



<b>Licence number</b>	L8151/2005/2
<b>Licence holder</b>	Round Oak Jaguar Pty Ltd
<b>ACN</b>	060 620 751
<b>Registered business address</b>	Level 2, 160 Pitt Street SYDNEY NSW 2000
<b>DWER Internal number</b>	INS-0001608
<b>Duration</b>	03/04/2013 to 2/04/2030
<b>Date of issue</b>	03/04/2013
<b>Date of amendment</b>	26/03/2025
<b>Premises details</b>	Jaguar Operation  Mining Tenements M37/44, M37/515, M37/1132, M37/1153, M37/1228, M37/1230, M37/1257, M37/1290 and M37/1301  LEONORA WA 6438  As defined by the premises map in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i> )	Assessed production / design capacity
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;  (b) tailings from metallic or non-metallic ore are reprocessed; or  (c) tailings or residue from metallic or non-metallic ore are discharged into a containment cell or dam.	3,200,000 tonnes per annual period
Category 6: Mine dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	800,000 tonnes per annual period

This amended licence is granted to the licence holder, subject to the attached conditions, on 26 March 2025, by:

**SENIOR ENVIRONMENTAL OFFICER, INDUSTRY REGULATION  
STATEWIDE DELIVERY**

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

[L8151/2005/2](#) (date of latest update: 26/03/2025)

## Licence history

Date	Reference number	Summary of changes
17/10/2005	W4134/2005/1	Works approval for the construction of a base metals concentrator plant
18/09/2006	W4268/2006/1	Works approval for the construction of TSF1
3/7/2007	L8151/2005/1	Licence application for category 5 (processing metallic ore)
4/8/2008	R1980/2008/1	Registration for category 89 (putrescible landfill)
4/9/2008	R1983/2008/1	Registration for category 85 (sewage facility)
8/10/2010	W4753/2010/1	Works approval for construction of a heavy media separator
8/8/2011	W4969/2011/1	Works approval for an embankment lift on TSF1
21/3/2013	W5262/2012/1	Works approval for the construction of TSF2
3/04/2013	L8151/2005/2	Reissuing of L8151/2005/2
1/08/2013	W5262/2012/1	Works approval amendment
23/08/2013	L8151/2005/2	Licence amendment to include TSF2
19/12/2013	L8151/2005/2	Licence amendment to increase premises production and emissions to land to emission points L1 and L2
1/05/2014	L8151/2005/2	Licence amendment for an extension of the date of completion for compliance with condition 4.1.1 until 30 June 2014
1/05/2014	L8151/2005/2	Licence amendment to remove emissions to land limits
2/07/2015	L8151/2005/2	Licence amendment to change name and increase throughput
8/03/2017	L8151/2005/2	Amendment Notice 1 Licence amendment to allow for stage 2 for the TSF2 raise
25/08/2017	L8151/2005/2	Amendment Notice 2 Licence amendment for an additional water source, as well as the construction and operation of a new dewatering pipeline between the Triumph underground mine and the Teutonic Bore pit
24/06/2020	L8151/2005/2	Licence Amendment for <ul style="list-style-type: none"> <li>removal of requirement to operate recovery bores at TSF1.</li> </ul>

[L8151/2005/2 \(date of latest update: 26/03/2025\)](#)

Date	Reference number	Summary of changes
		<ul style="list-style-type: none"> <li>alter monitoring of ambient groundwater quality at TSF1</li> <li>alter monitoring of point source emissions to groundwater and frequency of standing water level measurement at Teutonic bore pit</li> </ul> Consolidation of the Licence and Amendment Notices 1 and 2.
03/02/2021	L8151/2005/2	DWER initiated licence amendment for updating Table 3.8.1- Ambient groundwater quality monitoring as specified below: <ul style="list-style-type: none"> <li>Monitoring frequency of standing water levels at TSF1 monitoring bores rectified to - <i>quarterly</i>;</li> <li>Monitoring frequency for ambient groundwater sampling from monitoring bores associated with TSF1 rectified to- <i>biannually</i>;</li> <li>Monitoring frequency for standing water levels and ambient groundwater sampling and analysis from monitoring bores associated with TSF2 has been reinstated to previously authorised monitoring frequency;</li> <li>Standing water levels at TSF2 bores are to be measured monthly.</li> <li>Groundwater sampling and analysis at TSF2 bores is to be undertaken quarterly.</li> </ul> In addition, Schedule 2: Form N1 has been updated to include 'Part B' which was erroneously excluded from previous version of the licence.
8/07/2022	L8151/2005/2	Licence amendment to add Jaguar mining void as an authorised discharge location for mine dewater.
18/05/2023	L8151/2005/2	Licence amendment to add TB pit as an authorised discharge location for mine dewater from Jaguar mine, and to increase the capacity from 500,000 kl to 800,000 kl.
26/03/2025	L8151/2005/2	CEO-initiated amendment to extend licence duration by 5 years and to update the licence format.

## Interpretation

In this licence:

- the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- 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;
- where tables are used in a condition, each row in a table constitutes a separate condition;

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- (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

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

**Table 1: Infrastructure and equipment requirements**

Site infrastructure and equipment	Material accepted	Infrastructure requirements
TSF1 and TSF2	Tailings only	Lined with 300mm of clay to achieve a permeability of at least $<10^{-8}$ m/s or equivalent. Central decant pond to recover process water.
Process water tank	TSF decant return water and mine dewater	Impermeable storage vessel
Bioremediation facility	Hydrocarbon-contaminated soils	Constructed and managed according to the document titled <i>Bioremediation of hydrocarbon-contaminated soils in Western Australia</i> , Department of Environment, October 2004.

2. The Licence Holder shall install telemetry systems and pressure sensors along pipelines carrying environmentally hazardous substances to allow the detection of leaks and failures.
3. The Licence Holder shall manage TSF's such that:
  - (a) an operational freeboard of 300mm is maintained in accordance with the standards for safe design and operating of tailings storage;
  - (b) a seepage collection and recovery system is provided and used to capture seepage from the TSF;
  - (c) the primary discharge point for seepage return water is the TSF 2 decant pond;
  - (d) where the process water tank cannot accept seepage water, seepage water may be returned directly to the TSF decant pond;
  - (e) methods of operation minimise the likelihood of erosion of the embankments by wave action; and
  - (f) the supernatant pond on the TSF is minimised as far as possible.
4. The Licence Holder shall construct the Triumph pipeline in accordance with the requirements specified in the infrastructure requirements detailed in Table 2. The Licence Holder must not depart from the requirements specified in Table 2:
  - (a) where such departures are minor in nature and do not materially change or affect the infrastructure; or
  - (b) where such departure improves the functionality of the infrastructure and does not increase the risks to public health, public amenity or the environment; and
  - (c) all other conditions in this Licence are still satisfied.

**Table 2: Infrastructure requirements**

Infrastructure	Requirements (design and construction)
Triumph Project dewatering pipeline	<p>Pipeline corridor approximately 1,120 m length between the Triumph Boxcut and Teutonic Bore pit containing up to 2 pipelines.</p> <p>Pipeline built in a bunded corridor along existing disturbed areas parallel to the main access track with any spillage reporting directly to the Teutonic Bore pit.</p> <p>Pipeline constructed of high density polyethylene up to a maximum of 300 mm diameter.</p> <p>Design capacity of pipelines will be 100 litres per second (L/s) to accommodate a maximum surge of 100 L/s with an expected nominal dewatering rate of 29 L/s.</p>

5. The Licence Holder shall operate TSF2 and the Triumph Project dewatering pipeline in accordance with the conditions of this Licence, following submission of the construction compliance document required under condition 23 Table 9.

### Emissions and discharges

6. The licence holder must ensure that any dewatering effluent shall only be disposed of in the following manner:
- (a) used for dust suppression in a manner that minimises damage to surrounding vegetation; or
  - (b) is discharged to the previously mined pit called Teutonic bore pit.
7. The Licence Holder shall ensure that where dewatering effluent is emitted to groundwater from the emission points in Table 3 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this licence.

**Table 3: Emission points to groundwater**

Emission point reference on map of emission points	Description	Source including abatement
Teutonic bore pit	Infiltration of mine dewater into aquifer	Water from dewatering of Jaguar, Bentley and Triumph underground mines
Jaguar mine void (through rising main)		

8. The Licence Holder must use all reasonable and practical measures to prevent and where that is not practicable to minimise dust emissions from the premises.
9. The Licence Holder must ensure that no visible dust generated by the activities on the premises crosses the boundary of the premises.

### Monitoring

10. The Licence Holder shall:
- (a) undertake inspections as detailed in Table 4;
  - (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 4: Inspection of infrastructure**

Scope of inspection	Type of inspection	Frequency of inspection
Tailings pipelines	Visual integrity	Twice daily
Tailings return water lines	Visual integrity	Twice daily
TSF embankment freeboard	Visual to confirm required freeboard capacity is available	Daily
Dewatering pipeline	Visual integrity	Twice daily
Jaguar mine boxcut	Visual to confirm required 6 m freeboard capacity is required	Weekly

11. The Licence Holder shall undertake an annual water balance for any active TSF in the annual period. The water balance shall as a minimum consider the following:
  - (a) site rainfall;
  - (b) evaporation;
  - (c) tailings return water recovery volumes;
  - (d) seepage recovery volumes; and
  - (e) volumes of tailings deposited.
  
12. 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 (unless indicated otherwise in relevant table).
  
13. The Licence Holder shall ensure that:
  - (a) monthly monitoring is undertaken at least 15 days apart;
  - (b) quarterly monitoring is undertaken at least 45 days apart; and
  - (c) biannual monitoring is undertaken at least 90 days apart.
  
14. The Licence Holder shall undertake the monitoring in Table 5 according to the specifications in that table.

**Table 5: Monitoring of point source emissions to groundwater**

Emission point reference	Parameter	Units	Limit	Averaging Period	Frequency
	Volume of dewatering water	kL	-	Continuous	Monthly

Emission point reference	Parameter	Units	Limit	Averaging Period	Frequency
<ul style="list-style-type: none"> <li>Teutonic Bore Pit</li> <li>Jaguar mine box cut</li> </ul>	Standing water level (in-pit)	mbgl	6 mbgl	Spot sample	Biannual (February and August)

15. The Licence Holder shall undertake the monitoring in Table 6 according to the specifications in that table.

**Table 6: Process monitoring**

Monitoring point reference	Process description	Parameter	Units	Frequency	Method
Teutonic Bore Pit	Tailings delivery to TSF	Volume of tailings deposited into the TSF	Monthly	Monthly	None specified
-	TSF return line	Volumes of water recovered from the TSF	kL	Monthly	None specified
-	-	Volume of seepage water recovered from the TSF	kL	Monthly	None specified

16. The Licence Holder shall undertake the monitoring in Table 7 according to the specifications in Table 7 and record and investigate results that do not meet any target specified.

**Table 7: Monitoring of ambient groundwater quality**

Monitoring point reference and location	Parameter	Target	Limit	Units	Average period	Frequency
TSF1 06JGMB001, 06JGMB002, 06JGMB003, 06JGMB004, 06JGMB005, 07JGMB007, 10JGMB008, 10JGMB009,1 0JGMB0010 10JGMB0012	Standing water level	6	4	metres below ground level (mbgl)	Spot sample	Quarterly (February, May, August, and November)
	cobalt (Co), nickel (Ni), mercury (Hg), antimony (Sb), copper (Cu), zinc (Zn), lead (Pb), thallium (Tl), cadmium (Cd), arsenic (As), selenium (Se), sulfate (SO <sub>4</sub> <sup>2-</sup> ), chloride (Cl <sup>-</sup> ), sodium (Na <sup>+</sup> ), potassium (K <sup>+</sup> ), calcium (Ca <sup>2+</sup> ),	-	-	mg/L	Spot sample	Biannual (February and August)



Monitoring point reference and location	Parameter	Target	Limit	Units	Average period	Frequency
	magnesium (Mg <sup>2+</sup> ), carbonate (CO <sub>3</sub> <sup>2-</sup> ) and bi-carbonate (HCO <sub>3</sub> <sup>-</sup> )					
	pH <sup>1</sup>	-	-	-		
	Total dissolved solids	-	-	(uS/cm)		
	Total alkalinity <sup>1</sup>	-	-	mg/L		
	Total acidity <sup>1</sup>	-	-	mg/L		
TSF2 12JGMB013, 12JGMB014, 12JGMB015, 12JGMB016, 12JGMB017, 12JGMB018, 12JGMB019, 12JGMB020, 12JGMB021, 12JGMB022, 12JGMB023, 12JGMB024	Standing water level	6	4	metres below ground level (mbgl)	Spot sample	Monthly
	cobalt (Co), nickel (Ni), mercury (Hg), antimony (Sb), copper (Cu), zinc (Zn), lead (Pb), thallium (Tl), cadmium (Cd), arsenic (As), selenium (Se), sulfate (SO <sub>4</sub> <sup>2-</sup> ), chloride (Cl <sup>-</sup> ), sodium (Na <sup>+</sup> ), potassium (K <sup>+</sup> ), calcium (Ca <sup>2+</sup> ), magnesium (Mg <sup>2+</sup> ), carbonate (CO <sub>3</sub> <sup>2-</sup> ) and bi-carbonate (HCO <sub>3</sub> <sup>-</sup> )	-	-	mg/L	Spot sample	Quarterly (February, May, August, and November)
	pH <sup>1</sup>	-	-	-		
	Total dissolved solids	-	-	(uS/cm)		
	Total alkalinity <sup>1</sup>	-	-	mg/L		
	Total acidity <sup>1</sup>	-	-	mg/L		

## Records and reporting

### Records

17. 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:
- the name and contact details of the complainant, (if provided);
  - the time and date of the complaint;
  - the complete details of the complaint and any other concerns or other issues raised; and
  - the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.

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18. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
- (a) the calculation of fees payable in respect of this licence;
  - (b) the works conducted in accordance with condition 4 of this licence;
  - (c) any maintenance of infrastructure that is performed in the course of complying with conditions 1-3 and 5 of this licence;
  - (d) monitoring programmes undertaken in accordance with conditions 10, 11,14, 15 and 16 of this licence; and
  - (e) complaints received under condition 17 of this licence.
19. The books specified under condition 18 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.

Reporting

20. 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 an Annual Audit Compliance Report in the approved form by 31 October each year.
21. The licence holder must:
- (a) prepare an Environmental Report that provides information in accordance with Table 8 for the preceding annual period, and
  - (b) submit that Environmental Report to the CEO by 31 October each year.

**Table 8: Annual 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 year and any action taken	None specified
20	Compliance	None specified
17	Complaints summary	None specified
Table 5	Standing water levels and volumetric flow rate of mine dewater in Teutonic Bore pit and Jaguar mining void (via box cut).	Tabular
Table 6	Mass of tailings deposited into TSF1 and TSF2, recovered water and recovered seepage water	Tabular

Condition or table (if relevant)	Parameter	Format or form
Table 7	Monitoring of ambient groundwater levels and quality	Tabular and graphical with all available historic data

22. The Licence Holder must ensure that its Environmental Report also contains:
- (a) an assessment of the information contained within the report against previous monitoring results and licence limits and/or targets; and
  - (b) a list of any original monitoring reports submitted to the Licence Holder from third parties for the annual period and make these reports available on request.
23. The licence holder shall ensure that the parameters listed in Table 9 are notified to the CEO in accordance with the notification requirements of the table.

**Table 9: Notification requirements**

Condition or table	Parameter	Notification requirement <sup>1</sup>	Format or form
Conditions 14 and 16	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	None specified
Condition 5	The Licence Holder shall submit a construction compliance document to the CEO, following construction of the Triumph Project dewatering pipeline. The compliance document shall: <ul style="list-style-type: none"> <li>(a) Clearly detail how the Triumph Project dewatering pipeline has been constructed to meet the infrastructure requirements of Condition 4 and identify any departures;</li> <li>(b) Be certified by a qualified professional engineer stating that each item of infrastructure specified in Table 2 has been constructed in accordance with the conditions of the Licence with no material defects; and</li> <li>(c) Be signed by a person authorised to represent the Licence Holder and contain the printed name and position of that person within the company.</li> </ul>	Within 7 days after the completion of construction	None specified

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

## Definitions

In this licence, the terms in Table 10 have the meanings defined.

**Table 10: Definitions**

Term	Definition
ACN	Australian Company Number.
AHD	Means the Australian height datum.
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates are available on the Department's website).
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
APHA-AWWA-WEF	means <i>American Public Health Association – American Water Works Association – Water Environment Federation</i> .
AS/NZS 5667.1	means the 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 5667.11	means the Australian Standard AS/NZS 5667.11 <i>Water Quality – Sampling – Guidance on sampling of groundwaters</i> .
averaging period	means the time over which a limit or target is measured or a monitoring result is obtained.
bioremediation of hydrocarbon-contaminated soils guideline	means the Department of Environment, October 2004, <i>Bioremediation of hydrocarbon-contaminated soils in Western Australia</i> .
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:  <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
code of practice for the storage and handling of dangerous goods	means the document titled <i>Storage and handling of dangerous goods: Code of Practice</i> published by the Department of Mines, Industry Regulation and Safety, as amended from time to time.
controlled waste	has the definition in Regulation 2 of the Environmental Protection (Controlled Waste) Regulations 2004.

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Term	Definition
dangerous goods	has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007.
department; DWER	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.
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.
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures.
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.
mbgl	means metres below ground level.
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.
operational freeboard	has the meaning defined in the standards for safe design and operating for tailings storage.
placard quantity	has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007.
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
quarterly period	means the four inclusive periods from February, August, November and May.
Schedule 1	means Schedule 1 of this licence unless otherwise stated.
standards for safe design and	means Department of Mines and Petroleum, 1999, <i>Safe design and operating standards for tailings storage: Environment</i> , Department of Mines, Industry Regulation and Safety, Western Australia.

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Term	Definition
operating for tailings storage	
shut down	means the period when plant or equipment is brought from normal operating conditions to inactivity.
SWL	means standing water level.
TSF	means an engineered containment pond or dam used to store tailings.
usual working day	means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

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**END OF CONDITIONS**

## Schedule 1: Maps

### Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1) The pink line depicts the Premises Boundary.

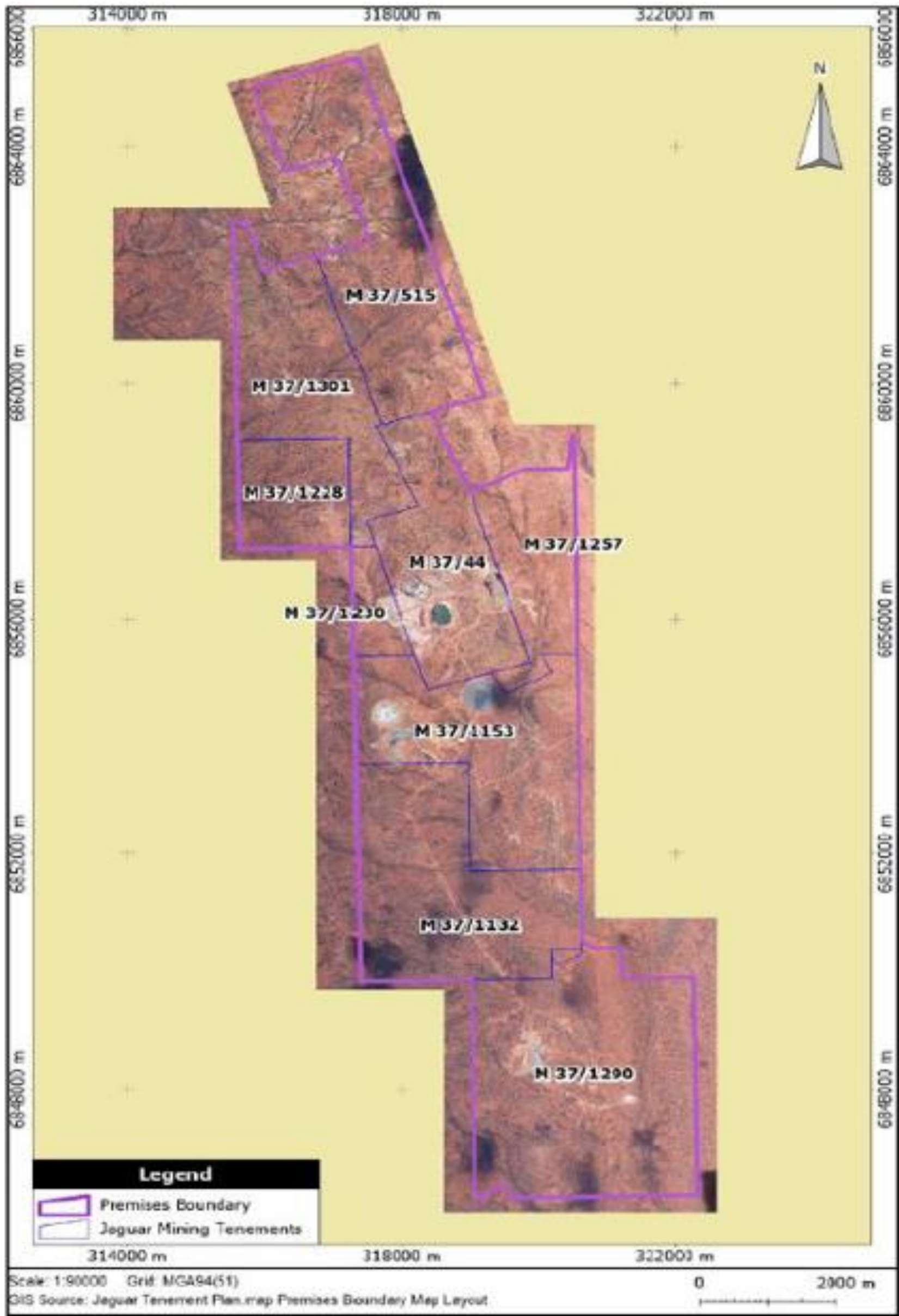


Figure 1: Map of the boundary of the prescribed premises

The locations of the emission points defined in Table 3 are shown below (Figure 2).

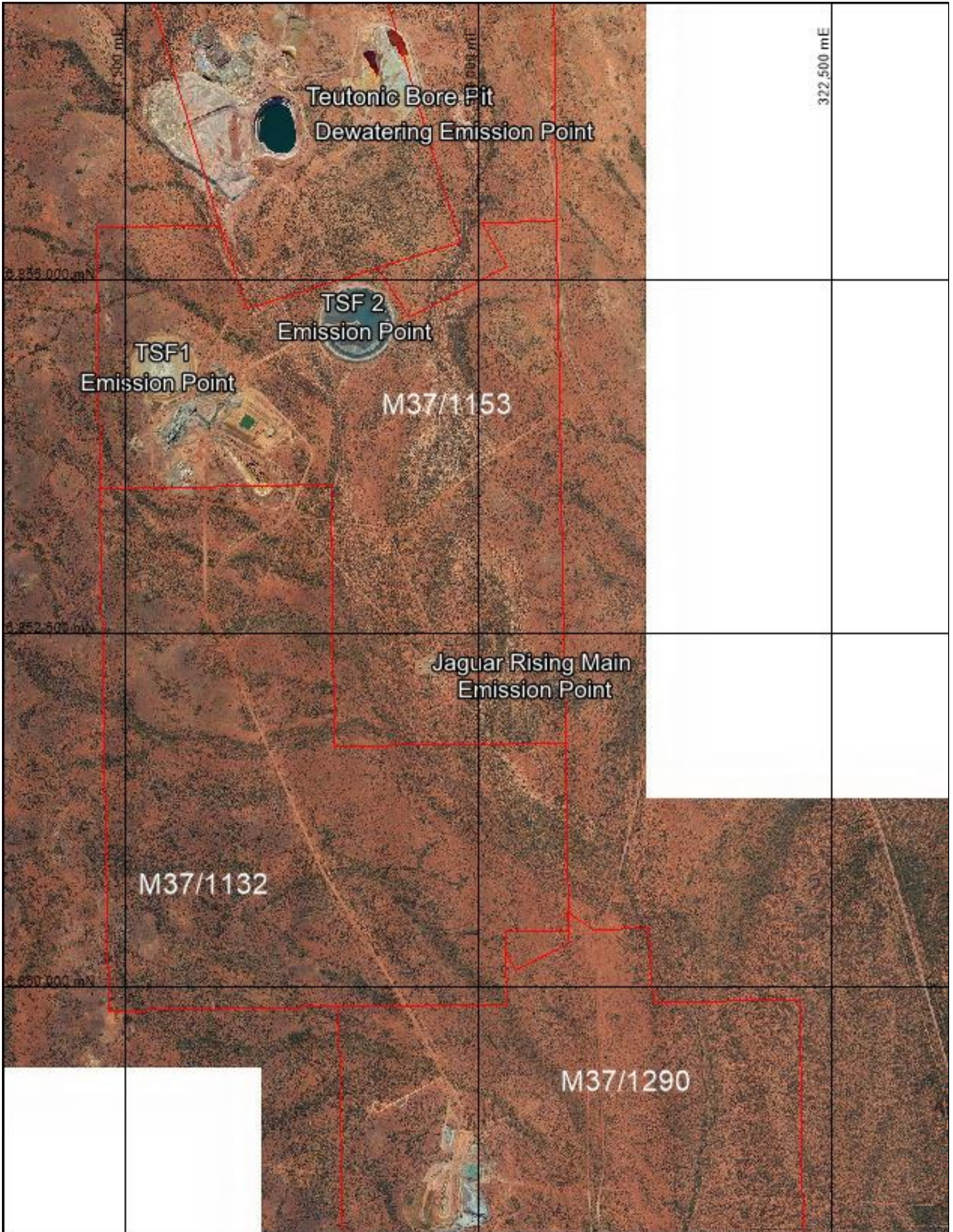


Figure 2: Map of the location of discharge points



The location of the dewatering pipeline infrastructure defined in Table 4 is shown below (Figure 3).

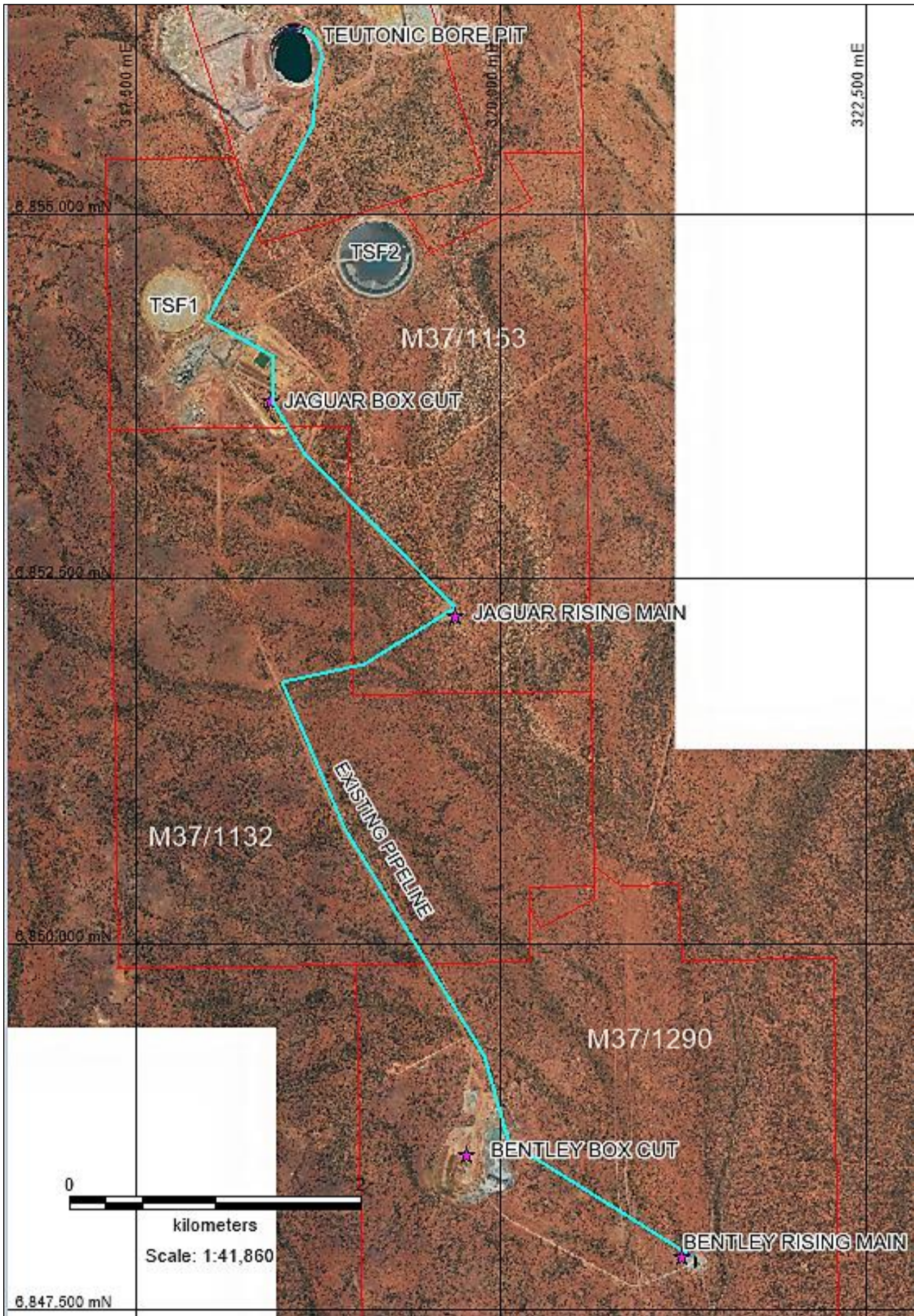


Figure 3: Dewatering pipeline location

The locations of the monitoring points defined in Table 7 (for TSF 1) are shown below (Figure 4).

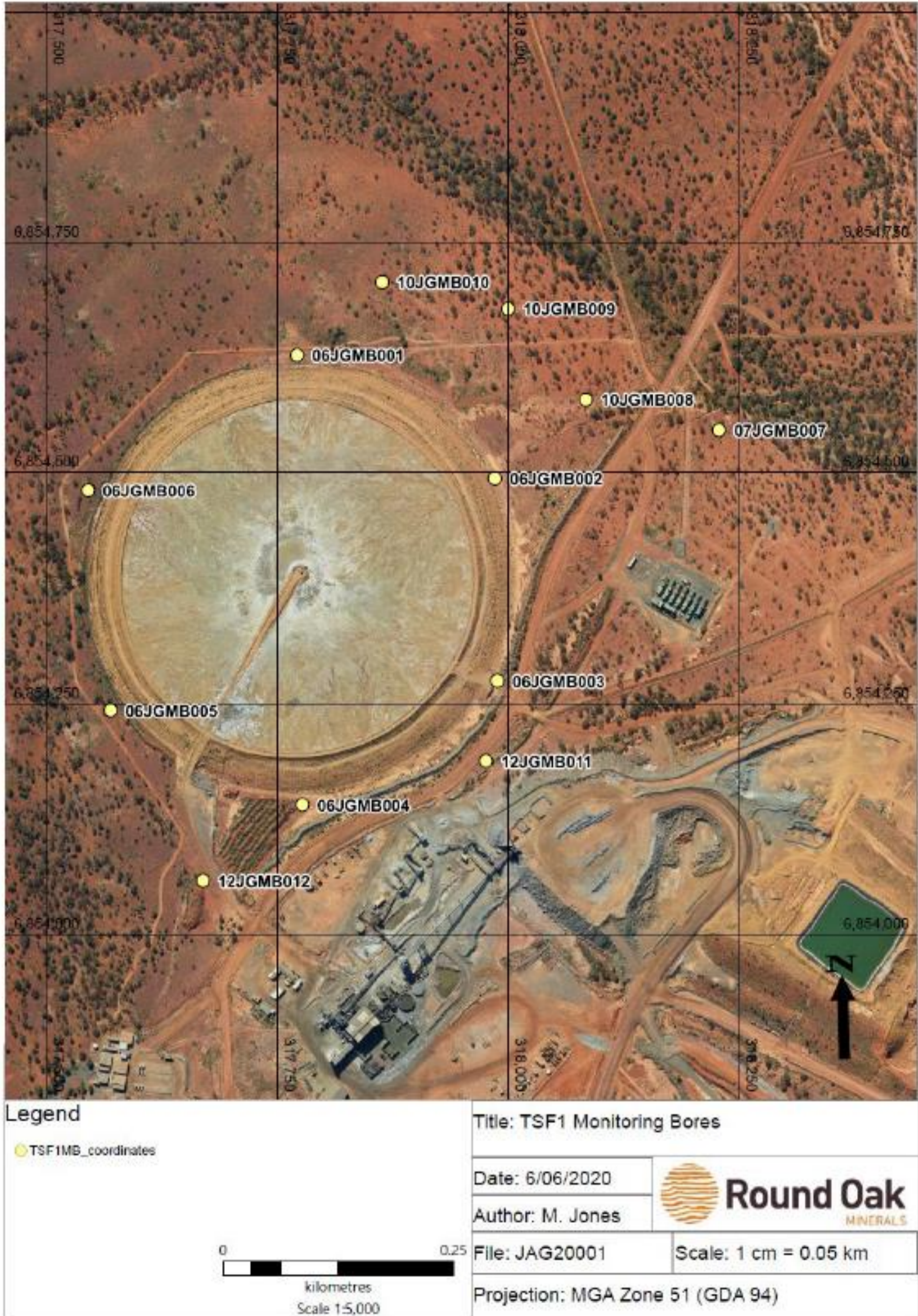


Figure 4: TSF1 monitoring bore locations

The locations of the monitoring points defined in Table 7 (for TSF 2) are shown below (Figure 5).



Figure 5: TSF2 monitoring bore locations