

## Lynwood Quarry

### Independent Environmental Audit

Prepared for Holcim (Australia) Pty Ltd | 25 February 2015





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Final

Report J14125RP1 | Prepared for Holcim (Australia) Pty Ltd | 25 February 2015

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Signature			Signature	
Date	25 February 2015	25 February 2015	Date	25 February 2015

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### Document Control

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# 1 Introduction

EMGA Mitchell McLennan Pty Ltd (EMM) has been commissioned to undertake an independent environmental audit of the Holcim Australia Pty Limited (Holcim) Lynwood Quarry located close to Marulan in the Southern Tablelands region of New South Wales (NSW).

The 2012 independent environmental audit of the quarry was also undertaken by EMM (EMM 2012).

## 1.1 General

This independent environmental audit is required under Schedule 5, Condition 7 of development consent DA 128-5-2005 (the consent), which was issued by the Minister for Planning on 21 December 2005 for *Lynwood Hard Rock Quarry and Associated Infrastructure* (DP&I 2011). This development consent was most recently updated on 19 August 2011.

The objectives of the audit are to meet the requirements of Condition 7:

Within 3 years of the date of this consent, and every 5 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:

- (a) be conducted by a suitably qualified, experienced, and independent person whose appointment has been endorsed by the Director-General;
- (b) be consistent with ISO 19011:2002 - Guidelines for Quality and/ or Environmental Systems Auditing, or updated versions of this guideline;
- (c) assess the environmental performance of the development, and its effects on the surrounding environment;
- (d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;
- (e) review the adequacy of any strategy/plan/program required under this consent; and, if necessary,
- (f) recommend measures or actions to improve the environmental performance of the development, and/or any strategy/plan/program required under this consent.

This audit has been prepared in accordance with the Australian/New Zealand Guidelines for Quality and/or Environmental Systems Auditing (AS/NZS 19011:2003).

The audit generally covers activities undertaken between 24 April 2012 (the day after the 2012 independent environmental audit site inspection) and 22 October 2014 (the day of the 2014 independent environmental audit site inspection). However, actions taken by Holcim to address draft audit recommendations provided on 19 January 2015 have been noted and where appropriate non-compliances have been amended accordingly.

## 1.2 Audit criteria and scope

Audit criteria are the policies, procedures or requirements against which an action will be compared. In this case, the audit criteria are the conditions, requirements and commitments in:

- *Environmental Impact Statement (EIS) for the Proposed Lynwood Quarry Marulan, Volumes 1 to 4, May 2005 (Umwelt 2005);*
- Modification Application DA-128-5-2005 MOD 1 and the accompanying *Statement of Environmental Effects: Proposed Minor Modifications to Lynwood Quarry, Marulan, January 2009 (Umwelt 2009);*
- Modification Application DA 128-5-2005 MOD 2 and the accompanying *Environmental Assessment for Proposed Modifications to Lynwood Quarry, Marulan, October 2010, (Umwelt 2010)* and the response to submissions January 2011 (Umwelt 2011);
- Modification Application DA 128-5-2005 MOD 3 and the accompanying letter, *Holcim Lynwood DA128-5-2005; DA128-5-2005 Modification 1 and DA128-5-2005 Modification 2, 17 June 2011 (Holcim 2011);*
- Environment Protection Licence (EPL) 12939 – Lynwood Quarry; and
- environmental management plans.

## 2 Audit method

### 2.1 Opening meeting

An audit opening meeting was held at Holcim's Chatswood office (Tower B, Level 8, 799 Pacific Highway) between approximately 9.00 am and 11.00 am on Thursday 9 October 2014. The meeting was attended by the following:

- Rachel Heath, Holcim, Planning and Environment Manager NSW/ACT;
- Alana White, Holcim, Lynwood Quarry Senior Environment and Community Liaison;
- Dr Philip Towler, EMM, lead auditor; and
- Mina Aynsley, EMM, assistant auditor.

The scope of the audit was confirmed at the meeting, the audit plan (see Appendix A) reviewed and site inspection arrangements made.

### 2.2 Site inspection

A full day site inspection was undertaken by Philip Towler and Alana White on 22 October 2014. They were escorted by Alana White. The site inspection included interviews with site personnel, a review of the environmental files (electronic and hardcopies), requests for further documentation held on site and an inspection of the entire quarry site.

### 2.3 Closing meeting

A closing meeting (teleconference) was held on 5 February 2015 following provision of the draft audit report on 19 January 2015. The meeting was attended by Alana White (Holcim) and Dr Philip Towler (EMM). The draft audit report findings and recommendations were discussed.



## 3 Audit team roles and responsibilities

### 3.1 Holcim audit team

Rachel Heath is the Planning and Environment Manager for NSW and ACT. In this role, Rachel is responsible for overseeing all planning and environmental aspects of Holcim's sites in NSW and ACT, including compliance.

Alana White is the Environment and Community Coordinator for Lynwood Quarry. In this role, she is responsible for implementing management plans and providing advice on complying with the conditions of consent.

Rachel Heath and Alana White attended the audit opening meeting. Alana White assisted with the site inspection and provision of documents.

Mick Cannileri is the Commissioning Manager for Lynwood Quarry. In this role, he is responsible for the site except the pit area during contract and construction phase, including coordination of contractors and compliance.

### 3.2 EMM audit team

The lead auditor and audit report author was Dr Philip Towler. Philip has 18 years experience in managing environmental programs. He has expertise in project management, conducting environmental audits and due diligence reviews, the preparation of environmental and social impact assessments and environmental management plans for extractive industry and mining projects around Australia and internationally. Philip has been approved as a compliance auditor by the NSW Department of Planning and Environment (DP&E).

Mina Aynsley provided support to the lead auditor.

### 3.3 Independence of the EMM audit team

Philip and Mina are independent of Holcim. The accepted test of this is that the person has not undertaken work for the organisation in question for the prior five years and there is no other contractual association. This is the case as the proposed audit team members have not worked for Holcim, other than on the 2012 Independent Environmental Audit which Phillip was the lead auditor. Philip and Mina have also undertaken the 2014 independent environmental audit of Holcim's Cooma Road Quarry, Queanbeyan, NSW.



## 4 Audit context

### 4.1 Holcim environmental systems

Holcim operates a national incident reporting system, referred to as INX, which is linked to Holcim's head office in Switzerland. Holcim advised that the INX reporting system covers all aspects of Holcim's operations, including environmental incidences, community feedback and complaints, near exceedance events and any other matters relating to operations across all Holcim sites. Incidences are allocated a rating based on the level of severity, and tracked through the INX system from the date of the incident to the action taken to remedy the incident.

An 'energy dashboard' is circulated internally at a national level which provides a monthly summary of diesel and electricity cost and consumption from Holcim's profit and loss accounts.

Emissions resulting from machinery and truck use are monitored online through a database named 'Visionlink', which provides reporting back to its manufacturer (eg Caterpillar).

### 4.2 Site management

The Lynwood Quarry is currently under construction with operations proposed to commence in 2015. Construction was approximately 95% complete at the time of the audit site inspection. Holcim has two teams at the site, one for contract and construction and the other for operations. Alana White, Lynwood Senior Environmental and Community Liaison, and Mick Cannileri, Lynwood Commissioning Manager, are responsible for on-site environmental management.

The major earthworks component of the construction is complete, and Metso are currently completing installation of infrastructure including the processing plant. Metso are responsible for the environmental compliance of construction on-site. Coopers have been engaged to undertake ancillary earthworks.

Separate firms, ALS and SLR Australia, are engaged to undertake noise, dust and water monitoring.

The following environmental management plans for the site have been approved by the Secretary of DP&E (the Secretary):

- Environmental Management Strategy;
- Transport Management Plan;
- Noise Management Plan;
- Blast Management Plan;
- Air Quality Management Plan; and
- Heritage Management Plan.

Holcim overview Metso and Cooper's activities and remain responsible for the environmental management and planning compliance for the whole site.

Metso environmental procedures are documented in the Metso Environmental Management Sub Plans. These are approved by Holcim and provide detailed actions and responsibilities that are applied on the site by Metso.

Metso are primarily responsible for the construction area of the site and report to Holcim on safety, construction and environmental matters. A full-time environmental supervisor was engaged by Metso at the time of the audit inspection. The audit considered both levels of environmental management plans and found that the Environmental Management Sub Plans contained the measures in the plans approved by the Secretary.

### 4.3 Land use

The predominant land use surrounding the quarry is agriculture, primarily cattle grazing. There are residential and light industrial areas approximately 1 km north-east and two hard rock quarries approximately 2 km north of the site. The Hume Highway runs along the site's eastern boundary.

### 4.4 Environmental

The quarry area is characterised by undulating ridges and shallow valleys. Elevation ranges from 630 m near Joarimin Creek to 710 m in the north. Major waterways are Joarimin and Lockyersleigh creeks, which drain to the Wollondilly River, and Marulan Creek which drains to the Shoalhaven River.

The majority of the quarry area was cleared of native vegetation when it was used for grazing. However, there are some areas of remnant vegetation in the on the site.

### 4.5 Social

The site is about 2 km from the Marulan town centre. Marulan is the largest town in the 'rural north' census collection district of the Goulburn Mulwaree Local Government Area (LGA) (ABS 2011). The district had a population of 4,156 in 2011, which was an increase of 246 (6.3%) from 2006 (ABS 2011).

### 4.6 Quarry operations

The key aspects of the quarry's operations are summarised in Table 4.1.

**Table 4.1 Project summary**

<b>Component</b>	<b>Approved development</b>
Development life	30 years.
Quarry production	5,000,000 tonnes per year.
Estimated resource	145 million tonnes of quarry products.
Extraction methods	Drill and blasting.
Processing	3-phase crushing and screening plant to produce a range of rock products from sizes of 0.3 m diameter rock to fine manufactured sand.
Product transport	Rail and road transport, with maximum of 1.5 million tonnes a year by road.
Infrastructure	Processing and handling plant, pre-coat plant, site workshop, laboratory, office and administration, and staff amenity buildings. Construction of a grade separated interchange with the Hume Highway, Marulan South Road and Jerrara Road, quarry access road off the Hume Highway, rail loop off the Main Southern Rail Line, and truck and train loading facilities.

**Table 4.1**      **Project summary**

<b>Component</b>	<b>Approved development</b>
Hours of operation	<ul style="list-style-type: none"><li>• quarrying 7 am to 10 pm Monday to Sunday;</li><li>• processing 24 hours, 7 days a week; and</li><li>• product transport 24 hours, 7 days a week.</li></ul>
Operational workforce	115 full time jobs
Rehabilitation	Rehabilitation of emplacement areas and quarry benches. Final use of the quarry pit could include water storage or recreational facility, or in-pit dumping of overburden and excess product storage should the life of the quarry be extended beyond Year 30.
Capital investment value	\$195 million.

Source: DP&E (2005).

A view across the quarry area with the infrastructure area in the background is provided in Photograph 4.1.

Continued construction of the crushing plant was taking place during the audit site inspection on 22 October 2014.



**Photograph 4.1**      **View north-east towards primary crushing area with quarry pit beyond (22/10/14)**



## 5 Audit results

Compliance of the project with the conditions listed in Section 1.2 is detailed in the audit table in Appendix B. The audit table provides:

- condition identification numbers for all items;
- the activity/requirement being assessed;
- the evidence used to verify the compliance assessment;
- the results, that is:
  - Compliance (C): adequate and appropriate implementation against current departmental approval or conditions, or compliance with commitments made;
  - Observation (O): a finding which is not likely to significantly affect the operation, which does not strictly relate to the compliance audit but which could lead to performance improvement;
  - Non-compliance: an inadequacy in the design and/or implementation against current approvals, licence conditions or management commitments. There are two sub-categories of non-compliance:
    - Category 1 (NC1) - a total absence of planning or implementation of a required operations element which presents an immediate risk or an isolated lapse in control in the implementation of an operations element which will lead to a significant risk;
    - Category 2 (NC2) - an isolated lapse or absence of control in the implementation of an operations element which may not be of significant risk; and
  - Not applicable (NA).

### 5.1 Audit results

A summary of the conditions (Development Consent DA 128-5-2005; including Modification 1 (21/12/05), Modification 2 (22/3/11) and Modification 3 (17/6/11); and EPL 12939) where a non-compliance was recorded is provided in Table 5.1. A summary of recommendations that were not associated with a non-compliance is provided in Table 5.2.

**Table 5.1 Non-compliance summary**

Schedule Condition	Compliance status	Comments and recommendations
<b>Schedule 2 General Administrative Conditions</b>		
<b>Obligation to Minimise Harm to the Environment</b>		
1 The Applicant shall implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.	NC2	<p>A wide range of measures to prevent and/or minimise any harm to the environment that may result from the construction have been implemented. Exceptions are noted as part of this audit.</p> <p>During the audit inspection, the site was generally well maintained and tidy. Small amounts of litter were observed on site. This was largely within the processing area.</p> <p><b>Recommendation 1: All litter is removed from the site and additional measures are implemented within the processing area to ensure litter is not generated.</b></p>
<b>Terms of approval</b>		
4A Within 3 months of any modification of this consent, unless otherwise agreed to by the Director-General, the Applicant shall review and, if necessary, revise the strategies, plans, and programs required under this consent to the satisfaction of the Director-General.	NC2	<p>The Director-General (now Secretary) required amendments to Water Management Plan and Rehabilitation and Landscape Management Plan. These have been submitted but there is no evidence that they have been approved.</p> <p><b>Recommendation 3: The Water Management Plan and Rehabilitation and Landscape Management Plan are finalised in consultation with DP&amp;E.</b></p>
<b>Schedule 3 Specific Environmental Conditions</b>		
<b>Identification of boundaries</b>		
1 Prior to carrying out any development, or as otherwise agreed by the Director-General, the Applicant shall: <ul style="list-style-type: none"> <li>• Submit a survey plan of these boundaries to the Department.</li> </ul>	NC2	<p><b>Recommendation 4: Determine whether the survey was submitted to DP&amp;E. If not, the survey should be submitted.</b></p>

**Table 5.1 Non-compliance summary**

Schedule Condition	Compliance status	Comments and recommendations
<b>Noise limits</b>		
<b>Operating hours</b>		
5 Blasting Monday-Saturday: 9am to 5pm Sunday and Public Holidays: None	NC2	<p>Compliance cannot be verified from summary monitoring data. It is understood that the 'Sampling Date' in the monitoring summaries is when the information is entered as opposed to the date of the blast. Blast times are not provided in the publically available monitoring data.</p> <p>The blasting contractor (Maxam) provides blast reports for each blast. It is understood that these include blast monitoring results. However, these reports were not available to the auditor.</p> <p>There are no complaints regarding blasting outside of the specified hours and it is not believed that blasting occurred outside of the permitted hours but this could not be formally verified.</p> <p><b>Recommendation 5: Actual blast dates and times are provided with published blast monitoring records.</b></p>
<b>Ground vibration impact assessment criteria</b>		
8 Peak particle velocity (mm/s) of 25: Main Southern Railway Line Reservoir	NC2	<p>With the exception of the monitoring data summary for 14/6/14 to 30/6/14, no blast monitoring data for the Main Southern Railway Reservoir has been provided.</p> <p><b>Recommendation 7: Blast monitoring is undertaken at the Main Southern Railway Reservoir unless written agreement with ARTC is reached (see Recommendation 8).</b></p>
8 Peak particle velocity (mm/s) of 100: Gas Pipeline	NC2	<p>With the exception of the monitoring data summary for 14/6/14 to 30/6/14, no blast monitoring data for the Gas Pipeline has been provided.</p> <p><b>Recommendation 8: Blast monitoring is undertaken at the Main Southern Railway Reservoir unless written agreement with ARTC is reached.</b></p>
<b>Table 6: Long term impact assessment criteria for particulate matter</b>		
12 Total suspended particulate (TSP) matter	NC2	<p>It is stated in the air quality monitoring program (Rev 2) that TSP will be calculated as 2.5 x PM<sub>10</sub> concentration but TSP is not presented in the AEMR.</p> <p><b>Recommendation 9: calculated TSP concentrations are presented in future AEMRs.</b></p>

**Table 5.1 Non-compliance summary**

Schedule Condition	Compliance status	Comments and recommendations
<b>Pollution of waters</b>		
16 Except as may be expressly provided by a License, the Applicant shall comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> during the carrying out of the development.	NC1	<p>section 120 Prohibition of pollution of waters</p> <p>(1) A person who pollutes any waters is guilty of an offence.</p> <p>(2) In this section: pollute waters includes cause or permit any waters to be polluted.</p> <p>There was a dam overflow at Sedimentation Dams E and F starting on 16 August 2014 during a period of heavy rain. A Dam Overflow Report was prepared examining the dam discharge event. The report was provided to EPA and Sydney Water Catchment Authority and circulated within Holcim.</p> <p>The site’s Pollution Incident Response Management Plan (PIRMP) was implemented. The Dam Overflow report states that the dam design average return interval (ARI) was as per the Blue Book. However, the rainfall received was greater than ARI causing an overflow. The Dam Overflow report states that event monitoring started on 19 August 2014 and that water quality criteria were exceeded. The report concluded that no material harm came from dam overflow as the events were minor in nature, contributing to little water to draining catchments. A number of mitigation measures are recommended within the report which have generally been implemented.</p> <p><b>Recommendation 10: given the additional measures to manage the dams (including freeboard) were implemented, no further actions are recommended.</b></p>
21 The Water Balance shall: (b) describe measures to minimise water use by the development.		<p>The Water Management Plan (Rev 2) does not describe how to reduce water use, only describing how to recycle water.</p> <p><b>Recommendation 11: The next version of the Water Management Plan includes measures to minimise water use.</b></p>
22 The Erosion and Sediment Control Plan shall: (b) identify activities that could cause soil erosion and generate sediment;		<p>The Water Management Plan (Rev 2) does not describe activities which could cause erosion and sedimentation.</p> <p><b>Recommendation 12: The next version of the Water Management Plan identifies activities that could cause soil erosion and generate sediment.</b></p>
<b>Review and reporting</b>		
25 Each year from the date of this consent, the Applicant shall: (a) review, and if necessary update, the Water Management Plan; and	NC2	<p>The Water Management Plan has not yet been updated to address minor recommendations in 2012 audit report (see Schedule 3, Conditions 21 and 22).</p> <p><b>Recommendation 13: The Water Management Plan is updated as part of the annual review specified in Section 9.0 of the plan to address audit comments.</b></p>

**Table 5.1 Non-compliance summary**

Schedule Condition	Compliance status	Comments and recommendations
<b>Schedule 4 Additional procedures</b>		
<b>Annual review</b>		
6 (b) include a comprehensive review of the monitoring results and complaints records of the project over the past financial year, which includes a comparison of the results against the: <ul style="list-style-type: none"> <li>relevant statutory requirements, limits or performance measures/criteria;</li> <li>monitoring results of previous financial years; and</li> <li>relevant predictions in the EIS.</li> </ul>	NC2	Draft Annual Review 2013/2014 does not list results of previous financial years to compare against.  <b>Recommendation 15: Annual Review reports present the results of previous years' monitoring (eg as graphs showing all monitoring to date - or at least five years of data).</b>  <b>Recommendation 16: Annual Review reports present the EIS predictions (eg PM<sub>10</sub> levels predicted at monitoring sites).</b>
6 (d) identify any trends in the monitoring data over the life of the project;	NC2	<b>Recommendation 17: Annual Review reports describe long-term trends (see recommendations 15 and 16).</b>
6 (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and	NC2	Considered bird droppings as potential cause of 3 dust deposition exceedences. Lists some monitoring (surface water and PM10 monitoring) not undertaken due to change of contractors in December 2013.  However, comparison to EIS predictions not provided.  <b>See recommendations 15 and 16.</b>
<b>Independent environmental audit</b>		
8A Within 3 months of submitting a copy of the audit report to the Director-General, the Applicant shall review and if necessary revise any strategies/plan/programs required under this consent, to the satisfaction of the Director-General.	NC2	Management plans have not been updated to address all 2012 audit recommendations.  <b>Recommendation 18: The Water Management Plan (Rev 2) is updated to include measures to minimise water use and identifies activities that could cause soil erosion and generate sediment.</b>
<b>Access to information</b>		
11 Within 1 month of the approval of any plan/strategy/program required under this consent (or any subsequent revision of these plans/strategies/programs), the completion of the independent audits required under this consent, or the completion of the AEMR, the Applicant shall (to the satisfaction of the Director-General):		

**Table 5.1 Non-compliance summary**

Schedule Condition	Compliance status	Comments and recommendations
11 (a) provide a copy of the relevant document/s to the Council, relevant agencies and the CCC;	NC2	No evidence was sighted to confirm that this has occurred. However, the CCC meeting notes for June and October 2011 are available on the website. <b>Recommendation 19: Confirm that all plan/strategy/programs required under this consent have been provided to the Council and relevant agencies.</b>
11 (c) put a copy of the relevant document/s on the Applicant’s website;	NC2	Several links to approval documents were broken. For example, the Modification 2 Response to Submissions report could not be downloaded from the website. <b>Recommendation 21: That all links on the Lynwood Quarry website are fixed so that all required documents can be accessed from the website.</b>
12 The Applicant must ensure that an archaeological publication for the general public of Old Marulan Township incorporating the results of the archaeological programme at the site is prepared. Final design details of this publication are to be submitted to the Director of the NSW Heritage Office for approval within six months of the completion of the excavation programme. The publication is to be completed within one (1) year of the conclusion of the project unless an extension of time is approved by the Heritage Council of NSW.	NC2	It understood that the Heritage Office has granted an extension allowing the report to be submitted in 2015. However, written correspondence was not available. <b>Recommendation 24: Holcim confirms that the Heritage Council of NSW has granted an extension of time for the submission of the heritage report detailing the results of the archaeological program and that this report is completed as soon as possible.</b>

**Table 5.2 Additional recommendations**

Schedule	Condition	Compliance status	Comments and recommendations
<b>Schedule 2 General Administrative Conditions</b>			
<b>Terms of approval</b>			
2	The Applicant shall carry out the development generally in accordance with the: (a) DA-128-5-2005;	C	<p>Development is generally in accordance with DA. However, the intent to load trains at the site with material imported from Johnniefelds Quarry is ambiguous in the EIS.</p> <p>Holcim is currently loading trains on the completed rail Lynwood Quarry siding with material extracted from Johnniefelds Quarry (Photograph 5.1). Holcim reports that this material is entirely rail ballast.</p> <p>Section 3.5.2.2 of the original EIS (Umwelt 2005) states, “[t]he Lynwood Quarry rail loading facility will be able to load rail ballast via the automated train loading bins and therefore Readymix plans to cease loading of ballast at the Marulan rail siding once this facility becomes operational”. Section 2.3 of Appendix 10 of the EIS (Lynwood Quarry Noise and Blasting Impact Assessment) states “Readymix currently delivers rail ballast from its Johnniefelds quarry to a loading area in Marulan for use in rail line maintenance. This ballast loading operation is proposed to be transferred to the project areas as part of this development”. These appear to be the only mentions of the importation of material to the Lynwood site from Johnniefelds Quarry in the original EIS, subsequent modifications or the development consent.</p> <p>The intent to import ballast to the Lynwood site for loading to trains is ambiguous in the project description chapter of the original EIS (ie in Section 3.5.2.2).</p> <p><b>Recommendation 2: Holcim clarifies with DP&amp;E that the intent of the project description in the EIS was to include the import rail ballast from Johnniefelds Quarry for loading to trains at the Lynwood site.</b></p>
<b>Schedule 3 Specific Environmental Conditions</b>			
<b>Airblast Overpressure Criteria</b>			
7	The Applicant shall ensure that the airblast overpressure level from blasting at the development does not exceed the criteria in Table 3 at any residence on privately owned land.	C	<p>2014 Draft Annual Review 2013/2014: section 4.0 states that a total of 11 blasts were recorded during the reporting period, with all undertaken during daytime hours and none were above 5mm/s allowed vibration levels. No fly rock left the site and currently there are no registered residents to be notified prior to blasting.</p> <p>No data were available to confirm that overblast criteria were met (see Schedule 5, Condition 11).</p> <p><b>Recommendation 6: The AEMR should make a statement regarding overpressure as well as ground vibration.</b></p>

**Table 5.2 Additional recommendations**

Schedule	Condition	Compliance status	Comments and recommendations
<b>Old Marulan Township</b>			
39	Prior to seeking this approval, the Applicant shall undertake a detailed investigation of the archaeological potential of the proposed development area in the Old Marulan Township, including archaeological testing, to the satisfaction of the NSW Heritage Council. This archaeological investigation must clarify the nature, extent, and significance of the relics in the proposed development area.	C	A detailed report on the archaeological investigation into the Old Marulan Township is expected to be available in 2015. The stage 1 archaeological investigation report prepared by Rinker Australia Pty Ltd and Umwelt (Australia) Pty Ltd from 2007 is available online.  <b>Recommendation 14: The detailed European Heritage investigation report is finalised as soon as possible and made available on the Holcim website.</b>
<b>Schedule 5 Environmental management, monitoring, auditing and reporting</b>			
<b>Access to information</b>			
11	Within 1 month of the approval of any plan/strategy/program required under this consent (or any subsequent revision of these plans/strategies/programs), the completion of the independent audits required under this consent, or the completion of the AEMR, the Applicant shall (to the satisfaction of the Director-General):		
	(b) ensure that a copy of the relevant document/s is made publicly available at the quarry; and;	O	Public access to the quarry is limited but quarry contact details are on the website to request this information. Documents are available on the website but the most recent documents have not been added to the website.  <b>Recommendation 20: That Holcim requests that this condition be removed based on the availability of these documents on the website (Schedule 5, Condition 11(c)).</b>
12	During the life of the development, the Applicant shall (to the satisfaction of the Director-General):		
	(a) make a summary of monitoring results required under this consent publicly available at the quarry and on its website; and	C	Monitoring results are placed on Holcim's website each fortnight. Some can be downloaded as Excel files and viewed. However, others could not be opened by the author (using Safari or Explorer web browsing programs).  <b>Recommendation 22: The monitoring results are all provided on the website so that they can be simply downloaded as Excel files on commonly used web browsers.</b>
<b>Appendix 7: Detailed heritage conditions</b>			
<b>Access to information</b>			
9	Throughout the archaeological excavation works and post-excavation analysis, the Applicant must ensure that:	O	The work has largely been completed. However, it would have been inappropriate to place public signage at the site which was on private land and part of a construction site due to safety concerns.

**Table 5.2 Additional recommendations**

Schedule	Condition	Compliance status	Comments and recommendations
	(a) Appropriate signage to explain the history of the site and the archaeological excavation works is placed at the site during the work		<b>Recommendation 23: That the website addressing the archaeological works (see Schedule 5, Condition 9(d)) is considered to address this requirement.</b>
<b>EPL monitoring and recording conditions</b>			
<b>Monitoring records</b>			
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a)the date(s) on which the sample was taken; b)the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	C	Sample times for surface water and groundwater samples were not recorded. <b>Recommendation 25: All sample times and the name of the person who collected the sample are recorded with the published monitoring data.</b>
M3.1	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with: a)any methodology which is requiredbyor underthe Actto be used for the testing of the concentration of the pollutant; or b)if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.  Note: The Protection of the Environment Operations (Clean Air) Regulation 2010 requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".	C	Data recorded as required in M2.1 but no methods recorded. <b>Recommendation 26: Sampling methods are recorded with the monitoring data.</b>



**Photograph 5.1**      **Lynwood Quarry rail siding (22/10/14)**

## 5.2 Interviews

Holcim staff that have environmental management responsibilities at the quarry were interviewed as part of the audit:

- Shannon Ladewig, Head of Lynwood Quarry Project;
- Mick Cannileri, Lynwood Quarry Commissioning Manager;
- Annie Milevski, Metso Site Manager;
- Dan Cooper, Coopers Manager; and
- Alana White, Lynwood Senior Environment and Community Liaison.

The interviews included discussion of the staff member's:

- role;
- environmental responsibilities;
- environmental reporting responsibilities; and
- understanding of environmental issues at the site.

It was apparent that each of the staff members and contractors interviewed had a clear understanding of their environmental responsibilities, the environmental issues faced by the site (or the portion in which they operate as a contractor) and the management of these issues.

The ability to implement day-to-day environmental management actions at the site was good; as was the understanding of responsibilities for management and reporting of incidents. Alternative senior management resources were identified for when a given member of the management staff is unavailable.

The ongoing direct involvement in community consultation by senior management, particularly by Shannon Ladewig, is of particular note.

Systems for environmental monitoring and reporting (see Section 4.1) appear to be widely and consistently used by the staff interviewed. This is a significant improvement from the time of the 2012 audit.



## 6 Audit summary

An independent environmental audit of the Lynwood Quarry was undertaken to meet Condition 7 of Schedule 5 of development approval DA 128-5-2005. The audit criteria were the conditions in DA 128-5-2005 and EPL 12939 (as varied 23 September 2013). Audit evidence was collected during a site inspection on 22 October 2014 and some documents were provided by Holcim after the inspection.

The audit period was taken to be 24 April 2012 to 22 October 2014.

The quarry construction site is generally well managed with appropriate environmental controls in place.

There was one non-compliance that was not of an 'administrative' nature. This was as a result of water being discharged from two sedimentation dams during heavy rainfall in August 2014. The site's PIRMP was implemented and a Dam Overflow Report was prepared examining the dam discharge event. The Dam Overflow Report was provided to EPA and Sydney Water Catchment Authority and circulated within Holcim. Given the additional measures implemented to manage the dams (including freeboard), no further actions are recommended.

There were a range of administrative non-compliances that can generally be addressed through consultation with the relevant agencies or through the recording and publishing of additional environmental information.



## References

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Australian Bureau of Statistics (ABS) 2011. *Census of Population and Housing*.

Holcim (Australia) Pty Ltd 2011, *Holcim Lynwood DA128-5-2005; DA 128-5-2005 Modification 1 AND DA 128-5-2005 Modification 2*. Letter to the Director-General Planning 17 June 2011. [Accompanying application for DA-128-5-2005 MOD 3].

Department of Planning and Infrastructure (DP&I) 2011, *Development Consent, Lynwood Hard Rock Quarry and Associated Infrastructure*. August.

EMGA Mitchell McLennan (EMM) 2012, *Lynwood Quarry Independent Environmental Audit*, Prepared for Holcim Australia Pty Limited.

Umwelt (Australia) Pty Ltd, 2005, *Environmental Impact Statement*. Report prepared for Readymix Holdings Pty Ltd. [Accompanying DA-128-5-2005].

- 2009, *Statement of Environmental Effects Proposed Minor Modifications to Lynwood Quarry, Marulan*. Report prepared for CEMEX Australia Pty Ltd. [Accompanying application for DA-128-5-2005 MOD 1].
- 2010, *Environmental Assessment Proposed Modifications to Lynwood Quarry, Marulan*. Report prepared for Holcim (Australia) Pty Ltd.
- 2011, *Response to Submissions - Modification to Lynwood Hard Rock Quarry (DA- DA-128-5-2005 Mod 2)*. Letter to the Director-General Department of Planning 10 January 2011.



Appendix A

Audit plan

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## Lynwood Quarry

Independent Environmental Audit | Audit Plan

Prepared for Holcim Australia Pty Ltd | 16 October 2014

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## Lynwood Quarry

Final

Report J14125RP1 | Prepared for Holcim Australia Pty Ltd | 16 October 2014

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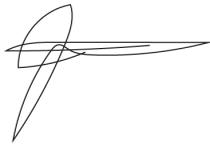
Prepared by **Mina Aynsley**

Approved by **Dr Philip Towler**

Position Environmental Planner

Position Associate Director

Signature



Signature



Date 16 October 2014

Date 16 October 2014

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This report has been prepared in accordance with the brief provided by the client and has relied upon the information collected at or under the times and conditions specified in the report. All findings, conclusions or recommendations contained in the report are based on the aforementioned circumstances. The report is for the use of the client and no responsibility will be taken for its use by other parties. The client may, at its discretion, use the report to inform regulators and the public.

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### Document Control

Version	Date	Prepared by	Reviewed by
V0	25/09/14	M. Aynsley	P. Towler
V1	09/10/14	M. Aynsley	P. Towler
V2	16/10/14	M. Aynsley	P. Towler



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## References

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## Tables

**No table of figures entries found.**



# 1 Introduction

EMGA Mitchell McLennan Pty Limited (EMM) has been commissioned to undertake an independent environmental audit of the Holcim Australia Pty Limited (Holcim) Lynwood Quarry facility located at Marulan in the Southern Tablelands region of New South Wales (NSW).

This audit plan has been prepared in accordance with the Australian/New Zealand Guidelines for Quality and/or Environmental Systems Auditing (AS/NZS 19011:2003).

## 1.1 Audit objectives

This independent environmental audit is required under Condition 6 of Schedule 5 of Development Consent DA 128-5-2005 issued by the Minister for Planning on the 21 December 2005 for the proposed development of *Lynwood Hard Rock Quarry and Associated Infrastructure*. This Development Consent was most recently updated on 19 August 2011.

The objectives of the audit are to meet the requirements of Condition 6:

*By the end of December 2011, the end of December 2014, and every 5 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:*

- (a) be conducted by a suitably qualified, experienced, and independent person whose appointment has been endorsed by the Director-General;*
- (b) be consistent with ISO 19011:2002 - Guidelines for Quality and/ or Environmental Systems Auditing, or updated versions of this guideline;*
- (c) assess the environmental performance of the development, and its effects on the surrounding environment;*
- (d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;*
- (e) review the adequacy of any strategy/plan/program required under this consent; and, if necessary,*
- (f) recommend measures or actions to improve the environmental performance of the development, and/or any strategy/plan/program required under this consent.*

## 1.2 Audit criteria and scope

Audit criteria are the policies, procedures or requirements against which an action will be compared. In this case, the proposed audit criteria are the conditions in: *Development Consent for the Lynwood Hard Rock Quarry and Associated Infrastructure*, DA 128-5-2005 (DP&I 2011) and Environment Protection Licence 12939 (as varied 23 September 2013). The Development Consent requires that the development is generally in accordance with:

- *Environmental Impact Statement (EIS) for the Proposed Lynwood Quarry Marulan, Volumes 1 to 4, May 2005 (Umwelt 2005);*
- *Modification Application DA-128-5-2005 MOD 1 and the accompanying Statement of Environmental Effects: Proposed Minor Modifications to Lynwood Quarry, Marulan, January 2009 (Umwelt 2009);*

- Modification Application DA 128-5-2005 MOD 2 and the accompanying *Environmental Assessment for Proposed Modifications to Lynwood Quarry, Marulan*, October 2010, (Umwelt 2010) and the response to submissions January 2011 (Umwelt 2011a);
- Modification Application DA 128-5-2005 MOD 3 and the accompanying letter, *Holcim Lynwood DA128-5-2005; DA128-5-2005 Modification 1 and DA128-5-2005 Modification 2*, 17 June 2011 (Holcim 2011a); and
- Environment Protection Licence (EPL) 12939 – Lynwood Quarry.

The audit will cover activities between the conclusion of the 2012 Independent Environmental Audit (EMM 2012) and the date of the 2014 site inspection.

## 2 Audit activities

The audit activities are described below. They will be confirmed at the audit opening meeting.

### 2.1 Opening meeting

An audit opening meeting will be held at Holcim's Chatswood office.

**Date:** Thursday 9 October 2014

**Time:** 9.00 am

**Attendees:**

- Rachael Heath, Holcim, Acting Planning and Development Manager
- Alana White, Holcim, Senior Environment & Community Liaison
- Daniel Lidbetter, Holcim, NSW Planning & Environment Coordinator
- Philip Towler, EMM, Lead Auditor
- Mina Aynsley, EMM, Supporting Auditor.

**Agenda:**

- Introductions (all)
- Outline audit plan (PT)
- Confirm audit scope (PT)
- Description of project status (Holcim)
- Outline of environmental issues (Holcim): Holcim's views on, and responses to, environmental issues at the site. These should include issues raised by neighbours, agencies or other stakeholders
- Project organisation chart (Holcim)
- Status of actions on 2012 audit recommendations (Holcim)
- Informing DP&E (PT/Holcim)
- Plan site inspection (including areas to be visited) and interviews (PT)
- Audit timing:
  - Interviews (Chatswood)
  - Site inspection and interviews

- Closing meeting
- Draft audit report
- Final audit report.

## 2.2 Audit interviews

Audit interviews will be scheduled at Holcim's Chatswood office or at the Lynwood Quarry on the day of the site inspection.

Interviews with the following personnel are envisaged:

- project director;
- senior project manager;
- community and environment manager; and
- key contractors.

Interviews will be between 15 and 30 minutes and will include discussion of the interviewee's understanding of their responsibilities, general environmental management of the site and specific environmental responsibilities or issues.

## 2.3 Data collection and verification

The reports used for the 2012 Independent Environmental Audit (EMM 2012) are available to EMM as well as those on the Holcim website (<http://www.holcim.com.au/lynwood-quarry.html>). Additional reports will be requested from Holcim during the audit.

These reports will be reviewed to determine whether they address specific conditions, eg requirements for management plans. Additional reports will be requested or required.

## 2.4 Site inspection

A site inspection will be undertaken by the lead auditor and supporting auditor in October 2014. The timing of the inspection will be agreed at the opening meeting.

It is envisaged that the site inspection will take approximately two to three hours and encompass all project areas. Interviews with site personnel will be undertaken on the same day.

The lead auditor and supporting auditor will be escorted around the site by Alana White.

## 2.5 Closing meeting

A closing meeting will be held with Holcim personnel in Holcim's Chatswood office. This will provide initial feedback and an opportunity to discuss opportunities to address any identified issues.

## 2.6 Reporting

The audit report will contain the following sections:

1. Introduction:

- audit objectives;
- audit criteria and scope;
- audit method;
- audit team roles and responsibilities; and
- acknowledgments;

2. Audit context:

- planning;
- environmental;
- social;
- project status;

3. Compliance audit which will be in tabular format (see Appendix A) and provide:

- a) condition numbers in DA 128-5-2005 (DP&I 2011) and EPL 12939;
- b) the condition being assessed;
- c) the evidence used to verify the compliance assessment;
- d) the compliance results, that is:
  - i) Compliance (C): adequacy and appropriateness of implementation against current Departmental Approval or Conditions, or compliance with commitments made;
  - ii) Observation (O): a finding which is not likely to significantly affect the operation, which do not strictly relate to the scope of the audit of compliance and which could lead to performance improvement;
  - iii) Non Compliance: an inadequacy in the design and/or implementation against current Departmental approvals, licence conditions or management commitments. There are two subcategories of non-compliance:  
  
Category 1 (NC1) - a total absence of planning or implementation of a required operations element which presents an immediate risk or an isolated lapse in control in the implementation of an operations element which will lead to a significant risk; or  
  
Category 2 (NC2) - an isolated lapse or absence of control in the implementation of an operations element which may not be of significant risk; and
- iv) Not applicable (NA).
- e) Comments, including any observations.

4. Additional observations; and
5. Recommendations.

## 3 Audit team roles and responsibilities

### 3.1 Holcim

Alana White is responsible for assisting the auditors. Alana is the Senior Environment and Community Liaison for Lynwood Quarry. In this role, she is responsible for implementing management plans and providing advice on complying with the conditions of consent.

### 3.2 EMM

The lead auditor and audit report author will be Dr Philip Towler. Philip has 18 years experience in managing environmental programs, including expertise in project management, conducting environmental audits and due diligence reviews, the preparation of environmental and social impact assessments and environmental management plans for mining projects around Australia and internationally. Philip has been approved as a compliance auditor by the NSW Department of Planning and Environment.

Mina Aynsley will provide support to the lead auditor.

### 3.3 Independence of the EMM audit team

Philip and Mina are independent of Holcim. The accepted test of this is that the person has not undertaken work for the organisation in question for the prior five years and there is no other contractual association. This is the case as the proposed audit team members have not worked for Holcim, other than on the 2012 Independent Environmental Audit.

A letter has been submitted to the Department of Planning & Environment (DP&E) requesting the approval of the appointment of the audit team.



## References

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EMGA Mitchell McLennan Pty Ltd 2012, *Lynwood Quarry Independent Environmental Audit*, Report Prepared for Holcim (Australia) Pty Ltd

Holcim (Australia) Pty Ltd 2011a, Holcim Lynwood DA128-5-2005; DA 128-5-2005 Modification 1 AND DA 128-5-2005 Modification 2. Letter to the Director General Planning 17 June 2011. [Accompanying application for DA-128-5-2005 MOD 3].

NSW Government Department of Planning and Infrastructure (DP&I) 2011, *Development Consent, Lynwood hard rock quarry and associated infrastructure*. August.

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Umwelt (Australia) Pty Ltd, 2009, *Statement of Environmental Effects Proposed Minor Modifications to Lynwood Quarry, Marulan*. Report prepared for CEMEX Australia Pty Ltd. [Accompanying application for DA-128-5-2005 MOD 1].

Umwelt (Australia) Pty Ltd 2011a, Response to Submissions - Modification to Lynwood Hard Rock Quarry (DA- DA-128-5-2005 Mod 2). Letter to the Director General Department of Planning 10 January 2011.



## Appendix B

### Audit table

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**Lynwood Quarry  
Independent Environmental Audit - 2014**

DA 128-5-2005 (including Modification 1 (21/12/05) , Modification 2 (22/3/11) and Modification 3 (17/6/11)) and EPL 12939				
Section	Condition	Evidence verified	Compliance	Comments and recommendations
<b>SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS</b>				
<b>Obligation to Minimise Harm to the Environment</b>				
1	The Applicant shall implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.	Audit observations	NC2	A wide range of measures to prevent and/or minimise any harm to the environment that may result from the construction have been implemented. Exceptions are noted as part of this audit.  During the audit inspection, the site was generally well maintained and tidy.  Small amounts of litter were observed on site. This was largely within the processing area.  <b>Recommendation 1: all litter is removed from the site and additional measures are implemented within the processing area to ensure litter is not generated.</b>
<b>Terms of Approval</b>				
2	The Applicant shall carry out the development generally in accordance with the: (a) DA-128-5-2005;	-	-	
			C	Development is generally in accordance with DA. However, the intent to load trains at the site with material imported from Johnniefields Quarry is ambiguous.  Holcim is currently loading trains on the completed rail Lynwood Quarry siding with material extracted from Johnniefields Quarry (Photograph 5.1). Holcim reports that this material is entirely rail ballast.  Section 3.5.2.2 of the original EIS (Umwelt 2005) states, "[t]he Lynwood Quarry rail loading facility will be able to load rail ballast via the automated train loading bins and therefore Readymix plans to cease loading of ballast at the Marulan rail siding once this facility becomes operational". Section 2.3 of Appendix 10 of the EIS (Lynwood Quarry Noise and Blasting Impact Assessment) states "Readymix currently delivers rail ballast from its Johnniefields quarry to a loading area in Marulan for use in rail line maintenance. This ballast loading operation is proposed to be transferred to the project areas as part of this development". These appear to be the only mentions of the importation of material to the Lynwood site from Johnniefields Quarry in the original EIS, subsequent modifications or the development consent. The intent to import ballast to the Lynwood site for loading to trains is ambiguous in the project description chapter of the original EIS (ie in Section 3.5.2.2).  <b>Recommendation 2: Holcim clarifies with DP&amp;E that the intent of the project description in the EIS was to include the import rail ballast from Johnniefields Quarry for loading to trains at the Lynwood site.</b>
	(b) EIS for the Proposed Lynwood Quarry Marulan, Volumes 1 to 4, dated May 2005;	Audit observations (review)	C	Development general in accordance with EIS (as later modified)
	(c) Modification Application DA-128-5-2005 MOD 1 and the accompanying SEE titled "Proposed Minor Modifications to Lynwood Quarry, Marulan", dated January 2009; and	Audit observations (review)	C	Development general in accordance with SEE (as later modified)
	(d) Modification Application DA 128-5-2005 MOD 2 and the accompanying EA titled <i>Environmental Assessment Proposed Modifications to Lynwood Quarry, Marulan</i> , dated October 2010, prepared by Umwelt (Australia) Pty Limited, including the response to submissions dated January 2011; and	Audit observations (review)	C	Development general in accordance with EA (as later modified)
	e) Modification Application DA 128-5-2005 MOD 3 and the accompanying letter titled <i>Holcim Lynwood DA 128-5-5-2005 Modification 1 and DA 128-5-2005 Modification 2</i> , dated June 17 2011, prepared by Holcim (Australia) Pty Ltd; and	Audit observations (review)	C	Development general in accordance with letter

**Lynwood Quarry  
Independent Environmental Audit - 2014**

Section	Condition	Evidence verified	Compliance	Comments and recommendations
	f) Conditions of this consent.	Audit observations (review)	-	Development general in accordance with consent. Specific conditions described below.
3	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of the approval shall prevail to the extent of any inconsistency.	-	-	
4	The Applicant shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:	-	-	
	(a) any reports, plans or correspondence that are submitted in accordance with this development consent; and	-	-	
	(b) the implementation of any actions or measures contained in these reports, plans or correspondence.	-	-	
4A	Within 3 months of any modification of this consent, unless otherwise agreed to by the Director-General, the Applicant shall review and, if necessary, revise the strategies, plans, and programs required under this consent to the satisfaction of the Director-General.	Sighted letter from Director-General DP&I approving management plans (4/4/2012)*	NC2	The Director-General required amendments to Water Management Plan and Rehabilitation and Landscape Management Plan. These have been submitted but there is no evidence that they have been approved. <b>Recommendation 3: the Water Management Plan and Rehabilitation and Landscape Management Plan are finalised in consultation with DP&amp;E.</b>
<b>Limits on Approval</b>				
5	With respect to quarry operations, this consent shall lapse on 1 January 2038.  Note: The conditions of this consent require the Applicant to carry out certain activities beyond the period of approval for the extracting, processing and transporting extractive material on the site.	NA - milestone not reached	NA	2010 EA section 1: seeks approval for a 30 year Quarry period but does not specify the exact date when this quarry period will end.
6	Prior to the commissioning of the proposed Hume Highway Interchange, the Applicant shall not transport any product from the site by road, except for use in construction of the interchange and associated works.	Milestone reached	C	2010 EA: "traffic movements have increased in the 15 to 18 month construction period prior to the commissioning of the Hume Highway interchange, from 18 vehicle trips per day to 30 vehicle trips per day. The increase in heavy vehicles, for this period, is necessary to allow the concurrent scheduling of site mobilisation and interchange works" p. 6
7	The Applicant shall not transport more than 5 million tonnes of product from the site in a year.	NA - milestone not reached	NA	2005 EIS: section 3.4.2: states that production will reach 5 Tap. after 3 year and will remain at this level for the initial 30 year quarry plan.  2011 SEE: Despite proposed modifications, the project will still only produce 5 million tones per annum of saleable quarry product p. 2. section 2, however, states that they have approval to transport 5 Tap. by rail and 1.5 Tap. by road which, if combined, would be more transported product than allowed.  2010 EA: The proposed 2nd round of modifications states that approved production rate will not change.
8	The Applicant shall not transport more than 1.5 million tonnes of product from the site in a year by road.	NA - milestone not reached	NA	2005 EIS: section 3.5.3 states that they plan to transport most product by train but are seeking approval to transport up to 1.5 Tap. by truck to local and regional markets.
<b>Structural Adequacy</b>				

**Lynwood Quarry  
Independent Environmental Audit - 2014**

Section	Condition	Evidence verified	Compliance	Comments and recommendations
9	The Applicant shall ensure that any new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. Notes: • Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for any building works. • Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of development.	Construction certificates were sighted*	C	
<b>Demolition</b>				
10	The Applicant shall ensure that all demolition work is carried out in accordance with AS 2601-2001: <i>The Demolition of Structures</i> , or its latest version.	No demolition was underway during the audit	NA	None
<b>Protection of Public Infrastructure</b>				
11	The Applicant shall:			
	(a) repair, or pay all reasonable costs associated with repairing any public infrastructure that is damaged by the development; and	NA - circumstance has not arisen	NA	2014, Draft Lynwood Quarry Annual Review 2013/2014: section 2.0 lists construction work that has occurred at the site and, so far, it does not appear that public infrastructure has been relocated or damaged.  2013, Lynwood Quarry Annual Review 2012/2013: section 2.1 lists construction work that has occurred at the site, and, so far, it does not appear that public infrastructure has been relocated or damaged. The Hume Highway interchange and the main site access road was completed during this period.  2005 EIS: section 3.5.4: Readymix proposes that the costs of construction of an interchange type intersection at South Marulan Road are shared by other industrial users of the intersection.  2005 EIS: section 3.8 states that Readymix will be upgrading the existing fence in some areas to improve security.  2005 EIS: section 7.2.2.1 states that minor upgrades will need to take place along the construction access routes and that "Readymix will contribute to the repair of any pavement damage that has occurred during the construction phase."
	(b) relocate, or pay all reasonable costs associated with relocating any public infrastructure that needs to be relocated as a result of the development.	Sighted letter from Paul Morey to M. Eagle (9/3/11) advising of Telstra telephone line relocation works and start dates.*	C	No public infrastructure has been relocated.
<b>Operation of Plant and Equipment</b>				
12	The Applicant shall ensure that all plant and equipment at the site, or used in connection with the development are:	-		
	(a) maintained in a proper and efficient condition; and	No site observations indicated that equipment was poorly maintained but no maintenance records were available.	C	
	(b) operated in a proper and efficient manner.	No site observations indicated that equipment was poorly operated.	C	
<b>SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS</b>				
<b>GENERAL EXTRACTION AND PROCESSING PROVISIONS</b>				
<b>Identification of Boundaries</b>				
1	Prior to carrying out any development, or as otherwise agreed by the Director-General, the Applicant shall:	-	-	
	(a) engage an independent registered surveyor:	Sighted Southern Cross Surveyors invoice (18/8/2010)*	C	
	• survey the boundaries of the approved limit of extraction; and	Sighted boundary survey plan*	C	

**Lynwood Quarry  
Independent Environmental Audit - 2014**

Section	Condition	Evidence verified	Compliance	Comments and recommendations
	• submit a survey plan of these boundaries to the Department;	No letter to DP&E was viewed	NC2	<b>Recommendation 4: determine whether the survey was submitted to DP&amp;E. If not, the survey should be submitted.</b>
	(b) ensure that these boundaries are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits. Note: The limit of extraction is shown conceptually on the plan in Appendix 2, and in more detail in the EIS.	Majority of site boundaries were inspected. They were either fenced or marked with signs	C	
<b>Development in the Riparian Zone (Incorporates NOW GTA)</b>				
2	The Applicant shall not carry out any development in the riparian zone of Joarimin, Lockyersleigh or Marulan Creek without the written approval of NOW. Any such development shall be carried out in accordance with an approved Riparian Area Management Plan (see conditions 44 and 45).	Majority of riparian zones were inspected. They were fenced and marked with signs.	C	The Riparian Area Management plan is contained within the 2011 Rehabilitation and Landscape Management Plan (Rev 2). Appendix 3: Lockyersleigh Creek RAMP Appendix 4: Joarimin Creek Management Plan.  2009 SEE: Modifications reduce the impact on the riparian areas of Lockyersleigh Creek and Joarimin Creek by retaining more natural land and "no longer requiring diversion of secondary flow paths of Joarimin Creek" p. 1
<b>NOISE (Incorporates OEH GTA)</b>				
<b>Noise Limits</b>				
3	The Applicant shall ensure that the noise generated by the operation of the development does not exceed the sound pressure level (noise) limits specified in Table 1.	NA - milestone not reached	-	2005 EIS: section 5.9.1.3 states that "noise modelling results found that the proposed Quarry is predicted to meet all project specific noise criteria"  A community complaint was reported on 04/10/14 regarding shooting taking place near the quarry, however is not related to the quarry construction or operation.
	<b>Table 1: Operational Noise Limits</b>	NA - milestone not reached	NA	2010 EIS: section 6.6.3, the Noise Impact Statement predicts that the proposed modifications will comply with the consent noise criteria "at all sensitive receiver locations."  2014 Draft Annual Review 2013/2014: section 3.0 states that four quarterly monitoring events took place within the reporting period and found that review of all documents confirmed that construction noise complied with legislative requirements and were limited at all times to restrictions within this consent.
	Noise Assess Location -- Day(Laeq-15 minutes)/Evening(LAeq(15 minutes)/Night(Laeq-15 minutes)/Night(LA1-1 minute): 1 - 35/35/35/45 2 - 35/35/35/45 3 - 35/35/35/45 4 - 35/37/35/46 5 - 35/35/35/46 6 - 35/37/36/46 7 - 38/38/35/55 8 - 39/38/36/55 9 - 39/39/37/56 10 - 42/42/40/53 11 - 35/35/35/47 12 - 37/37/36/47 13 - 40/38/37/47 14 - 35/35/35/47	NA - milestone not reached	NA	

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	<p>Notes:</p> <ul style="list-style-type: none"> <li>For more information on the noise impact assessment locations see Appendix 3.</li> <li>Noise from the development is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of a dwelling where the dwelling is more than 30 metres from the boundary, to determine compliance with the noise limits in Table 1, unless otherwise stated.</li> <li>However, noise from the development is to be measured at 1 m from the dwelling façade to determine compliance with the LA1 (1 minute) in Table 1.</li> <li>Where it can be demonstrated that direct measurement of noise from the development is impractical, the OEH may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy). The modification factors in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.</li> <li>The noise limits in Table 1 apply under the following meteorological condition: <ul style="list-style-type: none"> <li>wind speed up to 3m/s at 10 m above ground level; or</li> <li>temperature inversion conditions of up to 30C/100 m and wind speed up to 2 m/s at 10 m above ground level.</li> </ul> </li> </ul>	-	-	
<b>Noise Mitigation Measures</b>				
4	During the development, the Applicant shall:	-	-	
	(a) investigate ways to reduce the noise generated by the development;	Noise reduction programs, eg installation of reversing "squawkers"	C	2005 EIS: section 5.9.1.3 discusses 13 ways of reducing noise in initial noise modelling. The timeframe for this investigation are not specified in the conditions.
	(b) implement all reasonable and feasible noise mitigation measures on the site; and	Sighted INX incident register (23/4/12-4/12/14) - no noise complaints have been received (one complaint about shooting did not specifically relate to noise levels).	C	2010 EA: section 6.6.4 states that "The Quarry has been designed to incorporate a range of noise management measures" and outlines additional noise management measures that are an outcome of the proposed modifications.  A community complaint was reported on 04/10/14 regarding shooting taking place near the quarry, however is not related to the quarry construction or operation.
	(c) report to the Director-General each year on these investigations and the implementation of any new noise mitigation measures on the site in the AEMR.	Viewed 2013/2014 Draft AEMR Viewed 2012/2013 AEMR	C	2014 Draft Annual Review 2013/2014: section 3.0 states that four quarterly monitoring events took place within the reporting period and found that review of all documents confirmed that construction noise complied with legislative requirements and were limited at all times to restrictions within this consent.  2013 Annual Review 2012/2013: section 3.7 states that noise monitoring was undertaken three times during the reporting period which was made more frequent due to issues with noise monitoring program in the previous reporting period, however found that the site was compliant during all monitoring periods.
<b>Operating Hours</b>				
5	The Applicant shall comply with the operating hours in Table 2:	-	-	
<b>Table 2: Operating Hours</b>				
	<b>Activity</b>			
	Construction works Monday-Friday: 7am to 6pm Saturday: 8am to 1pm Sunday and Public Holidays: None	Sighted incident register- no complaints have been received. Works commence at 0700.	C	2014 Draft Annual Review 2013/2014: section 3.0 states that construction was limited at all times to restrictions within this consent.
	Topsoil/ overburden removal /emplacement; drilling Any day: 7am to 6pm	Sighted incident register- no complaints have been received. Works commence at 0700.	C	

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	Blasting Monday-Saturday: 9am to 5pm Sunday and Public Holidays: None	Sighted INX incident register (23/4/12-4/12/14) - no complaints have been received.	NC2	Compliance cannot be verified from summary monitoring data. It is understood that the 'Sampling Date' in the monitoring summaries is when the information is entered as opposed to the date of the blast. Blast times are not provided in the publically available monitoring data which do not provide blast times. The blasting contractor (Maxam) provides blast reports for each blast. It is understood that these include blast monitoring results. However, these reports were not available to the auditor. There are no complaints regarding blasting outside of the specified hours and there is no reason to believe that this condition was not met. <b>Recommendation 5: actual blast dates and times are provided with published blast monitoring records.</b>
	Extraction Any day: 7am to 10pm	NA - milestone not reached Cold commissioning commenced.	NA	
	Processing (crushing, screening, stockpiling); loading, delivery, and distribution; maintenance Any day: Anytime	NA - milestone not reached	NA	
	Notes: • Table 2 only relates to construction works that are audible at any residential receivers on privately owned land. Construction works that are inaudible at any residential receiver may be carried out at any time. • Construction works within the Hume Highway reserve may be undertaken outside the hours specified in Table 2 with the written approval of the RTA.	-	-	
<b>Monitoring</b>				
6	Prior to carrying out any development, the Applicant shall prepare (and following approval implement), a Noise Monitoring Program for the development, in consultation with OEH, and to the satisfaction of the Director-General. This program should include a combination of attended and unattended noise monitoring, and a noise monitoring protocol for evaluating compliance with the noise limits in this consent.	Sighted letter from Director-General DP&I approving management plans (4/4/2012)* Viewed 2013/2014 Draft AEMR Viewed 2012/2013 AEMR	C	2014 Draft Annual Review 2013/2014: section 3.0 states that four quarterly monitoring events took place within the reporting period and found that review of all documents confirmed that construction noise complied with legislative requirements and were limited at all times to restrictions within this consent.  2013 Annual Review 2012/2013: section 3.7 states that noise monitoring was undertaken three times during the reporting period which was made more frequent due to issues with noise monitoring program in the previous reporting period, however found that the site was compliant during all monitoring periods.
<b>BLASTING AND VIBRATION (Incorporates OEH GTA)</b>				
<b>Airblast Overpressure Criteria</b>				
7	The Applicant shall ensure that the airblast overpressure level from blasting at the development does not exceed the criteria in Table 3 at any residence on privately owned land.	Viewed 2013/2014 Draft AEMR Monitoring data summaries (April 2012 to December 2014)	C	2014 Draft Annual Review 2013/2014: section 4.0 states that a total of 11 blasts were recorded during the reporting period, with all undertaken during daytime hours and none were above 5mm/s allowed vibration levels. No fly rock left the site and currently there are no registered residents to be notified prior to blasting. No data were available to confirm that overblast criteria were met (see Schedule 5, Condition 11). <b>Recommendation 6: the AEMR should make a statement regarding overpressure as well as ground vibration.</b>
<b>Table 3: Airblast overpressure impact assessment criteria</b>				
	Airblast overpressure level (dB(Lin Peak)) 115 (5% of the total number of blasts over a period of 12 months) 120 0%	Viewed 2013/2014 Draft AEMR Monitoring data summaries (April 2012 to December 2014)	C	2005 EIS section 5.9.2.3 states that "the assessment of blasting impact on residential receivers predicted that airblast and ground vibration will comply with the ANZECC/DEC criteria at all surrounding residential receivers for each stage of the development."
<b>Ground Vibration Impact Assessment Criteria</b>				

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8	The Applicant shall ensure that the ground vibration level from blasting at the development does not exceed the criteria in Table 4 at any residence on privately owned land, or the criteria in Table 5 for the nominated infrastructure.	Viewed 2013/2014 Draft AEMR Monitoring data summaries (April 2012 to December 2014)	C	2005 EIS section 5.9.2.3 states that "the assessment of blasting impact on residential receivers predicted that airblast and ground vibration will comply with the ANZECC/DEC criteria at all surrounding residential receivers for each stage of the development."  2014 Draft Annual Review 2013/2014: section 4.0 states that a total of 11 blasts were recorded during the reporting period, with all undertaken during daytime hours and none were above 5mm/s allowed vibration levels. No fly rock left the site and currently there are no registered residents to be notified prior to blasting. No data were available to confirm that overblast criteria were met (see DA 128-5-2005, Schedule 5, Condition 11).
	<b>Table 4: Ground vibration impact assessment criteria for residences on privately-owned land</b>			
	Peak particle velocity (mm/s) of 5 (5% of the total number of blasts over a period of 12 months) 10 0%	Viewed 2013/2014 Draft AEMR Monitoring data summaries (April 2012 to December 2014)	C	2014 Draft Annual Review 2013/2014: section 4.0: states that a total of 11 blasts were recorded during the reporting period, with all undertaken during daytime hours and none were above 5mm/s allowed vibration levels. No fly rock left the site and currently there are no registered residents to be notified prior to blasting.
	<b>Table 5: Ground vibration impact assessment criteria on infrastructure</b>	-	-	2005 EIS section 5.9.2.3 predicted that ground vibration levels at years 1, 5, 10, 15, 20 and 30 will be below the level likely to cause impact on the nearby natural gas pipeline, proposed drinking water holding tank and the Main Southern Railway. They will, however, still control MIC values when blasting near the railway. Section 5.9.2.2 says that they have adopted the criterion of 25mm/s for this project.
	Peak particle velocity (mm/s) of 25: Main Southern Railway Line Reservoir	Viewed 2013/2014 Draft AEMR Monitoring data summaries (April 2012 to December 2014)	NC2	With the exception of the monitoring data summary for 14/6/14 to 30/6/14, no blast monitoring data for the Main Southern Railway Reservoir has been provided. <b>Recommendation 7: blast monitoring is undertaken at the Main Southern Railway Reservoir unless written agreement with ARTC is reached (see Schedule 3, Condition 8, below).</b>
	Peak particle velocity (mm/s) of 100: Gas Pipeline	Viewed 2013/2014 Draft AEMR Monitoring data summaries (April 2012 to December 2014)	NC2	With the exception of the monitoring data summary for 14/6/14 to 30/6/14, no blast monitoring data for the Gas Pipeline has been provided. <b>Recommendation 8: blast monitoring is undertaken at the Main Southern Railway Reservoir unless written agreement with ARTC is reached.</b>
	However, if the Applicant has a written agreement with the ARTC to vary the peak particle velocity for the Main Southern Railway Line in Table 5, and a copy of this agreement has been forwarded to the Department, then the Applicant may exceed the limit specified in Table 5 in accordance with the written agreement.		NA	
<b>Operating Conditions</b>				
9	During the development, the Applicant shall implement best blasting practice to: (to the satisfaction of the Director-General.)	Sighted letter sent to David Kitto on 30/9/11 regarding blasting and attached blast management plan*	C	EMSP - Blasting and Vibration (Rev B): Summarises blast responsibilities as outlined in the Development consent but does not state how these responsibilities will specifically be achieved.
	(a) ensure that no flyrock leaves the site;	Viewed 2013/2014 Draft AEMR	C	2014 Draft Annual Review 2013/2014: section 4.0 states that no fly rock left the site and currently there are no registered residents to be notified prior to blasting.
	(b) protect the safety of people, property, and livestock;	Viewed 2013/2014 Draft AEMR	C	2007 Environmental Monitoring Program: Appendix 2, section 4 states that blast monitoring will occur at 3 locations: the closest residence to the quarry, a reference point near the Main Southern Railway and north-west of the quarry near the gas pipeline.  2007 Environmental Monitoring Program section 5.9.2.1 "proposed Blasting Practice" briefly discusses firing technique but does not specifically discuss protection of people, property and livestock

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	(c) minimise the dust and fume emissions from blasting on the site,	Sighted INX incident register (23/4/12-4/12/14)	C	2005 EIS section 7.2.6.2: Blast design will be determined for each blast in accordance with a review of weather conditions to control the blasting and dust impacts. No complaints received.
<b>Public Notice</b>				
10	During the development, the Applicant shall (to the satisfaction of the Director-General):	-	-	
	(a) notify the landowner/occupier of any residence within 2 kilometres of the quarry pit who registers an interest in being notified about the blasting schedule on site;	Viewed 2013/2014 Draft AEMR	C	2014 Draft Annual Review 2013/2014: section 4.0: states that currently there are no registered residents to be notified prior to blasting.
	(b) operate a blasting hotline, or alternative system agreed to by the Director-General, to enable the public to get up-to-date information on blasting operations at the development; and	Sighted blasting hotline in Yellow Pages*	C	
	(c) keep the public informed about this hotline (or any alternative system).	Sighted letter sent to David Kitto on 30/9/11 regarding blasting and hotline*	C	
<b>Monitoring</b>				
11	Prior to carrying out the development, the Applicant shall develop and implement a Blast Monitoring Program for the development, in consultation with OEHL, and to the satisfaction of the Director-General. This program must monitor the impact of blasting on both residences and the infrastructure specified in Tables 4 and 5.	Sighted letter from DP&I (Howard Reed) (6/9/2007)*	C	
<b>AIR QUALITY (Incorporates OEHL GTA)</b>				
<b>Impact Assessment Criteria</b>				
12	The Applicant shall ensure that dust generated by the development does not cause additional exceedances of the criteria listed in Tables 6-8 at any residence that exists on the date of this consent, or on more than 25 percent of any privately owned land.	-	-	2005 EIS Appendix 5. Pages 16 - 18 provides predictions of air quality at 8 locations for 7 years in the 30 year period.  2005 EIS section 5.8.5 of the main text found that only one vacant property may be potentially dust affected.
<b>Table 6: Long term impact assessment criteria for particulate matter</b>				
	Total suspended particulate (TSP) matter	Not recorded in 2014 Draft AEMR.	NC2	It is stated in the air quality monitoring program (Rev 2) that TSP will be calculated as 2.5 x PM <sub>10</sub> concentration but TSP is not presented in the AEMR. <b>Recommendation 9: calculated TSP concentrations are presented in future AEMRs.</b>
	Particulate matter < 10 µm (PM10)	2014 Draft Annual Review Monitoring data summaries (April 2012 to December 2014)	C	2014 Draft Annual Review 2013/2014 section 5.2: provides that it is monitored at two locations and were within the 24 hour criteria limit and annual average criteria limit. It states that 12 of the 61 scheduled samples were not taken due to failure in sampler and change of service providers in December 2013. The high volume sampler on the western side of the site had technical difficulties and meant the majority of scheduled samples were not collected. Holcim acknowledges that despite their efforts to correct this issue the lack of data during this time is not acceptable. Holcim plans to replace this unit as soon as funds are available.
<b>Table 7: Short term impact assessment criteria for particulate matter</b>				
	Particulate matter < 10 µm (PM10)	-	-	-
<b>Table 8: Long term impact assessment criteria for deposited dust</b>				
	Deposited dust Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, 1991, AS 3580.10.1-1991: Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposited Matter - Gravimetric Method.	2014 Draft Annual Review Monitoring data summaries (April 2012 to December 2014)	C	
<b>Operating Conditions (Incorporates OEHL GTA)</b>				
13	During the development, the Applicant shall:	-	-	

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	(a) minimise the emission of dust from the site; and	While there are large exposed areas in construction areas, these appear to be minimised and areas that are not required for construction have generally been marked and remain uncleared	C	2005 EIS section 5.8.4 lists the operations dust control methods which will be adopted including the main control method which is buffer land to the east of the quarry. Section 7.2.5 further outlines proposed engineering and operational dust controls.
	(b) ensure that all plant and equipment complies with the standard of concentration prescribed in the Protection of the Environment Operations (Clean Air) Regulation 2002.	Sighted pre-site plant acceptance forms for plant and equipment being moved onto the site. However, there was no evidence of ongoing monitoring or reporting	C	2005 EIS section 5.8.1: Their air quality goals relate to the Approved Methods and Guidance for the Modelling of Air Pollutants in NSW (EPA, 2001).
<b>Monitoring</b>				
14	Prior to carrying out any development, the Applicant shall prepare, and subsequently implement, an Air Quality Monitoring Program for the development, in consultation with OEH, and to the satisfaction of the Director-General. This program must include an air monitoring protocol for evaluating compliance with the air quality impact assessment criteria in this consent.	Sighted letter from Director-General DP&I approving air quality monitoring program (4/4/2012)*	C	2007, Lynwood Quarry Environmental Monitoring Program Appendix 3.  2010 EA section 6.5.4 states that the Air Quality Monitoring Program was subsequently approved by the Director-General.
<b>METEOROLOGICAL MONITORING (Incorporates OEH GTA)</b>				
15	Prior to carrying out the development, the Applicant shall establish a permanent meteorological station at a location approved by OEH, and to the satisfaction of the Director-General. The meteorological station shall monitor the parameters in Table 9.	Meteorological station has been installed.	C	2005 EIS section 5.3: a meteorological monitoring station was installed in the project area in June 2004. "The station records temperature, wind speed, wind direction and sigma-theta in 10 minute periods and also records rainfall... A meteorological station will be retained on the site for the duration of the project."  2014 Draft Annual Review 2013/2014 section 6.0: states that there were no issues with this station during the reporting period.
<b>Table 9: Meteorological Station Monitoring Requirements</b>				
	Parameter / Units of Measure Wind speed @10m / m/s Wind direction @ 10m / Degrees Sigma Theta @ 10m / Degrees Temperature @ 2m / K Temperature @ 10m / K Total Solar Radiation @ 10m / W/m2 Rainfall / mm Siting Note: Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales, OEH (EPA) 2001.	Sighted weather station monitoring parameters in Environmental Monitoring Program (Rev 2)*	C	
<b>SURFACE AND GROUND WATER (Incorporates NOW and OEH GTAs)</b>				
	Note: The applicant is required to obtain licences and permits for the development under the Protection of the Environment Operations Act 1997, Water Management Act 2000 and the Water Act 1912.			No ground water is used at the site.
<b>Pollution of Waters</b>				

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16	Except as may be expressly provided by a License, the Applicant shall comply with section 120 of the Protection of the Environment Operations Act 1997 during the carrying out of the development.	Dam Overflow at Sedimentation Dams E and F (16/08/14).	NC1	<p><i>section 120 Prohibition of pollution of waters</i>  <i>(1) A person who pollutes any waters is guilty of an offence.</i>  <i>(2) In this section: pollute waters includes cause or permit any waters to be polluted.</i></p> <p>There was a dam overflow at Sedimentation Dams E and F starting on 16 August 2014 during a period of heavy rain. A Dam Overflow Report was prepared examining the dam discharge event. The report was provided to EPA and Sydney Water Catchment Authority and circulated within Holcim.</p> <p>The site's Pollution Incident Response Management Plan (PIRMP) was implemented.</p> <p>The Dam Overflow report states that the dam design average return interval (ARI) was as per the Blue Book. However, the rainfall received was greater than ARI causing an overflow. The Dam Overflow report states that event monitoring started on 19 August 2014 and that water quality criteria were exceeded. The report concluded that no material harm came from dam overflow as the events were minor in nature, contributing to little water to draining catchments. A number of mitigation measures are recommended within the report which have generally been implemented.</p> <p><b>Recommendation 10: given the additional measures to manage the dams (including freeboard) were implemented, no further actions are recommended.</b></p>
<b>Water Discharge Limits</b>				
17	Except as may be expressly provided by a License, the Applicant shall ensure that any controlled discharge from the controlled discharge points at Sediment Dams A to F comply with the limits in Table 10.	2014 Draft Annual Review Monitoring data summaries (April 2012 to December 2014)	C	2005 EIS Appendix 8, section 4.4.2.2
<b>Table 10: Surface Water Discharge Limits</b>				
	Pollutant: Unit of measure: 100 Percentile concentration limit	-	-	-
	Total Suspended Solids: mg/L: 50	2014 Draft Annual Review Monitoring data summaries (April 2012 to December 2014)	C	<p>2005 EIS: Appendix 8, section 4.4.2.2: "Flocculation will be used to ensure that sediment loads from the site are not increased from the existing situation and that overflows have suspended sediments at concentrations of less than 50 mg/L."</p> <p>Dam overflow at Sedimentation Dams E and F (starting on 16/08/14). Dam Overflow Report states event monitoring starting on 19/08/14 and showed exceedences at Dams E and F.</p>
	pH: 6.5-8.5	Dam overflow at Sedimentation Dams E and F (starting on 16/08/14).	C	Dam Overflow Report states pH was tested and were within parameters of the site's water management plan.
	Oil & Grease: mg/L: 10 or none visible.	Dam overflow at Sedimentation Dams E and F (starting on 16/08/14).	C	<p>Appendix 8, section 4.4.2.2: "Oil separators will be placed downstream from high traffic areas". "Flotation curtains will be placed at the outlets of all dams in order to protect downstream water quality in the event of oil spillage."</p> <p>Dam Overflow Report states oil and grease were tested and were within parameters of the site's water management plan.</p>
	Note: For more information on the location of Sediment Dams A to F see Appendix 4.	-	-	
<b>Sediment Dams</b>				
18	The Applicant shall ensure that:	-	-	

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	(a) Sediment Dams A, B and F are capable of treating the 90th percentile 5 day rainfall event; and	Sighted letter from GHD to Holcim on 21/5/12 which states that the dams are designed <i>Blue Book</i> standards	C	Umwelt (Australia) Pty Ltd 2011, Lynwood Quarry Rehabilitation and Landscape Management Plan (Rev 2): Sediment Dam F mentioned on page 10 of Appendix 3 but this criteria is not addressed.  2005 EIS Appendix 8, section 4.4.2.2 says that Type D/F sediment dams have been designed for a 90th percentile 5 day rainfall event (type D/f dams are the A, B, E, F dams. Dam A equates to a 98th percentile predicted weekly maximum run off.
	(b) Sediment Dams C, D and E are capable of treating the 1:20 year ARI Critical Duration Storm Event.	Sighted letter from GHD to Holcim on 21/5/12 which states that the dams are designed <i>Blue Book</i> standards	C	2005 EIS - See Appendix 8 section 4.4.2.2 of Appendix 8 days that "All catch drains...will be constructed to convey peak discharges during a 1 in 20 year ARI event at less than erosive velocities."
	Notes: • For more information on the location of Sediment Dams A to F see Appendix 4; • Dams must be designed to be in accordance with ' <i>Managing Urban Stormwater: Soils and Construction (the Blue Book)</i> ', including Volume 1 (Landcom, 2004) and Volume 2 (OEH, 2008).	-	-	-
<b>Operating Conditions</b>				
19	The Applicant shall:	-	-	-
	(a) ensure that the water collected in the Sediment Dams is pumped to the supply dams as soon as practicable;	Sighted provisions in Water Management Plan (Rev 2)*	C	2005 EIS section 5.6.2.2: "the sediment control dams will generally be kept in a drawn down state by the transfer of water to these water storage dams, ensuring they retain sufficient treatment capacity."
	(b) ensure that the accumulated sediment in all the Sediment Dams is kept below 30% of their design capacity;	Audit observations Sighted Water Management Plan (Rev 2)	C	Discussions with A. White indicate that explicate responsibility has been assigned for compliance condition
	(c) construct impervious bunds around all fuel, oil, chemical storage areas that are large enough to contain 110% of the volume held in the largest container in accordance with the requirements in the OEH Bunding and Spill Management manual; and	Site observations	C	2005 EIS section 3.5.5 states that "the workshop will have a bunded storage area for oil, waste oil, coolant and other necessary chemicals." Also, "the fuel tanks will be bunded."
	(d) not use any flocculants on site for water pollution control treatment without the written approval of OEH.	Dam Overflow Report September 2014 states Dam F flocculated	C	2005 EIS section 4.4.2.2, Appendix 8: states that Flocculants will be used but it does not say whether they have gained approval from the OEH.  Dam Overflow Report states Dam F flocculated on 14/07/14 to commission new flocculent pumping station. Dam E was flocculated on 10/09/14. It states permission from EPA to irrigate when TSS is below 50mg/L has been granted.
	<i>Note: The EIS indicated that flocculants maybe used for the treatment of collected stormwater. While the specific flocculent was not specified, some types of flocculants have the potential to cause ecotoxicological impacts on receiving waters.</i>	-	-	-
19A	The Applicant shall ensure it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations to match the licensed water entitlements, to the satisfaction of the Director-General.	NA - milestone not reached	NA	
<b>Management and Monitoring</b>				
20	Prior to carrying out any development, the Applicant shall prepare (and following approval implement) a Water Management Plan for the development, in consultation with the NOW, OEH and Sydney Catchment Authority, and to the satisfaction of the Director-General. This plan must include:	Sighted letter from Director-General DP&I approving management plans (4/4/2012).*	C	Umwelt (2011) Water Management Plan (Rev 2), Report prepared for Holcim (Australia) Pty Ltd.
	(a) a Water Balance;	Sighted Water Management Plan (Rev 2)*	C	Umwelt (2011) Water Management Plan (Rev 2), section 3
	(b) an Erosion and Sediment Control Plan;	Sighted Erosion and Sediment Control Plan revs A and B, Water Management Plan (Rev 2)*	C	Umwelt (2011) Water Management Plan (Rev 2), section 4

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	(c) a Surface Water Monitoring Program;	Sighted Surface Water Monitoring Program (Rev 2)*	C	Umwelt (2011) Water Management Plan (Rev 2) Appendix 2: Lynwood Quarry Surface Water Monitoring Program (Rev 2)
	(d) a Ground Water Monitoring Program; and	Sighted Groundwater Management Program*	C	Umwelt (2011) Water Management Plan (Rev 2) Appendix 3: Lynwood Quarry Groundwater Monitoring Program (Rev 2).
	(e) a Surface and Ground Water Response Plan to address any potential adverse impacts associated with the development.	Sighted Water Management Plan (Rev 2)*	C	Umwelt (2011) Water Management Plan (Rev 2) section 6.
21	The Water Balance shall:	-	-	
	(a) include details of all water extracted (including water make), dewatered, transferred, used and/or discharged by quarry; and	Sighted Water Management Plan (Rev 2)*	C	Table 1.1 in section 1.2 outlines how these development conditions have been addressed in the report.
	(b) describe measures to minimise water use by the development.	Sighted Water Management Plan (Rev 2)*	NC2	Umwelt (2011) Water Management Plan (Rev 2) does not describe how to reduce water use, only describing how to recycle water. <b>Recommendation 11: the next version of the Water Management Plan includes measures to minimise water use.</b>
22	The Erosion and Sediment Control Plan shall:	-	-	
	(a) be consistent with the requirements of the Landcom's <i>Managing Urban Stormwater: Soils and Construction manual</i> ;	Sighted letter from Director-General DP&I approving management plans (4/4/2012)*	C	
	(b) identify activities that could cause soil erosion and generate sediment;	Sighted Water Management Plan (Rev 2)*	NC2	The Water Management Plan (Rev 2) (Umwelt 2011) does not describe activities which could cause erosion and sedimentation. <b>Recommendation 12: the next version of the Water Management Plan identifies activities that could cause soil erosion and generate sediment.</b>
	(c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;	Sighted Water Management Plan (Rev 2)*	C	
	(d) describe the location, function, and capacity of erosion and sediment control structures; and	Sighted Water Management Plan (Rev 2)*	C	
	(e) describe what measures would be implemented to maintain (and if necessary decommission) the structures over time.	Sighted Water Management Plan (Rev 2)*	C	A brief description of maintenance is provided.
23	The Surface Water Monitoring Program shall include:	-	-	
	(a) detailed baseline data on surface water flows and quality in Joarimin Creek, Lockyersleigh Creek, and Marulan Creek;	Sighted Water Management Plan (Rev 2)*	C	
	(b) surface water impact assessment criteria;	Sighted letter from Director-General DP&I approving management plans (4/4/2012)*	C	
	(c) a program to monitor surface water flows and quality;	Sighted Water Management Plan (Rev 2)*	C	
	(d) a protocol for the investigation of identified exceedances of the surface water impact assessment criteria; and	Sighted Water Management Plan (Rev 2)*	C	
	(e) a program to monitor the effectiveness of the Erosion and Sediment Control Plan.	Sighted Water Management Plan (Rev 2)*	C	
	<i>Note: Monitoring of surface flows to be completed by visual assessment.</i>	-	-	
24	The Ground Water Monitoring Program shall include:	-	-	
	(a) detailed baseline data on ground water levels, flows, and quality, based on statistical analysis;	Sighted Groundwater Monitoring Program*	C	
	(b) groundwater impact assessment criteria for monitoring bores;	Sighted Groundwater Monitoring Program*	C	
	(c) a program to monitor regional ground water levels and quality; and	Sighted Groundwater Monitoring Program*	C	
	(d) a protocol for the investigation of identified exceedances of the groundwater impact assessment criteria.	Sighted Groundwater Monitoring Program*	C	
	<i>Note: The surface and ground water monitoring programs must be consistent with the current version of Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales (OEH).</i>	Sighted email from S. Mitchell (Holcim) (14/6/12) which confirms sampling methods	C	

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
<b>Review and Reporting</b>				
25	Each year from the date of this consent, the Applicant shall:	-	-	
	(a) review, and if necessary update, the Water Management Plan; and	Sighted letter from Director-General DP&I approving management plans (4/4/2012).*	NC2	Water Management Plan has not yet been updated to address minor recommendations in 2012 audit report (see Schedule 3, Conditions 21 and 22). <b>Recommendation 13: the Water Management Plan is updated as part of the annual review specified in Section 9.0 of the plan to address audit comments.</b>
	(b) report the results of this review in the AEMR, including: • details of the review for each sub-plan; • the results of monitoring; and • details of the measures undertaken/proposed to address any identified issues.	2014 Draft Annual Review	C	
<b>TRAFFIC AND TRANSPORT (Incorporates RTA, Council and Department of Lands GTAs)</b>				
<b>Construction Traffic</b>				
26	The Applicant shall ensure that:	-	-	
	(a) construction traffic on the temporary construction access is kept to a minimum;	Construction traffic movements are managed under Metso Traffic Management Sub-Plan according to Metso EMP (Rev 4)	C	2005 EIS section 7.2.2.1 "Construction access along Stoney Creek Road will be limited to the minimum necessary for construction of the rail overpass."  2010 EA: This condition has been slightly altered in section 7.2
	(b) no construction traffic uses the temporary construction access once the proposed bridge over the Main Southern Railway Line has been commissioned;	Bridge has been commissioned and temporary construction access road has been gated and locked*	C	2005 EIS section 3.3.1: "Construction traffic along Stoney Creek Road will be minimal and will only occur until the rail overpass is completed."
	(c) all other traffic uses the construction site access prior to the commissioning of the proposed Hume Highway Interchange; and	Access road used as other access option, Stoney Creek Rd, is now locked*	C	
	(d) where practicable, no heavy vehicle construction traffic movements occur on George Street during school zone times (ie between 8:00am to 9:30am and 2:30pm to 4:00pm on school days)	Holcim Construction Traffic Management Plan (Rev 2)*	C	2010 EA "heavy vehicles will be limited from accessing the Project Area via George Street outside of school zone times... wherever practicable, unless they are done under escort." p. 7
	(e) heavy vehicle construction traffic using George Street does not exceed 40kph; and	40 kph road signs on traffic control plans in Holcim traffic management plan. Signs observed during audit inspection*	C	Holcim CTMP Table 2.1: states "heavy vehicle construction traffic using George Street will not exceed 40 kilometres per hour" which applies to all phases of construction
	(f) no traffic uses the construction site access once the proposed Hume Highway Interchange has been commissioned.	Site observations	C	2005 EIS section 7.2.2.2: "all access to the project area during the operational phase will be via the Hume Highway interchange." The "construction access road" is no longer used.
	<i>Note: The temporary construction access routes are shown in Appendix 5. The requirements of this condition are to be reflected in the Construction Traffic Management Plan required under Condition 28 below.</i>	-	-	-
27	Prior to the commissioning of the proposed Hume Highway Interchange, the Applicant shall maintain the public roads on the construction access routes, or pay all reasonable cost associated with maintaining these roads during the period these roads are used for construction access, to the satisfaction of Council and/or the Department of Lands.	Sighted Holcim Construction Traffic Management Plan (Rev 2), emails from S. Mitchell to T. Cooper at Goulburn Council in December 2011 requesting road repairs*	C	2005 EIS Appendix 6: section 4.2.4  2011 Construction Traffic Management Plan (Rev 2) section 2.6

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28	Prior to carrying out any development, the Applicant shall prepare (and following approval implement) a Construction Traffic Management Plan for the development, in consultation with the RTA, Council and the Department of Lands, and to the satisfaction of the Director-General. This plan must: (a) include a Road Dilapidation Report of the public roads on the construction access routes; and (b) describe what measures would be implemented to: • maintain the public roads; • minimise the potential noise and safety impacts associated with the construction traffic; and • keep the community informed of any traffic disruptions that would be caused by the development.	Sighted letter from Director-General DP&I approving construction traffic management plan (4/4/2012), letter from Goulburn-Mulwaree Council (3/11/2010), letter from RTA (27/10/2010)*	C	2011 Construction Traffic Management Plan (Rev 2): a) section 2.5 and Appendix 2 b) Maintenance section 2.6 Noise and safety impacts section 3 Community Consultation section 2.4.1 and Table 2.1 on page 6
<b>Hume Highway Interchange</b>				
29	The Applicant shall:	-	-	
	(a) design and construct the proposed grade separated intersection at the existing junction of the Hume Highway (SH2) and Marulan South Road/Jerrara Road; and following the satisfactory completion of this development,	Sighted RTA Major Works Authorisation Deed Private Financing of Construction March 2008 (211396379-1)*	C	
	(b) close the existing median and proclaimed access point on the Hume Highway, to the satisfaction of the RTA.	Site observations Sighted letter from Road Traffic Authority to Holcim (10/9/12)	C	
	<i>Notes:</i> • <i>The design of these works shall be in accordance with relevant RTA standards and specifications:</i> - <i>geometric road design in accordance with RTA Road Design Guide;</i> - <i>pavement design in accordance with the AUSTRROADS Pavement Design Guide;</i> - <i>bridge design in accordance with Australian Standard AS5100; and</i> - <i>grade separated interchange in accordance with NAASRA (AUSTRROADS) Grade Separated Interchanges – A Design Guide.</i>	-	-	
	• <i>The Applicant will be required to meet all the costs associated with this development, including design, land acquisitions, gazettal of new boundaries and access point, construction and project management.</i>	No disputes or non payments	NA	
	• <i>If other quarries or developments are approved that use this intersection, the applicants for such developments may be required to contribute to the cost of constructing the intersection, pro-rata on maximum usage rates. The Applicant must keep detailed records of the intersection design and construction costs and provide this information to the Director-General if requested to assist in levying costs on any such developments.</i>	Holcim advised that they have sought contribution from Boral for use of the interchange but did not progress further.	NA	2005 EIS section 3.5.4 outlines contribution plan but not whether these details have been provided to the D-G
30	Prior to carrying out any development in the Hume Highway road reserve, the Applicant shall prepare a Traffic Management Plan for the proposed development in the road reserve to the satisfaction of the RTA.	Sighted Appendix R of BMD interchange CEMP*	C	
<b>Crown Roads/ Land</b>				
31	The Applicant shall not carry out any development on Crown roads or land without the written approval of the Department of Lands.	Sought through RTA- sighted approval #211396379-1 (S. Liganaarachchi, RTA Project Manager 10/6/2011)*	C	2005 EIS section 4.2.8: proponent will seek Department of Lands approval to close down a small number of Crown road reserves in the project area. "Readymix will also seek the approval of the Department of Lands to construct the interchange on the parcel of Crown land in the south of the project area."
<b>Road Haulage</b>				
32	The Applicant shall ensure that all loaded vehicles entering or leaving the site are covered at all times.	Sighted Holcim Traffic Management Plan Rev 2 (June 2011)	C	2005 EIS section 7.2.2.1: "All product trucks leaving the site during the construction phase will have their loads covered."
33	The Applicant shall ensure that all loaded vehicles leaving the site are cleaned of materials that may fall on the road before they are allowed to leave the site.	No mud observed on sealed roads	C	2005 EIS section 3.5.3: "Trucks will exit the site via a wheel wash to limit mud or dirt tracking as the trucks leave the site."

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
<b>ABORIGINAL HERITAGE (Incorporates OEH GTAs)</b>				
<b>Consent to Destroy</b>				
34	The Applicant may damage, deface or destroy the Aboriginal objects in Table 10 with the written approval of the OEH.	-	-	2005 EIS section 7.2.7 outlines what proponent plans to do with the different Aboriginal sites.
<b>Table 10: Aboriginal Sites</b>				
	Aboriginal Site AHISM#	-	-	
	MQ2 51-6-0060	-	-	
	MRN5 51-6-0246	-	-	
	MRN7 51-6-0248	-	-	
	MRN25 51-6-0266	-	-	
	MRN26 51-6-0267	-	-	
	MRN27 51-6-0268	-	-	
	MRN28 51-6-0269	-	-	
	MRN31 51-6-0272	-	-	
	MRN32 51-6-0273	-	-	
	MRN33 51-6-0274	-	-	
	MRN35 51-6-0276	-	-	
	MRN36 51-6-0277	-	-	
	MRN37 51-6-0278	-	-	
	MRN48 51-6-0289	-	-	
	MRN52 51-6-0293	-	-	
<b>Cultural Heritage Management Zone</b>				
35	The Applicant shall implement the proposed Cultural Heritage Management Zone to the satisfaction of the Director-General.	Sign-posted and cordoned-off cultural heritage management zones were observed during the audit inspection*	C	2005 EIS section 5.10.1.6: "A number of sites will be conserved as part of a Cultural Heritage Management Area (refer to Figure 5.26)." section 7.2.7: "the area containing sites MRN8 to 14 and MRN21 and 22 will be conserved as a Cultural Heritage Management Zone."
<b>Management and Monitoring</b>				
36	Prior to carrying out any development, the Applicant shall prepare (and following approval implement) an Aboriginal Heritage Management Plan for the development, in consultation with representatives of the relevant Aboriginal community groups, and to the satisfaction of the OEH and the Director-General. This plan must:	Sighted letter from Director-General DP&I approving management plans (4/4/2012). No correspondence from OEH*	C	Umwelt (2011) Caring for Country, Lynwood Quarry, Marulan Aboriginal Heritage Management Plan section 1.2 has Table 1.1 which outlines the sections of the report which address these development criteria.
	(a) be prepared by a suitably qualified and experience archaeologist;	Prepared by T. Adams, Umwelt	C	
	(b) include a Sub-surface Testing and Salvage Program to adequately determine the Aboriginal heritage of the locations described in Table 10;	Sighted Aboriginal Heritage Management Plan (Rev 2)*	C	Umwelt (2011), Caring for Country, Lynwood Quarry, Marulan Aboriginal Heritage Management Plan section 1.2: "Aboriginal cultural heritage subsurface testing and salvage program has been completed"
	(c) include a Conservation Management Plan that describes the measures that would be carried out to:	Sighted Aboriginal Heritage Management Plan (Rev 2)*	C	

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	• implement the proposed Cultural Heritage Management Zone (shown conceptually in Appendix 8); and	Sighted Aboriginal Heritage Management Plan (Rev 2)*	C	Umwelt (2011) Caring for Country, Lynwood Quarry, Marulan Aboriginal Heritage Management Plan section 1.1: "Those sites located within the Cultural Heritage Management Zone (CHMZ) will be set aside for conservation in perpetuity."
	• protect the Aboriginal objects on the site that would be preserved in situ;	Sighted Aboriginal Heritage Management Plan (Rev 2)*	C	
	(d) include a Monitoring Program for all ground disturbing works (see condition 37); and	Sighted Aboriginal Heritage Management Plan (Rev 2)*	C	
	(e) describe the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during the development.	Sighted Aboriginal Heritage Management Plan (Rev 2)*	C	
37	Unless the OEH approves otherwise, the Applicant shall ensure that all ground disturbing works on the site are monitored at all times by a suitably qualified and experienced archaeologist and representatives of all the relevant Aboriginal community groups. If this monitoring detects any Aboriginal objects not listed in Table 10, then the Applicant shall immediately cease work in the area and notify the OEH.	Sighted Stage 2B Report - Preliminary Results of Subsurface Testing of PAD5 and Monitoring of Works in PADs 2, 3 and 4 in Compliance with AHIP 1100264*	C	Umwelt (2011) Caring for Country, Lynwood Quarry, Marulan Aboriginal Heritage Management Plan section 1.2: "The subsurface testing of ATUs [Archaeological Terrain Units] was endorsed by the DECC and the relevant Aboriginal Parties as a suitable alternative to ongoing monitoring of ground disturbing works. Thus Condition 37 has been satisfied."
	Notes: • This monitoring only relates to topsoil stripping, not quarrying operations. • For safety reasons, topsoil stripping may be undertaken before the commencement of development.	-	-	
<b>HERITAGE (Incorporates NSW Heritage Council GTAs.)</b>				
<b>Old Marulan Township</b>				
38	The Applicant may carry out the development in the area identified in the State Heritage Register as the Old Marulan Township (SHR No. 00127) with the written approval of the NSW Heritage Council.	Original letter from NSW Heritage Council not sighted but ongoing correspondence from the council indicates that it approved development in Old Marulan Township (eg application to vary S 65A no 2007/S65/11. Confirmed by Heritage Branch 22/10/09)*	C	
39	Prior to seeking this approval, the Applicant shall undertake a detailed investigation of the archaeological potential of the proposed development area in the Old Marulan Township, including archaeological testing, to the satisfaction of the NSW Heritage Council. This archaeological investigation must clarify the nature, extent, and significance of the relics in the proposed development area.	Sighted Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak, 2006)*	C	Holcim, Our Environment - European Heritage, viewed 7 January 2015 < <a href="http://www.holcim.com.au/about-us/community-link/lynwood/our-environment.html">http://www.holcim.com.au/about-us/community-link/lynwood/our-environment.html</a> > A detailed report on the archaeological investigation into the Old Marulan Township is expected to be available in 2015. The stage 1 archaeological investigation report prepared by Rinker Australia Pty Ltd and Umwelt (Australia) Pty Ltd from 2007 is available online. <b>Recommendation 14: the detailed European Heritage investigation report is finalised as soon as possible and made available on the Holcim website.</b>
	Note: The Applicant will be required to submit an application to the NSW Heritage Council under Section 60 of the Heritage Act 1977 for this archaeological investigation.	Original letter from NSW Heritage Council not sighted but ongoing correspondence from the council indicates that it approved development in Old Marulan Township (eg application to vary S 65A no 2007/S65/11. Confirmed by Heritage Branch 22/10/09)*	C	
40	In seeking this approval, the Applicant shall submit the following information to the NSW Heritage Council:	-	-	
	(a) the final design of the proposed Hume Highway interchange, incorporating the results of the archaeological investigations (see condition 39), and including information on landscaping, lighting, and stormwater management;	Sighted 2005 non indigenous archaeology assessment, Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak, 2006)*	C	

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	(b) an Archaeological Assessment of the area to be impacted by the proposed interchange, that includes the:	-	-	EIS 2005, Non-Indigenous Archaeology Assessment (Appendix 12 of the EIS) does not discuss the interchange specifically but the project area generally. Old Marulan township is discussed briefly in section 2.3.10. section 4.5 says that the interchange location is unlikely to change as this is position has been developed alongside the RTA. Need more specific information
	• nomination of an Excavation Director and archaeology team which will be approved by the Director of the NSW Heritage Office;	Sighted S65_2009_65A_13*	C	
	• assessment of the significance of the archaeological remains to be impacted within the development area,	Sighted Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak, 2006)*	C	EIS 2005, Non-Indigenous Archaeology Assessment (Appendix 12 of the EIS) sections 3.2, 3.3 and 4.5 states that there is potential to impact upon the heritage values at the "State level to a rare degree within the SHR limits of the Old Marulan Township."
	• plans and details of the location and depth of excavation works and assessment of the exact impact on potential archaeological remains;	Sighted Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak, 2006).*	C	
	• identification of research themes and identification of both site specific and general research questions,	Sighted Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak, 2006)*	C	
	• details of the proposed on-site excavation methodology including details on philosophical approach to on-site work and the process and procedures proposed for recovery and recording of archaeological data, and details on how the archaeological research is proposed to be satisfactorily completed,	Sighted Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak, 2006)*	C	EIS 2005, Non-Indigenous Archaeology Assessment (Appendix 12 of the EIS) Table 5.2: they will seek an excavation permit for the are within the SHR limits of Old Marulan Town but will undertake a surface inspection in the meantime. "It is recommended that the disturbance footprint of the proposed interchange within the SHR limits be fenced."
	• details of the proposed post-excavation methodology; and	Sighted Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak, 2006)*	C	
	• details of the Interpretation Plan for the entire Old Marulan Township precinct.	Sighted Old Marulan County Argyle: A research design and archaeological compliance program for work by Readymix (Gojak, 2006)*	C	
<b>Operating Conditions</b>				
41	The Applicant shall ensure that:	-	-	
	(a) the development does not have any impact on: • the archaeological remains within the former Lot 1, DP210885;	Sighted application to vary S 65A no 2007/S65/11. Confirmed by Heritage Branch 7/9/09*	C	EIS 2005, Non-Indigenous Archaeology Assessment (Appendix 12 of the EIS)
	• heritage items MRNH1, MRNH2, and MRNH3;	Sighted letter from Heritage Branch_SheepDipMRNH1_ArtefactPolicy_2009090 7a_ltr LTR_CWC_Cess Pit_Old Marulan_August 2011*	C	EIS 2005, Non-Indigenous Archaeology Assessment (Appendix 12 of the EIS) Table 7.1 states that the site of MRNH1 will be repaired and then fenced and/or covered. MRNH2 will be fenced and/or covered and MRNH 3 will be fenced.
	• the section of the State Heritage Register curtilage located at the eastern side of the Hume Highway, other than the impact upon the timber lined cistern/well (MRNH8) except where undertaken in accordance with the written approval of the NSW Heritage Council;	Audit inspection	C	

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	(b) as much fabric of the timber-lined cistern/well (MRNH8) and the archaeological remains uncovered through the archaeological excavation as possible is salvaged and incorporated as a key element in the interpretation of the site as part of the new development; and	Sighted letter from Heritage Branch_Well MRNH8_InterpPlan_20090305 which details approved specification, Old Marulan Archaeological_Letter to DECC 27 Oct 2010*	C	
	(c) the movement of machines across archaeologically sensitive areas is kept to a minimum.	Areas are well flagged and movements outside of quarry are confined to formed roadways.	C	
<b>Archaeological Field Work/Excavations</b>				
42	The Applicant shall comply with the detailed requirements in Appendix 7 to the satisfaction of the NSW Heritage Office.	See Appendix 7 conditions detailed later in this table.	-	-
<b>REHABILITATION AND LANDSCAPING</b>				
43	The Applicant shall (to the satisfaction of the Director-General):			
	(a) rehabilitate the site in a manner that is generally consistent with the concept final landform in Appendix 8); and	NA - milestone not reached.	NA	
	(b) implement the proposed Habitat Management Area (shown conceptually in Appendix 9),	A habitat management area has been established to the east of the quarry*	C	EIS 2005, Ecology Assessment (Appendix 9 of the EIS) section 5.2.2 and Figure 5.1.
<b>Rehabilitation and Landscape Management Plan</b>				
44	Within 6 months of this consent, the Applicant shall prepare (and following approval implement a Rehabilitation and Landscape Management Plan for the development, in consultation with OEH, NOW and Council, and to the satisfaction of the Director-General. This plan must:	Sighted letter from Director-General DP&I approving management plans (4/4/2012)*	C	Lynwood Quarry Rehabilitation and Landscape Management Plan (Rev 2) section 1.1, Table 1.1 details the report sections that cover these criteria. Page 176 (last page of document) states that "the Director-General has approved these Management Plans in accordance with Conditions 44 and 45".
	(a) describe in general the short, medium, and long-term measures that would be implemented to:	-	-	
	• rehabilitate the site;	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	• implement the Habitat Management Area;	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	• manage the remnant vegetation and habitat on the site; and	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	• landscape the site to mitigate any visual impacts of the development;	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(b) include Riparian Area Management Plan/s (see condition 45) for those riparian areas to be disturbed in the next 5 years, excluding areas within quarry pits or emplacement areas as agreed with the Director-General;	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(c) describe in detail the measures that would be implemented over the next 5 years to rehabilitate and manage the landscape on the site;	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(d) describe how the performance of these measures would be monitored over time; and	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(a) set completion criteria for the rehabilitation of the site.	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
45	The Riparian Area Management Plan/s must be prepared by a suitably qualified hydrologist; whose appointment has been approved by the Director-General, and include:	Sighted letter from Director-General DP&I approving management plans (4/4/2012)*	C	Lynwood Quarry Rehabilitation and Landscape Management Plan (Rev 2) section 1.1, Table 1.1 details the report sections that cover these criteria. Page 176 (last page of document) states that "the Director-General has approved these Management Plans in accordance with Conditions 44 and 45".

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
	(a) baseline surveys of creeks, providing existing bed, bank and vegetation information (including representative cross and longitudinal sections), in the areas in which the development is located, excluding the quarry pits and emplacement areas;	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(b) detailed designs of the proposed works, including any proposed stabilization, scour protection, and/or enhancement works (including representative cross and longitudinal sections);	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(c) a description of the measures that would be implemented in the event of flooding during construction/rehabilitation.	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(d) details of proposed staging of the works;	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(e) completion criteria for the rehabilitation of the riparian area;	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
	(f) a protocol for monitoring the performance of the rehabilitation over time.	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	
46	Within 3 months of the Independent Environmental Audit (see Condition 7 in Schedule 5), the Applicant shall update the Rehabilitation and Landscape Management Plan to the satisfaction of the Director-General.	Sighted Rehabilitation and Landscape Management Plan (Rev 2)*	C	No recommendations in the 2012 audit report required the plan to be updated.
<b>Rehabilitation Bond</b>				
47	Within 3 months of the first Independent Environmental Audit (see Condition 7 in Schedule 5), the Applicant shall lodge a rehabilitation bond for the development with the Director-General. The sum of the bond shall be calculated at \$2.50/m <sup>2</sup> for the total area to be disturbed in each 5 year period, or as otherwise directed by the Director-General.	Sited letter to Director-General DP&I lodging rehabilitation bond to value of \$1,844,272 (11/02/13)	C	
	Notes: <ul style="list-style-type: none"> <li>• If the rehabilitation is completed to the satisfaction of the Director-General, the Director-General will release the rehabilitation bond.</li> <li>• If the rehabilitation is not completed to the satisfaction of the Director-General, the Director-General will call in all or part of the rehabilitation bond, and arrange for the satisfactory completion of the relevant works.</li> </ul>			
48	Within 3 months of each Independent Environmental Audit (see Condition 7 in Schedule 5) after the lodgement of the rehabilitation bond, the Applicant shall review, and if necessary revise the sum of the bond to the satisfaction of the Director-General. This review must consider:		NA	Bond submitted 11/2/13 (ie after lodgement of the previous Independent Environmental Audit
	(a) the effects of inflation;		NA	
	(b) any changes to the total area of disturbance; and		NA	
	(c) the performance of the rehabilitation against the completion criteria of the Rehabilitation and Landscape Management Plan.		NA	
<b>VISUAL IMPACT</b>				
<b>Visual Amenity</b>				
49	The Applicant shall minimise the visual impacts of the development to the satisfaction of the Director-General.	Sighted letter from Director-General DP&I approving management plans (4/4/2012)*	C	2005 EIS section 5.11.2: "The visibility of the quarry infrastructure will be relatively low from most viewing locations, with views only likely to be possible from one residence to the south and from trains using the Main Southern Railway."  2005 EIS 5.11.4: Readymix is willing to undertake on-site measures to minimise adverse visual impacts from the one isolated residence. Also, the emplacement areas (to be constructed during the initial years) will provide screening of the remainder of the project area.

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
<b>Lighting Emissions</b>				
50	The Applicant shall take all practicable measures to prevent and/or minimise any off-site lighting impacts from the development.	Webb Australia Holcim Lynwood Quarry External Lighting Review Report (07/05/14)  Mott MacDonald Lynwood Quarry Lighting Design Peer Review (14/05/14)  GHD Lynwood Hard Rock Quarry Detailed Design and Documentation Design Certificate for Process Area External Lighting (31/01/14)	C	2005 EIS section 5.11.4: "the additional lighting impacts resulting from the quarry are not considered to be significant." Mobile equipment headlights: "impact will be no greater than the existing impacts from the transport corridors and township and will be seen from assessment point 7. Fixed lighting: views will be limited to assessment point 7 and will be "limited to the minimum required for operational needs and safety."  2005 EIS section 7.2.9: outlines further controls that will be implemented to minimise lighting impacts.  The community engaged a consultant to assess lighting at the site (Webb Australia Group) which found that when the lighting is installed according to the design (tilt), it will comply with relevant standards (07/05/14).  Holcim also engaged a consultant to peer review (Mott MacDonald), which concluded that the lighting complies with relevant standards, and the an isolated instance near site boundary where it does not comply can be remedied.
51	All external lighting associated with the development shall comply with <i>Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting</i> .	GHD Lynwood Hard Rock Quarry Detailed Design and Documentation Design Certificate for Process Area External Lighting (31/01/14)	C	GHD certificate states that the design was with due regard to AS4282 (INT) 1995.
<b>Advertising</b>				
52	The Applicant shall not erect or display any advertising structure(s) or advertisements on the site without the written approval of the Director-General.	No advertising signage observed.	C	
<b>WASTE MANAGEMENT</b>				
53	The Applicant shall (to the satisfaction of the Director-General):	-	-	-
	(a) monitor the amount of waste generated by the development;	Waste generation data recorded in internal report - Lynwood Progress Report October - November 2014 section 4.6	C	
	(b) investigate ways to minimise waste generated by the development;	2014 Draft Annual Review 2013/2014	C	2014 Draft Annual Review 2013/2014 section 12.0: states waste is recycled and reused, with recyclables separated. It states furniture and excess or waste building materials are re-used or stored for future potential use.
	(c) implement reasonable and feasible measures to minimise waste generated by the development; and	Site recycling area observed.  Sighted Metso Waste Management Sub-Plan (May 2014)	C	
	(d) report on waste management and minimisation in the AEMR.	Sighted Lynwood Quarry Draft Annual Review 2013/2014.	C	2014 Draft Annual Review 2013/2014 section 12.0: states waste is recycled and reused, with recyclables separated. It states furniture and excess or waste building materials are re-used or stored for future potential use.
54	The Applicant shall ensure that all wastes generated or stored at the site are assessed, classified and managed in accordance with the <i>Assessment, Classification and Management of Liquid and Non-liquid Wastes</i> (OEH) guideline, or its successor. (incorporates OEH GTA).	Site observations	C	2005 EIS Section 7.2.10 outlines how wastes will be managed.
<b>EMERGENCY AND HAZARDS MANAGEMENT</b>				
<b>Dangerous Goods</b>				
55	The Applicant shall ensure that the storage, handling, and transport of dangerous goods are conducted in accordance with the relevant <i>Australian Standards</i> , particularly AS1940 and AS1596, and the <i>Dangerous Goods Code</i> .	Site observations indicated that materials are securely stored in specified locations.	C	2005 EIS Section 4.2.12 outlines compliance with the Dangerous Goods Code.
<b>Safety</b>				

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56	The Applicant shall secure the development to ensure public safety to the satisfaction of the Director-General.	The site audit inspection indicated that the construction site is generally appropriately secured. Sighted letter to Director-General DP&I regarding security measures implemented (06/12/12) as per 2011 recommendation however not sighted any response from DP&I	C	2005 EIS Section 3.8: "Prior to the commencement of operations, Readymix will install fencing around the quarry and infrastructure areas in order to ensure site security."
<b>Bushfire Management</b>				
57	The Applicant shall:	-	-	
	(a) ensure that the development is suitably equipped to respond to any fires on-site; and	Metso Environmental Management Plan (Rev 4) refers to Fire Management Plan which has not been sighted.  There are water carts on sites and fire extinguishers in vehicles and buildings.	C	2005 EIS Section 5.12.2.3 outlines the on-site fire fighting equipment and fire control measures
	(b) assist the rural fire service and emergency services as much as possible if there is a fire on-site.	A fire was lit onsite by an arsonist - RFS was informed and fire was quickly brought under control*	C	2005 EIS Section 5.12.2.4: "Fire awareness training will also be covered during the Lynwood Quarry induction, which all readymix employees and contractors will be required to have completed prior to commencing work at the site."
<b>PRODUCTION DATA</b>				
58	The Applicant shall:	-	-	
	(a) provide annual production data to the DRE using the standard form for that purpose; and	NA - milestone not reached.	NA	
	(b) include a copy of this data in the AEMR.	NA - milestone not reached.	NA	
<b>QUARRY EXIT STRATEGY</b>				
59	At least 5 years prior to the cessation of quarry operations, the Applicant shall prepare a Quarry Exit Strategy for the development, in consultation with the NOW and Council, and to the satisfaction of the Director-General. This plan must:	NA - milestone not reached.	NA	2005 EIS Section 3.11.2 briefly discusses the conceptual decommissioning plan.
	(a) define the objectives and criteria for quarry closure;	NA - milestone not reached.	NA	2005 EIS Section 3.11.2: Readymix is seeking to extend the planned quarry approval period, but if this does not occur, then the quarry will be decommissioned and closed at the end of year 30
	(b) investigate options for the future use of the site, including any final void/s;	NA - milestone not reached.	NA	2005 EIS Section 3.11.2.3: native habitat and some parts for managed grazing and the potential for the void to be a water storage void, recreational rock climbing or army training area. These uses could change if permission is granted to extend quarry life beyond 30 years.
	(c) describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the development; and	NA - milestone not reached.	NA	
	(d) describe how the performance of these measures would be monitored over time.	NA - milestone not reached.	NA	
<b>SCHEDULE 4 ADDITIONAL PROCEDURES</b>				
<b>NOTIFICATION OF LANDOWNERS</b>				
1	If the results of monitoring required in Schedule 3 identify that impacts generated by the development are greater than the relevant impact assessment criteria in Schedule 3, then the Applicant shall notify the Director-General and the affected landowners and/or existing or future tenants (including tenants of quarry owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the development is complying with the criteria in Schedule 3.	Circumstance has not arisen.	NA	
<b>INDEPENDENT REVIEW</b>				

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2	If a landowner (excluding quarry owned properties) considers that the operations of the quarry are exceeding the impact assessment criteria in Schedule 3, then he/she may ask the Applicant in writing for an independent review of the impacts of the development on his/her land.	Circumstance has not arisen.	NA	
	If the Director-General is satisfied that an independent review is warranted, the Applicant shall within 3 months of the Director-General advising that an independent review is warranted:	Circumstance has not arisen.	NA	
	(a) consult with the landowner to determine his/her concerns;	Circumstance has not arisen.	NA	
	(b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to conduct monitoring on the land, to determine whether the development is complying with the relevant criteria in Schedule 3, and identify the source(s) and scale of any impact on the land, and the development's contribution to this impact; and	Circumstance has not arisen.	NA	
	(c) give the Director-General and landowner a copy of the independent review.	Circumstance has not arisen.	NA	
3	If the independent review determines that the quarrying operations are complying with the relevant criteria in Schedule 3, then the Applicant may discontinue the independent review with the approval of the Director-General.	Circumstance has not arisen.	NA	
4	If the independent review determines that the quarrying operations are not complying with the relevant criteria in Schedule 3, and that the quarry is primarily responsible for this non-compliance, then the Applicant shall:	Circumstance has not arisen.	NA	
	(a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the development complies with the relevant criteria; and	Circumstance has not arisen.	NA	
	(b) conduct further monitoring to determine whether these measures ensure compliance; or	Circumstance has not arisen.	NA	
	(c) secure a written agreement with the landowner to allow exceedances of the relevant criteria in Schedule 3,	Circumstance has not arisen.	NA	
	to the satisfaction of the Director-General.	Circumstance has not arisen.	NA	
	If the additional monitoring referred to above subsequently determines that the quarrying operations are complying with the relevant criteria in Schedule 3, then the Applicant may discontinue the independent review with the approval of the Director-General.	Circumstance has not arisen.	NA	
	If the Applicant is unable to finalise an agreement with the landowner, then the Applicant or landowner may refer the matter to the Director-General for resolution.	Circumstance has not arisen.	NA	
	If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 10).	Circumstance has not arisen.	NA	
5	If the landowner disputes the results of the independent review, either the Applicant or the landowner may refer the matter to the Director-General for resolution.	Circumstance has not arisen.	NA	
	If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 10).	Circumstance has not arisen.	NA	
<b>SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING</b>				
<b>ENVIRONMENTAL MANAGEMENT STRATEGY (Incorporates OEH GTA)</b>				
1	Prior to carrying out any development, the Applicant shall prepare (and following approval implement), an Environmental Management Strategy for the development to the satisfaction of the Director-General. This strategy must:	Sighted letter from DP&I (19/4/2007)*	C	Umwelt (2011) Environmental Management Strategy (Rev 2) Table 1.1 on page 3 outlines how the document fulfils these development criteria.
	(a) provide the strategic context for environmental management of the development;	Sighted letter from DP&I (19/4/2007)*	C	
	(b) identify the statutory requirements that apply to the development;	Sighted letter from DP&I (19/4/2007)*	C	
	(c) describe in general how the environmental performance of the development would be monitored and managed during the development;	Sighted letter from DP&I (19/4/2007)*	C	

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	(d) describe the procedures that would be implemented to:	Sighted letter from DP&I (19/4/2007)*	C	
	• keep the local community and relevant agencies informed about the operation and environmental performance of the development;	Sighted letter from DP&I (19/4/2007)*	C	
	• receive, handle, respond to, and record complaints;	Sighted letter from DP&I (19/4/2007)*	C	
	• resolve any disputes that may arise during the course of the development;	Sighted letter from DP&I (19/4/2007)*	C	
	• respond to any non-compliance;	Sighted letter from DP&I (19/4/2007)*	C	
	• manage cumulative impacts; and	Sighted letter from DP&I (19/4/2007)*	C	
	• respond to emergencies; and	Sighted letter from DP&I (19/4/2007)*	C	
	(e) describe the role, responsibility, authority, and accountability of the key personnel involved in environmental management of the development.	Sighted letter from DP&I (19/4/2007)*	C	
2	Within 3 months of the completion of each Independent Environmental Audit (see Condition 7 below), the Applicant shall review, and if necessary update, the Environmental Management Strategy to the satisfaction of the Director-General.	Sighted letter from DP&I (19/4/2007)*	C	
<b>ENVIRONMENTAL MONITORING PROGRAM</b>				
3	Prior to carrying out any development, the Applicant shall prepare an Environmental Monitoring Program for the development, in consultation with the relevant agencies, and to the satisfaction of the Director-General. This program must consolidate the various monitoring requirements in schedule 3 of this consent into a single document.	Sighted letter from DP&I (Howard Reed) (3/8/2007)*	C	Umwelt (2010) Environmental Monitoring Program, Revision 2.
4	Within 3 months of the completion of each Independent Environmental Audit (see Condition 7 below), the Applicant shall review, and if necessary update, the program to the satisfaction of the Director-General.		NA	The 2012 audit did not recommend any changes to the environmental monitoring program.
<b>INCIDENT REPORTING</b>				
5	Within 7 days of detecting an exceedance of the limits/performance criteria in this consent or an incident causing (or threatening to cause) material harm to the environment; the Applicant shall report the exceedance/incident to the Department (and any relevant agency). The report must:	The dam overflow events from 16/08/14 onwards were provided in a report to the EPA.	C	See Schedule 3, Condition 16
	(a) describe the date, time, and nature of the exceedance/incident;	The dam overflow events from 16/08/14 onwards were provided in a report to the EPA.	C	See Schedule 3, Condition 16
	(b) identify the cause (or likely cause ) of the exceedance/incident;	The dam overflow events from 16/08/14 onwards were provided in a report to the EPA.	C	See Schedule 3, Condition 16
	(c) describe what action has been taken to date; and	The dam overflow events from 16/08/14 onwards were provided in a report to the EPA.	C	See Schedule 3, Condition 16
	(d) describe the proposed measures to address the exceedance/incident.	The dam overflow events from 16/08/14 onwards were provided in a report to the EPA.	C	See Schedule 3, Condition 16
<b>ANNUAL REVIEW</b>				
6	By the end of September 2011, and annually thereafter, the applicant shall review the environmental performance project to the satisfaction of the Director-General. This review must:	2014 Draft Annual Review 2013/2014 Sighted email from Holcim to DP&I (27/10/14)	C	Draft Annual Review 2013/2014 sections 3 to 17 outlines how the document fulfils these development criteria. Note that the 27/10/14 submission was of a revised AEMR following earlier submission.
	(a) describe the development (including any rehabilitation) that was carried out in the past financial year, and the development that is proposed to be carried out over the next financial year;	2014 Draft Annual Review 2013/2014	C	
	(b) include a comprehensive review of the monitoring results and complaints records of the project over the past financial year, which includes a comparison of the results against the: • relevant statutory requirements, limits or performance measures/criteria; • monitoring results of previous financial years; and • relevant predictions in the EIS;	2014 Draft Annual Review 2013/2014	NC2	Draft Annual Review 2013/2014 does not list results of previous financial years to compare against. <b>Recommendation 15: Annual Review reports present the results of previous years' monitoring (eg as graphs showing all monitoring to date - or at least five years of data).</b> <b>Recommendation 16: Annual Review reports present the EIS predictions (eg PM<sub>10</sub> levels predicted at monitoring sites).</b>

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	(c) identify any non-compliance over the past financial year, and describe what actions were (or are being) taken to ensure compliance;	2014 Draft Annual Review 2013/2014	C	
	(d) identify any trends in the monitoring data over the life of the project;	2014 Draft Annual Review 2013/2014	NC2	<b>Recommendation 17: Annual Review reports describe long-term trends (see recommendations 15 and 16).</b>
	(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and	2014 Draft Annual Review 2013/2014	NC2	Considered bird droppings as potential cause of 3 dust deposition exceedences. Lists some monitoring (surface water and PM <sub>10</sub> monitoring) not undertaken due to change of contractors in December 2013. However, comparison to EIS predictions not provided. <b>See recommendations 15 and 16.</b>
	(f) describe what measures will be implemented over the next financial year to improve the environmental performance of the project.	2014 Draft Annual Review 2013/2014	C	
<b>INDEPENDENT ENVIRONMENTAL AUDIT</b>				
7	By the end of December 2011, the end of December 2014, and every 5 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:		C	Audit commissioned in September 2014.
	(a) be conducted by a suitably qualified, experienced, and independent person whose appointment has been endorsed by the Director-General;		C	Dr Philip Towler, the lead auditor, was approved by DP&E to undertake the audit.
	(b) be consistent with <i>ISO 19011:2002 - Guidelines for Quality and/ or Environmental Systems Auditing</i> , or updated versions of this guideline;	Audit report.	C	Audit is consistent with ISO 19011:2003 - Guidelines for Quality and/ or Environmental Systems Auditing.
	(c) assess the environmental performance of the development, and its effects on the surrounding environment;	Audit report.	C	
	(d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements;	Audit report.	C	
	(e) review the adequacy of any strategy/plan/program required under this consent; and, if necessary,	Audit report.	C	
	(f) recommend measures or actions to improve the environmental performance of the development, and/or any strategy/plan/program required under this consent.	Audit report.	C	
8	Within 6 weeks of completing each Independent Environmental Audit, the Applicant shall submit a copy of the audit report to the Director-General, together with its response to any recommendations in the audit report.		C	
8A	Within 3 months of submitting a copy of the audit report to the Director-General, the Applicant shall review and if necessary revise any strategies/plan/programs required under this consent, to the satisfaction of the Director-General.		NC2	Management plans have not been updated to address all 2012 audit recommendations. <b>Recommendation 18: the Water Management Plan (Rev 2) is updated to include measures to minimise water use and identifies activities that could cause soil erosion and generate sediment.</b>
<b>COMMUNITY CONSULTATIVE COMMITTEE</b>				
9	Prior to carrying out any development, the Applicant shall establish a Community Consultative Committee. The CCC shall:	CCC has been established, minutes viewed eg 27/6/11*	C	2010 EA The CCC is mentioned briefly in section 4.1.2 but it only says that it will be established but gives no more details. No mention found yet in the EIS.

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	(a) be comprised of: • 2 representatives from the Applicant, including the person responsible for environmental management at the quarry; • 1 representative from Council (if available); and • at least 3 representatives from the local community, whose appointment has been approved by the Director-General;	Sighted approval letter from DP&I (David Kitto) (11/11/2010)*	C	
	(b) be chaired by an independent chairperson, whose appointment has been approved by the Director-General;	Sighted approval letter from DP&I (David Kitto) (11/11/2010)*	C	
	(c) meet at least twice a year;	Sighted CCC minutes from 27/6/11 and 01/09/14	C	
	(d) review the Applicant's performance with respect to environmental management and community relations;	Sighted CCC minutes from 27/6/11 and 01/09/14	C	
	(e) undertake regular inspections of the quarry operations;	Sighted CCC minutes from 12/10/12*	C	
	(f) review community concerns or complaints about the quarry operations, and the Applicant's complaints handling procedures; and	Sighted CCC minutes from 27/6/11 and 01/09/14	C	
	(g) provide advice to: • the Applicant on improved environmental management and community relations, including the provision of information to the community and the identification of community initiatives to which the Applicant could contribute; • the Department regarding the conditions of this consent; and • the general community on the performance of the quarry with respect to environmental management and community relations.	Sighted CCC minutes from 27/6/11 and 01/09/14.	C	
	<i>Notes</i> • The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent. • The membership of the CCC shall be reviewed on a regular basis (every 3 years). • If possible, an alternate member should be appointed for each of the representatives from the local community.			
10	The Applicant shall, at its own expense:			
	(a) ensure that 2 of its representatives attend CCC meetings;	Sighted CCC minutes from 27/6/11 and 01/09/14.	C	
	(b) provide the CCC with regular information on the environmental performance and management of the development;	Sighted CCC minutes from 27/6/11 and 01/09/14.	C	
	(c) provide meeting facilities for the CCC;	Sighted CCC minutes from 27/6/11 and 01/09/14.	C	
	(d) arrange site inspections for the CCC, if necessary;	Sighted CCC minutes from 12/10/12.	C	
	(e) take minutes of the CCC meetings;	Sighted CCC minutes from 27/6/11 and 01/09/14.	C	
	(f) make these minutes available to the public;	Viewed website ( <a href="http://www.holcim.com.au/about-us/community-link/lynwood/our-community.html">http://www.holcim.com.au/about-us/community-link/lynwood/our-community.html</a> ) on 07/01/15.	C	
	(g) respond to any advice or recommendations the CCC may have in relation to the environmental management or community relations; and	Sighted CCC minutes from 27/6/11 and 01/09/14.	C	Notes from previous CCC meeting are discussed at each meeting.

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
	(h) forward a copy of the minutes of each CCC meeting, including a response to any recommendations from the CCC, to the Director-General within a month of the CCC meeting.	Sighted letter to Director-General DP&I forwarding copy of CCC meeting minutes (25/09/12 & 29/11/12). No evidence sighted of CCC minutes sent in 2013 and 2014.	C	Elton Consulting arrange these meetings. It is understood that they forward the minutes to DP&E.
<b>ACCESS TO INFORMATION</b>				
11	Within 1 month of the approval of any plan/strategy/program required under this consent (or any subsequent revision of these plans/strategies/programs), the completion of the independent audits required under this consent, or the completion of the AEMR, the Applicant shall (to the satisfaction of the Director-General):	-	-	
	(a) provide a copy of the relevant document/s to the Council, relevant agencies and the CCC;	No evidence was sighted to confirm that this has occurred.	NC2	No evidence was sighted to confirm that this has occurred. However, the CCC meeting notes for June and October 2011 are available on the website. <b>Recommendation 19: confirm that all plan/strategy/programs required under this consent have been provided to the Council and relevant agencies.</b>
	(b) ensure that a copy of the relevant document/s is made publicly available at the quarry; and;	Sighted <a href="http://www.holcim.com.au/lynwood.html">http://www.holcim.com.au/lynwood.html</a> (07/01/15).	O	Public access to the quarry is limited but quarry contact details are on the website to request this information. Documents are available on the website but the most recent documents have not been added to the website. <b>Recommendation 20: that Holcim request that this condition be removed based on the availability of these documents on the website (Schedule 5, Condition 11(c)).</b>
	(c) put a copy of the relevant document/s on the Applicant's website;	Sighted <a href="http://www.holcim.com.au/lynwood.html">http://www.holcim.com.au/lynwood.html</a> (07/01/15).	NC2	Several links to approval documents were broken. For example, the Modification 2 Response to Submissions report could not be downloaded from the website. <b>Recommendation 21: that all links on the Lynwood Quarry website are fixed so that all required documents can be accessed from the website.</b>
12	During the life of the development, the Applicant shall (to the satisfaction of the Director-General):	-	-	
	(a) make a summary of monitoring results required under this consent publicly available at the quarry and on its website; and	Sighted <a href="http://www.holcim.com.au/lynwood.html">http://www.holcim.com.au/lynwood.html</a> (07/01/15).  2013 Annual Review available <a href="http://www.holcim.com.au/fileadmin/templates/AU/doc/Community_Link/Lynwood_Quarry/LynwoodQuarryAnnualEnvironmentalReview2013.pdf">http://www.holcim.com.au/fileadmin/templates/AU/doc/Community_Link/Lynwood_Quarry/LynwoodQuarryAnnualEnvironmentalReview2013.pdf</a> (07/01/15).  Sighted <a href="http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html">http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html</a> (07/01/15).	C	Monitoring results are placed on Holcim's website each fortnight. Some can be downloaded as Excel files and viewed. However, others could not be opened by the author (using Safari or Explorer web browsing programs). <b>Recommendation 22: the monitoring results are all provided on the website so that they can be simply downloaded as Excel files on commonly used web browsers.</b>
	(b) update these results on a regular basis (at least every 3 months),	Sighted <a href="http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html">http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html</a> (07/01/15).	C	Updated fortnightly.
<b>APPENDIX 7: DETAILED HERITAGE CONDITIONS</b>				
	These conditions apply to the portion of the State Heritage Register Area within the site that is impacted by the development.			

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
1	The NSW Heritage Office must be informed in writing of the start of the archaeological investigation at least five (5) days prior to the commencement of, and within five (5) days of the completion of on-site archaeological work.	Sighted LTR_Old Marulan_Sign off_Dec 2010*	C	
2	The Heritage Council and staff of the NSW Heritage Office authorised under section 148(1) of the 'Heritage Act, 1977' reserve the right to inspect the site and records at all times, as well as access any relics recovered from the site.	Inspection was conducted on 22/12/07*	C	
3	The Applicant must ensure that all personnel involved in excavation works attend a comprehensive briefing on the requirements of the 'Heritage Act, 1977' in relation to archaeological relics and the proposed archaeological programme. The briefing is to be presented by the Excavation Director nominated in the section 60 application and is to be undertaken prior to the commencement of on-site works. A copy of this approval and conditions of consent should be made available to all archaeological on-site staff.	Interview with the Excavation Director, T. Adams (Umwelt) (6/6/12)*	C	
4	The Applicant must ensure that if substantial intact archaeological deposits and/or State significant relics not identified in <i>Environmental Impact Statement, Readymix Holding Pty Ltd Proposed Lynwood Quarry, Marulan</i> , prepared by Umwelt Environmental Consultants, are discovered, work must cease in the affected area(s) and the Heritage Council of NSW must be notified. Additional assessment and approval may be required prior to works continuing in the affected area(s) based on the nature of the discovery.	Circumstance has not arisen.	C	
5	The Heritage Council of NSW must approve any substantial deviations from the approved research design outlined in <i>Environmental Impact Statement, Readymix Holding Pty Ltd Proposed Lynwood Quarry, Marulan</i> , prepared by Umwelt Environmental Consultants, including extent and techniques of excavations, as an application for the variation of an approval under section 65A or a new application under section 60 of the 'Heritage Act, 1977'.	Sighted Old Marulan Archaeological Letter to DECC, S65_2009_65A_11 (27/10/10)*	C	The S65A variation 2007/S65/11 which refers to the approval of the changed research design has not been sighted but subsequent DECC letters note this variation as occurring.
6	The Applicant must ensure that the nominated Excavation Director is present at the site supervising all archaeological fieldwork activity likely to expose significant relics 100% of the duration of the archaeological activity. Should this not be possible, then the Applicant must forward for the approval of the Heritage Council or Director of the NSW Heritage Office the details of a Site Director in charge for this period.	Sighted S65_2009_65A_13, s65 assist director and notification*	C	
7	At all times during periods of archaeological excavation the Applicant must comply with any directions of the nominated Excavation Director in relation to works likely to impact on this resource. Where major issues arise the Excavation Director must consult with the Director of the heritage Office prior to issuing directions.	It was not possible to determine whether this occurred during archaeological excavations. However, there is no evidence to suggest they did not*	C	
8	Given the exceptional significance of the archaeological remains of the Old Marulan Township, the Applicant must ensure that the nominated Excavation Director, and archaeological excavation team, are given priority when allocating resources to allow thorough archaeological excavation and full and detailed recording to be undertaken to the satisfaction of the Heritage Council. Where necessary, work schedules shall be adjusted to accommodate the approved archaeological works.	Heritage Branch sign off (16/12/2010)*	C	
9	Throughout the archaeological excavation works and post-excavation analysis, the Applicant must ensure that:	-	-	
	(a) Appropriate signage to explain the history of the site and the archaeological excavation works is placed at the site during the work,	Site observations*	O	The work has largely been completed. However, it would have been inappropriate to place public signage at the site which was on private land and part of a construction site due to safety concerns. <b>Recommendation 23: that the website addressing the archaeological works (see Schedule 5, Condition 9(d)) is considered to address this requirement.</b>

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
	(b) A local public information program is implemented including press releases to ensure the public is informed about the project and its outcomes,	Sighted <a href="http://www.holcim.com.au/about-us/community-link/lynwood/our-environment.html">http://www.holcim.com.au/about-us/community-link/lynwood/our-environment.html</a> (07/01/15)*	C	
	(c) Community participation in the archaeological works on the site is allowed for through the inclusion of volunteers on the archaeological team under the supervision of the Excavation Director,	Interview with T. Adams (6/6/12)*	C	Offered but limited interest. Marulan historical society volunteers visited site each day.
	(d) A website addressing the archaeological works on the site must be created. This website must feature a history of the site, archaeological methodology, updated information on the archaeological works, photographs of the site and significant archaeological remains uncovered, links to the archaeological reports and links to other relevant sites. Public feedback must also be allowed for in this section of the website. Updated information on the Open Day to be held during archaeological works at Old Marulan Township and an on-line booking service must also be included,	Sighted <a href="http://www.holcim.com.au/en/about-us/community-link/lynwood-quarry/archaeological-investigation-into-old-marulan-township.html">http://www.holcim.com.au/en/about-us/community-link/lynwood-quarry/archaeological-investigation-into-old-marulan-township.html</a> (17/7/12)*	C	
	(e) The progress on the archaeological works on site is systematically video recorded,	Sighted Old Marulan Archaeological_Letter to DECC (27/10/10)*	C	Details will be provided in the final excavation report which is planned to be submitted in 2015
	(f) The services of a conservator must be utilised for conservation of significant artefacts,	Sighted Old Marulan Archaeological_Letter to DECC (27/10/10)*	C	Sydney Artefact Conservation held on retainer but not needed.
	(g) The Heritage Office is notified weekly, in writing, of the progress of work during excavation and monthly during post excavation analysis,	Sighted combined weekly reports 1-4*	C	No return correspondence from Heritage Branch.
	(h) All affected areas of the site are signed off by the Heritage Office prior to commencement of bulk excavation in those identified locations, and	Heritage Branch sign off on 16/12/2010*	C	
	(i) At the completion of the archaeological works on site the results of the archaeological programme are interpreted as part of an interpretation programme for the Old Marulan Township precinct.	Sighted Old Marulan Archaeological_Letter to DECC (27/10/10)*	C	
10	It is essential that the Applicant and nominated Excavation Director allow for and present opportunities for interpretation, public education and public access to the results of the archaeological investigation during and upon completion of the works programme. A number of Public Open Days (to be determined based on public demand) must be conducted at the site. These Public Open Days must be scheduled to take place during a weekend to facilitate public attendance and must be advertised at least one week ahead to facilitate greater public awareness of the opportunity. Visits need to be prebooked to better organise the groups and on site activities. The Applicant must ensure that local historical societies and other relevant cultural organisations are formally notified and invited to the Public Open Days.	Sighted letter from Heritage Branch_Well MRNH8_InterpPlan_20090305 - stating Heritage Branch satisfied with public interpretation Information on exhibitions of artists in residence*	C	
11	An interpretation programme for the entire Old Marulan Township heritage precinct incorporating the results of the archaeological excavation must be implemented. This interpretation should help the public understand the history and significance of the site. Final design details of the interpretation plan, including information on the display and housing of artefacts and other relevant materials, and interpretation of the structural remains, is to be submitted to the Director of the Heritage Office for written approval before implementation of the interpretation.	Sighted letter from Heritage Branch_Well MRNH8_InterpPlan_20090305 - stating Heritage Branch satisfied with public interpretation*	C	

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
12	The Applicant must ensure that an archaeological publication for the general public of Old Marulan Township incorporating the results of the archaeological programme at the site is prepared. Final design details of this publication are to be submitted to the Director of the NSW Heritage Office for approval within six months of the completion of the excavation programme. The publication is to be completed within one (1) year of the conclusion of the project unless an extension of time is approved by the Heritage Council of NSW.		NC2	It understood that the Heritage Office has granted an extension allowing the report to be submitted in 2015. However, written correspondence was not available. <b>Recommendation 24: Holcim confirm that the Heritage Council of NSW has granted an extension of time for the submission of the heritage report detailing the results of the archaeological program and that this report is completed as soon as possible.</b>
13	The Applicant must ensure that the nominated Excavation Director takes adequate steps to record in detail relics, structures and features discovered on the site during the archaeological works in accordance with current best practice. This work must be undertaken in accordance with the NSW Heritage Office guidelines, 'How to Prepare Archival Records of Heritage Items' (1998) and 'Guidelines for Photographic Recording of Heritage Items' (2004). One (1) copy of the photographic and archival recording shall be submitted to the Heritage Council of NSW. A further copy shall be lodged with the local library and/or another appropriate local repository in the area in which the site is located.		NA	The excavation report is yet to finalised or made available.
14	The Applicant is responsible for the safe-keeping of all relics recovered from the site.	Heritage Branch letter detailing Artefact management policy is appropriate (7/9/09)*	C	At present artefacts are conserved at a secure facility in Pertersham.
15	The Applicant must ensure that the site under archaeological investigation is made secure and that the unexcavated artefacts, structures and features are not subject to deterioration, damage or destruction during and after fieldwork.	Site observations*	C	
16	The Applicant must ensure that the nominated Excavation Director cleans, stabilises, labels, analyses, catalogues and stores any artefacts recovered from the site in a way that allows them to be retrieved according to both type and provenance.	Old Marulan Archaeological_Letter to DECC (27/10/10).	O	Artefact catalogue will be provided in the final excavation report which is planned to be submitted by December 2012.
17	The Applicant must ensure that a summary of the results of the field work, up to 500 words in length, is submitted to the Heritage Council of NSW for approval within one (1) month of completion of archaeological field work. This information is required in accordance with section 146(b) of the 'Heritage Act, 1977'.	End of fieldwork 500 word report - final (2) (D. Gojak, Banksia Heritage + Archaeology, 15/3/08)*	C	
18	The Applicant must ensure that a final excavation report is prepared by the nominated Excavation Director, to publication standard, within one (1) year of the completion of the field based archaeological activity unless an extension of time or other variation is approved by the Heritage Council of NSW.	Interview with T. Adams (6/6/12)*	NC2	See Appendix 7, Condition 12
19	The Applicant must ensure that one (1) electronic copy of the final excavation report is submitted on CD to the Heritage Council of NSW together with two (2) printed copies of the final excavation report. These reports are required in accordance with section 146(b) of the 'Heritage Act, 1977'. The Applicant must also ensure that further copies are lodged with the local library and/or another appropriate local repository in the area in which the site is located.		NA	Final excavation report has not been submitted
20	The Applicant must ensure that the information presented in a final excavation report includes the following:		-	
a	(a) An executive summary,		NA	
b	(b) Due credit to the client paying for the excavation on the title page,		NA	
c	(c) An accurate site location and site plan,		NA	
d	(d) Historical research, references, and bibliography,		NA	
e	(e) Detailed information on the excavation including the aim, the context for the excavation, procedures, treatment of artefacts (cleaning, conserving, sorting, cataloguing, labelling, scale photographs and/or drawings, location of repository) and analysis of the information retrieved,		NA	
f	(f) Detailed response to research questions,		NA	

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g	(g) Nominated repository for the items,		NA	
h	(h) Conclusions from the archaeological programme. This information must include a reassessment of the site's heritage significance, statement(s) on how archaeological investigations at this site have contributed to the community's understanding of the site and recommendations for the future management of the site, and		NA	
i	(i) Details of how this information about this excavation has been publicly disseminated.		NA	
<b>Environmental Protection Licence 12939 - Variation 23 September 2013</b>				
1	<b>Administrative conditions</b>			
A1	<b>What the licence authorises and regulates</b>			
A1.1	This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2. Construct infrastructure (roads, bridges, dams, processing plant) associated with the Lynwood Quarry approval.	-	-	
A1.2	This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.	-	-	
	Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.	-	-	
	Scheduled Activity / Fee Based Activity - Crushing, Grinding or Separating Scale - >2000000 T Processed Scheduled Activity / Fee Based Activity - Land-based extractive activity Scale - >2000000 T Processed	-	-	
A1.3	The licensee must not carry on any scheduled activities until the scheduled development works are completed, except as elsewhere provided in this licence.	Site observations.	C	
A2	<b>Premises to which the licence applies</b>			
A2.1	The Licence applies to the following premises: Premises Details Lynwood Quarry 278 Stoney Creek Road MARULAN NSW 2579 LOT 112 & 230 DP 750029, LOT 1 DP 1074819, LOT 1 DP 1117910, LOT 4 DP 1036993, LOT 2 DP 1116876	-	-	
A3	<b>Information supplied to the EPA</b>			
A3.1	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.	Audit observations.	C	See Schedule 2, condition 2.
	In this condition the reference to "the Licence application" includes a reference to:	-	-	
	(a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and	-	-	

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	(b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.	-	-	
2	<b>Discharges to air and water applications to land</b>			
P1	<b>Location of monitoring/discharge points and areas</b>			
P1.1	The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point	-	-	
3	<b>Limit conditions</b>			
L1	<b>Pollution of waters</b>			
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	Dam overflow events recorded in 2014 but no evidence that it discharged into water bodies.	C	See comments regarding DA 128-5-2005, Schedule 5, Condition 5.
L2	<b>Waste</b>			
L2.1	The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.	There was no evidence of waste being received at the site.	C	
L2.2	This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence.	-	-	
L3	<b>Noise limits</b>			
L3.1	Noise generated at the premises must not exceed the noise limits presented in the table below:	Noise monitoring results not provided. Monitoring results for air, water and blasting provided <a href="http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html">http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html</a> (viewed 07/01/15)  INX register did not record any noise complaints (other than one for shooting which did not relate to the noise of the shooting)	C	
	Note: The above locations refer to the respective noise assessment locations as indicated on Figure 1 in the document titled 'Lynwood Quarry Noise Monitoring Program' May 2007, received by DECC 8 July 2008.			
L3.2	Noise from the development is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 meters of a dwelling where the dwelling is more than 30 metres from the boundary, to determine compliance with the LAeq (15 minute) noise limits in condition L3.1. Noise from the development is to be measured at 1m from the dwelling façade to determine compliance with the LA1 (1 minute) in the above table.  The noise emission limits identified in condition L3.1 apply under meteorological conditions of: • Wind speed up to 3m/s at 10m above ground level; or • Temperature inversion conditions of up to 3° C/100m and wind speed up to 2 m/s at 10m above ground level.	Noise Monitoring Program (Rev 2).  2014 Draft Annual Review 2013/2014 section 3.0: states four quarterly noise monitoring events took place within reporting period.	C	The Noise Monitoring Program (Rev 2) requires that noise monitoring is undertaken at residences closest to the quarry at the locations described in this licence condition.
L4	<b>Blasting</b>			

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L4.1	The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	INX register did not record any blasting-related complaints 2014 Draft Annual Review 2013/2014 Monitoring data summaries (April 2012 to December 2014)	C	2014 Draft Annual Review 2013/2014 section 4.0: states that 11 blasts were conducted during daytime hours and no fly rock left the site. There are no registered interested residents required to be notified prior to blasting.
L4.2	The overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	INX register did not record any blasting-related complaints 2014 Draft Annual Review 2013/2014 Monitoring data summaries (April 2012 to December 2014)	C	2014 Draft Annual Review 2013/2014 section 4.0: states that 11 blasts were conducted during daytime hours and no fly rock left the site. There are no registered interested residents required to be notified prior to blasting.
L4.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	INX register did not record any blasting-related complaints 2014 Draft Annual Review 2013/2014 Monitoring data summaries (April 2012 to December 2014)	C	2014 Draft Annual Review 2013/2014 section 4.0: states that 11 blasts were conducted during daytime hours and did not exceed 5mm/s vibration levels. There are no registered interested residents required to be notified prior to blasting.
L4.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	INX register did not record any blasting-related complaints 2014 Draft Annual Review 2013/2014 Monitoring data summaries (April 2012 to December 2014)	C	2014 Draft Annual Review 2013/2014 section 4.0: states that 11 blasts were conducted during daytime hours and did not exceed 5mm/s vibration levels. There are no registered interested residents required to be notified prior to blasting.
L4.5	To determine compliance with condition(s) L4.1 and L4.2:	-	-	
	a) Airblast overpressure and ground vibration levels must be measured and electronically recorded at the blast monitoring location marked "B3" on Figure 1 in the document titled 'Lynwood Quarry Blast Monitoring Program' dated May 2007, received by DECC 8 July 2008.	INX register did not record any blasting-related complaints 2014 Draft Annual Review 2013/2014 Monitoring data summaries (April 2012 to December 2014)	C	
	b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard AS 2187.2-2006.		C	Maxam generally reports calibration dates in blasting reports, although these reports were not available for the Lynwood Quarry.
	Note: A breach of the licence will still occur where airblast overpressure or ground vibration levels from the blasting operations at the premises exceeds the limit specified in conditions L4.1 to L4.4 at any "noise sensitive locations" other than the locations identified in the above condition.			
L5	<b>Hours of operation</b>			
L5.1	The Applicant shall comply with the operating hours in the below table.	Viewed incident register- no noise complaints registered.	C	

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	<p>Construction works Monday-Friday: 7am to 6pm Saturday: 8am to 1pm Sunday and Public Holidays: None</p> <p>Topsail/overburden removal/emplacement Any day: 7am to 6pm</p> <p>Blasting Monday-Saturday: 9am to 5pm Sundays and Public Holidays: None</p> <p>Extraction Any day: 7am to 10pm</p> <p>Processing, (crushing, screening, stockpiling); loading, delivery, and distribution; maintenance Any day: Anytime</p>	2014 Draft Annual Review 2013/2014	C	
	Note: The above table only relates to construction works that are audible at any residential receivers on privately owned land. Construction works that are inaudible at any residential receiver may be carried out at any time.			
4	<b>Operating conditions</b>			
O1	<b>Activities must be carried out in a competent manner</b>			
O1.1	Licensed activities must be carried out in a competent manner. This includes: (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Site observations.	C	See DA 128-5-2005 Schedule 2, condition 1.
O2	<b>Maintenance of plant and equipment</b>			
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: (a) must be maintained in a proper and efficient condition; and (b) must be operated in a proper and efficient manner.	No maintenance records are available. Site observations indicated that plant and equipment was in good order (eg no hydrocarbon spills/stains observed)	C	See DA 128-5-2005 Schedule 2, condition 2.
5	<b>Monitoring and recording conditions</b>			
M1	<b>Monitoring records</b>			
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Monitoring records provided in Excel format.	C	
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	Pollution monitoring results available <a href="http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html">http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html</a> (viewed 07/01/15)	C	

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M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	Pollution monitoring results available <a href="http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html">http://www.holcim.com.au/sustainability/environment/pollution-monitoring-data.html</a> (viewed 07/01/15) ALS monitoring report for January 2015	C	Sample times for surface water and groundwater samples were not recorded. <b>Recommendation 25: all sample times and the name of the person who collected the sample are recorded with the published monitoring data.</b>
M2	<b>Requirement to monitor concentration of pollutants discharged</b>			
M2.1	For each monitoring/discharge point or utilisation area specified in the table on page 13 of the Environment Protection Licence (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns.	Viewed Umwelt monitoring data (24/4/2012).*	C	
	Note: For the purposes of the table(s) above Special Frequency 1 means the collection of samples over a 24 hour period, every 6 days.			
M3	<b>Testing Methods - concentration limits</b>			
M3.1	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with: a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.  Note: <i>The Protection of the Environment Operations (Clean Air) Regulation 2010</i> requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".	Viewed Umwelt monitoring data (24/4/2012)*	C	Data recorded as required in M2.1 but no methods recorded. <b>Recommendation 26: sampling methods are recorded with monitoring data.</b>
M4	<b>Recording of pollution complaints</b>			
M4.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Sighted complaints register.	C	
M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	Sighted complaints register.	C	
M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Register available for previous audit (to 23/4/12) as Excel table and for current audit in INX.	C	
M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Hardcopy available for viewing by EPA officer.	C	
M5	<b>Telephone complaints line</b>			

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M5.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	The Lynwood Quarry website <a href="http://www.holcim.com.au/en/lynwood-quarry.html">http://www.holcim.com.au/en/lynwood-quarry.html</a> (viewed 07/01/15) Yellow Pages (viewed 07/01/15).	C	Lynwood Quarry Environment and Community Coordinator phone number and email provided on website. Yellow Pages lists "Lynwood Quarry Blasting and Complaints Hotline"
M5.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	The Lynwood Quarry website <a href="http://www.holcim.com.au/en/lynwood-quarry.html">http://www.holcim.com.au/en/lynwood-quarry.html</a> (viewed 07/01/15) Yellow Pages (viewed 07/01/15).	C	Lynwood Quarry Environment and Community Coordinator phone number and email provided on website. Yellow Pages lists "Lynwood Quarry Blasting and Complaints Hotline"
M5.3	The preceding two conditions do not apply until 3 months after: a) the date of the issue of this licence or b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.	-	-	
6	<b>Reporting Conditions</b>			
R1	<b>Annual Return Documents</b>			
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: a) a Statement of Compliance; and b) a Monitoring and Complaints Summary. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.	EPA POEO Public Register (07/01/15) <a href="http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=general&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=general&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a>	C	
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	EPA POEO Public Register (07/01/15) <a href="http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=general&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=general&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a>	C	
R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.	-	NA	License hasn't been transferred.
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: (a) in relation to the surrender of a licence- the date when notice in writing of approval of the surrender is given; or (b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.	-	NA	
R1.5	The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	EPA POEO Public Register (07/01/15) <a href="http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=general&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=general&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a>	C	Anniversary date: 15 December
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.		C	

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Section	Condition	Evidence verified	Compliance	Comments and recommendations
R1.7	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	EPA POEO Public Register (07/01/15) <a href="http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=general&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=general&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a>	C	
R1.8	A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.	-	-	
	Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.	-	-	
	Note: An application to transfer a licence must be made in the approved form for this purpose.	-	-	
R2	<b>Notification of environmental harm</b>			
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555	-	C	See comments regarding DA 128-5-2005, Schedule 5, Condition 5.
R2.2	The licensee must provide written details of the notification to the EPA with in 7 days of the date on which the incident occurred.	-	C	See comments regarding DA 128-5-2005, Schedule 5, Condition 5.
	Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	-	-	
R3	<b>Written report</b>			
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	NA - EPA has not requested a written report.	NA	
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	NA - EPA has not requested a written report.	NA	
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	NA - EPA has not requested a written report.	NA	

**Lynwood Quarry  
Independent Environmental Audit - 2014**

<b>Section</b>	<b>Condition</b>	<b>Evidence verified</b>	<b>Compliance</b>	<b>Comments and recommendations</b>
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	NA - EPA has not requested a written report.	NA	
7	<b>General conditions</b>			
G1	<b>Copy of licence kept at the premises</b>			
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Sighted EPL 12939.	C	
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	-	-	
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Hardcopy of licence is available.	C	





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