



Licence number L8495/2010/2

Licence holder Terra Mining Pty Ltd

ACN 605 732 518

Registered business address 2/225 St Georges Terrace
PERTH WA 6000

DWER file number 2010/009798-3

Duration 21/01/2014 to 20/01/2031

Date of issue 16/01/2014

Date of amendment 27/09/2024

Premises details Extension Hill Mine Site
PAYNES FIND WA 6612

Legal description -
Mining Tenements G59/33, G59/34, G59/62,
L59/68, L59/69, L59/87, M59/338, M59/339,
M59/526, M59/454, M59/455 and M59/609
As depicted 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:	5 000 000 tonnes per annual period
Category 63: Class I Inert Landfill site	12 000 tonnes per annual period
Category 64: Class II putrescible landfill site	150 tonnes per annual period
Category 85: Sewage facility	48 cubic metres per day

This licence is granted to the licence holder, subject to the attached conditions, on 27 September 2024, by:

**MANAGER, RESOURCE INDUSTRIES
INDUSTRY REGULATIONS**

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

Licence History

Date	Reference number	Summary of changes
20/01/2011	L8495/2010/1	Licence issued
13/10/2011	L8495/2010/1	Licence amendment for general condition updates
30/08/2012	L8495/2010/1	Licence amendment for landfill conditions
20/06/2013	L8495/2010/1	Licence amendment for dust suppression conditions
07/11/2013	L8495/2010/1	Licence amendment to update conditions
12/12/2013	L8495/2010/1	Licence amendment for condition changes
16/01/2014	L8495/2010/2	Licence reissue and REFIRE conversion
01/05/2014	L8495/2010/2	Licence amendment for production increase and condition upgrade
29/04/2016	L8495/2010/2	This notice was given in accordance with section 59B(9) of the <i>Environmental Protection Act 1986</i> to the new expiry date of the licence.
09/06/2017	L8495/2010/2	Amendment Notice 1 - To extend premises boundary to include an additional Category 64 landfill for Iron Hill project operations.
03/01/2019	L8495/2010/2	Amendment Notice 2 - For additional short term Cat 64 landfilling at the ROM pad and addition of Category 63 for in-situ burial of decommissioned road.
09/11/2023	L8495/2010/2	Licence amendment for the addition of two landfill sites to dispose of Inert Waste Type 1 from decommissioning works. During this amendment, the following changes have also been made: <ul style="list-style-type: none"> Updated to the new licence format; Inclusion of Amendment Notices 1 and 2. Noting that DWER has not undertaken any additional risk assessment of the premises; Deleted the redundant AACR form set out in Schedule 2 of the previous licence and advised the licence holder to obtain the form from the Department's website; Revised the licence condition numbers, removed any redundant conditions and realigned condition numbers for numerical consistency; and Corrected clerical mistakes and unintentional errors.
04/12/2023	L8495/2010/2	Licence transfer limited to changing the: <ul style="list-style-type: none"> Licence holder's name from Mount Gibson Mining Limited to Terra Mining Pty Ltd; Australian Company Number (ACN) from 074 575 885 to 605 732 518; and Registered business address from Level 1, 2 Kings Park Road WEST PERTH WA 6005 to 2/225 St Georges Terrace PERTH WA 6000.
27/09/2024	L8495/2010/2	Licence amendment for the inclusion of crushing and screening equipment and operations from the works approval (W6818/2023/1) to the licence. The amendment is limited to category 5 crushing and screening equipment and the

		processing of up to 5,000,000 tonnes per annual period of iron ore.
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Interpretation

In this licence:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence Conditions

The licence holder must ensure that the following conditions are complied with:

Infrastructure and equipment

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	Operational requirement	Infrastructure location
Crushing and screening plant	<p>Dust controls:</p> <ul style="list-style-type: none"> Dust controls are used during operation of the crushing and screening and ore stacking plants such that dust emissions are prevented, and where that is not possible, minimised, to prevent pollution or environmental harm. <p>Stormwater controls:</p> <ul style="list-style-type: none"> Stormwater controls are used during operation of the crushing and screening and ore stacking plants such that contaminated stormwater emissions to the environment are prevented and, where that is not possible, contaminated stormwater emissions that may cause pollution or environmental harm are minimised. <p>Hydrocarbon controls:</p> <ul style="list-style-type: none"> Hydrocarbon controls are used during operation of the crushing and screening and ore stacking plants such that hydrocarbon emissions are prevented and, where that is not possible, hydrocarbon emissions to land and water that may cause pollution or environmental harm are minimised. 	Schedule 1: Figure 1
Ore stacking plant		

Premises operation

2. The Licence Holder must ensure the limits specified in Table are not exceeded.

Table 2: Production or design capacity limits

Category ¹	Category description	Premises production or design capacity limit
5	Processing or beneficiation of metallic or non-metallic ore	5,000,000 tonnes per annual period
85	Sewage facility	48 cubic metres per day

Note 1: *Environmental Protection Regulations 1987, Schedule 1*

3. The Licence Holder must only accept waste to a landfill if:
- (a) it is of a type listed in Table 3;
 - (b) the quantity accepted is below any quantity limit listed in Table 3; and
 - (c) it meets any specification listed in Table 3.

Table 3: Waste acceptance

Category 63 landfill waste type	Quantity limit tonnes/year	Specification
Inert Waste Type 1	12,000 tonnes per annual period	Demolition materials from decommissioning works (primarily concrete slabs and footers) and broken up decommissioned road Waste containing visible asbestos or ACM must not be accepted
Category 64 landfill Waste type	Quantity limit tonnes/year	Specification ¹
Inert Waste Type 1	150 tonnes per annual period	Waste containing visible asbestos or ACM must not be accepted
Inert Waste Type 2		Non-biodegradable organic materials
Putrescible Waste		None Specified
Special Waste Type 2		Biomedical/ clinical
Contaminated Solid Waste		Must meet the acceptance criteria for Class II landfill

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*.

4. Licence Holder must ensure that where waste does not meet the waste acceptance criteria set out in condition 3 it is removed from the Premises by the delivery vehicle or, where that is not possible, stored in a segregated storage area or container and removed to an appropriately authorised facility as soon as practicable.

5. The Licence Holder must ensure that wastes accepted onto a landfill and wastewater treatment plant are only subjected to the processes set out in Table 4 and in accordance with any process limits described in that Table.

Table 4: Waste processing

Landfill and waste type	Process(es)	Process limits ^{1, 2}
Category 63 landfills	Receipt, handling and disposal of waste by landfilling	Disposal of Inert Waste Type 1 by landfilling must only take place within the landfill areas shown on Figure 1 and Figure 2. The landfill as shown in Schedule 1, Figure 2 must have a single earthen barrier above the HDPE lining prior to the first disposal. Water that has come in contact with waste must be retained at the landfills.
Category 64 landfill – base of the ROM pad		Disposal of Inert Waste Type 1 and Inert Waste Type 2 (tyres) only in the landfill area shown in Figure 1.

Landfill and waste type	Process(es)	Process limits ^{1, 2}
		<p>The tipping area must be no greater than 30 metres in length.</p> <p>Tyres to be stored in piles of up to 100 units with a 6m separation distance between piles.</p>
Category 64 landfill - top of the ROM pad and open landfills		<p>Disposal of waste by landfilling must only take place within the landfill areas shown in Schedule 1, Figure 1.</p> <p>The landfill must be within an area enclosed by earthen bunds or fencing at least 2 metres in height, to provide an effective barrier to horses or stock and to contain windblown litter.</p> <p>Waste must be disposed of in a defined trench.</p> <p>The tipping area must be no greater than 30 metres in length.</p> <p>Surface water drainage must be designed and maintained to divert surface water runoff away from areas where there is waste; and water that has come in contact with waste must be retained on the landfill.</p> <p>Waste must not be burnt at the landfill area.</p> <p>A firebreak of at least 3 metres must be maintained around the landfill.</p> <p>The separation distance between the base of the landfill and the highest groundwater level must not be less than 3 metres.</p> <p><u>Special Waste Type 2:</u></p> <p>Only to be disposed of into a designated biomedical waste disposal area within the landfill.</p> <p>Not to be deposited within 2m of the final tipping surface of the landfill.</p> <p>No works must be carried out on the landfill that could lead to biomedical wastes being excavated or uncovered.</p>
Sewage	Wastewater treatment plant	Biological and physical treatment

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*.

6. The Licence Holder must manage the landfilling activities to ensure:

- (a) waste is placed to ensure all faces are stable and capable of retaining rehabilitation material; and
- (b) rehabilitation of a cell or phase takes place within 6 months after disposal in that cell or phase has been completed.

7. The Licence Holder must ensure that cover is applied and maintained on all accessible waste in accordance with Table 5 and that sufficient stockpiles of cover are maintained on site at all times.

Table 5: Cover requirements¹

Waste Type	Material	Depth	Timescales
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Inert Waste Type 1	Dense, inert and incombustible material or such other material as is approved in respect of a particular landfill site, and totally covered.	200mm	Monthly or as soon as practicable after deposit.
Putrescible Waste		500mm	Monthly or as soon as practicable after deposit.
Inert Waste Type 2		200mm	To be covered by the end of the working day in which the waste was deposited with sufficient quantities of Type 1 inert waste or clean fill to prevent the spread of fire and harbouring of disease vectors.
Special Waste Type 2		100mm	As soon as practicable after deposit prior to compaction.
Contaminated solid wastes		200mm	Fortnightly or as soon as practicable after deposit.

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

8. The Licence Holder must ensure that wind-blown waste is contained within the boundary of the landfill and that wind-blown waste is returned to the tipping area on at least a monthly basis.

9. The Licence Holder must ensure that wastewater and sewage sludge is only stored and/or treated within vessels or compounds provided within the infrastructure detailed in Table 6.

10. The Licence Holder must ensure that effluent is only discharged into containment ponds with the relevant infrastructure requirements and at the locations specified in Table 6 and identified in Schedule 1.

Table 6: Containment infrastructure

Storage vessel or compound	Material	Infrastructure details
Sewage evaporation pond	Wastewater	Clay lined to achieve a permeability of at least $<1 \times 10^{-9}$ m/s or equivalent

11. The Licence Holder must manage containment cells and/or dams or ponds and/or turkey's nests in Table 6 such that:

- (a) a minimum top of embankment freeboard of 300mm or a 1 in 100 year/72 hour storm event (whichever is greater) is maintained; and,
- (b) methods of operation minimise the likelihood of erosion of the embankments by wave action.

12. The Licence Holder must ensure that any discharge of water from the operational and wash down areas must be discharged via fuel/oil traps and silt traps.

13. The treated washdown bay water must only be used for dust suppression on the iron ore stockpiles.

Emissions

Emissions to land

14. The Licence Holder must not cause or allow emissions to land greater than the limits listed in Table 7.

Table 7: Emission limits to land

Emission point reference	Parameter	Limit (including units)	Averaging period
Outlet pipe from the washdown bay treated wastewater	Total Recoverable Hydrocarbons	10mg/L	Spot sample

Monitoring

General monitoring

15. The Licence Holder must ensure that:

- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- (b) all wastewater samples are collected in accordance with AS/NZS 5667.10; and
- (c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.

16. The Licence Holder must ensure that quarterly monitoring is undertaken at least 45 days apart.

17. The Licence Holder must ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.

18. The Licence Holder must, 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.

Monitoring of emissions to land

19. The Licence Holder must undertake the monitoring in Table 8 according to the specifications in that table.

Table 8: Monitoring of emissions to land

Emission point reference	Parameter	Units	Frequency
Outlet pipe from the washdown bay treated wastewater storage tank	Total Recoverable Hydrocarbons (TRH)	mg/L	Quarterly

20. The Licence Holder must keep a written or electronic record of all contaminated solid wastes accepted for burial at the premises. The record should include but not be limited to:

- (a) the time and date the waste was received;
- (b) the type of contaminated solid waste;
- (c) the nature of the contaminated solid waste;
- (d) the quantity of the contaminated solid waste;
- (e) the disposal location by grid reference; and
- (f) the source of the contaminated solid waste.

Process monitoring

21. The Licence Holder must include in the Environmental Report required by condition 24:

- (a) the total volume of wastewater used for dust suppression during the reporting period; and

- (b) the results from the wastewater sampling.

Records and Reporting

22. The Licence Holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

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

23. The Licence Holder must

- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
- (b) prepare and submit to the CEO by no later than 60 days after the end of that annual period an Annual Audit Compliance Report in the approved form.

24. The Licence Holder must submit to the CEO an Environmental Report by 31 October 2023 and biennially thereafter. The report shall contain the monitoring results and data collected as a requirement of any condition and set out in Table 9 of this licence.

Table 9: Environmental Report

Condition	Requirement
-	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
2, 3 and 14	Limit exceedances
19	Monitoring of emissions to land
20	Contaminated solid waste records
21	Wastewater monitoring
22	Incidents and Complaints summary

25. The Licence Holder must ensure that the Environmental Report also contains:

- (a) any relevant process, production or operational data recorded under condition 17;
- (b) an assessment of the information contained within the report against previous monitoring results and Licence limits; and
- (c) 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.

26. The Licence Holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:

- (a) the calculation of fees payable in respect of this licence;

- (b) any maintenance of infrastructure that is performed in the course of complying with the conditions of this licence; and
- (c) complaints received under condition 22 of this licence.

27. The books specified under condition 26 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.

END OF CONDITIONS

Definitions

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

Table 10: Definitions

Term	Definition
ACM	asbestos containing material
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
annual period	a 12 month period commencing from 01 October until 30 September of the immediately following year.
AS/NZS 3816	means the Australia Standard AS/NZS 3816:1998 <i>Management of clinical and related wastes</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 5667.10	means the Australian Standard AS/NZS 5667.10 <i>Water Quality – Sampling – Guidance on sampling of waste waters</i>
asbestos	means the asbestiform variety of mineral silicates belonging to the serpentine or amphibole groups of rock-forming minerals and includes actinolite, amosite, anthophyllite, chrysolite, crocidolite, tremolite and any mixture containing 2 or more of those
asbestos fibres	has the meaning defined in the Guidelines for Assessment, Remediation and Management of Asbestos Contaminated Sites, Western Australia, (DOH, 2009)
averaging period	means the time over which a limit or target is measured or a monitoring result is obtained
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
clean fill	as defined in the Landfill Definitions.
controlled waste	has the definition in <i>Environmental Protection (Controlled Waste) Regulations 2004</i> .
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994 (WA)</i> and designated as responsible for the administration

Term	Definition
	of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986 (WA).</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA).</i>
HPDE	means high density polyethylene.
Inert Waste Type 1	as defined in the Landfill Definitions.
Inert Waste Type 2	as defined in the Landfill Definitions.
Landfill Definitions	means the <i>Landfill Waste Classification and Waste Definitions 1996 (as amended 2018)</i> .
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
NATA	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	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.
Putrescible Waste	as defined in the Landfill Definitions.
ROM	means Run of Mine
Special Waste Type 2	as defined in the Landfill Definitions.
Spot sample	means a discrete sample representative at the time and place at which the sample is taken
waste	has the same meaning given to that term under the EP Act.
Waste Type	identified in the Landfill Definitions, or in Schedule 1 of the <i>Controlled Waste Regulations 2004 (as applicable)</i> .

Schedule 1: Maps

Premises Map

The Premises boundary is shown in the map below.

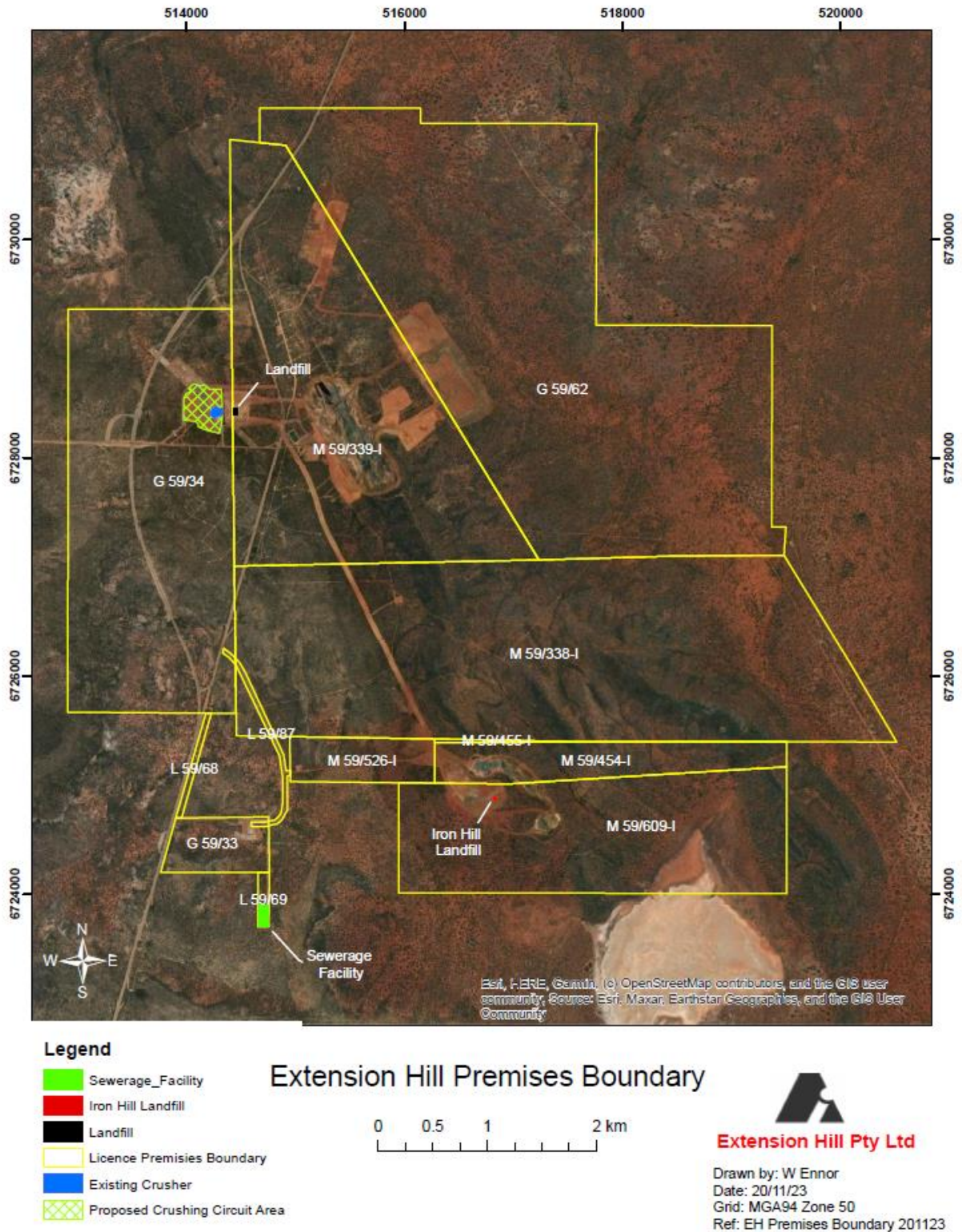


Figure 1: Premises Map

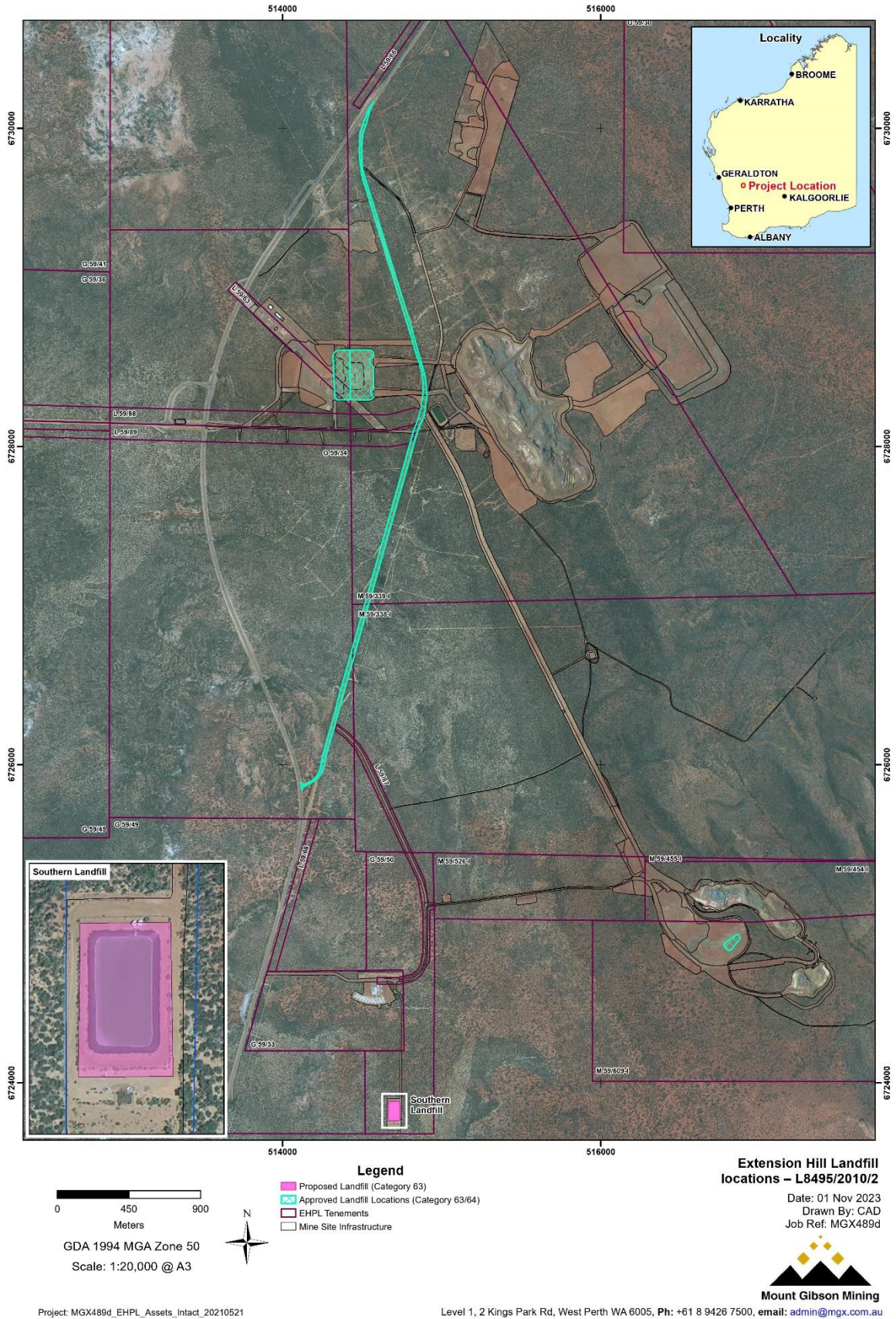


Figure 2: Category 63 additional Landfill locations for Inert Waste Type 1