



Licence number	L9313/2021/1
Licence holder	Fenix Shine Pty Ltd
ACN	668 900 061
Registered business address	1202 Hay Street, West Perth, WA 6005
DWER file number	DER2021/000539
Duration	20 June 2022 to 20 June 2027
Date of transfer	23 August 2023
Premises details	Shine Iron Ore Project Part of mining tenements: M59/406, M59/421 and M59/731 YALGOO WA 6635 As defined by the coordinates in Schedule 2

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore.	3,000,000 tonnes per annual period
Category 89: Putrescible landfill site.	250 tonnes per annual period

This transferred licence is granted to the licence holder, subject to the attached conditions, on 23 August 2023 by:

**A/SENIOR ENVIRONMENTAL OFFICER, INDUSTRY REGULATION
REGULATORY SERVICES**

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

Licence history

Date	Reference number	Summary of changes
20/06/2022	L9313/2021/1	New licence issued authorising category 5 operations (processing of metallic ore) and construction and operation of category 89 landfill.
23/08/2023	L9313/2021/1	Licence transfer from Mount Gibson Mining Limited to Fenix Shine Pty Ltd.

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:

Construction phase

Infrastructure and equipment

1. The works approval holder must:
 - (a) construct and/or install the infrastructure;
 - (b) in accordance with the corresponding design and construction requirements; and
 - (c) at the corresponding infrastructure location
 as set out in Table 1.

Table 1: Infrastructure and equipment construction requirements

Item Number	Site infrastructure and equipment	Construction requirements	Infrastructure location
1	Putrescible landfill	<ul style="list-style-type: none"> Landfill comprises a series of cells constructed as narrow trenches. Earthen bunds and other drainage features must be constructed around the landfill to redirect stormwater runoff away from open cells. The perimeter of any landfill cells must be: <ul style="list-style-type: none"> no less than 10 m from the outer face of the rehabilitated waste rock landform; at least 35 m of the barrier surrounding the landfill; at least 100 m of any surface water bodies at the landfill; and at least 3 metres of the highest level of water table at the landfill. Tipping area must be between 10 to 15 m in length and width (no more than 30 m) and less than 2 m above ground level. An effective barrier (e.g. fence) must be established and maintained around the landfill boundary. The barrier must be designed to restrict access by larger animals and contain the majority of windblown litter. Dust suppression controlled using water cart. 	Within waste rock landform on mining tenement M59/731, as shown on Figure 1, Schedule 1.
2	Operational area	<ul style="list-style-type: none"> Bunded areas (surrounding chemical and material storage) to have a minimum capacity of 110% of the largest container stored within it, or 25% of the volume of all containers, whichever is larger; Area graded towards stormwater detention ponds; and Surface water diversions to be constructed to divert clean surface water flow around operational areas. Culverts used where drains cross roads. 	As shown on Figure 2, Schedule 1.
3	Stormwater detention ponds	<ul style="list-style-type: none"> Combined design capacity of the two stormwater detention ponds to be sized to contain a 1/100 year, 72 hour rain fall event; 	As shown on Figure 2, Schedule 1.

Item Number	Site infrastructure and equipment	Construction requirements	Infrastructure location
		<ul style="list-style-type: none"> Each pond to be sized 55m long x 55m wide and 3.5m deep; and Excavated below natural ground level and with an inflow point to ensure drainage into pond. 	

Compliance reporting

2. The licence holder must within 30 days of each item of infrastructure required by condition 1 being constructed:
 - (a) undertake an audit of their compliance with the requirements of condition 1; and
 - (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.
3. The Environmental Compliance Report on required by condition 2 must include, as a minimum, the following:
 - (a) certification by a suitably qualified and experienced Engineer (eligible for membership of the Institute of Engineers Australia) that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;
 - (b) as constructed plans or a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and
 - (c) be signed by a person authorised to represent the licence holder and contains the printed name and position of that person.

Operational phase

Infrastructure and equipment

4. The licence holder may only commence operation for the site infrastructure and equipment identified in condition 5 where:
 - (a) an Environmental Compliance Report, as required by condition 2, has been submitted for all infrastructure listed in Table 1; and
 - (b) the CEO has notified the licence holder that the Environmental Compliance Report for that item of infrastructure, as required by condition, meets the requirements of that condition 2, meets the requirements of that condition; or
 - (c) where at least 21 business days have passed after the Environmental Compliance Report for that item of infrastructure, as required by condition 2, has been submitted to the CEO.
5. The licence holder must ensure that the site infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.

Table 2: Infrastructure and equipment operational requirements

Item Number	Site infrastructure and equipment	Operational requirement	Infrastructure location
Category 5 activities			
1	Crushing and screening plant	<ul style="list-style-type: none"> • Maintain as per manufacturer's specifications. • Dust suppression using sprinklers. • Record quantity of ore processed during operation. 	Figure 3, Schedule 1.
2	Stormwater detention ponds	<ul style="list-style-type: none"> • Freeboard maintained at a minimum of 500 mm. • Routine maintenance performed to remove captured sediment, where required. • To be pumped out if a hydrocarbon sheen is visually present and contaminated water contained for appropriate disposal off-site by a licensed waste disposal service. 	Figure 2, Schedule 1.
3	Operational area	<ul style="list-style-type: none"> • Store environmentally harmful materials in secure, covered, impervious and bunded areas with spill kits alongside. • Bunded areas (surrounding chemical and material storage) must have a minimum capacity of 100 % of the largest container stored within it, or 25 % of the volume of all containers, whichever is larger. • Surface water diversions, including culverts, to be maintained to divert clean surface water flow around operational areas. • Oily water separation system at tyre bay, light and heavy vehicle workshop, and vehicle washdown bay is maintained as per manufacturer's specifications. 	Figure 2, Schedule 1.
Category 89 activities			
4	Putrescible landfill	<ul style="list-style-type: none"> • Earthen bunds maintained to divert stormwater and surface runoff from open cells. • The perimeter of any landfill cells must be no less than 10 m from the outer face of the rehabilitated waste rock landform. • Tipping area must be between 10 to 15 m in length and width (no more than 30 m in length) and less than 2 m above ground level. • Landfill area to be inspected at least monthly to collect and return windblown waste to tipping area. • An effective barrier (e.g. fence) must be maintained around the landfill boundary. • Sufficient cover material must be maintained at the landfill site for the purpose of covering the tipping area of the landfill at least twice. • Used tyres must be temporarily stored within the landfill site prior to disposal in batches within a dedicated cell for tyre disposal. • No more than 100 used tyres shall be stored at the landfill site at any one time. • Used tyres must be stacked on their treads to aid access, movement and organisation. • Disposed waste material must be progressively covered, at least monthly. 	Figure 4, Schedule 1.

Item Number	Site infrastructure and equipment	Operational requirement	Infrastructure location
		<ul style="list-style-type: none"> Each landfill cell must be capped and contained upon reaching its storage capacity. The landfill shall initially be located within the first lift of the waste rock landform. As each waste rock lift is completed, the landfill must be closed and relocated to the next lift. Records maintained of volume of waste accepted and location of landfill cells during operation. 	

Monitoring

6. The licence holder must monitor treated wastewater emissions and record the results of all such monitoring in accordance with Table 3.

Table 3: Discharge monitoring requirements

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method	Discharge Limit
Oily water separator at washdown bay/ workshop	Washdown bay recycled water tanks	Total recoverable hydrocarbons	Quarterly	Spot sample	mg/L	AS/NZS 5667.1-1998; AS/NZS 5667.10-1998	15.0 mg/L

7. The licence holder must ensure that emissions from the discharge point listed in Table 3 for the corresponding parameter do not exceed the corresponding discharge limit when monitored in accordance with condition 3.
8. The licence holder must ensure that:
- all treated wastewater samples are collected and preserved in accordance with AS/NZS5667.1;
 - all wastewater sampling is conducted in accordance with AS/NZS5667.10; and
 - all wastewater samples are submitted to and tested by a laboratory with current NATA-accreditation for the parameters listed in Table 3.
9. The licence holder must ensure that quarterly monitoring is undertaken at least 45 days in between the days on which samples are taken in successive quarters.
10. The licence holder must ensure that all monitoring equipment used on the premises to comply with condition 5 is calibrated in accordance with the manufacturer's specifications.
11. The licence holder must record the results of all monitoring activity required by condition 5.

Records and reporting

12. The licence holder must maintain accurate and auditable books including the following records, information, reports and data required by this licence:
- the calculation of fees payable in respect of this licence;
 - the works conducted in accordance with condition 1 of this licence;

- (c) any maintenance of infrastructure that is performed in the course of complying with condition 4 of this licence;
 - (d) monitoring programmes undertaken in accordance with condition 5 of this licence; and
 - (e) complaints received under condition 13 of this licence.
- 13.** The books specified under condition 11 must:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original version(s) and any subsequent amendment 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.
- 14.** 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 complaints.
- 15.** 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 (AACR) in the approved form.
- 16.** The licence holder must:
- (a) prepare an environmental report that provides information in accordance with the requirements set out in Table 4 for the preceding two annual periods; and
 - (b) submit that environmental report to the CEO by no later than 25 August 2024 and biennially thereafter (25 August of the reporting year).

Table 4: Environmental Report requirements

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.
Condition 5, Table 2	<ul style="list-style-type: none"> • Quantity of ore processed (in tonnes) during operation; • Recorded volumes of waste accepted and location of landfill cells during operation; and • Volume of wastewater disposed offsite by licensed waste disposal service and appropriate documentation.
Condition 6, Table 3	<ul style="list-style-type: none"> • Laboratory data reports for quarterly treated wastewater monitoring, in

Condition	Requirement
	<p>accordance with Table 3;</p> <ul style="list-style-type: none"> • A tabulated data summary of monitoring dates and results; • An interpretation of monitoring data results, including comparison to historical trends; • Cause/reason should be provided if monitoring result for a particular month was not available; and • Any relevant information relating to the calibration of monitoring equipment or reports comprising details of any modified calibration methods.
Condition 14	Summary of complaints received during the annual period.

Definitions

In this licence, the terms in Table 5 have the meanings defined.

Table 5: Definitions

Term	Definition
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 25 June until 24 June of the year.
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
Department	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.
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</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
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.
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	has the same meaning given to that term under the EP Act.

Term	Definition
premises	
waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

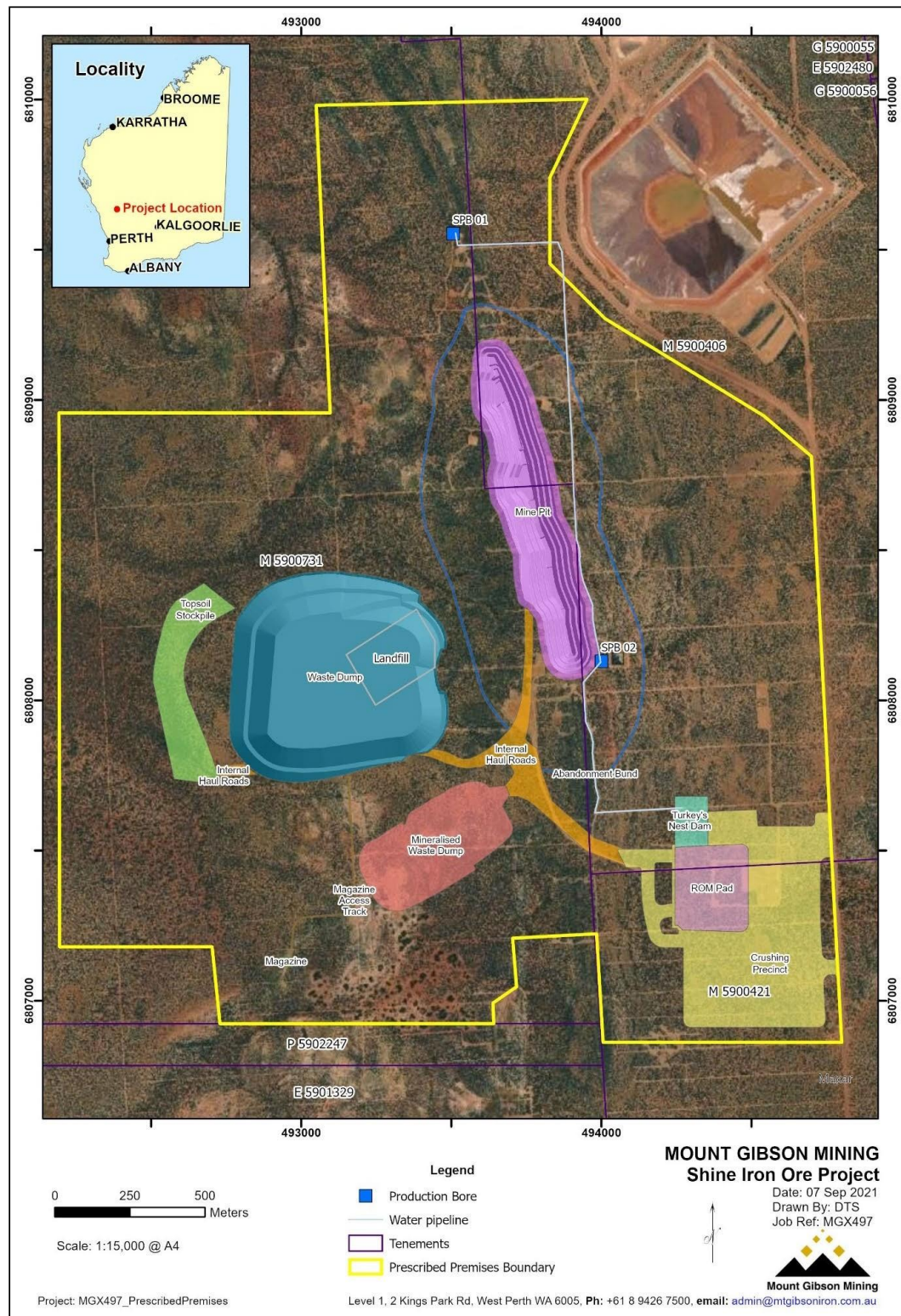


Figure 1: Map of the boundary of the prescribed premises.

L9313/2021/1 (23 August 2023)

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

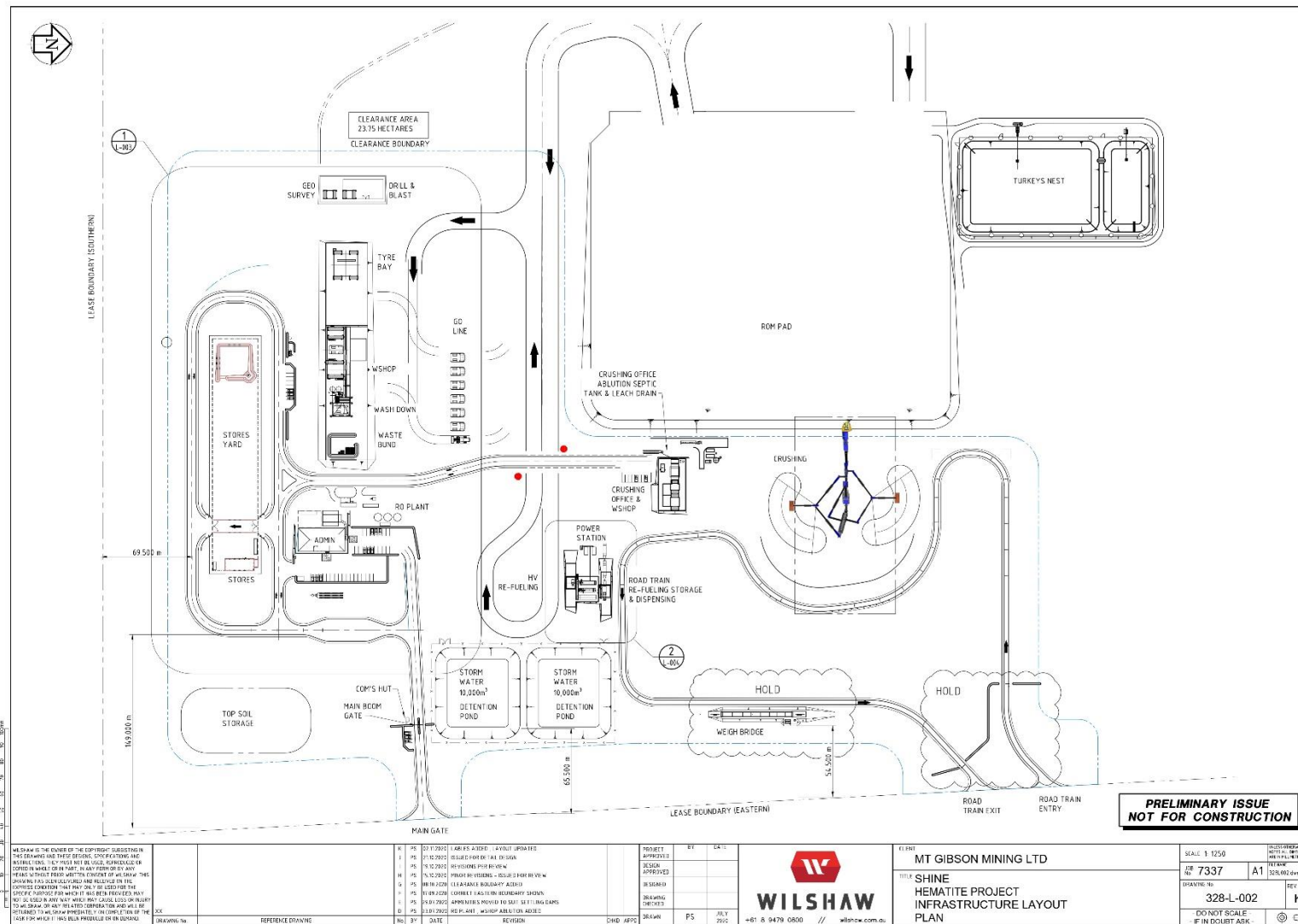


Figure 2: Layout of operational area and stormwater detention ponds.

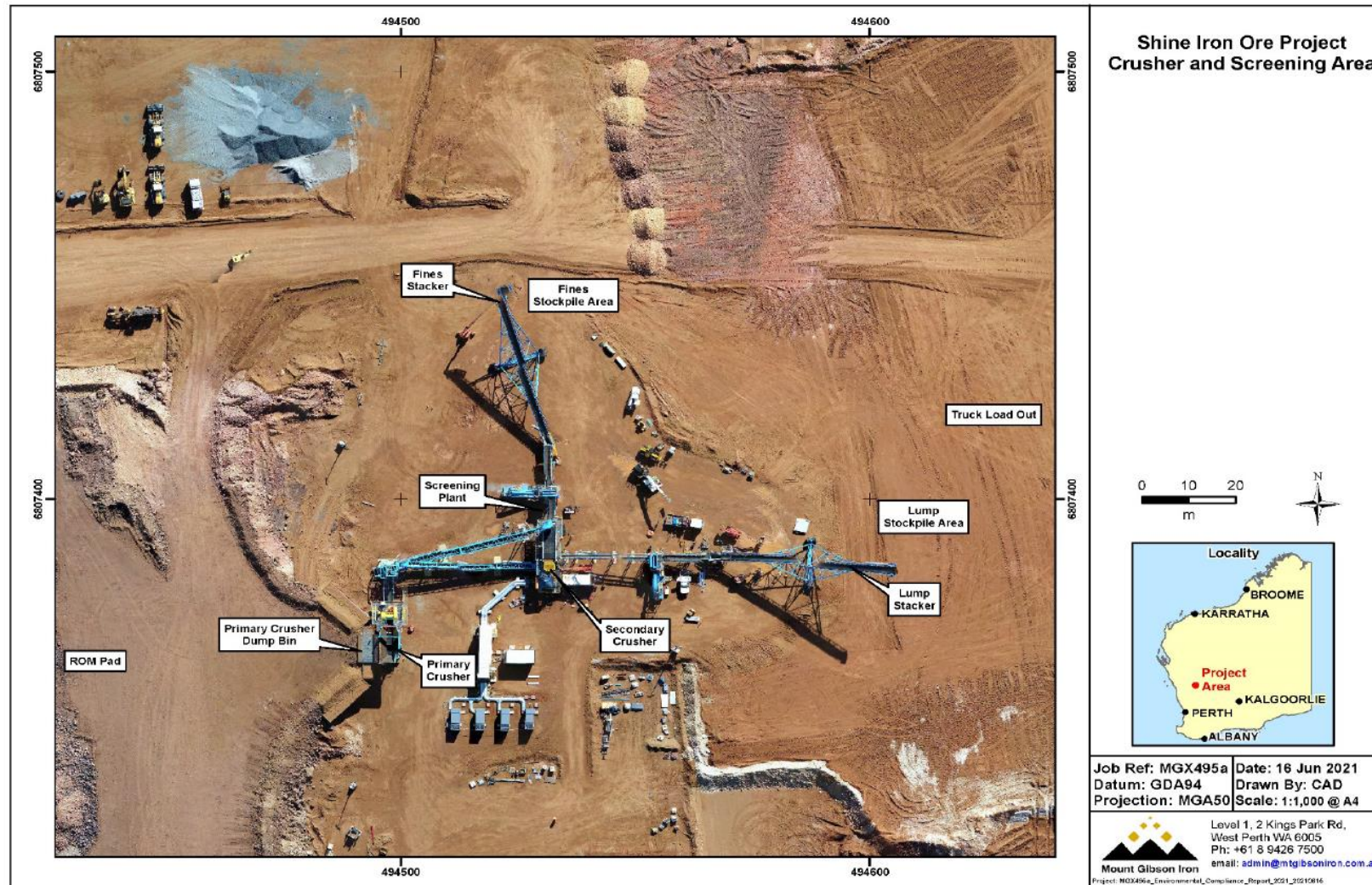


Figure 3: Layout of crushing and screening plant.

L9313/2021/1 (23 August 2023)

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

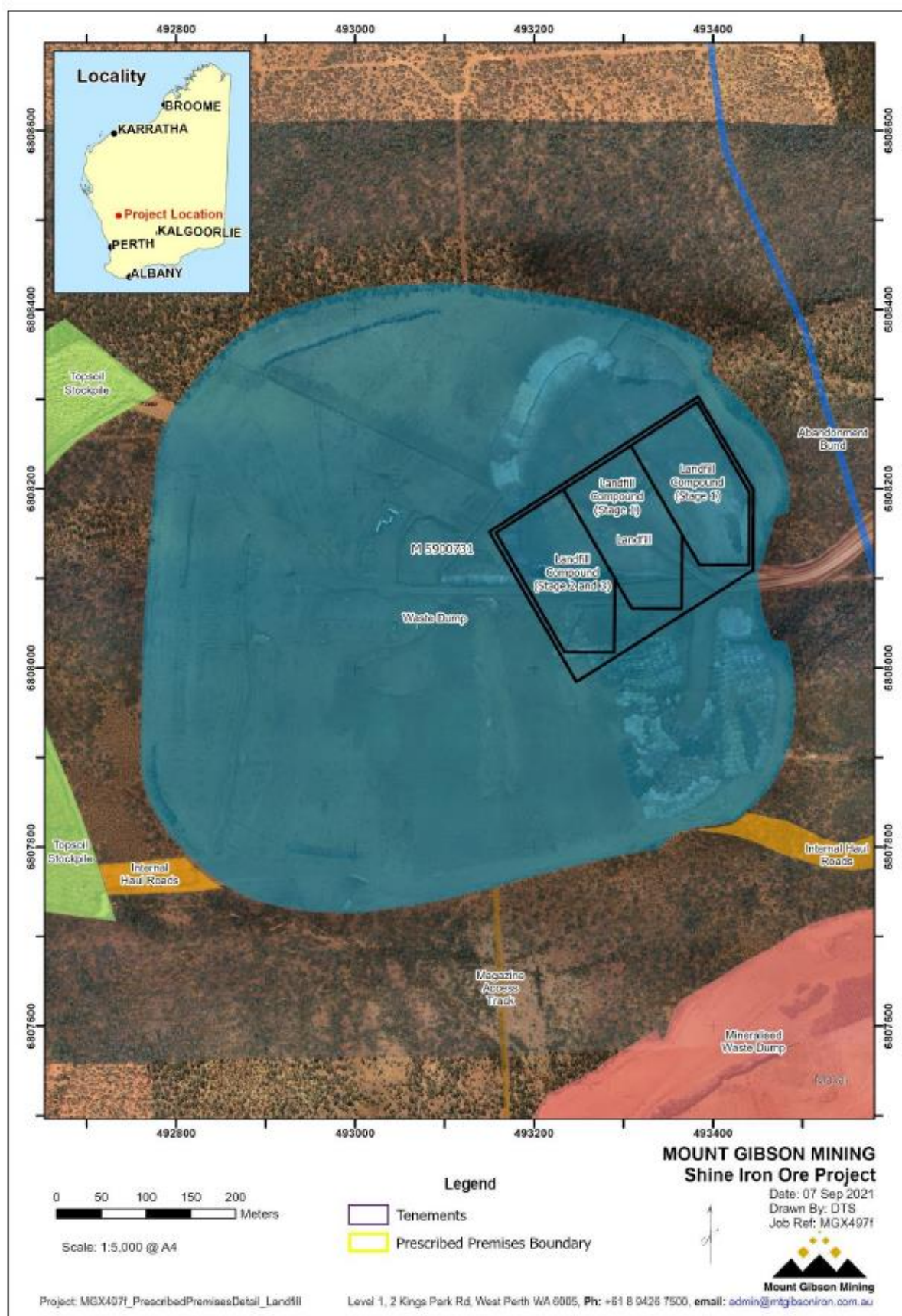


Figure 4: Map of the proposed putrescible landfill location.

L9313/2021/1 (23 August 2023)

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

Schedule 2: Premises boundary

The premises boundary is defined by the coordinates in Table 6.

Table 6: Premises boundary coordinates (GDA94)

Easting	Northing	Zone
494699.4	6808812	50
494749	6807854	50
494767.6	6807464	50
494767.6	6807463	50
494800.5	6806862	50
494005.5	6806862	50
493983.6	6807223	50
493976.9	6807223	50
493704.1	6807208	50
493717.2	6807047	50
493638.6	6806992	50
493641.5	6806924	50
492729.2	6806923	50
492703	6807180	50
492195	6807179	50
492193	6808957	50
492593	6808957	50
493096.4	6808957	50
493049.9	6809981	50
493540.8	6809992	50
493952.1	6810001	50
493827.9	6809739	50
493827.9	6809455	50
494011.8	6809271	50
494540.1	6808948	50
494699.4	6808812	50