



Government of **Western Australia**  
Department of **Environment Regulation**

Your ref L8820/2014/1  
Our ref DER2014/000983  
Enquiries Sonya Poor  
Phone 9182 2009  
Fax 9144 1118  
Email [sonya.poor@der.wa.gov.au](mailto:sonya.poor@der.wa.gov.au)

Mr Tim Carr  
Specialist Environmental Advisor  
Rio Tinto Projects and Development  
GPO Box B66  
PERTH WA 6837

Dear Mr Carr

**ENVIRONMENTAL PROTECTION ACT 1986: LICENCE GRANTED**

**Premises:** Brockman 2/Brockman 4 Access Road Screening Plant  
**Licence Number:** L8820/2014/1

A licence under the *Environmental Protection Act 1986* (the Act) has been granted for the above premises. The Department of Environment Regulation will advertise the issuing of this licence in the public notices section of *The West Australian* newspaper.

The licence includes attached conditions. Under section 58(1) of the Act, it is an offence to contravene a condition of a licence. This offence carries a penalty of up to \$125,000 and a daily penalty of up to \$25,000.

In accordance with section 102(1)(c) of the Act, you have 21 days to appeal the conditions of the licence. Under section 102(3)(a) of the Act, any other person may also appeal the conditions of the licence. To lodge an appeal contact the Office of the Appeals Convenor on 6467 5190 or by email at [admin@appealsconvenor.wa.gov.au](mailto:admin@appealsconvenor.wa.gov.au).

Where a licence is issued for more than one year it requires payment of an annual fee and will cease to have effect if the fee is unpaid. It is the occupier's responsibility to lodge a fee application and pay the annual fee in sufficient time to avoid incurring a late payment fee and for processing to be completed before the licence anniversary date.

If you have any queries regarding the above information, please contact Sonya Poor on 9182 2009.

Yours sincerely

Danielle Eyre  
Officer delegated under section 20  
of the *Environmental Protection Act 1986*

Thursday, 12 June 2014



# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** Hamersley Iron Pty Limited

**Licence:** L8820/2014/1

**Registered office:** Level 22, Central Park  
152-158 St Georges Terrace  
PERTH WA 6000

**ACN:** 004 558 276

**Premises address:** Brockman 2/Brockman 4 Access Road Screening Plant  
Part of L47/141, part of L47/153 and part of AML70/4  
ROCKLEA WA 6751  
As depicted in Schedule 1

**Issue date:** Thursday, 12 June 2014

**Commencement date:** Monday, 16 June 2014

**Expiry date:** Saturday, 15 June 2019

**Prescribed premises category**  
Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved premises production or design capacity
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	50,000 tonnes or more per year	2,500,000 tonnes per annual period

**Conditions**

This Licence is subject to the conditions set out in the attached pages.

.....  
Officer delegated under section 20  
of the *Environmental Protection Act 1986*



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## Introduction

This Introduction is not part of the Licence conditions.

### DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER 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. DER 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/Licensee 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: <http://www.slp.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**

Rio Tinto Iron Ore (RTIO) operates the Brockman 4 and Brockman 2 iron ore mines. Current access between the two operations is restricted to an unsealed road, which is prone to flooding and therefore considered inappropriate and unsafe to support the number and type of vehicular movements that require long term access between the two mine sites. In order to improve safety, a fully sealed, all weather road is to be constructed to provide primary access between the Brockman 4 and Brockman 2 mine sites. The road will cover a distance of approximately 30 kilometres (km) and comprise of a corridor up to 40 metres (m) wide to enable safe, two way passage of heavy and light vehicles.

As part of the construction of the base coarse layer of the road, suitable material is required to be sourced from adjacent borrow pits. Hamersley Iron Pty Limited (Hamersley Iron), a subsidiary of RTIO, is proposing to operate a screening plant (the plant) to provide the required quantities of material for construction earthworks. The plant will be run on an as needs basis and therefore will only be operating intermittently during daylight hours for approximately six months. The plant has a design capacity of 2,500,000 tonnes per year, and approximately 172,000 tonnes of material is to be processed through the plant across the five borrow pits to recover approximately 137,500 tonnes of material. Once the desired volumes of borrow material are screened, the plant is to be mobilised offsite.

The key surrounding environmental features to the project site include:

- Karijini National Park, which is located approximately 65km east;
- Millstream-Chichester National Park, which lies approximately 97km north;
- Boolgeeda Creek, which is located approximately 1km south of the most southern borrow pit;
- Themeda Grassland Population, 19.3km north; and
- Brockman Cracking Clays, 29km north-east.

The plant will be located in areas previously cleared for the sourcing of borrow material . As borrow material used in the plant is exhausted, or enough suitable material has been recovered for use in the section of road, the plant will be transported to the next cleared borrow pit. This process will continue through the five proposed borrow pit areas.

Borrow or other feed material is fed into the hopper of the plant via an excavator or front end loader. The target particle size (screen setting) is approximately 40 millimetres (mm). All larger particles are stockpiled and utilised for rock protection around culverts and/or drains, and undersize material will be used as backfill within the borrow pit. Suitable material stockpiled from the screen conveyors is loaded into trucks for transport and use on the road.

This Licence is for the operation of a new facility established under works approval W5618/2014/1.

The licenses and works approvals issued for the Premises since 16/04/2014 are:



Instrument log		
Instrument	Issued	Description
W5618/2014/1	16/04/2014	New application for crushing and screening plant
L8820/2014/1	12/06/2014	New Licence for crushing and screening plant

#### 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 General

#### 1.1 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:

'Act' means the *Environmental Protection Act 1986*;

'annual period' means the inclusive period from 1 January to 31 December in that year;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;

Manager Licensing (North West)  
Department of Environment Regulation  
PO Box 835  
KARRATHA WA 6714  
Telephone: (08) 9182 2000  
Facsimile: (08) 9144 1118  
Email: industryregpilbara@der.wa.gov.au;

'code of practice for the storage and handling of dangerous goods' means document titled "Storage and handling of dangerous goods: Code of Practice" published by the Department of Mines and Petroleum, as amended from time to time;

'dangerous goods' has the meaning defined in the *Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007*;

'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;

'fugitive emissions' means all emissions not arising from point sources;

'Licence' means this Licence numbered L8820/2014/1 and issued under the Act;

'Licensee' means the person or organisation named as Licensee on page 1 of the Licence;

'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

'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.

## 1.2 General conditions

- 1.2.1 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.
- 1.2.2 The Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.
- 1.2.3 The Licensee, except where storage is prescribed in section 1.3, shall ensure that environmentally hazardous materials are stored in accordance with the code of practice for the storage and handling of dangerous goods.
- 1.2.4 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.
- 1.2.5 The Licensee 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.

Note1: The *Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.

## 1.3 Premises operation

There are no specified conditions relating to Premises operation in this section.

# 2 Emissions

## 2.1 General

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

### 2.2-2.4 Point source emissions to air, surface water and groundwater

There are no specified conditions relating to point source emissions to air, surface water or groundwater in these sections.

## 2.5 Emissions to land

There are no specified conditions relating to emissions to land in this section.



## **2.6 Fugitive emissions**

2.6.1 The Licensee shall use all reasonable and practical measures to prevent and where that is not practicable to minimise dust emissions from the Premises.

## **2.7 Odour**

There are no specified conditions relating to odour in this section.

## **2.8 Noise**

There are no specified conditions relating to noise in this section.

# **3 Monitoring**

There are no specified conditions relating to monitoring in this section.

# **4 Improvements**

There are no specified improvement conditions in this section.

# **5 Information**

## **5.1 Records**

5.1.1 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 5.1.1(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.

5.1.2 The Licensee 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.

5.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee 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.

5.1.4 The Licensee 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.

## **5.2 Reporting**

5.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by the 30 April. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.





<b>Table 5.2.1: Annual Environmental Report</b>		
<b>Condition or table (if relevant)</b>	<b>Parameter</b>	<b>Format or form<sup>1</sup></b>
-	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
5.1.3	Compliance	Annual Audit Compliance Report (AACR)
5.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

### 5.3 Notification

5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO in accordance with the notification requirements of the table.

<b>Table 5.3.1: Notification requirements</b>			
<b>Condition or table (if relevant)</b>	<b>Parameter</b>	<b>Notification requirement<sup>1</sup></b>	<b>Format or form<sup>2</sup></b>
2.1.1	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.	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	Part B: As soon as practicable	

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

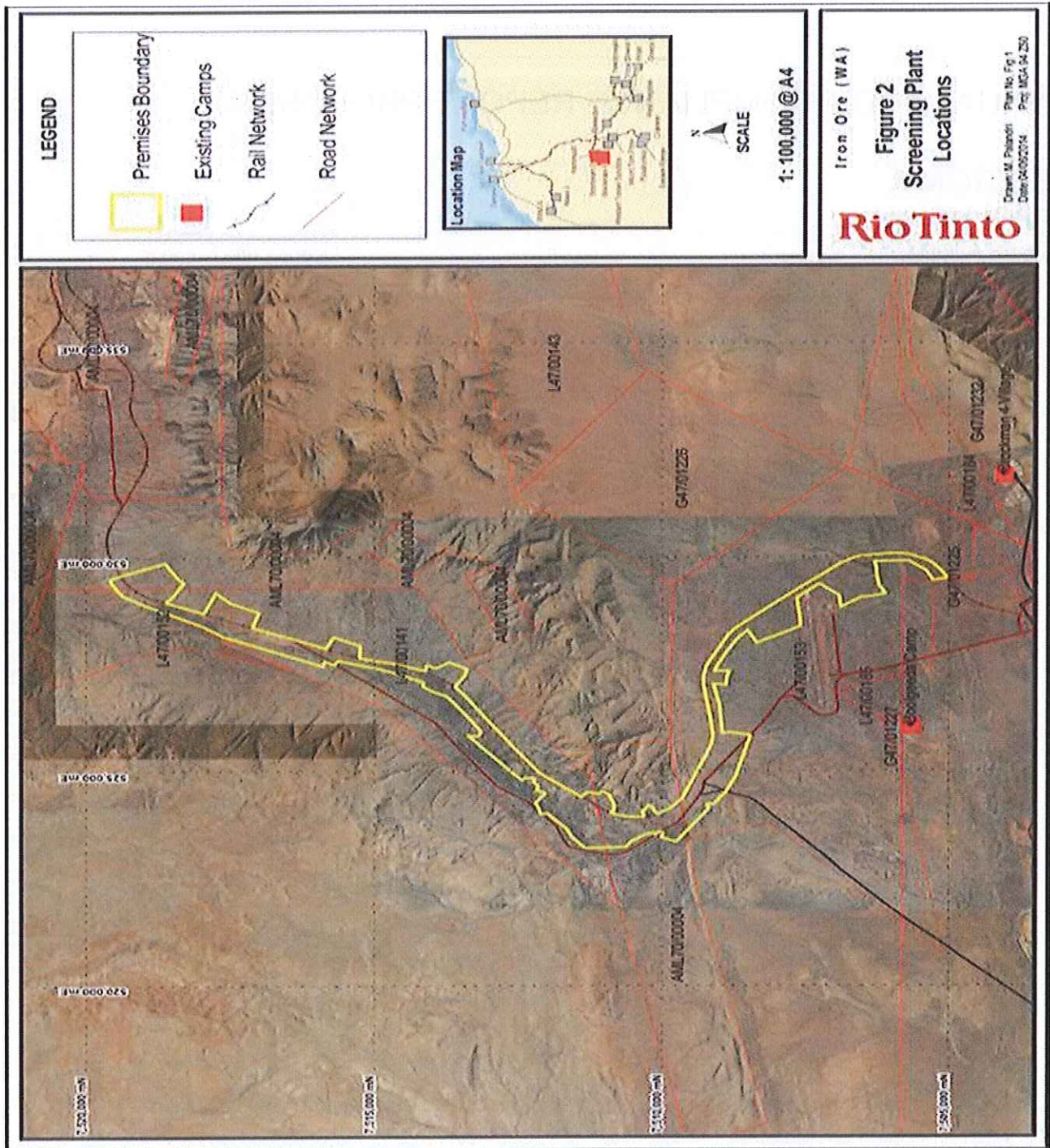
Note 2: Forms are in Schedule 2



# Schedule 1: Maps

## Premises map

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





## Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

### ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

#### SECTION A

##### LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

#### STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the Licence complied with within the reporting period? (please tick the appropriate box)

Yes  Please proceed to Section C

No  Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



## SECTION B

### DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes	<input type="checkbox"/> Reported to DER verbally Date _____
	<input type="checkbox"/> Reported to DER in writing Date _____
<input type="checkbox"/> No	
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



## SECTION C

### SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) must only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

POSITION: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

SEAL (if signing under seal)



Licence: L8820/2014/1  
Form: N1

Licensee: Hamersley Iron Pty Limited  
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	

<b>Notification requirements for the breach of a limit</b>	
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	

<b>Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution</b>	
Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken , or intended to be taken, to stop any emission	
Description of the failure or accident	



### 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	
Signature on behalf of Hamersley Iron Pty Limited	
Date	



# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** Hamersley Iron Pty Limited

**Licence:** L8820/2014/1

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**Registered office:** Level 22, Central Park  
152-158 St Georges Terrace  
PERTH WA 6000

**ACN:** 004 558 276

**Premises address:** Brockman 2/Brockman 4 Access Road Screening Plant  
Part of L47/141, part of L47/153 and part of AML70/4  
ROCKLEA WA 6751

**Issue date:** Thursday, 12 June 2014

**Commencement date:** Monday, 16 June 2014

**Expiry date:** Saturday, 15 June 2019

### Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue a Licence. DER considers that in reaching this decision, it has taken into account all relevant considerations and legal requirements and that the Licence and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by:

Sonya Poor  
Licensing Officer

Decision Document authorised by:

Alana Kidd  
Manager Licensing





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### 1 Purpose of this Document

This Decision Document explains how DER has assessed and determined the application for a Works Approval or Licence, and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

#### Works approval and licence conditions

DER has three types of conditions that may be imposed on Works Approvals and Licences. They are as follows;

##### Standard conditions (SC)

DER has standard conditions that are imposed on all Works Approvals and Licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on Works Approvals and Licences:

Works Approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

##### Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on Works Approvals and Licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any Licence. The inclusion of any optional standard conditions is justified in Section 4 of this document.

##### Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few Licences. Where used, justification for the application of these conditions will be included in Section 4.



## 2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/>	New Licence <input checked="" type="checkbox"/>
	Licence amendment <input type="checkbox"/>	Works Approval amendment <input type="checkbox"/>
Activities that cause the premises to become prescribed premises	Category number(s) 12	Assessed design capacity 2,500,000 tonnes per year
Application verified	Date: 29/04/2014	
Application fee paid	Date: 7/05/2014	
Works Approval has been complied with	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Compliance Certificate received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome	N/A	
Is the proposal a Major Resource Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If Yes include details of which EPP(s) here.		
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If Yes, include details here, eg Site is subject to SO <sub>2</sub> requirements of Kwinana EPP.		



### 3 Executive summary of proposal

Rio Tinto Iron Ore (RTIO) operates the Brockman 4 and Brockman 2 iron ore mines. Current access between the two operations is restricted to an unsealed road, which is prone to flooding and therefore considered inappropriate and unsafe to support the number and type of vehicular movements that require long term access between the two mine sites. In order to improve safety, a fully sealed, all weather road is to be constructed to provide primary access between the Brockman 4 and Brockman 2 mine sites. The road will cover a distance of approximately 30 kilometres (km) and comprise of a corridor up to 40 metres (m) wide to enable safe, two way passage of heavy and light vehicles.

As part of the construction of the base coarse layer of the road, suitable material is required to be sourced from adjacent borrow pits. Hamersley Iron Pty Limited (Hamersley Iron), a subsidiary of RTIO, is proposing to operate a screening plant (the plant) to provide the required quantities of material for construction earthworks. The plant will be run on an as needs basis and therefore will only be operating intermittently during daylight hours for approximately six months. The plant has a design capacity of 2,500,000 tonnes per year, and approximately 172,000 tonnes of material is to be processed through the plant across the five borrow pits to recover approximately 137,500 tonnes of material. Once the desired volumes of borrow material are screened, the plant is to be mobilised offsite.

The plant will operate on L47/141, L47/153 and AML70/4, which is in close proximity to the Hamersley Iron rail alignment between Brockman 2 and Brockman 4 mines, and is situated approximately 60km north of Tom Price.

The key surrounding environmental features to the project site include:

- Karijini National Park, which is located approximately 65km east;
- Millstream-Chichester National Park, which lies approximately 97km north;
- Boolgeeda Creek, which is located approximately 1km south of the most southern borrow pit;
- Themeda Grassland Population, 19.3km north; and
- Brockman Cracking Clays, 29km north-east.

The plant will be located in areas previously cleared for the sourcing of borrow material . As borrow material used in the plant is exhausted, or enough suitable material has been recovered for use in the section of road, the plant will be transported to the next cleared borrow pit. This process will continue through the five proposed borrow pit areas. The coordinates for this borrow pits are:

- B10 – E 526 890 N 7 514 070;
- B12 – E 525 340 N 7 512 740;
- B13 – E 524 100 N 7 511 200;
- B18 – E 528 500 N 7 508 100; and
- B19 – E 529 400 N 7 506 800.

Borrow or other feed material is fed into the hopper of the plant via an excavator or front end loader. The target particle size (screen setting) is approximately 40 millimetres (mm). All larger particles are be stockpiled and utilised for rock protection around culverts and/or drains, and undersize material will be used as backfill within the borrow pit. Suitable material stockpiled from the screen conveyors is loaded into trucks for transport and use on the road.



## 4 Decision table

All applications are assessed under the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and the risk matrix attached to this Decision Document in Section 6. Where other references have been used in making the decision they are detailed in the decision table.

DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
<b>General conditions</b>	L1.2.3 - L1.2.5.	OSC.	<p><b>Operation</b>  <i>Emission Significance - 2</i>  <i>Socio-political context</i> - Low concern or interest.  <i>Risk Assessment</i> – D – EIPs, other management mechanisms.</p> <p>Diesel fuel required for heavy vehicles and the screening plant is to be sourced from the nearby Brockman 2 or Brockman 4 mines and transported around site in self-bunded purpose built fuel trailers to provide diesel on an as needs basis. All other hydrocarbons (oils/greases) required for servicing are sourced from a service truck or co-located at a separate laydown yard/temporary construction workshop used for the main road construction, which includes the following control and management measures:</p> <ul style="list-style-type: none"> <li>• all hydrocarbon and chemicals have secondary containment;</li> <li>• all storage containers and areas are appropriately labelled as required by legislation;</li> <li>• the Material Safety Data Sheets for all chemicals onsite are available and accessible for reference;</li> <li>• where applicable, all environmentally hazardous materials are stored and managed in accordance with the Code of Practice for the Storage and handling of dangerous goods; and</li> <li>• all refuelling and servicing requires the use of drip trays or absorbent matting (when servicing) to contain potential spills/drips.</li> </ul>	<p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004.</i></p> <p>Australian Standard 1940-2004 The storage and handling of flammable and combustible liquids.</p> <p>Department of Mines and Petroleum code of practice for the storage and handling of dangerous goods.</p>



**DECISION TABLE**

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
			<p>Spill kit equipment is located near all high risk contamination points such that they are available for immediate use. All site vehicles and machinery also carry spill kits.</p> <p>Within each borrow pit, the plant is setup in a location that is slightly graded so that all potentially contaminated surface water runoff within the plant area due to storm events is directed to a small retention basin prior to discharge from the borrow area. The retention basin provides retention time to reduce any potential sediment loading.</p> <p>All uncontaminated stormwater is directed around the plant and stockpile areas via diversion bunds or grading.</p> <p>Conditions relating to the storage of environmentally hazardous materials, recovery, removal and disposal of spills and stormwater management are implemented on the licence via conditions L1.2.3, L1.2.4 and L1.2.5 respectively.</p>	
Premises operation	L1.3.	N/A.	No specified conditions relating to Premises operation will be added to the licence.	N/A.
Emissions general	L2.1.1.	OSC.	Descriptive limits are set through condition L2.6 of the licence therefore OSC L2.1.1 regarding recording and investigation of any descriptive or numerical limits or targets has been included.	General provisions of the <i>Environmental Protection Act 1986</i> .
Point source emissions to air including monitoring	L2.2 and L3.2.	N/A.	<p><b>Operation</b>  <i>Emission Significance - 1</i>  <i>Socio-political context - No concern or interest.</i>  <i>Risk Assessment - E - No regulation, other management mechanisms.</i></p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p>



**DECISION TABLE**

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
<p><b>Point source emissions to surface water including monitoring</b></p>	L2.3 and L3.3.	N/A.	<p>No significant point source air emissions are expected from the operation of the plant.</p> <p>No specified conditions relating to point source emissions to air or the monitoring of these emissions are required to be added to the licence.</p>	
			<p><b>Operation</b>  <i>Emission Significance – 1</i>  <i>Socio-political context – No concern or interest.</i>  <i>Risk Assessment – E – No regulation, other management mechanisms.</i></p> <p>There will be no point source emissions to water during the operation of the plant.</p> <p>The plant will be situated in suitable areas located away from major drainage lines. Surface drainage is dominated by a small number of ephemeral drainage lines that flow only for a short period during significant rainfall events. These drainage lines flow towards Boolgeeda Creek (an ephemeral watercourse) crossing the southern section of the existing access road.</p> <p>The northern most portion of the project area intersects an ephemeral drainage line, which flows towards Duck Creek, located approximately 10km north.</p> <p>No specified conditions relating to point source emissions to water or the monitoring of such emissions are required to be added to the licence.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.  <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p>



**DECISION TABLE**

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Point source emissions to groundwater including monitoring	L2.4 and L3.4.	N/A.	<p><b>Operation</b> Emission Significance – 1 Socio-political context – No concern or interest. Risk Assessment – E – No regulation, other management mechanisms.</p> <p>There will be no point source emissions to groundwater during the operation of the plant. Groundwater in the area ranges between 30 to 100m below the surface, with water quality fresh to slightly brackish.</p> <p>No specified conditions relating to point source emissions to groundwater or the monitoring of such emissions are required to be added to the licence.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>. <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p>
Emissions to land including monitoring	L2.5 and L3.5.	N/A.	<p><b>Operation</b> Emission Significance – 1 Socio-political context – Low concern or interest. Risk Assessment – E – No regulation, other management mechanisms.</p> <p>There will be no significant discharges to land generated from the operation of the plant.</p> <p>No solid or liquid wastes are expected to be generated during the operation of the plant. Any putrescible wastes generated from crib/office areas are initially kept in dedicated waste storage bins onsite prior to collection and disposal to an appropriate local off-site landfill.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>. <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>. <i>Environmental Protection (Controlled Waste) Regulations 2004</i>.</p>
Fugitive emissions	L2.6.	OSC.	<p><b>Operation</b> Emission Significance – 2</p>	<p>General provisions of the <i>Environmental</i></p>



**DECISION TABLE**

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
			<p>Socio-political context – Low concern or interest.</p> <p>Risk Assessment – D – EIPs, other management mechanisms.</p> <p>During operation of the plant, dust is anticipated to be generated due to the abrasive nature of the process. To ensure dust emissions are reduced as far as practicable, the borrow (feed) stockpile is sprayed to condition the soil prior to it being fed into the plant. This increases the specific gravity and bonding between the small soil particles and minimises the dust generated as the screening occurs. The plant also employs hydraulically angle-adjustable stockpiling conveyors to enable the reduction of drop heights.</p> <p>A water cart has been employed to dampen work areas, access roads and stockpiles to minimise dust lift-off during storage and handling of borrow and screened material.</p> <p>There are no light emissions as part of the operation of the plant, with all works to be conducted during daylight hours.</p> <p>Descriptive requirements for dust emissions are set through licence condition L2.6.</p>	<p>Protection Act 1986.</p> <p>Environmental Protection (Unauthorised Discharges) Regulations 2004.</p>
Odour	L2.7.	N/A.	<p><b>Operation</b></p> <p>Emission Significance – 1</p> <p>Socio-political context – No concern or interest.</p> <p>Risk Assessment – E – No regulation, other management mechanisms.</p> <p>No significant odour emissions are expected from the operation of the plant.</p>	<p>General provisions of the Environmental Protection Act 1986.</p>





**DECISION TABLE**

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
			No specified conditions relating to odour are required to be added to the licence.	
	L2.8.	N/A.	<p><b>Operation</b> Emission Significance – 1 Socio-political context – No concern or interest. Risk Assessment – E – No regulation, other management mechanisms.</p> <p>Noise emissions will not be significant during the operation of the plant due to the location of the plant in a remote area and there being no noise sensitive premises within close proximity to the plant.</p> <p>Hammersley Iron have committed to complying with the <i>Environmental Protection (Noise) Regulations 1997</i>.</p> <p>No specified conditions relating to noise are required to be added to the licence.</p>	General provisions of the <i>Environmental Protection Act 1986</i> . <i>Environmental Protection (Noise) Regulations 1997</i> .
<b>Monitoring general</b>	L3.1.	N/A.	No specified conditions relating to general monitoring are required to be added to the licence.	N/A.
<b>Monitoring of inputs and outputs</b>	L3.6.	N/A.	No specified conditions relating to monitoring of inputs and outputs are required to be added to the licence.	N/A.
<b>Process monitoring</b>	L3.7.	N/A.	No specified conditions relating to process monitoring are required to be added to the licence.	N/A.
<b>Ambient quality monitoring</b>	L3.8.	N/A.	No specified conditions relating to ambient quality monitoring are required to be added to the licence.	N/A.



**DECISION TABLE**

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Meteorological monitoring	L3.9.	N/A.	No specified conditions relating to meteorological monitoring are required to be added to the licence.	N/A.
Improvements	L4.	N/A.	No specified conditions relating to improvements are required to be added to the licence.	N/A.
Information	L5.3.1.	OSC.	<b>Operation</b> Standard conditions for the submissions of the Annual Environmental Report and Annual Audit Compliance Report. OSC condition L5.3.1 has been added to the licence regarding notification requirements.	General provisions of the <i>Environmental Protection Act 1986</i> .

**5 Advertisement and consultation table**

Date	Event	Comments received/Notes	How comments were taken into consideration
19/05/2014	Application advertised in The West Australian	No comments received	N/A
5/06/2014	Proponent sent a copy of draft instrument	No comments received	N/A



## 6 Emissions and discharges risk assessment framework

Note: These matrix are taken from the DER Officer's Guide to Emissions and Discharges Risk Assessment (2006).

**Table 3: Measures of Significance of Emissions**

Emissions as a percentage of the relevant emission or ambient standard		Worst Case Operating Conditions (95 <sup>th</sup> Percentile)			
		>100%	50 – 100%	20 – 50%	<20%*
Normal Operating Conditions (50 <sup>th</sup> Percentile)	>100%	5	N/A	N/A	N/A
	50 – 100%	4	3	N/A	N/A
	20 – 50%	4	3	2	N/A
	<20%*	3	3	2	1

\*For reliable technology, this figure could increase to 30%

**Table 4: Socio-Political Context of Each Regulated Emission**

		Relative proximity of the interested party with regards to the emission				
		Immediately Adjacent	Adjacent	Nearby	Distant	Isolated
Level of Community Interest or Concern*	5	High	High	Medium High	Medium	Low
	4	High	High	Medium High	Medium	Low
	3	Medium High	Medium High	Medium	Low	No
	2	Low	Low	Low	Low	No
	1	No	No	No	No	No

Note: These examples are not exclusive and professional judgement is needed to evaluate each specific case

\*This is determined by DER using the *Officer's Guide to Emissions and Discharges Risk Assessment* (2006).

**Table 5: Emissions Risk Reduction Matrix**

		Significance of Emissions				
		5	4	3	2	1
Socio-Political Context	High	A	A	B	C	D
	Medium High	A	A	B	C	D
	Medium	A	B	B	D	E
	Low	A	B	C	D	E
	No	B	C	D	E	E

### PRIORITY MATRIX ACTION DESCRIPTORS

A = Do not allow (fix)

B = licence condition (setting limits + EMPs - short timeframes)(setting targets optional)

C = licence condition (setting targets + EMPs - longer timeframes)

D= EIPs, other management mechanisms/licence conditions (monitoring/reporting)/other regulatory tools

E = No regulation, other management mechanisms