



Licence

Environmental Protection Act 1986, Part V

Licensee: Holcim (Australia) Pty Ltd

Licence: L6821/1967/12

Registered office: Level 8, Tower B
799 Pacific Hwy
Chatswood NSW 2067

ACN: 099 732 297

Premises address: Gosnells Hardrock Quarry
89 Cockram Road
MARTIN WA 6110
Being Lot 3 on Plan 14769 and Lot 5003 on Plan 28867 as depicted in Schedule 1.

Issue date: 21 January 2016

Commencement date: 25 January 2016

Expiry date: 30 September 2027

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	5 million tonnes per annual period
13	Crushing of building material: premises on which waste building or demolition material (for example, bricks stones or concrete) is crushed or cleaned.	1 000 tonnes or more per year	250 000 tonnes per annual period
62	Solid waste depot – premises on which waste is stored or sorted pending final disposal or re-use.	500 tonnes or more per year	250 000 tonnes per annual period

Conditions

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

Date signed: 21 January 2016

Tim Gentle

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 regulates 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 Gosnells Hardrock Quarry is located on the edge of the Darling Scarp, approximately 20km south-east of Perth, Western Australia. The quarry produces aggregate and sand for use in pre-mix and pre-cast concrete manufacturing, along with asphalt and road-base products, at a production rate of approximately five million tonnes per annum.

For the purposes of conducting investigations into possible dust impacts as a result of quarry operations, the licensee has implemented a property boundary dust monitoring program. The license has committed to utilising acceptable dust monitoring equipment for this purpose. The licensee has also provided the Department of Environment Regulation (DER) with informal updates on the results of this work on a quarterly basis. The licensee has also submitted a document to DER, which outlines the dust monitoring program.

This licence is the result of the licensee applying for an amendment to include category 13 onto the licence to enable the crushing of concrete and asphalt waste at the premises. The amended licence also includes category 62 to provide for storage and sorting of the crushed concrete and asphalt at the premises.

The licences and works approvals issued for the Premises since 1/10/2011 are:

Instrument log		
Instrument	Issued	Description
L6821/1967/12	01/10/2011	Licence Reissue
L6821/1964/12	05/02/2015	Licence amendment to REFIRE format
L6821/1964/12	14/01/2016	Licence amendment to include categories 13 and 62

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 August until 31 July in the following year;

‘**CEO**’ means Chief Executive Officer of the Department of Environment Regulation;

‘**CEO**’ for the purpose of correspondence means;

Chief Executive Officer
Department Administering the *Environmental Protection Act 1986*
Locked Bag 33
CLOISTERS SQUARE WA 6850
Email: info@der.wa.gov.au;

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

‘**Licence**’ means this Licence numbered L6821/1967/12 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 Premises operation

- 1.2.1 The Licensee shall ensure surface water is managed in accordance with the document specified in Table 1.2.1.

Table 1.2.1: Management plans

Management plan reference	Parts	Date of document
Gosnells Quarry – Surface Water Management Plan	Entire	March 2015

- 1.2.2 The Licensee shall only accept waste on to the Premises if:
- (a) it is of a type listed in Table 1.2.2; and
 - (b) the quantity accepted is below any quantity limit listed in Table 1.2.2; and
 - (c) it meets any specification listed in Table 1.2.2.

Table 1.2.2: Waste acceptance criteria

Waste type	Quantity limit	Specification
Waste concrete	250,000 tonnes per annual period (combined)	None specified
Waste asphalt		

2 Emissions

2.1 Fugitive emissions

- 2.1.1 The Licensee shall ensure fugitive emissions are managed in accordance with the documents, or parts of documents, specified in Table 2.1.1.

Table 2.1.1: Management plans

Management plan reference	Parts	Date of document
Gosnells Quarry Environmental Management Plan	8.0 – Dust Management Plan	May 2014



3 Monitoring

3.1 General monitoring

- 3.1.1 The licensee shall ensure that all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.
- 3.1.2 The Licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.
- 3.1.3 The Licensee shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

3.2 Ambient environmental quality monitoring

- 3.2.1 The Licensee shall undertake the monitoring in Table 3.2.1 according to the specifications in that table.

Table 3.2.1: Monitoring of ambient air quality			
Monitoring point reference and location	Parameter	Units	Frequency
AQ1	PM ₁₀	µg/m ³	Continuous



4 Information

4.1 Records

4.1.1 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 4.1.1(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.

4.1.2 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.

4.1.3 The Licensee shall:

- (a) implement a complaints management system that shall record the following information (if known or provided) about complaints received at the Premises concerning any environmental impact of the activities undertaken at the Premises:
 - (i) name and address of the complainants (if consented);
 - (ii) date and time of complaint;
 - (iii) date and time of alleged incident;
 - (iv) alleged source of the incident;
 - (v) general description of the alleged incident, including any environmental or health impacts reported by the complainant;
 - (vi) wind direction, wind speed and temperature at time of alleged incident;
 - (vii) likely source of the alleged incident; and
 - (viii) actions taken by the Licensee to address the complaint, including the outcome of any investigation(s) and action(s) to verify any impacts.
- (b) Complete an annual analysis and review of complaints recorded under 4.1.3(a) to identify any common factors and root cause of complaints and proposals to address these.



4.2 Reporting

- 4.2.1 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 4.2.1 in the format or form specified in that table.

Table 4.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form ¹
-	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
4.1.2	Compliance	Annual Audit Compliance Report (AACR)
4.1.3	Complaints summary	None specified
Table 3.2.1	PM ₁₀	
-	Measures taken to minimise noise	
-	Annual production throughput	

Note 1: Forms are in Schedule 2

4.3 Notification

- 4.3.1 The Licensee shall ensure that the parameters listed in Table 4.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 4.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
-	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

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

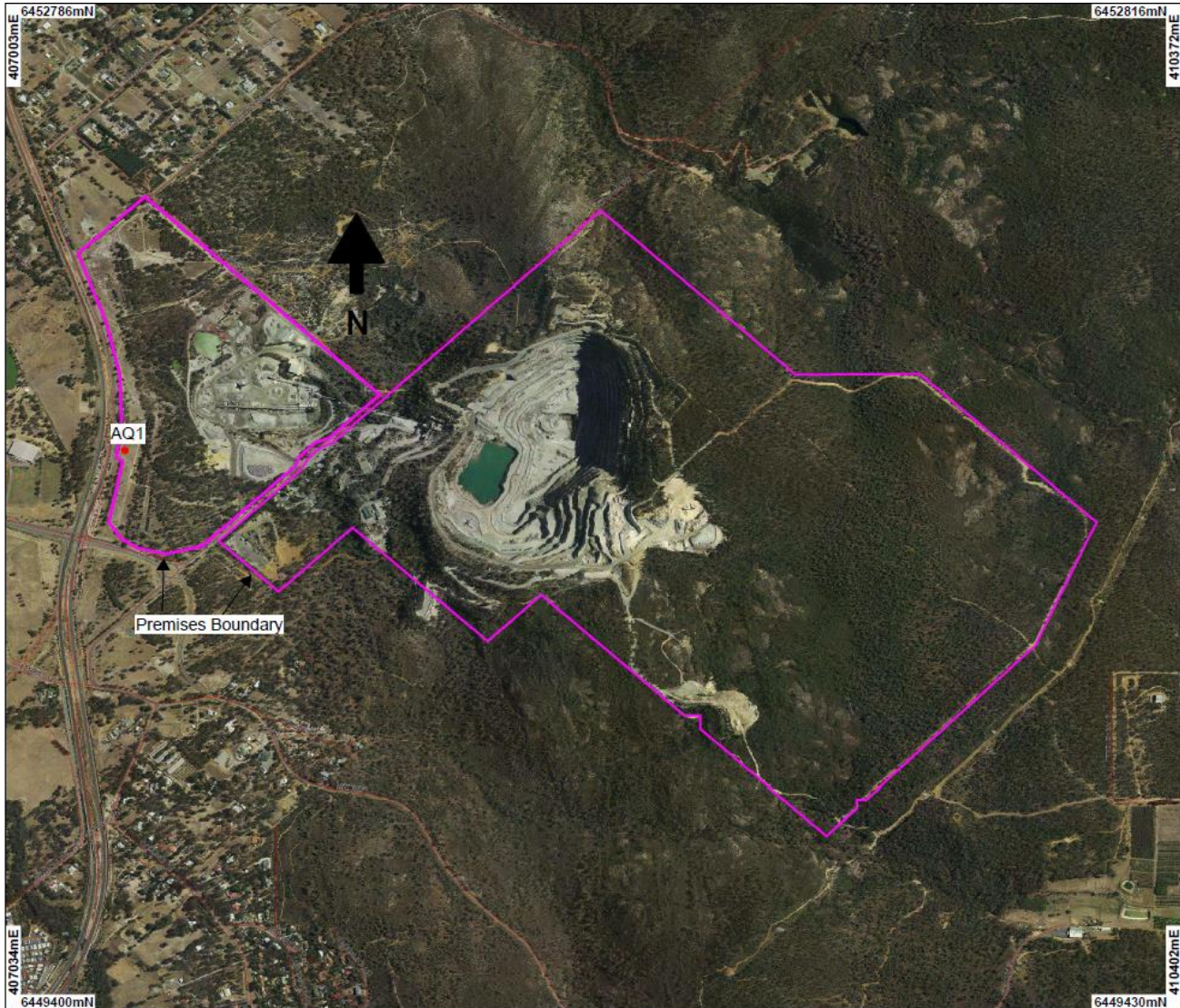
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The pink 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 initialised 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"/> <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)



Environmental Protection Act 1986, Part V

Licence: L6821/1967/12

Expiry date: Thursday, 30 September 2027

Based on the assessment detailed in this document the Department of Environment Regulation (DER) has decided to issue an amended 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 authorised by: **Tim Gentle**
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.

2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	12: Screening etc. of material	5 million tonnes per annual period
	13: Crushing of building material	250 000 tonnes per annual period
	62: Solid waste depot	250 000 tonnes per annual period
Application verified	Date: N/A	
Application fee paid	Date: N/A	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" 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 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.		
Are 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 ₂ requirements of Kwinana EPP.		

3 Executive summary of proposal and assessment

The Gosnells quarry is located on the edge of the Darling Scarp, approximately 20km south-east of Perth, Western Australia. The quarry produces aggregate and sand for use in pre-mix and pre-cast concrete manufacturing and is a strategic resource for the Perth Metropolitan and Greater Regional Area. The Gosnells quarry has been in operation since the 1930's and has been operated by Holcim since 1961.

The Gosnells quarry currently comprises the following existing key components and supporting infrastructure:

- An extraction area;
- Mobile screens;
- Stockpiling areas for aggregates, topsoil and overburden;
- Water storage dam;
- Wash down areas;
- Internal access and haul roads;
- Workshop and testing laboratory;
- Manned weighbridge;
- Diesel storage area;
- Administration block and amenities;
- Order and distribution office; and
- Laydown and salvage yard.

Approximately 1 million tonnes of hard rock is extracted annually from the pit and approximately 120 000 tonnes of aggregate is processed annually onsite. Activities are mainly limited to 0700 to 1800 Monday to Friday and 0700 to 1400 Saturday, although the operations can be undertaken 24 hours a day if needed.

This proposal is to allow Holcim to undertake crushing and screening of concrete and asphalt waste under category 13, as well as introducing a mobile air separator unit which contains a built in baghouse to capture a nominated 99.99% of dust emissions.

The proposal will also allow Holcim to store and sort waste material (crushed concrete and asphalt waste), pending final disposal or reuse, under category 62. Holcim's application makes clear that only "fresh" waste concrete from Holcim's own concrete batching plants, and asphalt from the site-based asphalt plant, will be accepted. The materials which will be crushed, screened, stored and sorted will therefore not contain any asbestos.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* 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			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operations	L1.2.1 Table 1.2.1	<p><u>Emission Description</u> <i>Emissions:</i> Stormwater contaminated from crushing and screening and associated activities leaving the premises during extreme rainfall events. <i>Impact:</i> Contamination of surrounding land and surface water drainage systems. Potential impacts on water quality of Lumen Christi dam within 50m of the site and ecology of the Canning River catchment from the addition of sediments, oil and grease and heavy metals. <i>Controls:</i> The licensee has submitted the document <i>Gosnells Quarry – Surface Water Management Plan</i> as required under previous licence condition 4.1.1. Stormwater runoff from the Gosnells Quarry site is managed via a number of drains and bunds that capture potentially contaminated water in the Stockpile Dam at the western edge of the operational area, flowing into the Overflow Dam and then ultimately discharging off-site in high rainfall events. Water levels in the Overflow and Stockpile dams are managed by pumping the water from the Stockpile Dam to the upper quarry pit lake. This management action allows for the licensee to capture the “critical duration” (first flush) runoff volume of a 1 in 100-year ARI event.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> L1.2.1 and Table 1.2.1 - DER has previously required Holcim to develop a stormwater</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p> <p>Gosnells Quarry Environmental Management Plan – Water Management Plan</p>



DECISION TABLE			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
	L1.2.2 Table 1.2.2	<p>management plan under licence condition 4.1.1 - Improvements. This document has been submitted to DER. Holcim will undertake stormwater management through their <i>Gosnells Quarry Environmental Management Plan – Water Management Plan</i> to ensure the risk of water contamination is minimised.</p> <p><u>Residual Risk</u> <i>Consequence</i>: Moderate <i>Likelihood</i>: Unlikely <i>Risk Rating</i>: Moderate</p> <p>L1.2.2 and Table 1.2.2 have been added to the licence to limit the amount of concrete and asphalt waste accepted onsite to a combined total of 250,000 tonnes per annual period.</p>	
Emissions general	N/A	There are no emissions general from the premises that require regulation through this section	N/A
Point source emissions to air including monitoring	N/A	<p>The proposed Air Separator is fitted with a baghouse to capture dust emissions from an enclosed unit. The baghouse is a CP-2340 model with a self-cleaning function and is designed to filter a minimum 99.99% of dust generated by the unit. The projected emissions from the baghouse are minor and adequately regulated under general provisions of the Act.</p> <p>There are no point source emissions to air from the premises that require regulation through this section.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p>
Point source emissions to surface water including monitoring	N/A	There are no point source emissions to surface water from the premises.	N/A



DECISION TABLE			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Point source emissions to groundwater including monitoring	N/A	There are no point source emissions to groundwater from the premises.	N/A
Emissions to land including monitoring	N/A	There are no point source emissions to land from the premises.	N/A
Fugitive emissions	L2.1.1 Table 2.1.1 L3.2.1 Table 3.2.1	<p>Normal & abnormal operation</p> <p><u>Emission Description</u> <i>Emission:</i> Fugitive dust at unknown concentration, generated during crushing and screening operations. The addition of Category 13 to the licence will possibly increase the risk of dust emissions if poorly managed. <i>Impact:</i> Dust emissions can be harmful to human health and the environment. Elevated TSP levels can impact ambient environmental quality resulting in amenity impacts and can smother vegetation. PM₁₀ or PM_{2.5} can be drawn deep into the lungs causing human health impacts. The chemical and physical properties of the particles, the size of the particles and the duration of exposure are all factors which may affect human health impacts. The closest receptor to the quarry is located 450 meters to the north of the premises boundary. <i>Controls:</i> Visual inspection of site and access roads for dust generation that is moving off site. Water cart application over dust prone areas to reduce dust lift-off. Crushing and stockpiling activities located in topographic low points with stockpiles arranged such that wind breaks are created to further shield sensitive receptors.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> The risk of fugitive dust emissions from crushing and screening operations causing</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p> <p><i>Gosnells Quarry Environmental Management Plan – Dust Management Plan</i></p>



DECISION TABLE			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>amenity impacts and smothering vegetation is deemed to be moderate having regard to the distance to receptors. Currently, Holcim's Dust Management Plan includes constant monitoring of PM₁₀ at the western boundary of the site with an EBAM dust monitor. The weather station and the E-BAM send live data to the Win Collect software system, which sends alarms and SMS messages to nominated quarry personnel when a contingency trigger is reached (100µg/m³) to prevent an exceedance of the 24-hour average PM₁₀ NEPM (50µg/m³) at the quarry boundary. Condition 2.1.1 and Table 2.1.1 have been added to the licence to require Holcim to manage dust as documented in <i>Gosnells Quarry Environmental Management Plan – Dust Management Plan</i>. This is based on the risk to receptors and will mean dust mitigation policies will be implemented to reduce the risk of dust impacts.</p> <p>Monitoring of fugitive dust is addressed in the Ambient Environmental Quality Monitoring section.</p> <p><u>Residual Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p>	
Odour	N/A	Odour has not been reassessed as part of this amendment. As the previous licence did not impose controls on odour, no specified conditions have been included in this section.	General provisions of the <i>Environmental Protection Act 1986</i> .
Noise	N/A	<p>Noise modelling of the proposed activities combined with current activities and background noise shows that for the worst case scenario, noise levels at the nearest receptor will be received below the limit set in the <i>Environmental Protection (Noise) Regulations 1997</i>. To ensure compliance with the <i>Environmental Protection (Noise) Regulations 1997</i>, the licensee has developed and implemented a Noise Management Plan.</p> <p>No additional licence conditions are deemed necessary to manage noise at the site.</p>	<p><i>Environmental Protection (Noise) Regulations 1997</i></p> <p>Gosnells Quarry Environmental Management Plan – Noise Management Plan</p>



DECISION TABLE			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Monitoring general	L3.1.1 – 3.1.3	No additional general monitoring conditions are required on the licence other than the standard NATA accreditation, monitoring timeframes and calibration requirements.	N/A
Monitoring of inputs and outputs	N/A	Monitoring requirements have not been reassessed as part of this amendment. As the previous licence did not require monitoring of inputs and outputs no specified conditions have been included in this section.	N/A
Process monitoring	N/A	Monitoring requirements have not been reassessed as part of this amendment. As the previous licence did not require process monitoring no specified conditions have been included in this section.	N/A
Ambient quality monitoring	L3.2.1 Table 3.2.1	Monitoring of ambient air quality (dust levels) is required to provide assurance over the effectiveness of site dust management and demonstrate performance against the limit set at the boundary. Continuous monitoring using EBAM dust monitor will provide data to validate assessment predictions. The EBAM monitor is linked to an audible alarm that notifies the Quarry Manager when the PM ₁₀ levels exceed 100 µg/m ³ . Once the alarm sounds, a number of contingency actions will be undertaken to control dust.	General provisions of the <i>Environmental Protection Act 1986</i> . Gosnells Quarry Environmental Management Plan – Dust Management Plan
Meteorological monitoring	N/A	Monitoring requirements have not been reassessed as part of this amendment. As the previous licence did not require meteorological monitoring no specified conditions have been included in this section.	N/A
Improvements	N/A	Improvement conditions are not required for this licence amendment. Condition 4.1.1 required the licensee to submit a Stormwater Management Plan to the CEO. This plan has been received by DER and is implemented in condition 1.3.1; therefore this condition has been removed.	N/A
Information	L4.1.1 – 4.1.3	L4.1.1 – 4.1.3 have been added to the licence requiring the licensee to submit an Annual Report and AACR to DER and compile a complaints management system to record and investigate complaints made about the operations.	N/A
Licence Duration	N/A	The Licence expiry date has been amended to align with the Extractive Industry Licence granted by the City of Gosnells. The licence will expire on 30 September 2027.	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
11/12/2015	Proponent sent a copy of draft instrument	Reply received via email on 17 December 2015 requesting minor administrative word changes in the Decision Document.	Requested changes were made to Decision Document.



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