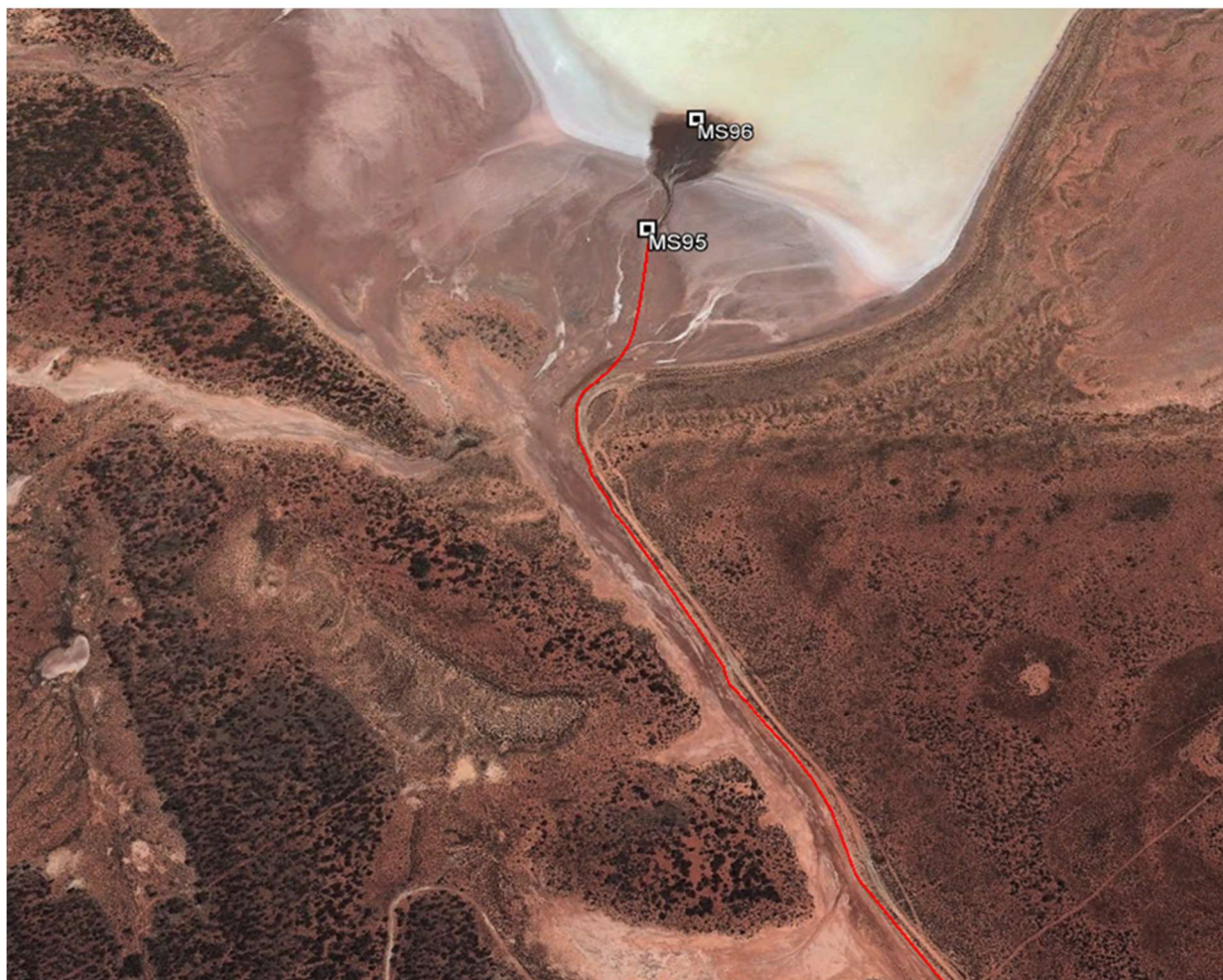
L9190/2019/2

IR-T06 Licence template (v7.0) (February 2020)



The locations of the emission points defined in Tables 2.3.1. are shown below.

## Detailed view of MS95



**Figure 3 Map of Emission points defined in Table 2.3.1 – detailed view of MS95**

Map of emission points as defined in Table 2.3.1

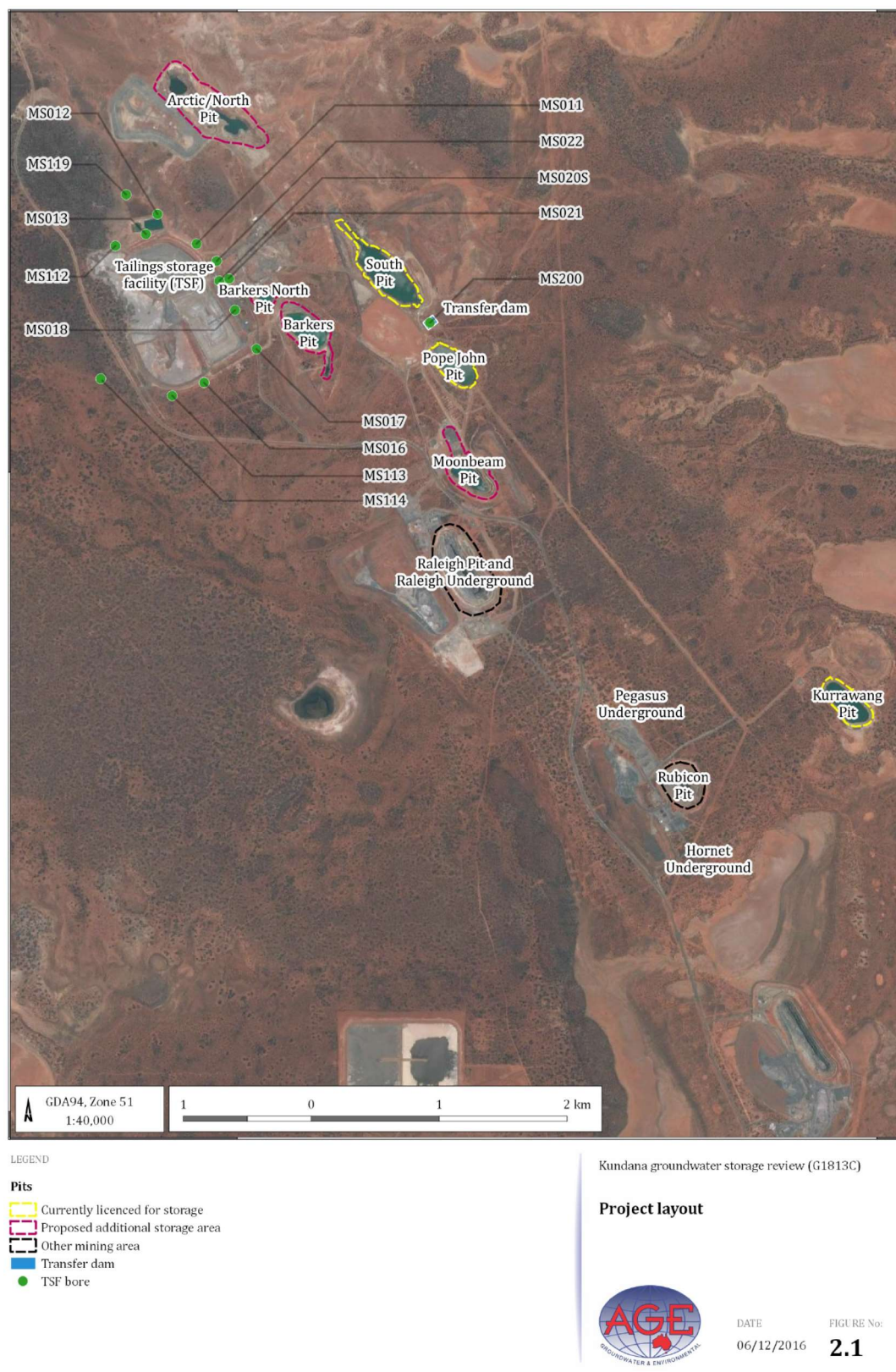


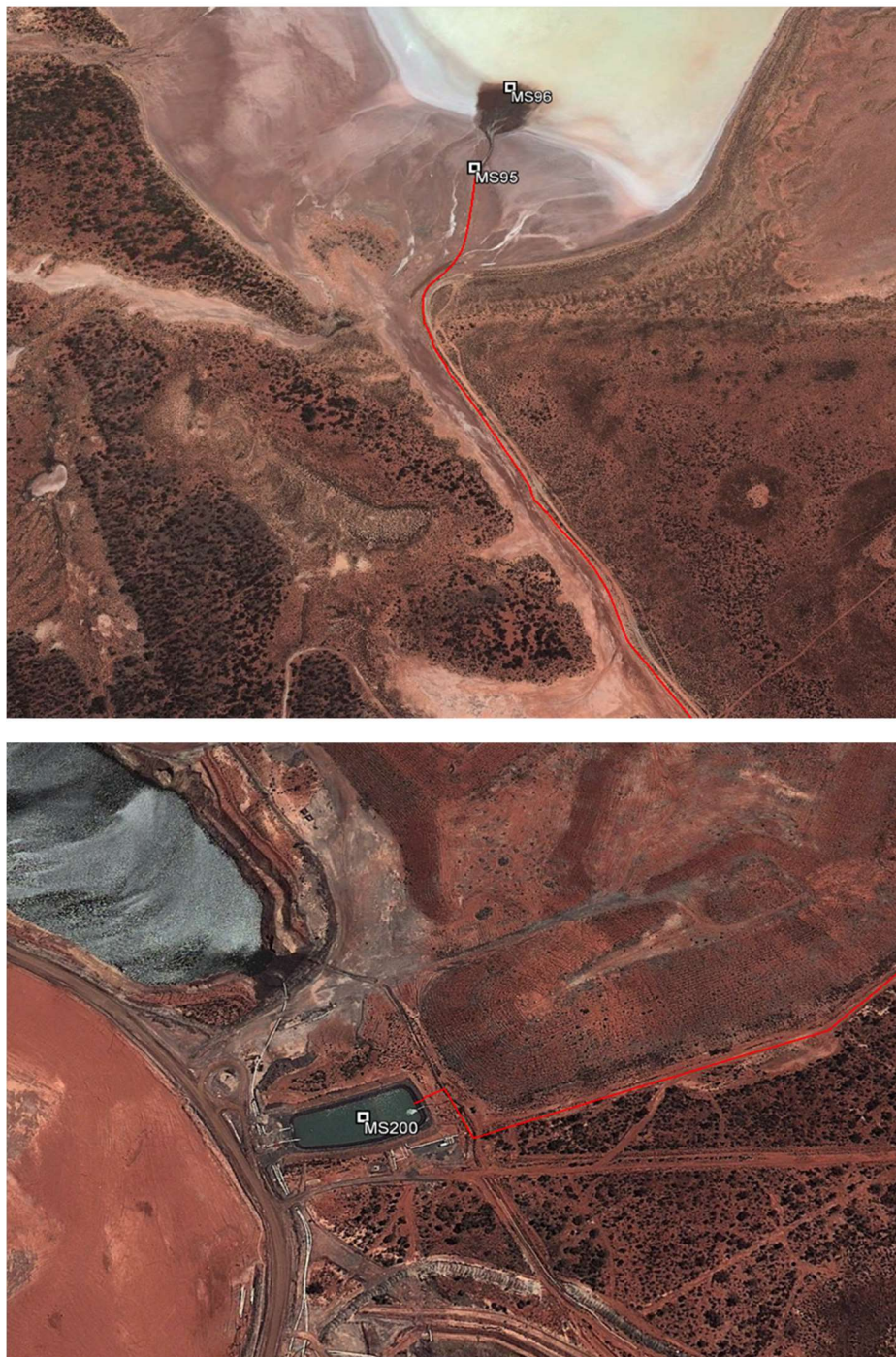
Figure 4 Emission points defined in Table 2.3.1



## Maps of monitoring locations

The locations of the monitoring points defined in Table 3.3.1 are shown below.

### Detailed view of MS95, MS96 and MS200

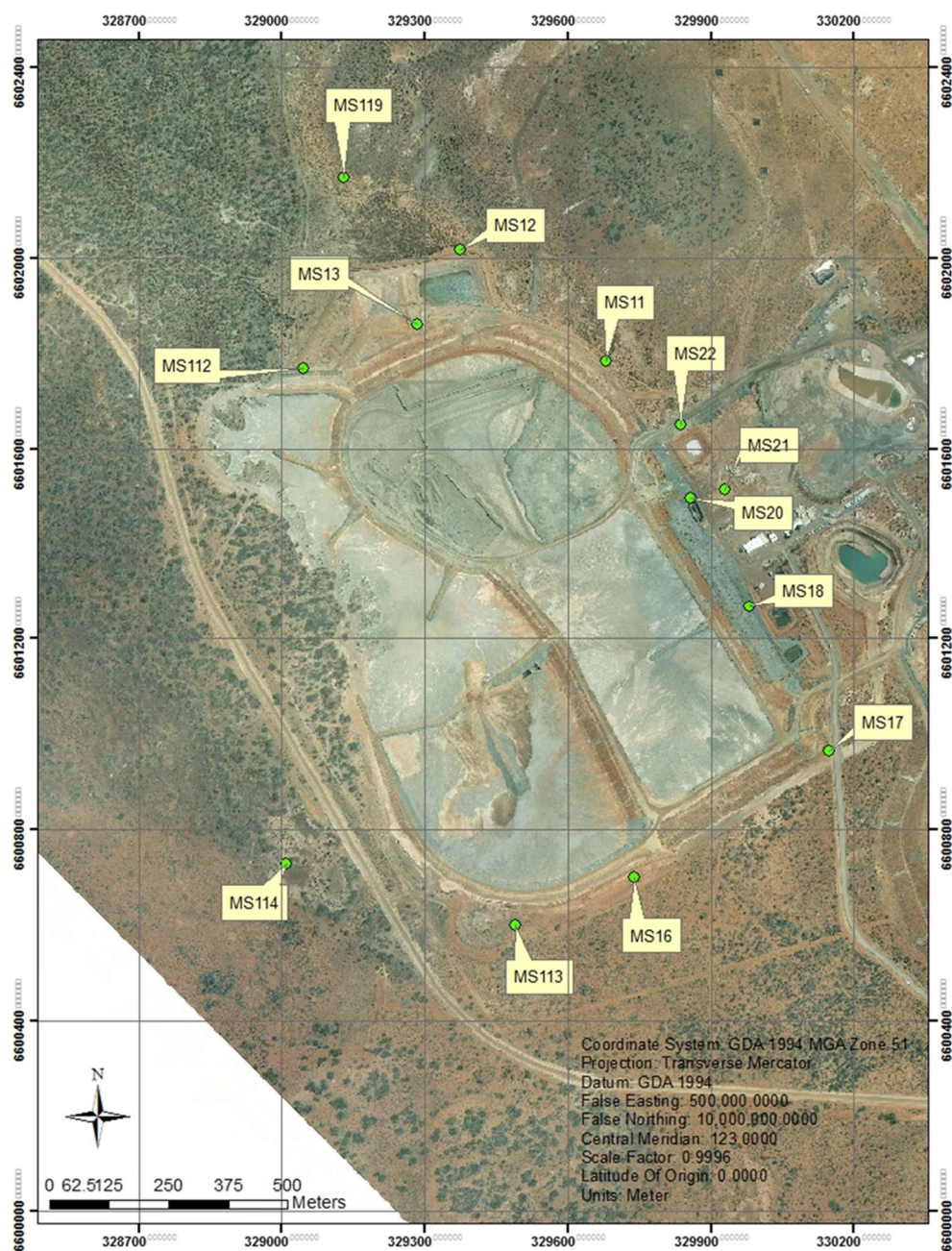


**Figure 5 Detailed view of MS95, MS96 and MS200**



The locations of the monitoring points defined in Table 3.4.1.

### Kundana TSF Monitoring Locations



**Figure 6 Kundana TSF monitoring locations**

## Schedule 2: Reporting and Notification

### Dewatering discharge reporting requirements (mine dewatering only)

The Licence Holder shall prepare a report which will provide the CEO adequate data to show the impacts of the mine dewatering discharges to the receiving environment. The required information should come in the form of a concise report, which should include, but not necessarily be limited to:

#### SITE DESCRIPTION

1. Site description (aerial photographs etc.), including plan showing dewatering discharge point(s);
2. Topographical and meteorological data;
3. Hydrology – Catchment, rainfall and evaporation, runoff etc.;

#### DESCRIPTION OF RECEIVING ENVIRONMENT

4. Significance of waterbody/watercourse with respect to flora and fauna;
5. Waterbody/watercourse levels as a result of rainfall events (with respect to the seasonality of the waterbody/watercourse);

#### IMPACT ON RECEIVING ENVIRONMENT

6. Dewater discharge (volume and quality) as compared to runoff into the waterbody/watercourse and water quality (salt and metals) of the receiving waters;
7. The area of the waterbody/watercourse likely to be affected by the dewater discharge, and effects on waterbody/watercourse levels resulting from the discharge;
8. The potential for water to flow along/out of the receiving waterbody/watercourse;
9. If dewatering occurs to a creek system (permanent or ephemeral), it will also be necessary to consider the consequences of the alteration of that receiving environment, especially with respect to the impacts on vegetation and existing ecosystems;
10. Descriptions and monitoring of native vegetation surrounding the receiving environment;
11. Water balance estimates – including dewater and non-dewater scenarios (with and without consideration of runoff events);
12. Chemistry of the waterbody/watercourse – including dewater and non-dewater scenarios (with and without consideration of runoff events); and

#### SUMMARY

13. Findings, conclusions and recommendations.

(where your discharge is not the only discharge to a system, data from the other site(s) should be collected and incorporated into the report where possible).

The report should be provided within the Annual Environmental Report required by a condition of your current licence.

Licence: L7323/1998/12

Licence Holder: Kundana Gold Pty Ltd

Form: N1

Date of breach:

**Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution.**

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	

L9190/2019/2

Signature on behalf of Kundana Gold Pty Ltd	
Date	