



Mr Cyril Giraud  
Holcim (Australia) Pty Ltd  
18 Brodie Hall Drive  
BENTLEY WA 6102

Dear Mr Giraud

**ENVIRONMENTAL PROTECTION ACT 1986: LICENCE GRANTED**

**Premises**

Warrawanda Creek Sand Pit

Within Mining Tenements: M52/7, M52/62, M52/609 and M52/661

**Licence Number:** L8864/2014/1

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 Michael Christensen on 9333 7405.

Yours sincerely

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

15 January 2015



# Licence

## *Environmental Protection Act 1986, Part V*

**Proponent:** Holcim (Australia) Pty Ltd

**Licence:** L8864/2014/1

**Registered office:** Tower B, Level 8  
799 Pacific Highway  
CHATSWOOD NSW 2067

**ACN:** 099 732 297

**Premises address:** Warrawanda Creek Sand Pit  
Within Mining Tenements: M52/7, M52/62, M52/609 and M52/661  
NEWMAN WA 6753  
As depicted in Schedule 1

**Issue date:** Thursday, 15 January, 2015

**Commencement date:** Monday, 19 January, 2015

**Expiry date:** Saturday, 18 January, 2020

**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	100,000 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

The Warrawanda Creek operated by Holcim (Australia) Pty Ltd (Holcim) is located 31 km south east of Newman in Western Australia. The operation involves the extraction and screening of up to 100,000 tonnes of sand per year on a seasonal campaign basis.

The location of sand extraction activities is limited to an area of 300 metres wide by 4,200 metres long, by 1.5 metres deep. The sand is extracted from the area until it is exhausted at which point, the operation ceases until the sand is replenished by flood waters.

The main emissions associated with the excavation and screening of sand are considered to be fugitive dust and noise. However, the operation is isolated with the nearest sensitive receptor being located approximately 7 km to the west of the premises.

This Licence is for the operation of a new facility established under works approval W5660/2014/1.

The licences and works approvals issued for the Premises since 29/05/2014 are:

Instrument log		
Instrument	Issued	Description
W5660/2014/1	29/05/2014	Issued Works Approval
L8864/2014/1	00/01/2015	This Licence

### 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 until 31 December in the following 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: northwest@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;

**'controlled waste'** has the definition in *Environmental Protection (Controlled Waste) Regulations 2004*;

**'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 identified in Sections 2.2, 2.3, 2.4 and 2.5;

**'Licence'** means this Licence numbered L8864/2014/1 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.





2.6.2 The Licensee shall ensure that no visible dust generated by the activities of the Premises crosses the boundary of 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 within 28 calendar days after the end of the annual period. 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.  Part B: As soon as practicable	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution		

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

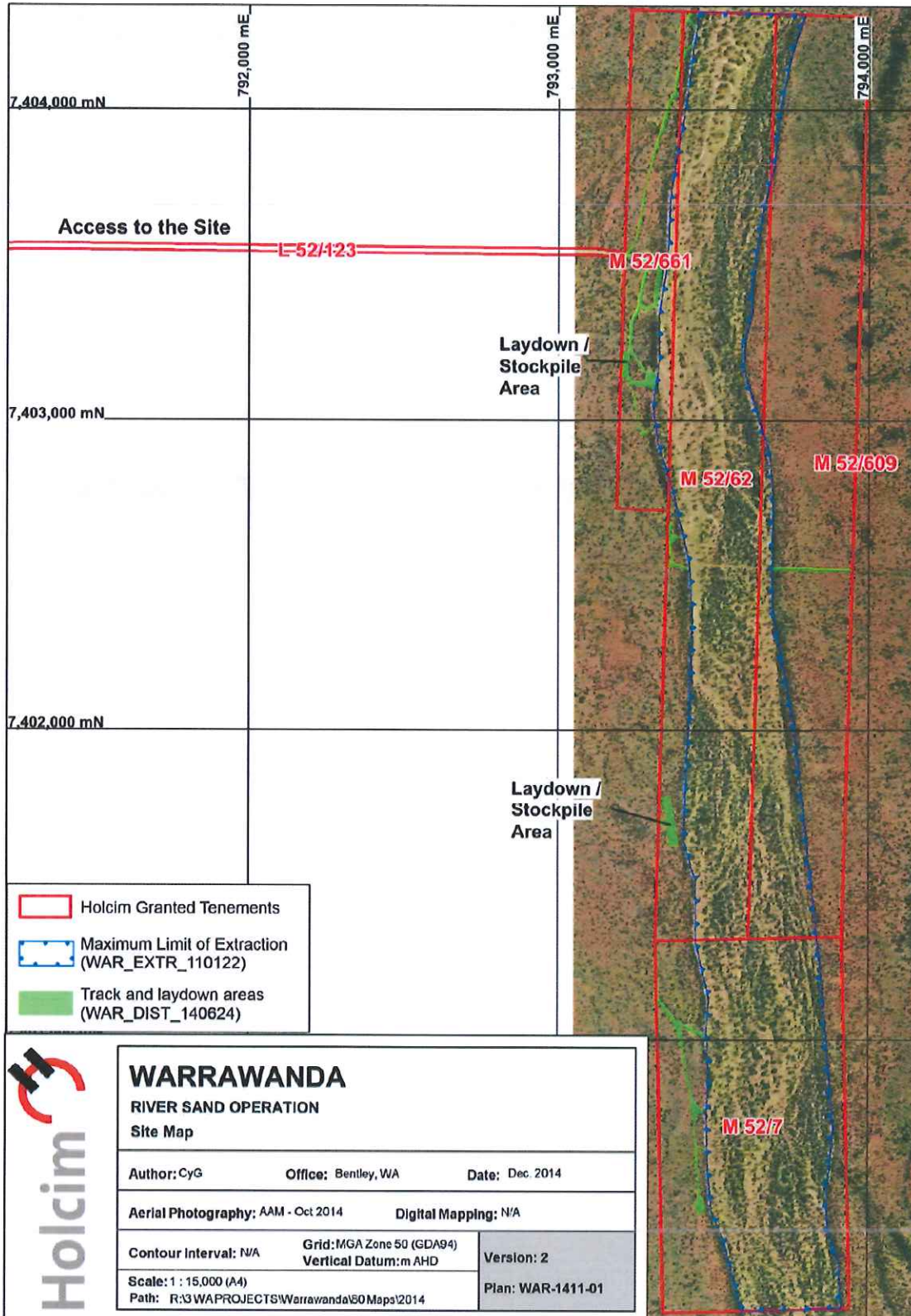




# Schedule 1: Maps

## Premises map

The Premises is shown in the map below. The red 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) may 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: L8864/2014/1  
Form: N1

Licensee: Holcim (Australia) Pty Ltd  
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 Holcim (Australia) Pty Ltd	
Date	





# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** Holcim (Australia) Pty Ltd

**Licence:** L8864/2014/1

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**Registered office:** Tower B, Level 8  
799 Pacific Highway  
CHATSWOOD NSW 2067

**ACN:** 099 732 297

**Premises address:** Warrawanda Creek Sand Pit  
Within Mining Tenements: M52/7, M52/62, M52/609 and M52/661  
NEWMAN WA 6753

**Issue date:** Thursday, 15 January, 2015

**Commencement date:** Monday, 19 January, 2015

**Expiry date:** Saturday, 18 January, 2020

### 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: Michael Christensen  
Licensing Officer

Decision Document authorised by: Alana Kidd/Fiona Esszig  
Manager Licensing



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## 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application 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	<b>Category number(s)</b>	<b>Assessed design capacity</b>
	12	100,000 tonnes per annual period
Application verified	Date: 21/11/2014	
Application fee paid	Date: 27/11/2014	
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		
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" 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 and assessment

Holcim (Australia) Pty Ltd (Holcim) is seeking to operate a sand mine within the Warrawanda Creek, located 31 km south east of Newman in Western Australia (Figure 1). The operation will involve the extraction and screening of up to 100,000 tonnes of sand per year on a campaign basis which primarily occurs during the dry season.

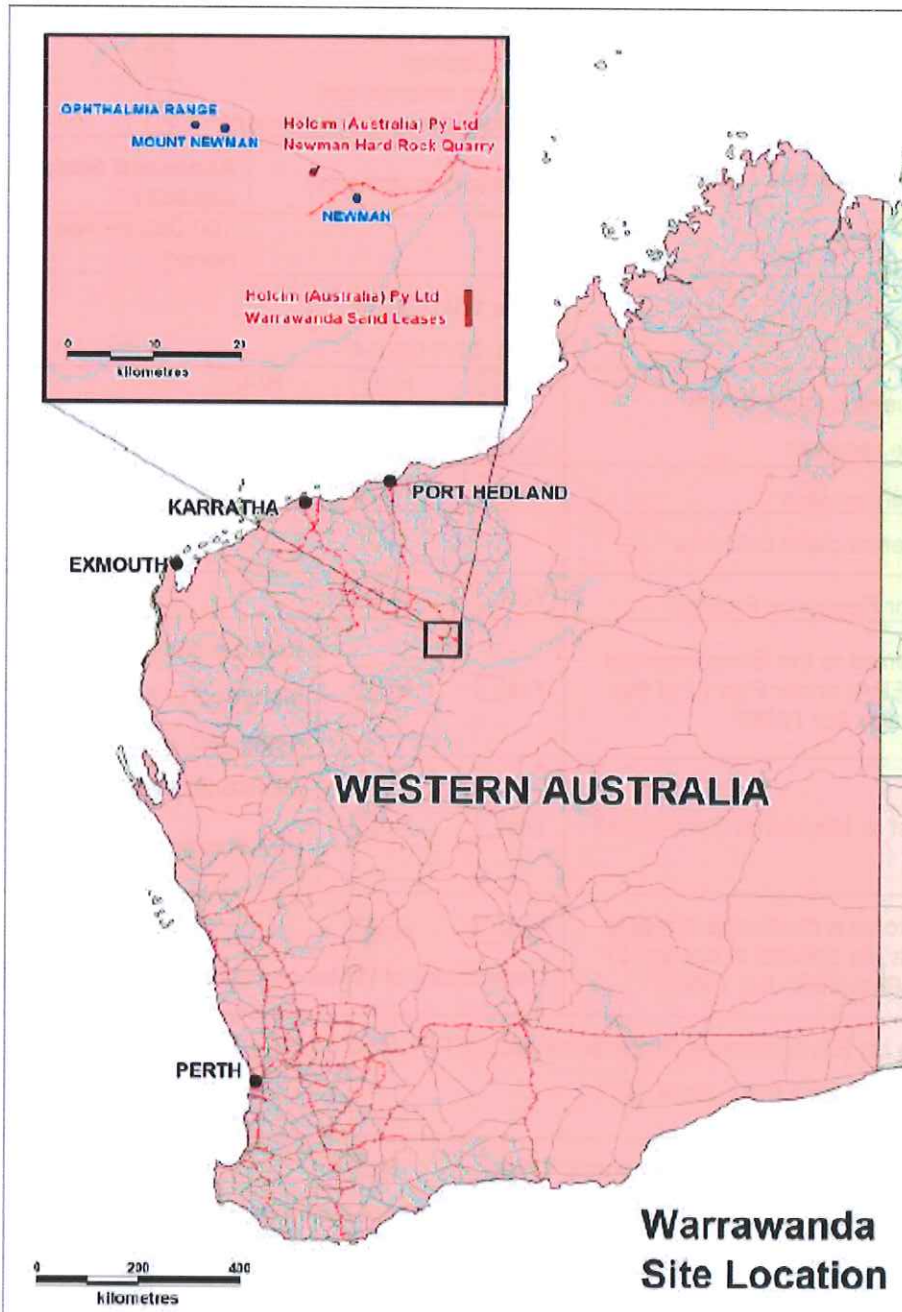


Figure 1: Location of Holcim's Warrawanda Creek operations



The location of sand extraction activities will be limited to an area of 300 metres wide by 4,200 metres long, with a depth of 1.5 metres. The sand will be extracted on a campaign bases throughout the year. Once the sand is extracted from the area, the operation will cease and not resume until the sand is replenished by flood waters.

The operation does not include the construction or installation of any permanent infrastructure and the plant and equipment used will only be deployed on a campaign basis. The proponent has outlined that the following plant and equipment will be used for operations:

- Single vibrating screen;
- Feed hopper and conveyor; and
- Front end loader.

The operation will normally be undertaken by a single to four person workforce, who will travel to and from the premises daily during a campaign.

The main emissions associated with the excavation and screening of sand are considered to be fugitive dust and noise. However, the operation is isolated with the nearest sensitive receptor being located approximately 7 km to the west of the premises. As a result, and as outlined in the decision table below, the Department of Environment Regulation (DER) considers that the residual risk rating is Low for this premises.

Licence L8864/2014/1 will follow on from Works Approval W5660/2014/1 which was issued on 20 May 2014.

## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987*, DEC's Policy Statement - Limits and targets for prescribed premises (2006), and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

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
General conditions	L1.2.3 and L1.2.5	OSC	<p><b>Operation</b></p> <p><i>Emission:</i> Hydrocarbon or chemicals potentially contaminating soils and water. <i>Impact:</i> Hydrocarbon and chemicals have the potential to adversely affect fauna and flora.</p> <p><i>Controls:</i> The proponent has committed to the following measures to reduce or prevent environmental impacts from hydrocarbon and chemicals:</p> <ul style="list-style-type: none"> <li>• No storage of hydrocarbon onsite;</li> <li>• Refuelling of mobile equipment undertaken through a self bunded fuel trailer with a capacity not exceeding 1,000L (normally only 400L transported);</li> <li>• Spill kits which will be available and equipped within the fuel trailer and all mobile plant onsite; and</li> <li>• Implementation of Holcim spill clean-up procedure in the event of a spill or leak.</li> </ul> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> To ensure that any hydrocarbon on site (including temporary) is stored adequately and in accordance with the code of practice for the storage and</p>	<p>Application supporting documentation</p> <p>Code of Practice for the storage and handling of dangerous goods, Department of Mines and Petroleum, Government of Western Australia</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
			handling of dangerous goods OSC 1.2.3 has been added to the Licence. To ensure that stormwater run-off does not become contaminated by the activities on the premises OSC 1.2.5 has been added to the Licence.  <u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low	
<b>Emissions general</b>	L2.1.1	OSC	<b>Operation</b> Descriptive limits will be set through condition 2.6.2 of the licence and therefore OSC regarding recording and investigation of exceedances of limits or targets has been included.	N/A
<b>Point source emissions to air including monitoring</b>	L2.2 and L3	N/A	<b>Operation</b> The proposal does not involve point source emissions to air. As such, there has been no condition detailed in the licence for point source emissions to air.	Application supporting documentation <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>
<b>Point source emissions to surface water including monitoring</b>	L2.3 and L3	N/A	<b>Operation</b> The proposal does not involve point source emissions to water. While sand will be extracted from the Warrawanda Creek, the operation will be restricted to the dry season when the Creek is dry. As such, there has been no condition detailed in the Licence for point source emissions to surface water.	Application supporting documentation <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>
<b>Point source emissions to groundwater including monitoring</b>	L2.4 and L3	N/A	<b>Operation</b> The proposal does not involve point source emissions to groundwater. As such, there has been no condition detailed in the licence for point source emissions to groundwater.	Application supporting documentation <i>Environmental Protection (Unauthorised)</i>

**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>Emissions to land including monitoring</b>	L2.5 and L3	N/A	<b>Operation</b> The proposal does not involve emissions to land and as a result there has been no conditions detailed in the licence for emissions to land.	<i>Discharges) Regulations 2004</i> Application supporting documentation <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>
<b>Fugitive emissions</b>	L2.6.1 and L2.6.2	OSC	<b>Operation</b> The proposal involves the extraction and transportation of sand which has the potential to generate fugitive dust.  <u>Emission Description</u> <i>Emission:</i> Generation of fugitive dust from excavation, screening and from trafficable areas. <i>Impact:</i> Dust has the potential to interfere with the health, comfort and amenity of the public. It also has the potential to smother and impact the health of flora and vegetation. The nearest sensitive premises is the Capricorn Roadhouse located approximately 7 km west of the site. <i>Controls:</i> The entire operation is restricted to the Warrawanda Creek bed. The size of the sand being extracted is such that it is unlikely to generate fugitive dust emissions (99% is sized 75 micron or larger).  <u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate	Application supporting documentation



**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><u>Regulatory Controls</u> OSC L2.6.1 has been added to the licence to ensure that the licensee uses all reasonable and practical measures to prevent and minimise dust emissions. OSC L2.6.2 has been added to the licence to ensure that the licensee ensures that no visible dust generated by the activities of the premises crosses the premises boundary.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	
<b>Odour</b>	L2.7 and L3	N/A	<p><b>Operation</b> The proposal does not involve the generation of odorous emissions. As such, there has been no condition detailed in the licence for odour emissions.</p>	Application supporting documentation
<b>Noise</b>	L2.8 and L3	N/A	<p><b>Operation</b> <u>Emission Description</u> <i>Emission:</i> The operation of mobile equipment generates noise. <i>Impact:</i> Noise can impact the comfort and amenity of the public. The nearest sensitive premises is the Capricorn Roadhouse located approximately 7 km west of the site. <i>Controls:</i> The proponent has committed to the following controls to reduce noise emissions:</p> <ul style="list-style-type: none"> <li>• All mobile equipment will be maintained, with efficient mufflers and noise shielding.</li> <li>• Any complaints will be investigated as soon as reasonably possible.</li> </ul>	Application supporting documentation <i>Environmental Protection (Noise) Regulations 1997</i>





**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><u>Risk Assessment</u>  <i>Consequence:</i> Insignificant  <i>Likelihood:</i> Rare  <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u>            There has been no specified noise conditions detailed in the licence. The <i>Environmental Protection (Noise) Regulations 1997</i> with assigned noise levels at the nearest sensitive premises apply for the operation of mobile plant and equipment.</p>	
<b>Monitoring general</b>	L3	N/A	<p><b>Operation</b>            There is no general monitoring required for the proposal. As such, there has been no condition detailed in the licence for general monitoring.</p>	N/A
<b>Monitoring of inputs and outputs</b>	L3	N/A	<p><b>Operation</b>            There is no monitoring of inputs and outputs required for the proposal. As such, there has been no condition detailed in the licence for monitoring of inputs and outputs.</p>	N/A
<b>Process monitoring</b>	L3	N/A	<p><b>Operation</b>            There is no process monitoring required for the proposal. As such, there has been no condition detailed in the licence for process monitoring.</p>	N/A
<b>Ambient quality monitoring</b>	L3	N/A	<p><b>Operation</b>            There is no ambient quality monitoring required for the proposal. As such, there has been no condition detailed in the licence for ambient quality monitoring.</p>	N/A
<b>Meteorological monitoring</b>	L3	N/A	<p><b>Operation</b>            There is no meteorological monitoring required for the proposal. As such, there has been no condition detailed in the licence for meteorological monitoring.</p>	N/A



**DECISION TABLE**

<b>Works Approval / Licence section</b>	<b>Condition number W = Works Approval L = Licence</b>	<b>OSC or NSC</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
<b>Improvements</b>	L4	N/A	<b>Operation</b> There is no improvement required for the proposal. As such, there has been no condition detailed in the licence for improvements.	N/A
<b>Information</b>	L5.1 – L5.3	SC	<b>Operation</b> The standard licence conditions have been added to this licence for reporting.	N/A
<b>Licence Duration</b>	N/A	N/A	<b>Operation</b> Having regard for the proponent commitments, conditions of L8864/2014 and the subsequent low residual risk rating for this proposal, the licence duration has been set for a 5 year period.	N/A



## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
1/12/2014	Application advertised in The West Australian	No comments received	N/A
2/12/2014	Application referred to interested parties listed: Shire of Meekatharra	No comments received	N/A
5/01/2014	Proponent sent a copy of draft instrument	Minor edit required for trading name	Trading name updated





## 6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No.07 – Operational Risk Management

Table 1: Emissions Risk Matrix

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High