



<b>Works approval number</b>	W5172/2012/1
<b>Works approval holder</b>	Onslow Iron Pty Ltd
<b>ACN</b>	649 012 395
<b>Registered business address</b>	20 Walters Drive Osborne Park WA 6017
<b>DWER file number</b>	2012/002153-1
<b>Duration</b>	11/06/2012 to 31/12/2025
<b>Date of issue</b>	15/12/2020
<b>Premises details</b>	West Pilbara Iron Ore Project Putrescible Landfill Legal description - Mining Tenement L08/68 within the coordinates 7548057N, 417188E 7547991N, 417299E 7547459N, 417108E 7547571N, 416816E CANE WA 6710

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i> )	Assessed design capacity
<b>Category 89: Putrescible landfill site:</b> premises (other than a clean fill premises) on which waste of a type permitted for disposal for this category of prescribed premises, in accordance with the <i>Landfill Waste Classification and Waste Definitions 1996</i> , is accepted for disposal.	3,675 tonnes per annual period

This works approval is granted to the works approval holder, subject to the attached conditions, on 23 May 2023, by:

Abbie Crawford  
**A/Manager, Waste Industries  
REGULATORY SERVICES**

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

## Works approval history

Date	Reference number	Summary of changes
11/06/2012	W5172/2012/1	Works approval granted
02/08/2012	W5172/2012/1	Works approval amended to include Phase 1 for 5 trenches and Phase 2 for 42 trenches during staged construction
04/06/2015	W5172/2012/1	Works approval amended to extend expiry date until 31/12/2016
15/12/2016	W5172/2012/1	Amendment Notice 1 to extend expiry date until 31/12/2018
07/12/2018	W5172/2012/1	Amendment Notice 2 to extend expiry date until 31/12/2020
15/12/2020	W5172/2012/1	Works approval amendment to extend expiry date until 31/12/2025
23/05/2023	W5172/2012/1	Works approval amended to remove staged construction, include construction waste into waste acceptance table, increase throughput, increase the number of landfill trenches from 47 to 74 and include time limited operations. Works approval holder details updated.

## Interpretation

In this works approval:

- (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 works approval:
  - (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 works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

## Works approval conditions

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

### Construction phase

#### Infrastructure and equipment

1. The works approval holder must:
  - (a) construct 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: Design and construction requirements**

	Infrastructure	Design and construction requirements	Infrastructure location
1.	Landfill trenches and supporting infrastructure	<ul style="list-style-type: none"> <li>Landfill trenches to be approximately 5 m in width, 30 m long and 3 to 5 m bgl;</li> <li>Base of landfill trenches to have a minimum separation distance of 3 m between the base of the trench and the highest seasonal groundwater table level;</li> <li>Base of trenches to be compromised of a clay layer;</li> <li>No more than 74 trenches may be constructed within the premises boundary;</li> <li>No trench to be constructed within 35 m of the premises boundary;</li> <li>Trenches to be approximately 10 m apart;</li> <li>Each trench to be constructed with an egress ramp;</li> <li>Each trench to be constructed with earthen diversion bunding to divert surface water runoff;</li> <li>Perimeter drain and fill batter, with scour protection, around the outside of the landfill area to divert clean stormwater;</li> <li>Stormwater management system to be constructed in a way that allows stormwater that has not come into contact with waste to settle out sediments prior to release offsite into natural drainage lines;</li> </ul>	Within the premises boundary as shown in Schedule 1: Maps; Premises map

	Infrastructure	Design and construction requirements	Infrastructure location
		<ul style="list-style-type: none"> <li>• The entire active landfill area shall be fenced with a lockable gate system;</li> <li>• Signage at the entrance of the facility informing users of management practices, accepted waste types and landfill manager contact details; and</li> <li>• Signage within the facility designating specific areas (tipping face, water collection sump).</li> </ul>	

## Compliance reporting

2. The works approval holder must within 30 calendar days of the initial five landfill cells 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 required by condition 2, must include as a minimum the following:
  - (a) certification by a suitably qualified civil or structural engineer that the initial five landfill cells 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 and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1;
  - (c) photographic evidence; and
  - (d) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

## Time limited operations phase

### Commencement and duration

4. The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 1 where the Environmental Compliance Report as required by condition 2 has been submitted by the works approval holder for the initial five landfill cells.
  
5. The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 6 (as applicable):

- (a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 4 for that item of infrastructure; or
- (b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 5(a).

### Time limited operations requirements

6. During time limited operations, the works approval holder must ensure that the premises 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 requirements during time limited operations**

	Site infrastructure and equipment	Operational requirement	Infrastructure location
1.	Landfill	<ul style="list-style-type: none"> <li>• Waste must be segregated into inert landfill trenches and putrescible landfill trenches;</li> <li>• Putrescible waste to be covered fortnightly with sufficient quantities of clean fill or other dense, inert and incombustible material;</li> <li>• Only waste generated from the construction and operation of the West Pilbara Iron Ore Project may be disposed of in the landfill area;</li> <li>• Excavated overburden to be placed around the edge of the landfill area;</li> <li>• Tipping area to be no longer than 30 meters;</li> <li>• Stormwater must be diverted away from landfill trenches; and</li> <li>• No burning of waste to occur.</li> </ul>	Within the active landfill area as shown in Schedule 1: Maps; Premises map

7. During time limited operations, the works approval holder must only accept onto the premises waste of a type that:
- (a) does not exceed the corresponding rate at which that waste is received; and
  - (b) meets the relevant acceptance specification,
- as set out in Table 3.

**Table 3: Waste acceptance criteria**

Waste type	Rate at which waste is received	Acceptance specification
Clean fill	N/A	Must meet the acceptance criteria for Class II landfills, as specified in the <i>Landfill waste classification and waste definitions (December 2019)</i> .
Inert waste type 1	Combined total of 3,120 tonnes per annual period	
Inert waste type 2		
Putrescible waste	Combined total of 555 tonnes per annual period	Must meet the acceptance criteria for Class II landfills, as specified in the <i>Landfill waste classification and waste definitions (December 2019)</i> .

### Monitoring during time limited operations

8. During time limited operations, the works approval holder must record the total amount of waste accepted onto the premises, for each waste type listed in Table 4, in the corresponding unit, and for each corresponding time period, as set out in Table 4.

**Table 4: Monitoring during time limited operations**

Waste type	Unit	Time period
Inert waste type 1	Tonnes	Monthly
Inert waste type 2		
Putrescible waste		

### Compliance reporting

9. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations or 30 calendar days before the expiration date of the works approval, whichever is the sooner.
10. The works approval holder must ensure the report required by condition 9 includes the following:
- a summary of the time limited operations, including timeframes and volumes of waste landfilled;
  - a summary of number of trenches constructed and operated;
  - a summary of the environmental performance of all infrastructure as constructed or installed (as applicable);
  - a review of performance and compliance against the conditions of the works approval; and

- (e) where the manufacturer's design specifications and the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

## Records and reporting (general)

11. The works approval holder must record the following information in relation to complaints received by the works approval 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 works approval holder to investigate or respond to any complaint.
12. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:
  - (a) the works conducted in accordance with condition 1;
  - (b) any maintenance of infrastructure that is performed in the course of complying with condition 1;
  - (c) monitoring programmes undertaken in accordance with condition 8; and
  - (d) complaints received under condition 11.
13. The books specified under condition 12 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 works approval holder for the duration of the works approval; and
  - (d) be available to be produced to an inspector or the CEO as required.

## Definitions

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

**Table 5: Definitions**

Term	Definition
annual period	a 12 month period commencing from 1 January until 31 December of the immediately following year.
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V Division 3 of the EP Act.
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.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure has been constructed in accordance with the works approval.
EP Act	<i>Environmental Protection Act 1986</i> (WA).
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA).
premises	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 works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
waste	has the same meaning given to that term under the EP Act.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.



Term	Definition
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

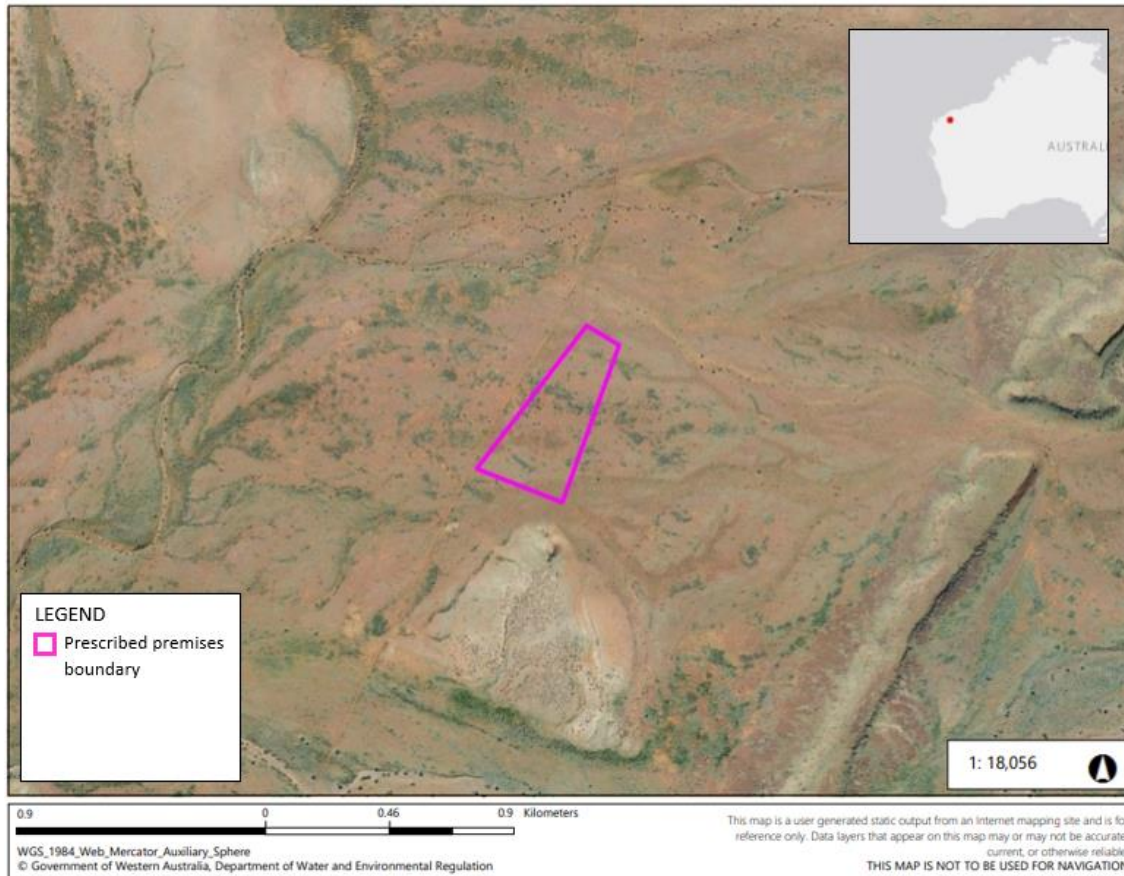
---

**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**

W5172/2012/1 (23 May 2023)  
IR-T05 Works approval template (v6.0) (September 2022)

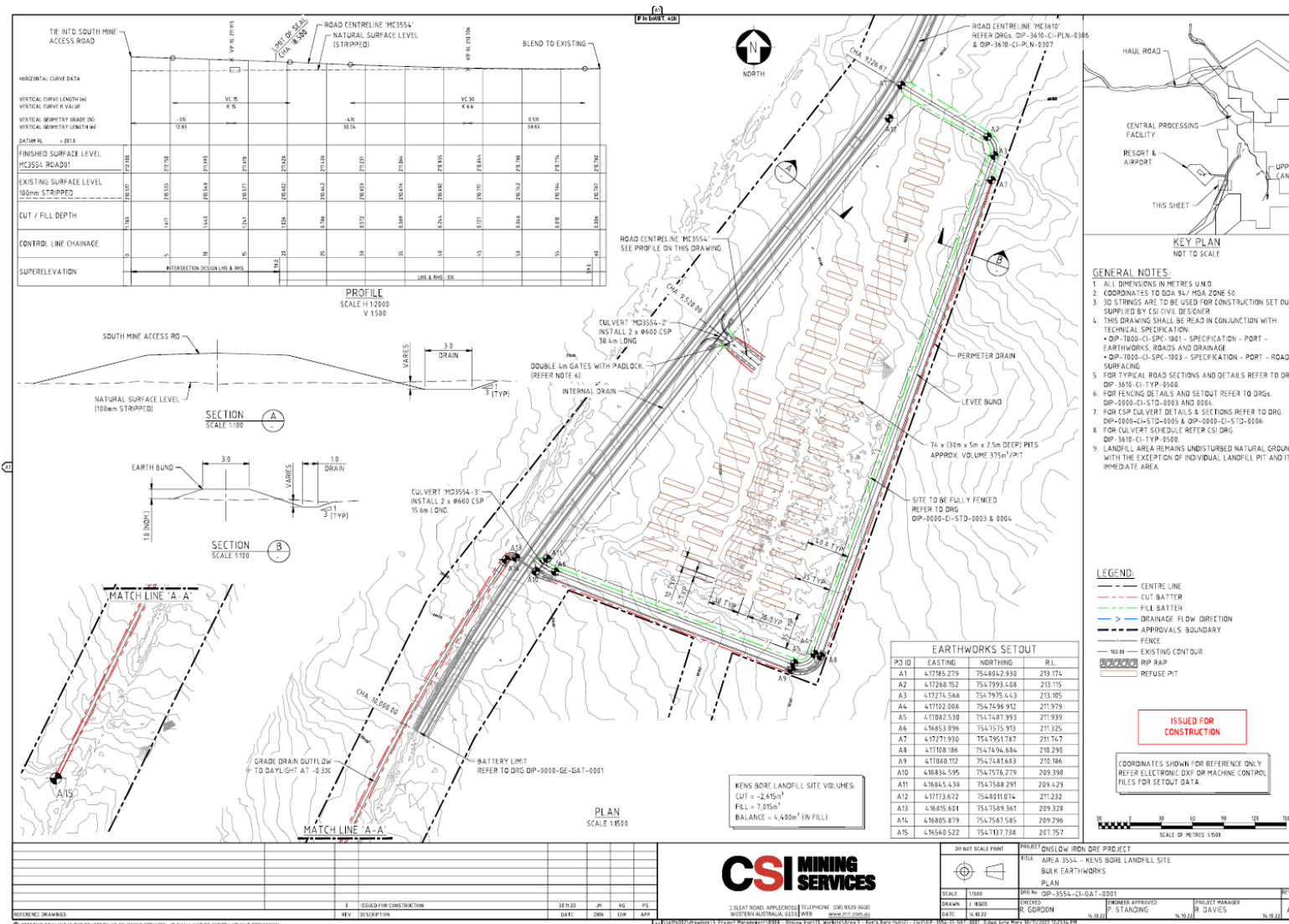


Figure 2: Site plan

W5172/2012/1 (23 May 2023)  
 IR-T05 Works approval template (v6.0) (September 2022)