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Margaret Kirton Senior Planner Department of Planning & Environment 23-33 Bridge Street Sydney NSW 2000

June 30, 2016

Dear Margaret,

Holcim (Australia) Pty Ltd (Holcim) is the owner and operator of the Jandra Quarry, located on Lots 10-15 DP790056 and Lot 2 DP255621 on the Pacific Highway, Possum Brush.

A modification to the existing Development Consent was granted on March 13, 2015 and allows for an increase in the production and transport of quarry materials from 250,000 Tonnes per Annum (TpA) to 490,000 TpA (production) and 475,000 TpA (transport).

Schedule 5, Conditions 8 (a-e) & 9 of the Development Consent require the site to commission an independent consultant to undertake an Environmental Audit in the following manner:

8. By 31 March 2016, and every 3 years thereafter, unless the Secretary 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 suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;

(b) include consultation with the relevant agencies;

(c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water License (including any assessment, plan or program required under these approvals);

(d) review the adequacy of any approved strategy, plan or program required under the these approvals; and

(e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals.

Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.

9. Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

GHD was commissioned to undertake the audit on 30 March, 2016 with a site inspection conducted on 20 May 2016. The audit period was taken to be from 20 May 2016 with a final report provided to Holcim's Planning & Environment team on 27 June 2016.

The audit report listed a total of 18 recommendations identified by the audit team. All recommendations have been actioned to relevant staff and logged in Holcim's internal reporting tool (INX).

In accordance with Schedule 5, Condition 8 and 9 of the Jandra Development Consent this document provides a response to each of the non-compliant items and recommendations outlined in the GHD audit report.

Response to Recommendations

Based on the non-compliance summary table provided by GHD, Holcim has provided a response to each recommendation outlined in the independent audit report.

All recommendations identified by GHD in the independent audit report as well as Holcim's response and proposed actions to each recommendation are discussed in detail in Attachment 1 of this letter.

Should you wish to contact me with regards to any of the information above, please do not hesitate to contact me on (02) 9412 6592.

Yours sincerely,

1. hitty

Daniel Lidbetter
NSW/ACT Planning & Environment Coordinator

Attachment 1: Independent Audit Findings and Recommendations

| TABLE 1: GHD Independent Audit Findings & Recommendations | | | | | |
|---|--|--------|--|---|--|
| Schedule | Condition | Status | Recommendations | Holcim Action | |
| Condition 18 of Schedule 2 | The Applicant shall provide annual quarry production data to DRE using the standard form for that purpose; and report these data in the Annual Review (see condition 4 of Schedule 5). | ANC | Recommendation 1 Ensure annual quarry production data is provided to DRE using the standard form. | With regards to Recommendation 1 Holcim will undertake the following actions to ensure compliance with this condition: Action: Holcim will submit all annual production data to DRE using the standard format. | |
| Condition 1 of Schedule 3 | The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 or Table 3 at any residence on privately- owned land. | NV | Recommendation 2 Commence monitoring as soon as practicable following approval of the EMS and sub-plans to ensure effective management should any exceedance occur. | With regards to Recommendation 2 Holcim will undertake the following actions to ensure compliance with this condition: Action: Holcim will begin monitoring as soon as each individual management plan is approved by the DP&E. | |
| Condition 8 (b) of Schedule 3 | (b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site; and | С | Recommendation 3 Advise local neighbours of blasting via a group email, in addition to a phone call. | With regards to Recommendation 3 Holcim will undertake the following actions to ensure compliance with this condition: Action: Holcim staff will develop a generic email that includes the surrounding neighbour's email address' and will send out advising the next time and date of the proposed blast. | |
| Condition 9 (d) of Schedule 3 | (d) include a blast fume management protocol to demonstrate how emissions will be minimised including risk management strategies if blast fumes are generated; | ANC | Recommendation 4 Update the NBMP to include a reference to the Blast Fume Code of Practice (available on site via USAFE), or this be included as an appendix to the NBMP. | With regards to Recommendation 4 Holcim will undertake the following actions to ensure compliance with this condition: Action: Update the NBMP to include a reference to the Blast Fume Code of Practice (available on site via USAFE), or this be included as an appendix to the NBMP. | |

| TABLE 1: GHD Independent Audit Findings & Recommendations | | | | | |
|---|---|------------------|---|--|--|
| Schedule | Condition | Status | Recommendations | Holcim Action | |
| Condition 10 of Schedule 3 | The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria listed in Tables 5, 6 and 7 at any residence on privately-owned land. | NC (Low Risk) | Recommendation 5 Confirm DP&E's approval of proposed PM10 monitoring locations and commence monitoring as soon as practicable to ensure effective management should any exceedance occur. | With regards to Recommendation 5 Holcim will undertake the following actions to ensure compliance with this condition: Action: Send email correspondence to members of the DP&E to confirm that the proposed location of the PM10 monitor is practicable. | |
| Condition 10 of Schedule 3 | The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria listed in Tables 5, 6 and 7 at any residence on privately-owned land. | NC (Low Risk) | Recommendation 6 Advise DP&E in writing of the installation and location of the PM10 monitor following installation. | With regards to Recommendation 6 Holcim will undertake the following actions to ensure compliance with this condition: Action: Advise DP&E in writing of the installation and location of the PM10 monitor following installation. | |
| Condition 13(a) of Schedule 3 | The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Tables 5, 6, and 7 at any occupied residence on quarry-owned land unless: (a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent; | ANC | Recommendation 7 Notify the tenant of potential health risks associated with exceedances of particulate matter criteria in accordance with Condition 13(a). | With regards to Recommendation 7 Holcim will undertake the following actions to ensure compliance with this condition: Action: The site Quarry Manager will notify the tenant at the location specified in this condition on the risks associated with exceedances of particulate matter criteria. | |

| TABLE 1: GHD Independent Audit Findings & Recommendations | | | | | |
|---|---|------------------|---|---|--|
| Schedule | Condition | Status | Recommendations | Holcim Action | |
| Condition 15 of Schedule 3 | For the life of the development, the Applicant shall ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline. | NC (Low Risk) | Recommendation 8 Following installation of the meteorological station, provide written notification to DP&E. | With regards to Recommendation 8 Holcim will undertake the following actions to ensure compliance with this condition: Action: Advise DP&E in writing of the installation and location of the meteorological weather station following installation. | |
| Condition 19 of Schedule 3 | The Applicant shall prepare and implement a Soil and Water Management Plan for the development to the satisfaction of the Secretary. This plan must be prepared in consultation with the Council and NOW, by suitably qualified and experience person/s whose appointment has been approved by the Secretary, and be submitted to the Secretary for approval by 31 August 2015. | ANC | Recommendation 9 Update the SWMP to include details of documentation referred to in Table 8 of the SWMP, or include Attachment 4.1H as an Appendix to the SWMP | With regards to Recommendation 9 Holcim will undertake the following actions to ensure compliance with this condition: Action: Update the SWMP to include details of documentation referred to in Table 8 of the SWMP, or include Attachment 4.1H as an Appendix to the SWMP. | |
| Condition 19 of Schedule 3 | The Applicant shall prepare and implement a Soil and Water Management Plan for the development to the satisfaction of the Secretary. This plan must be prepared in consultation with the Council and NOW, by suitably qualified and experience person/s whose appointment has been approved by the Secretary, and be submitted to the Secretary for approval by 31 August 2015. | ANC | Recommendation 10 Update the SWMP to include requirements for the investigation and reporting of exceedances of water quality performance criteria in accordance with Condition 6 of Schedule 5 of DA 213-10-99. | With regards to Recommendation 10 Holcim will undertake the following actions to ensure compliance with this condition: Action: Update the SWMP to include requirements for the investigation and reporting of exceedances of water quality performance criteria in accordance with Condition 6 of Schedule 5 of DA 213-10-99. | |
| Condition 20 of Schedule 3 | The Applicant shall manage on-site sewage to the satisfaction of Council and the EPA. | NV | Recommendation 11 Liaise with GTCC to resolve the issue of on-site OSSM systems. | With regards to Recommendation 11 Holcim will undertake the following actions to ensure compliance with this condition: Action: Liaise with GTCC to resolve the issue of on-site OSSM systems. | |

| TABLE 1: GHD | TABLE 1: GHD Independent Audit Findings & Recommendations | | | | | |
|--------------------------------------|--|----------------------|---|--|--|--|
| Schedule | Condition | Status | Recommendations | Holcim Action | | |
| Condition 25 (b) of Schedule 3 | The Applicant shall prepare and implement a Biodiversity and Rehabilitation Management Plan for the site to the satisfaction of the Secretary. This plan must: (b) be prepared in consultation with OEH and Council, and submitted to the Secretary for approval by 31 August 2015; | ANC | Recommendation 12 Provide Council with an updated copy of the DP&E approved BRMP. | With regards to Recommendation 12 Holcim will undertake the following actions to ensure compliance with this condition: Action: Provide Council with an updated copy of the DP&E approved BRMP. | | |
| Condition 29 (c) of Schedule 3 | The Applicant shall prepare and implement an Aboriginal Cultural Heritage Management Plan for the Project to the satisfaction of the Secretary. This plan must: (c) describe the measures that would be implemented to: manage known Aboriginal objects and sites; monitor all new surface disturbance on site for unidentified Aboriginal objects; manage the discovery of any human remains or previously unidentified Aboriginal objects on site; | С | Recommendation 13 Update the ACHMP to include monitoring of all new surface disturbances on site and include an unexpected finds procedure for unidentified Aboriginal objects and submit to DP&E for approval. | With regards to Recommendation 13 Holcim will undertake the following actions to ensure compliance with this condition: Action: Update the ACHMP to include monitoring of all new surface disturbances on site and include an unexpected finds procedure for unidentified Aboriginal objects and submit to DP&E for approval. | | |
| Condition 36 of Schedule 3 | Except as expressly permitted in an EPL, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal. | ANC (Low Risk) | Recommendation 14 Consult with DP&E and seek an administrative modification to permit the reprocessing of concrete waste on site. | With regards to Recommendation 14 Holcim will undertake the following actions to ensure compliance with this condition: Action: Consult with DP&E and seek an administrative modification to permit the reprocessing of concrete waste on site. | | |

| Schedule | Condition | Status | Recommendations | Holcim Action |
|-------------------------------------|---|--------|--|---|
| Condition 3 (g) of Schedule 5 | The Applicant shall ensure that the Management Plans required under this consent are prepared in accordance with any relevant guidelines, and include: (g) a protocol for managing and reporting any: - incidents; - complaints; - non-compliances with statutory requirements; and - exceedances of the impact assessment criteria and/or performance criteria; and | ANC | Recommendation 15 Update the SWMP and ACHMP to include a procedure for addressing non- compliances. | With regards to Recommendation 15 Holcim will undertake the following actions to ensure compliance with this condition: Action: Update the SWMP and ACHMP to include a procedure for addressing non-compliances. |
| Condition 10 of Schedule 5 | By 31 August 2015, the Applicant shall: (a) make the following information publicly available on its website: the documents listed in condition 2 of Schedule 2; current statutory approvals for the development; approved strategies, plans or programs; a summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent; a complaints register, which is to be updated on a quarterly basis; the annual reviews (over the last 5 years); any independent environmental audit, and the Applicant's response to the recommendations in any audit; and any other matter required by the Secretary; and (b) keep this information up-to-date to the satisfaction of the Secretary. | ANC | Recommendation 16 Upload depositional dust monitoring results and the DP&E approved management plans (when approved) to the Holcim website | With regards to Recommendation 16 Holcim will undertake the following actions to ensure compliance with this condition: Action: Upload depositional dust monitoring results and the DP&E approved management plans (when approved) to the Holcim website. |

| TABLE 1: GHD Independent Audit Findings & Recommendations | | | | | | |
|---|--|--------|---|---|--|--|
| Schedule | Condition | Status | Recommendations | Holcim Action | | |
| Condition P1.2 of EPL | The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area. | С | Recommendation 17 Install a sign at the licenced discharge point from the Main Dam to notify that this location is the discharge point. | With regards to Recommendation 17 Holcim will undertake the following actions to ensure compliance with this condition: Action: Install a sign at the licenced discharge point from the Main Dam to notify that this location is the discharge point. | | |
| Condition M1.3 of EPL | The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area. | С | Recommendation 18 Prepare a field record sheet for environmental monitoring rather than use the chain of custody and include the field sheet as an Appendix to the SWMP. | With regards to Recommendation 18 Holcim will undertake the following actions to ensure compliance with this condition: Action: Prepare a field record sheet for environmental monitoring rather than use the chain of custody and include the field sheet as an Appendix to the SWMP. | | |

Attachment 2: Jandra Independent Audit Report (GHD 2016).





Holcim (Australia) Pty Ltd Jandra Quarry Independent Environmental Compliance Audit

June 2016

Executive summary

GHD Pty Ltd (GHD) was commissioned by Holcim (Australia) Pty Ltd (Holcim) to conduct an audit of Holcim's compliance with the requirements of its Development Consent (DA 231-10-99) and Environment Protection Licence (EPL # 2796) for the Jandra Quarry (the project). The scope of this audit is set out by Condition 8 of Schedule 5 of the Development Consent. This report presents the audit findings.

The review of compliance with DA 231-10-99 identified four non-compliances and eleven administrative non-compliances as detailed in Section 3 of the Report. The environmental risk associated with all of the non-compliances was considered low as detailed in Section 3.2.1.

No non-compliances or administrative non-compliances were identified in relation to compliance with the Environment Protection Licence (EPL) 2796.

Detailed findings of compliance for the Development Consent and EPL are provided in Appendix A and B of this report.

A number of recommendations were made during the audit relating to the Conditions of Approval and EPL, which are detailed in Section 4 of the report.

Rehabilitation of disturbed areas of the quarry is ongoing as was evident during the site visit. This is supported by the 2015 Annual Review noting progressive rehabilitation of the southern benches (RL 62 and RL 74) being undertaken during the 2015 reporting period.

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Appendices

Appendix A – Compliance with Conditions of Approval

Appendix B - Compliance with EPL requirements

Appendix C – Agency correspondence for the audit

1. Introduction

1.1 Introduction and purpose of this report

Holcim (Australia) Pty Ltd (Holcim) is one of Australia's leading producers and suppliers of construction materials such as concrete and quarry products, with over 88 quarry operations supplying rail ballast, aggregates, gravels, road pavement materials, and manufactured and natural sands.

The Jandra Quarry is a hard rock quarry located on the Pacific Highway at Possum Brush, approximately 17 kilometres south of Taree in the Greater Taree Local Government Area (LGA). Jandra Quarry has been operating since 1986, with the current Development Consent (DA 231-10-99) for operations granted by the NSW Minister for Planning on 30 March 2000 (with five subsequent modifications).

Holcim commissioned GHD to conduct an independent environmental audit of its Jandra Quarry (the site). The audit was conducted in accordance with Condition 8 of Schedule 5 of the Development Consent. The audit assessed the compliance status of the Jandra Quarry against the Development Consent and other relevant environmental approvals and licences, for operations since approval of Modification 5 (13 March 2015) in which the condition requiring this audit was included in the Development Consent.

The site component of the environmental audit was conducted on 20 May 2016. This report provides an outline of the audit methodology and results, and provides recommended actions for achieving full compliance with environmental approvals.

The audit was led by Ashley Robinson, Principal Environmental Scientist with the assistance of Elliot Holland, Environmental Scientist.

Condition 8 of Schedule 5 of the Development Consent for the project requires an Independent Environmental Audit (the audit) to be commissioned by 31 March 2016. Specifically, Condition 8 requires:

"By 31 March 2016, and every 3 years thereafter, unless the Secretary 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 suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;

(b) include consultation with the relevant agencies;

(c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water License (including any assessment, plan or program required under these approvals);

(d) review the adequacy of any approved strategy, plan or program required under these approvals; and

(e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals.

As required by Condition 8(a) of Schedule 5 of the Development Consent, the audit team was approved by the Department of Planning and Environment (DP&E) to undertake the audit on 31 March 2016.

1.2 Scope of the audit

The audit took the following form:

- An initial start-up teleconference with held with relevant Holcim representatives to discuss the audit methodology, identify relevant personnel involved in the project, key activities and systems occurring on the site, documentation for review and to schedule a date for the site inspection
- Relevant agencies, including the Office of Environment and Heritage (OEH), Department of Primary Industries (DPI) Water, Environment Protection Authority (EPA) and Greater Taree City Council (GTCC) were requested to provide comment on the performance and/or compliance of the project with relevant requirements and/or approvals
- A review of available key documentation including the Environmental Assessment (EA), Development Consent, Environment Protection Licence (EPL) and other relevant site and environmental information (such as correspondence with relevant agencies and management plans and/or monitoring results) was undertaken prior to interviews with Holcim representatives and the site inspection. Additional documents were reviewed during and following the interviews with Holcim representatives and the site inspection
- A one-day site inspection to assess the general environmental performance of Jandra Quarry and discuss Development Consent and EPL compliance with key site-based personnel
- Preparation of a draft audit report for Holcim to review
- Finalisation of the audit report and submission to DP&E on behalf of Holcim.

1.3 Audit participants

The following personnel were involved over the course of the audit Table 1.

Table 1Audit team members

| Audit team members | Organisation | Role |
|--------------------|--------------|---|
| Maurice Pignatelli | GHD | Technical review |
| Ashley Robinson | GHD | Lead Auditor |
| Elliot Holland | GHD | Support Auditor |
| Daniel Lidbetter | Holcim | NSW/ACT Planning & Environment Coordinator |
| Matt Neil | Holcim | Quarry Manager |

1.4 Limitations

This report has been prepared by GHD for Holcim and may only be used and relied on by Holcim for the purpose agreed between GHD and the Holcim as set out in section 1.1 and 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than Holcim arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

GHD has prepared this report on the basis of information provided by Holcim, which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

2. Methodology

The audit process involved the interview of personnel, a review of documentation and samples of records provided by Holcim and a site inspection of the quarry operations to determine the level of environmental performance and compliance of the development with the Development Consent and the EPL. The audit process is described in more detail in Sections 2.1 to 2.5.

2.1 Audit inception

An initial start-up teleconference for the audit was held in April 2016 with relevant Holcim representatives to discuss the audit methodology, identify relevant personnel involved in the project, key activities and systems occurring on site, documentation for review and to schedule a date for the site inspection;

2.2 Document review

Environmental documentation associated with the Jandra Quarry was reviewed by the auditors prior to site visit. Holcim personnel provided a number of documents for review including:

- Noise and Vibration Management Plan (NVMP)
- Biodiversity and Rehabilitation Management Plan (BRMP)
- Soil and Water Management Plan (SWMP)
- Air Quality Management Plan (AQMP)
- Aboriginal Cultural Heritage Management Plan (ACHMP)
- Environmental Management Strategy (EMS)
- Development Consent
- EPL
- Environmental Assessment
- Correspondence to/from agencies.

Additional documents were provided during and following the audit as evidence of compliance with the Development Consent and EPL.

2.3 Agency consultation

As part of the audit process, the following agencies were invited to provide comment in regard to Development Consent conditions requiring specific consultation with the particular agencies.

- Department of Primary Industries Water (DPI Water)
- Environment Protection Authority (EPA)
- Greater Taree City Council (GTCC)
- Office if environment and Heritage (OEH)

Letters requesting comment from the agencies were emailed between 6 and 10 May 2016.

Comments were received from DPI Water, EPA, GTCC and OEH. Copies of this correspondence are provided in Appendix C, with a response to these matters provided in Section 3.4.

2.4 Site inspection and interviews

2.4.1 Opening and closing meeting

GHD undertook a site visit of the Jandra Quarry on 20 May 2016. The auditor used the site inspection to review compliance with various environmental requirements of the project.

The opening and closing meetings were held at the Jandra Quarry main office. The list of participants is provided in Table 2.

Table 2 Opening meeting attendees

| Audit team members | Organisation | Role |
|---|------------------------|---|
| Ashley Robinson | GHD | Lead Auditor |
| Elliot Holland | GHD | Support Auditor |
| | | |
| Holcim Representatives | Organisation | Role |
| Holcim Representatives Daniel Lidbetter | Organisation Holcim | Role NSW/ACT Planning & Environment Coordinator |

Following the opening meeting, a site inspection was undertaken to familiarise the audit team with the site and operations.

The objectives of the closing meeting were to discuss any outstanding matters, present preliminary findings and outline the process for finalising the audit report.

2.4.2 Audit interviews

During the on-site component of the audit, interviews were conducted with the Holcim staff identified in Table 2.

2.4.3 Data collection and verification

Where possible, documents and data collected during the audit process were reviewed whilst on-site. A number of documents were provided to the audit team prior to the on-site component of the audit. Several documents that were not available during the on-site component were provided following the audit.

All information obtained during the audit process was verified by the audit team where possible. For example, statements made by site personnel were verified by viewing documentation and/or site inspections. Where suitable verification was unable to be obtained, this has been identified.

2.4.4 Site inspection

A detailed site inspection of Jandra Quarry was undertaken on 20 May 2016. The following locations were inspected:

- Active quarry pit
- Pug mill and maintenance area
- Processing area and stockpiles
- Weighbridge, access road and wheel wash
- Main dam

- Haul road
- Accessible rehabilitation areas

2.5 Reporting

This report presents the finding of the Jandra Quarry independent environmental audit required by Condition 8 of Schedule 5 of the Development Consent (DA 231-10-99) for the reporting period of 31 March 2015 to 31 March 2016.

This report summarises the findings of Holcim's compliance of the requirements of the Development Consent and EPL in Section 3. The findings are supported by Appendices detailing:

- Compliance against the Development Consent (Appendix B)
- Compliance against the EPL (Appendix C).

2.6 Definitions

Reporting results from the Independent Environmental Audit was determined based on the following definitions.

Compliant

Where sufficient verifiable evidence has been gathered to demonstrate compliance with the explicit requirements of the condition.

Non-Compliant

Where sufficient verifiable evidence has been gathered to demonstrate non-compliance with the explicit requirements of the condition.

Administrative non-compliance

A technical non-compliance with a requirement that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date).

Not verified

The inability to obtain sufficient verifiable evidence to assess compliance with the explicit requirements of the condition.

Not triggered

A requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.

Observation

A finding which is not likely to significant affect the operations, does not strictly relate to the scope of the audit of compliance and/or could lead to performance improvement.

Note

A statement or fact, where no assessment of compliance is required.

3. Audit findings

3.1 Summary of Compliance

Table 3 presents a summary of compliance with the requirements of the Development Consent and the EPL.

| Compliance | Development Consent (number) | Percentage | EPL (number) | Percentage |
|----------------------------------|---------------------------------|------------|--------------|------------|
| Compliant | 96 | 71 | 30 | 60 |
| Non-compliant | 4 | 3 | 0 | 0 |
| Administrative Non-compliance | 11 | 8 | 0 | 0 |
| Not verified | 4 | 3 | 2 | 4 |
| Not triggered | 19 | 14 | 13 | 26 |
| Observation | 0 | 0 | 0 | 0 |
| Note | 1 | 1 | 5 | 10 |
| Total number of requirements | 135 | 100 | 50 | 100 |

Table 3Compliance with Development Consent and EPL

3.1.1 General Environmental Performance and Compliance

Holcim demonstrated a high level of environmental performance during the audit, as demonstrated by the comments and photos below.

A site inspection was undertaken of Jandra Quarry on 20 May 2016. While the approval of Modification 5 was obtained on 13 March 2015, at the time of the audit production had not increased to the production capacity approved by this modification and Jandra Quarry has not yet undertaken extraction, processing and transport operations to the approved time of 10.00 pm Monday to Friday.

Production for the 2015 reporting period was 232,028 tonnes, which is well below the approved limit of 475,000 tonnes. It was noted during the site interviews that the mobile asphalt plant was decommissioned during the 2015 reporting period and is no longer on site. The asphalt plant was used specifically for the Bulahdelah Bypass, which is now complete and operational.

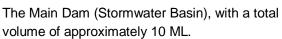
In the current active quarry area, rehabilitation was observed along the southern and eastern quarry bench areas (refer to photo below). It is noted that some of this this rehabilitation predates the approval of Modification 5 and was undertaken in accordance with the previous site Landscape and Rehabilitation Management Plan. However, the 2015 Annual Review notes progressive rehabilitation of the southern benches (RL 62 and RL 74) was undertaken during the reporting period.

During the site inspection dust controls were observed in the form of watering down of the crushing and screening plant, operation of a water cart along the haul roads and a sprinkler operating atop a product stockpile in the stockpiling area.

3.1.2 Site inspection observations

A selection of photographs from the site inspection is provided below.







Pump used to transfer water between the Main Dam and in-pit dam



The Main Dam (Stormwater Basin) discharge point, in the dam.



Wheel wash system at the site exit, with water cycled through via a pump before draining to the Main Dam for reuse.



The Main Dam (Stormwater Basin) discharge point, out of the dam.



Shaker system at the site exit, which trucks pass over following the wheel wash. Excess water is drained and cycled through the wheel wash, while material is collected for disposal



A sign prior to the wheel wash noting all vehicles exiting the site must use the wheel wash.



A water cart observed to be in operation while on-site.



Liquid storage facilities, located within bunding.



On-site pug mill.



Waste oil storage container. Waste oils are collected by Australian Waste Oils.



Waste oil filter and oily rags storage containers, waste oils are collected by Australian Waste Oils.



Dangerous goods storage containers.



One of two on-site OSSM Systems, discussed in Section 3.6.2.



Product stockpiles, with a sprinkler system operating on the stockpile in the back, right.



Crushing and screening plant, with wash down occurring to minimise dust issues.



Settling ponds (one being active and the other dewatering at any one time)



In-pit Dam, with a total volume of approximately 13 ML.





Rehabilitation along the southern quarry benches.

In-pit solar lighting.



Active quarry pit.

Waste tyres, stored for reuse in road barriers



Overburden stockpiles, within the approved overburden emplacement area.



Boundary marker in the southeast of the Active Quarry Pit area.



RL 50 marker indicating the current level of the Active Quarry Pit (approval allows to RL 20).



Truck leaving sight, with the front load covered. The driver was sighted covering the back load prior to leaving the site.

3.2 Compliance with Development Consent DA 231-10-99

3.2.1 Context to Compliance Assessment

Holcim were granted Modification 5 on 13 March 2016 permitting an increase in production from 250,000 tonnes to 475,000 tonnes per annum. Holcim advised that whilst the approved production limit has increased, site operations have not increased to reflect the new production limit. As such, there has not been an increase in the potential environmental impacts associated with an increase in production.

The quarry operations are located in a heavily forested area and are reasonably isolated with three properties located within approximately 500 m of the quarry operations and less than 10 properties located within one kilometre of the operations. Of the three closest properties, two are located on Holcim owned land (one is leased and the other is occupied by Holcim staff) and the other is a private property for which Holcim has a noise agreement in place. Due to the distance to sensitive receivers, the potential for adverse impacts associated with environmental issues including noise, vibration and air quality is considered by the auditor to be low.

Further details relating to risks associated with non-conformances are provided in the detailed findings in Appendices A and B.

3.2.2 Summary of Non-Compliance

The review of compliance with the Development Consent (DA 231-10-99) identified four noncompliances and eleven administrative non-compliances.

All non-compliances were deemed to represent a low risk. Details of the reasons for the risk rating are provided in the detailed tables presented in Appendix A and B.

A summary of non-compliances and administrative non-compliances is detailed in Tables 4 and 5 below.

Table 4 Summary of Non-Compliances

| Condition | Reason for Non-Compliance | Risk Rating |
|-----------------------------------|--|----------------|
| Condition 3 of Schedule 3 | Noise monitoring is not undertaken at the quarry. Holcim advised they were awaiting final approval of the EMS following this audit prior to commencing monitoring. | Low |
| Condition 10 of Schedule 3 | Particulate matter monitoring is not undertaken for the quarry operations. Holcim advised they were awaiting final approval of the EMS following this audit prior to commencing monitoring. | Low |
| Condition 12 (b) of Schedule 3 | See Condition 10 | Low |
| Condition 15 of Schedule 3 | Jandra Quarry does not operate a meteorological station on site or have access to one in the nearby vicinity | Low |

Table 5 Summary of Administrative Non-Compliances

| Condition | Reason for Non-Compliance | Risk Rating |
|-----------------------------------|--|----------------|
| Condition 2 of Schedule 2 | Holcim was generally carrying out operations in accordance with the Conditions of Approval and EPL, however non-compliances and administrative non-compliances were identified during the audit | Low |
| Condition 16 of Schedule 2 | Survey Plan was submitted after 31 August 2015 | Low |
| Condition 18 of Schedule 2 | Annual quarry production data is provided to DP&E but not the Department of Industry Division of Resources and Energy (DRE) | Low |
| Condition 9 (d) of Schedule 3 | NBMP does not include a Blast Fume Management Protocol. | Low |
| Condition 13 (a) of Schedule 3 | Formal correspondence has not been provided to the tenant in relation to potential health risks as required by Condition 13 (a) | Low |
| Condition 19 (b) of Schedule 3 | The SWMP does not include requirements for the investigation and reporting of exceedance of performance criteria or incidents relating to exceedances. | Low |
| Condition 25 (b) of Schedule 3 | Although a Stage 1 of the BRMP was submitted to DP&E in August 2015, OEH advised that consultation was not requested until December 2015. | Low |

| Condition | Reason for Non-Compliance | Risk Rating |
|-------------------------------|--|----------------|
| Condition 36 of Schedule 3 | Holcim accepts concrete waste, which it reprocesses and adds to road base material as a recycled product. Holcim advised that during consultation, EPA advised a condition was not required for the EPL for reprocessing the concrete waste. This however does not negate the planning condition requirement and an administrative modification to the Planning Approval is recommended. | Low |
| Condition 3 (e) of Schedule 5 | ACHMP does not identify measures to be undertaken in the event of unpredicted impact on known Aboriginal cultural heritage items | Low |
| Condition 3 (g) of Schedule 5 | SWMP and ACHMP do not include a protocol for managing incidents, complaints, non-compliances and exceedances | Low |
| Condition 10 of Schedule 5 | A summary of dust depositional results are not included on the Jandra Quarry website. | Low |

3.3 Compliance with EPL 2796

The review of compliance with EPL 2796 did not identify any non-compliances or administrative non-compliances. The audit identified a high degree of compliance with the conditions of the EPL, with a number of conditions not triggered at the time of the audit.

It was noted during the site interviews that Jandra Quarry accepts concrete waste, which it reprocesses and adds to road base material however the EPL does not explicitly permit the treatment of concrete waste products received from off-site sources. Holcim advised that during consultation with the EPA, the EPA advised an EPL amendment was not required to include the reprocessing of the concrete waste.

It is noted that a general resource recovery exemption under Part 9, Clause 91 and 92 of the *Protection of the Environment Operations (Waste) Regulation 2014* applies to the recovery of aggregate material. Recovered aggregate (including concrete) is exempted from classification as a scheduled activity under Section 49 of the *Protection of the Environment Operations Act 1997*.

It is recommended that Holcim consult with DP&E concerning Condition 36 of Schedule 3 of the Conditions of Approval and seek an administrative modification to permit the reprocessing of concrete waste on site.

Condition A1.2 of EPL 2796 currently restricts Jandra Quarry to producing no more than 250,000 tonnes of quarry products in a calendar year. Modification 5 of DA 231-10-99 permits annual production to 475,000 tonnes in a calendar year.

It is noted that an EPL amendment request was provided to the EPA on 23 October 2015 to reflect the increased annual production approved by Modification 5 of DA 231-10-99. At the time of the audit the EPA has not responded to the request for an EPL amendment.

3.4 Adequacy of any Strategies/Plan and Programs

No material environmental issues were identified during the audit. Holcim advised that no complaints have been received in relation to the operation of the quarry and no significant incidents occurred during the audit period.

A number of recommendations are raised in the audit report as detailed in Section 4.

It was noted during the audit that specific monitoring requirements associated with the project's Environmental Management Strategy (EMS) and associated sub-plans required by Modification 5 have not commenced. Holcim advised that they are awaiting final approval of the EMS by DP&E.

Upon approval of the plans, Holcim advised relevant monitoring would commence.

Table 6 provides a summary of the key monitoring and management practices on site and areas recommended for improvement.

| Environmental aspect | Reference | Implementation | Recommendations | |
|---|--|--|---|--|
| Blasting: overpressure and ground vibration | Noise and Vibration Management Plan (NBMP) | Blast monitoring results are reported in the 2015 Annual Review and are publically available on the Holcim website. No exceedances were recorded during the 2015 reporting period. | Recommendation 03: Advise neighbours of blasting via a group email or text message, in addition to a phone call. | |
| | | Correspondence from the DP&E dated 14 March 2016 indicates the Secretary was satisfied the NBMP generally meets the requirements of the Project Approval. | | |
| | | In accordance with Condition 9(e) of Schedule 3 of DA 231-10-99, Jandra Quarry provides verbal notification to neighbouring properties prior to undertaking blasting, with a message left and a follow-up call made if unable to be reached. | | |
| | | It was noted that, while the NBMP includes a Blast Management Procedure as Appendix A to the NBMP, it does not include a Blast Fume Management Protocol. However, it was noted during site interviews that the site has a Blast Fume Code of Practice, which is available on-site via USAFE. | Recommendation 04: Update the NBMP to include a reference to the Blast Fume Code of Practice (available on site via USAFE), or this be included as an appendix to the NBMP | |
| Noise | NBMP | Noise monitoring was not undertaken at the quarry. Holcim has an agreement in place with the nearest landowner in regard to noise, with the agreement dated 31 January 2015. During the site interview it was noted that quarterly | Recommendation 02: Commence noise monitoring as soon as practicable to enable effective management of exceedances that may occur. | |

Table 6 Status of key monitoring and management

| Environmental aspect | Reference | Implementation | Recommendations |
|-------------------------|---|---|---|
| | | 15-minute attended monitoring would commence once final approval of the EMS is provided by DP&E. | |
| | | Without noise monitoring being undertaken there is no means of identifying exceedances and thereby ensuring effective management of operations if an exceedance has occurred. | |
| Air Quality | Air Quality Management Plan (AQMP) | PM10 monitoring was not undertaken at the quarry. Holcim intent to install a monitor by the end of June 2016 During the site interviews it was noted that dust depositional monitoring was undertaken in accordance with the requirements of EPL 2796. Report number 2718 pertaining to 4 March 2016 - 9 March 2016 was sighted during the site visit. | Recommendation 05: Confirm DP&E's approval of proposed PM10 monitoring locations and commence monitoring as soon as practicable to ensure effective management should any exceedance occur. Recommendation 06: Advise DP&E in writing of the installation and location of the PM10 monitor following installation |
| Cultural Heritage | Aboriginal Cultural Heritage Management Plan (ACHMP) | Section 7.0 of the ACHMP details management measures for known Aboriginal objects/ sites and the procedure for the discovery of unexpected Aboriginal objects (including consultation / engagement with a qualified archaeologist and implementation of the Environmental Incident Classification and Reporting Procedure). | Recommendation 13: Update the ACHMP to include monitoring of all new surface disturbances on site and include an unexpected finds procedure for Aboriginal objects and submit to DP&E for approval. |
| | | During the site interviews, it was noted that the process for excavating previously undisturbed areas is to strip topsoil down to the overburden, and then use the topsoil for bench rehabilitation; with | |

| Environmental aspect | Reference | Implementation | Recommendations |
|-------------------------|---|---|--|
| | | the overburden then stripped (average depth being $1.0 - 1.5$ metres). | |
| | Soil and Water Management Plan (SWMP) | Review of historical monitoring data indicates discharge monitoring is undertaken. Table 8 of the SWMP refers to documentation which is not currently included in the SWMP, specifically Attachment 4.1H – Environmental Monitoring Worksheet. | Recommendation 09: Update the SWMP to include details of documentation referred to in Table 8 of the SWMP, or include Attachment 4.1H as an Appendix to the SWMP. |
| | | The SWMP includes management and mitigation measures to mitigate adverse surface water impact of the Project. However, no reference is made to the investigation and reporting of exceedance of performance criteria detailed in the plan. In addition, no reference is made to incident reporting (e.g. exceedance of criteria). | Recommendation 10: Update the SWMP to include requirements for the investigation and reporting of exceedances of water quality performance criteria in accordance with Condition 6 of Schedule 5 of DA 213-10-99. |
| Rehabilitation | Biodiversity and Rehabilitation Management Plan (BRMP) | The 2015 Annual Review notes progressive rehabilitation was undertaken on the southern benches (RL 62 and RL 74) during the 2015 reporting period. As discussed in Section 3.1.1, rehabilitation was sighted during the site inspection; with observations included in Section 3.1.2. | Not applicable. |

Note: the recommendation numbering is from the detailed findings provided in Appendix A.

3.5 Auditor's response to matters raised by government agencies

3.5.1 Office of Environment and Heritage

In their email dated 11 May 2016, OEH noted the following:

- 1. On 31 March 2016 Holcim & OEH discussed the offset strategies and the possibility of retiring appropriate biodiversity credits from a registered BioBanking site. At present OEH supports the latter approach, though if either one of the proposed methods in the condition (Condition 23) be achieved we would support these.
- 2. With respect to the Biodiversity and Rehabilitation Management Plan (Condition 25), Holcim requested comment in December 2015 (well after the August 2015 deadline in Condition 25) and OEH provided a written response on 10 December 2015 acknowledging consultation. In this correspondence we stated: 'The Office of Environment and Heritage (OEH) encourages the development of such plans to ensure that proponents have determined how they will meet their statutory obligations and designated environmental objectives. However, OEH does not approve or endorse these documents as our role is to set environmental objectives for environmental/conservation management, not to be directly involved in the development of strategies to achieve those objectives. OEH acknowledges Holcim's requirement to consult with relevant government agencies and considers that you have consulted with OEH through providing this document'.

The BRMP was initially provided to DP&E in a staged submission in August 2016, however the plan was yet to be approved by DP&E.

In a letter to DP&E dated 31 March 2016, Holcim advised a section 88B Covenant was implemented to satisfy the requirements of Condition 23. The implementation of the Biodiversity Offset Strategy commenced on 31 March 2016.

Holcim noted in the letter to DP&E that OEH did not support the creation of the Section 88B Covenant. OEH were in favour of a biobanking agreement, however following a Holcim review of the likely credit price and the desire of Holcim to utilise and conserve their own land, a biobanking agreement was not pursued. It is understood that DP&E approved the creation of the Covenant on 31 March 2016.

3.5.2 Greater Taree City Council

In their email dated 17 May 2016, GTCC noted the following in relation to the completion of the audit:

1. 2 applications for approval to operate an existing OSSM System for the owner Holcim (Australia) Pty Ltd as follows:

Property 15286 lot 14 DP 7900516 Pacific Hwy Possum Brush(PIN 19477) is the location of Jandra Quarry now in the name of Holcim.

A council officer carried out an OSSM Enforcement inspection in 2004. The inspection revealed that a Domestic Aerated wastewater treatment system is installed to service the Amenities block. The system has and continues to be serviced by R &G Dobbs Wastewater Treatment and Service repairs. Council has not issued an Approval to operate the system. It is therefore recommended that an Audit review is carried out on the system by a suitably qualified wastewater Consultant to determine that the existing system is adequately designed and posing no risk to the environment and public health.

A copy of the report should be submitted to Council for review along with an application under section 68 of the Local Government Act 1993 for Approval to operate the Onsite Sewage Management System. Property 15312 lot 15 DP 790056 Pacific Hwy Possum Brush (PIN19451) is the adjoining property also owned by Holcim. No Council inspection on the existing OSSM has been carried out. It is also recommended that an audit review of the existing system is carried out by a suitably qualified wastewater consultant. A copy of the report shall be submitted to Council along with and an application under section 68 of the Local Government Act 1993 for an approval to operate the OSSM System.

It was noted during the audit that the approval of the OSSM systems preceded Holcim's acquisition of the Jandra Quarry. As detailed in Recommendation 11, it is recommended that Holcim liaise with Council to resolve the approval of the OSSM systems on site.

2. Review of the Biodiversity & Rehabilitation Management Plan, comments and one recommendation provided to Arnna, which noted the fauna protection methods during tree felling were outdated and could be updated. See attached comments with recommendation, which was attached to Arnna's email to lan Shenton.

Ian Shenton replied to Arnna "Thanks for the response Arnna. The proposed inspection methods look interesting (and effective!). I'll have a chat to our Quarry Manager about the feasibility of an activity like this. Keep you posted. Regards, Ian"

Since then ...

No further information has been provided other than letter to Arnna on 7/5/16.

No updated/amended Biodiversity & Rehabilitation Management Plan has been received for review and comment.

As detailed in Recommendation 13, it is recommended that Holcim confirm with Council that their comments on the BRMP have been incorporated and provide Council with an updated copy of the DP&E approved BRMP.

3.5.3 Department of Primary Industries - Water

In their letter dated 11 May 2016, DPI Water noted the following in relation to the completion of the audit:

1. Do the relevant management plans adequately describe the water licensing requirements under the Water Management Act 2000/Water Act 1912, and compliance with these requirements?

A controlled activity approval is not required for the Jandra Quarry.

2. Are adequate records kept to enable determination of the volume and source of surface and groundwater taken?

During site interviews, it was noted that a Holcim directive in 2015 required each site to understand the requirement for a site water balance, in regard to withdrawal, discharge and consumption as part of Soil and Water Management Plan (SWMP) preparation. This required the site to have a total withdrawal number, which comes from the main dam. Water management on site is undertaken via recycled process water which comes from the wash plant, which is then pumped to one of two settling ponds (one being active and the other dewatering at any one time), and then to the main dam where it can be pumped back to the wash plant for use as necessary. Groundwater and surface water extraction is not required for the site operations. All process water to date is sourced from rainwater and recycled through the on-site dams.

3. Is the operation capturing and/or harvesting any clean water?

It was noted during the site interviews that Jandra Quarry does not use town water, instead harvesting rainfall from the in-pit pond (13 ML capacity) with a network of connected syphon hoses, and the main dam (10 ML capacity). This allows for 23 ML of available water. The site also has a rainwater tank off the shed with a 5,000 litre capacity, which is used for the ablutions and main office.

An additional dam is located at the north of the site access road but is not used for any site purposes.

4. Has the proponent calculated its maximum harvestable right under the Water Management Act 2000?

The Main Dam and In-pit Dam provide for a maximum storage capacity of 23 ML as detailed in the SWMP. The SWMP indicates that the maximum harvestable right has been calculated for the site operations although details of this were not sighted during the audit and a review of harvestable rights was not part of the scope of this audit.

DPI Water noted in correspondence dated 21 September 2015 that the maximum sediment dam requirements detailed in the Environmental Assessment were 20.3ML providing excess capacity of 2.7ML which is to be included in the water storage calculation for Harvestable Rights. The dam on the north of the access road also provides a 4 ML capacity. DPI noted in its 21 September 2015 correspondence that the clean water dams detailed in the SWMP are within the quarry's harvestable right and as such no additional licences are required.

5. Is the capture of water in excess of the harvestable right?

Holcim advised that they monitor storage capacity within the dams and move water between the dams depending on process requirements. The dams observed during the site inspection were not at maximum capacity. There was no evidence to suggest that water captured on site is in excess of the harvestable right.

6. Do any exemptions under the Water Management (General) Regulation 2011 or Harvestable Rights Order (gazetted 31 March 2006) apply to the capture of water?

DPI Water indicated in correspondence dated 21 September 2015 that the clean water dams capacity for the quarry is within the properties harvestable rights and as such, additional licences or exemptions are not required.

7. If necessary, does the proponent hold water access licenses in the correct water sources under the relevant water sharing plan (for the take of surface water or alluvial groundwater), or licences under part 5 of the Water Act 1912 (for the take of groundwater from non-alluvial aquifers}, and do they hold sufficient quantity of entitlement under these licenses?

As detailed for Item 6, DPI Water indicated no additional licences are required.

3.5.4 Environment Protection Authority

No comments were received from EPA for the audit.

4. Recommendations

The following recommendations are based on the findings of the audit.

Table 7 Recommendations

| Approval / EPL condition | Recommendation No. | Recommendation |
|--------------------------------------|-----------------------|--|
| Condition 18 of Schedule 2 | 1 | Ensure annual quarry production data is provided to DRE using the standard form. |
| Condition 1 of Schedule 3 | 2 | Commence monitoring as soon as practicable following approval of the EMS and sub-plans to ensure effective management should any exceedance occur. |
| Condition 8 (b) of Schedule 3 | 3 | Advise neighbours of blasting via a group email, in addition to a phone call. |
| Condition 9 (d) of Schedule 3 | 4 | Update the NBMP to include a reference to the Blast Fume Code of Practice (available on site via USAFE), or this be included as an appendix to the NBMP. |
| Condition 10 of Schedule 3 | 5 | Confirm DP&E's approval of proposed PM10 monitoring locations and commence monitoring as soon as practicable to ensure effective management should any exceedance occur. |
| | 6 | Advise DP&E in writing of the installation and location of the PM10 monitor following installation |
| Condition 13(a) of Schedule 3 | 7 | Notify the tenant of potential health risks associated with exceedances of particulate matter criteria in accordance with Condition 13(a). |
| Condition 15 of Schedule 3 | 8 | Following installation of the meteorological station, provide written notification to DP&E. |
| Condition 19 of Schedule 3 | 9 | Update the SWMP to include details of documentation referred to in Table 8 of the SWMP, or include Attachment 4.1H as an Appendix to the SWMP. |
| | 10 | Update the SWMP to include requirements for the investigation and reporting of exceedances of water quality performance criteria in accordance with Condition 6 of Schedule 5 of DA 213-10-99. |
| Condition 20 of Schedule 3 | 11 | Liaise with GTCC to resolve the issue of on-site OSSM systems. |
| Condition 25 (b) of Schedule 3 | 12 | Provide Council with an updated copy of the DP&E approved BRMP. |

| Condition 29 (c) of Schedule 3 | 13 | Update the ACHMP to include monitoring of all new surface disturbances on site and include an unexpected finds procedure for unidentified Aboriginal objects and submit to DP&E for approval. |
|--------------------------------------|----|---|
| Condition 36 of Schedule 3 | 14 | Consult with DP&E and seek an administrative modification to permit the reprocessing of concrete waste on site. |
| Condition 3 (g) of Schedule 5 | 15 | Update the SWMP and ACHMP to include a procedure for addressing non-compliances. |
| Condition 10 of Schedule 5 | 16 | Upload depositional dust monitoring results and the DP&E approved management plans (when approved) to the Holcim website |
| Condition P1.2 of EPL | 17 | Install a sign at the licenced discharge point from the Main Dam to notify that this location is the discharge point. |
| Condition M1.3 of EPL | 18 | Prepare a field record sheet for environmental monitoring rather than use the chain of custody and include the field sheet as an Appendix to the SWMP. |

Appendices

GHD | Report for Holcim (Australia) Pty Ltd - Jandra Quarry, 21/25447

Appendix A – Compliance with Conditions of Approval



Appendix A

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|-----------------------------------|---|---|
| | SCHEDULE 2 - ADMINISTRATIVE CONTROLS | | | |
| | OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT | | | |
| 1 | In addition to meeting the specific criteria in this consent, the Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that | Compliant | Site observations | Holcim has demonstrated a high degree of compliance against the conditions of this development consent, as described below. |
| | may result from the construction, operation, or rehabilitation of the development. | | | There was no evidence to suggest that Holcim has not implemented all reasonable and feasible measures to prevent and/or minimise material harm to the environment as a result of the project. |
| | | | | The controls specified in the Operational Environmental Management Plans and associated sub-plans were implemented and effective. |
| | | | | At the time of the audit, production has not increased to the production capacity approved by Modification 5. |
| | TERMS OF CONSENT | | | |
| 2 | The Applicant shall carry out the development generally in accordance with the a) previous approvals; | Administrative Non- Compliance | Conditions of Consent and EA sighted. | Holcim has demonstrated a high degree of compliance against the conditions of this development consent, as described below. |
| | b) EA (Mod 5); and c) conditions of this consent. <i>Note: The general layout and stages of the development are shown on the plans in Appendix 1.</i> | | | Holcim was generally carrying out operations in accordance with previous approvals, the EA (Modification 5) and the Conditions of Consent, however a number of non-compliances and administrative non-compliances are detailed in the audit as detailed below. These non-compliances were considered minor in nature as described in this table. |
| | | | | At the time of the audit, production had not increased to the production capacity approved by Modification 5. |
| 3 | If there is any inconsistency between the documents identified in condition 2, the more recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail over all other documents to the extent of any inconsistency. | Not Triggered | N/A | Not applicable. |
| 4 | The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: | Compliant | Letter of submission (31 August 2015), DP&E | A letter of submission of management plans and the EMS to DP&E was sighted (dated 31 August 2015). Further direction from DP&E |
| | a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent; | | response on management plans including Holcim's | included a word document detailing requested updates, this document was sighted and included Holcim's response to the requested changes. DP&E provided a letter dated 14 March 2016, |
| | b) any reviews, reports or audits, commissioned by the Department regarding compliance with this consent; and | | response. | indicating general satisfaction with the EMS, NBMP, AQMP and SWMP; requesting minor edits to the EMS, SWMP and BRMP. |
| | c) the implementation of any actions or measures contained in these documents. | | | |
| | LIMITS OF CONSENT | | | |

Table 1 Compliance with the Development Approval requirements

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|---------------|--|--|
| 5 | The Applicant may carry out quarrying operations on the site until 31 March 2045. | Not Triggered | N/A | Not applicable. |
| | Note: Under this consent, the Applicant is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard. | | | |
| 6 | The Applicant shall not carry out quarrying operations below a level of RL 20 m AHD. | Compliant | Site observations, development plan | During the site visit/interv completed twice a year, p bench heights. If it appea surveyor is engaged to ha with markers sighted duri It was also noted that the in 50,000 tonne segments development plan was sig prepared by Australian M |
| 7 | The Applicant shall not extract more than 16.5 million tonnes of quarry products from the site under this consent. | Compliant | Documentation – Annual Review and Project Environmental Assessment Site interviews | Review of the Jandra Qua Environmental Assessme that at the time of exhibiti and processed approxima produced in the 2015 Rep To track extraction and pu SAP database, Holcim's u and stock, maintenance a monthly (as part of busine Current production to data |
| 8 | The Applicant shall not extract more than 490,000 tonnes of quarry products from the site in any calendar year | Compliant | Documentation – Annual Review Site interviews | The production volume for tonnes. To track extraction and pr SAP database, Holcim's r and stock, maintenance a monthly (as part of busine It was noted during site in producing 350,000 tonnes required to expand extrac |
| 9 | The Applicant shall not transport more than 475,000 tonnes of quarry products from the site in any calendar year. | Compliant | Documentation – Annual Review Site interviews Quarry runsheet | The production volume for tonnes. To track extraction and pr SAP database, Holcim's r and stock, maintenance a monthly (as part of busine Transportation of materia Command that connects each day detailing the tot quarry runsheet was sign locations of where deliver |
| | HOURS OF OPERATION | | | |

erviews, it was stated that a flyover is , providing the depth of the quarry floor and ears that there are any issues, a ground have a look. The site is currently at RL 50, uring the site visit.

ne development plan for the quarry is staged nts and is currently at Stage 5 of 14. The sighted, dated 14 October 2014 and Mine and Development Pty Ltd.

Quarry Intensification in Production ment (Element Environment, 2014) indicates bition (August 2014) Holcim had extracted mately 3 Mt, with an additional 232,028 Reporting Period.

production Jandra Quarry makes use of the s national database for tracking production and inventory. Production is tracked on a iness review) and annual basis.

ate is around 3.3 – 3.4 million tonnes (Mt).

for the 2015 Reporting Period was 232,028

production Jandra Quarry makes use of the s national database for tracking production e and inventory. Production is tracked on a iness review) and annual basis.

interviews that the plant is only capable of nes per year and a mobile crusher would be action and production volume.

for the 2015 Reporting Period was 232,028

production Jandra Quarry makes use of the s national database for tracking production e and inventory. Production is tracked on a iness review) and annual basis.

rial is managed through a system called ts to SAP, providing a report at the end of total number of truck movements. The daily ghted during the site visit, detailing the veries are being made.

| Number | Condition | | | | Compliance | Evidence | Comments |
|--------|---|--|-------------------------|---|-----------------|--|--|
| 10 | The Applicant sha | Il comply with the operating | hours in Table 1. | | Compliant | Documentation – Annual | Review of 2015 Annual R |
| | Day | Extraction and processing operations | Transport operations | Asphalt Plant and associated transport (on a campaign basis | | Review Site interviews | undertaken outside of app are addressed in Table 2 It was noted during the sit |
| | Monday – Friday | 6 am to 10 pm | 6 am to 10 pm | 24 hours a day | | | do not commence until aft prior. It was also noted that decommissioned this year |
| | Saturday | 6 to 6 pm | 6 am to 10 pm | 24 hours a day | | | used for the Bulahdelah B |
| | Sundays and Public Holidays | Non | None | 24 hours a day | | | |
| | The following activ | vities may be carried out on | the site outside the | | | | |
| | a) return of trucks | to the site prior to 12 midni | ght Monday to Satu | | | | |
| | b) delivery or disp authorities; an | patch of materials as reques | ted by Police, Fire E | | | | |
| | c) emergency wo | rk to avoid the loss of lives, | property and/or to p | | | | |
| | | outlined in (b) and (c), the A undertaking the activities, or | | | | | |
| | STRUCTURAL AL | DEQUACY | | | | | |
| 11 | | II ensure that all new buildir gs and structures, are constr le BCA. | | Not Triggered | N/A | Not applicable. No new bu | |
| | DEMOLITION | | | | | | |
| 12 | | Il ensure that all demolition I-2001: The Demolition of S | | n accordance with Australian st version | Not Triggered | N/A | Not applicable. No demoli |
| | PROTECTION OF | F PUBLIC INFRASTRUCTU | IRE | | | | |
| 13 | The Applicant sha | II: | | | Compliant | Site interviews. | Holcim advised that there |
| | (a) repair, or pay t damaged by the d | he full costs associated with levelopment; and | n repairing, any publ | | Site inspection | infrastructure or utilities to operations. | |
| | | y the full costs associated w a result of the development | | | | | |
| | Note: This condition usage. | on does not apply to damag | e to roads caused a | s a result of general road | | | |
| | OPERATION OF | PLANT AND EQUIPMENT | | | | | |

I Review indicates no activities were approved operating hours. Operating hours a 2 of the EMS.

site interview that extraction and processing after 7.00 am, with toolbox talks undertaken that the mobile asphalt plant was ear and is no longer on-site. It was only h Bypass which is now complete.

buildings since DA.

olition since DA.

ere has not been any damage to public to date associated with the quarry

| Condition | Compliance | Evidence | Comments |
|--|--|--|---|
| The Applicant shall ensure that all the plant and equipment used at the site is maintained and operated in a proper and efficient manner. | Compliant | Maintenance Plan Plant maintenance record sample Site interviews Pre-start checklists | During the site interviews, monthly inspections of pla checklists for each. A main office detailing "who, what inspections, tasks are allo maintenance day a form is the Site Supervisor and go A plant maintenance record It was noted during site inf tracked on a weekly basis are completed on-site by a Further, it was noted to mit there is a maintenance pro- inspections completed on During the site visit, copy of sighted which detailed the machine it was, and provid comments section from th In regard to training, it was level 1 environmental indu was also noted to be under response training sessions The Quarry Manager note Annual Return for 1 May 2 PIRMP was tested in Sept |
| STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM | | | |
| With the approval of the Secretary, the Applicant may: (a) submit any strategy, plan or program required by this consent on a progressive basis; and (b) combine any strategy, plan or program required by this consent with any similar strategy, plan or program required for the development. To ensure these strategies, plans or programs are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval. Notes: While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times. If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program. | Compliant | Documentation – Letter of submission | All management plans req submitted on or before the |
| - | operated in a proper and efficient manner. STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM With the approval of the Secretary, the Applicant may: (a) submit any strategy, plan or program required by this consent on a progressive basis; and (b) combine any strategy, plan or program required by this consent with any similar strategy, plan or program required by this consent with any similar strategy, plan or program required by this consent with any similar strategy, plan or program required by this consent with any similar strategy, plan or program required by this consent with any similar strategy, plan or program required for the development. To ensure these strategies, plans or programs are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval. Notes: While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times. If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program for the relationship of this stage to any future stages, and the trigger | operated in a proper and efficient manner. Compliant STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM Image: Compliant With the approval of the Secretary, the Applicant may: (a) submit any strategy, plan or program required by this consent on a progressive basis; and (b) combine any strategy, plan or program required by this consent with any similar strategy, plan or program are updated on a regular basis, the Applicant may any time submit revised strategies, plans or programs are updated on a regular basis, the Applicant may any time submit revised strategies, plans or programs to the Secretary for approval. Compliant Notes: While any strategy, plan or program may be submitted on a progressive basis, the Applicant may it nees use that the existing operations on site are covered by suitable strategies, plans or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or program may be strategies to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program may be strategies, plans or | operated in a proper and efficient manner. Maintenance in a proper and efficient manner. Maintenance in a proper and efficient manner. Plaint maintenance in a proper and efficient manner. StrageD submission of ANY STRATEGY, PLAN OR PROGRAM Site interviews Pre-start checklists STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM Image: strategy and s |

rs, it was stated that daily, weekly and blant and equipment are undertaken with aintenance plan was sighted in the main at, when and where". From the monthly located and necessary parts ordered. The is signed off by the Quarry Manager and goes into a spreadsheet to track history.

cord was sighted during the site visit.

interviews that hours for equipment are sis for annual servicing requirements, which y a qualified diesel mechanic on-site. minimise the risk of hydraulic hose failures, program for hydraulic hoses, with on a weekly basis.

y of pre-start checklists for machines were ne start date, operating hours, what vided a checklist of requirements and a the operator.

vas noted that initial inductions include a duction. Environmental awareness/training dertaken during toolbox talks, spill kit ons.

ted the PIRMP is tested each year. The / 2014 to 30 April 2015 indicated the eptember 2014.

equired by the Project Approval were he due date for submission.

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|-----------------------------------|---|--|
| 16 | Prior to 31 August 2015, the Applicant shall: (a) engage a registered surveyor to mark out the boundaries of the approved area of extraction and the boundaries of the approved infrastructure area; and (b) submit a survey plan of these boundaries to the Secretary. | Administrative Non- Compliance | Documentation – Annual Review Site interviews | The 2015 Annual Review was completed in 2010, w surveyors McGlashan & C modification did not chang The survey was submitted Review, outside the 31 Au During the site interviews, by DP&E and that the plan |
| 17 | The Applicant shall ensure that these boundaries are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify the location of these boundaries and that quarrying operations are contained within the approved areas. | Compliant | Site interviews Site inspection | During the site interview it out to the Holcim boundar site). Markers indicating the site visit. |
| | PRODUCTION DATA | | | |
| 18 | The Applicant shall provide annual quarry production data to DRE using the standard form for that purpose; and report these data in the Annual Review (see condition 4 of Schedule 5). | Administrative Non- Compliance | Site interviews | It was noted during the sit Annual Review, the produ Department of Industry Di and that this would be follo Recommendation 01: En provided to DRE using the |
| | SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS | | | |
| | NOISE – Noise Criteria | | | |

ew notes that a survey of the extraction limit , with a survey plan from registered & Crisp provided. It was noted that the 2015 ange the extraction limit.

ted to DP&E as part of the 2015 Annual August 2015 due date.

ws, it was noted that no issues were raised blan had previously been supplied to DP&E.

w it was noted that Jandra Quarry is marked dary marking standard (required for every

site boundary were observed during the site

site interview that, while data is reported in oduction data has not been reported to Division of Resources and Energy (DRE) followed-up.

Ensure annual quarry production data is the standard form.

| Number | Condition | | | | | Compliance | Evidence | Comments |
|--------|---|---|---|--|------------------------------|--------------|---|--|
| 1 | criteria in Table 2 | 2 or Table 3 at any | residence on priv | ately-owned lar | nent does not exceed the nd. | Not verified | Documentation – Annual Review, Signed Noise Agreement | Holcim advised that noise the quarry as they are awa this audit. |
| | | | arrying operations only dB(A) 6 am – 10 pm (L _{Aeq(15 min)}) | | | | | It was noted during the site agreement with the neares |
| | | R1 | 46 | | | | | agreement dated 31 Janua |
| | | R5 | 40 | | | | | Recommendation 02: Co practicable to enable effect |
| | | R2, R4, R6 | 36 | | | | | may occur. |
| | | R7 | 35 | | | | | |
| | | | | | | | | |
| | Table 3 – Noise | criteria – quarrying | g operations & asp | halt plant produ | uction combined dB(A) | _ | | |
| | Location | | 6 am – 10 pm (L _{Aeq(15 min)}) | 10 pm – 6 | am | _ | | |
| | | | | (L _{Aeq(15 min})) | | _ | | |
| | R1 4 | | 48 | 46 | 51 | _ | | |
| | R5 4 | | 41 | 39 | 51 | _ | | |
| | | | 40 | 39 | 51 | _ | | |
| | | | 40 | 35 | 48 | _ | | |
| | R7 36 | | 36 | 35 | 48 | | | |
| | • Condition 10 Noise generated requirements of t Appendix 3 detai requirements for However, these owner/s of the re advised the Depa | o of Schedule 2 pro by the developme the NSW Industria ils the meteorologi evaluating compli criteria do not appl elevant residence of artment in writing of | on the figure in App ohibits quarrying op ent is to be measur I Noise Policy (as in cal conditions und ance with these cr In the Applicant h or land to generate of the terms of this | perations during ed in accordan may be update er which these iteria. has a negotiate higher noise le | | | | |
| | NOISE – Additio | nal Noise Mitigatic | on Upon Request | | | | | |
| 2 | Upon receiving a written request from the owner of any residence on property R1 the Applicant shall implement additional noise mitigation measures (such as double glazing, insulation, or air conditioning) at the residence in consultation with the owner. These measures must be reasonable and feasible and directed towards reducing the noise impacts of the project on the residence. If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution. | | | | | r | N/A | Not applicable, no request |
| | However, the ob has a negotiated noise mitigation | ligation to impleme l agreement with the measures under the | ent noise mitigatior ne owner/s of the r ne terms of this cor of this agreement. | n measures doe elevant residen | nt | | | |

se monitoring is not currently undertaken at waiting final approval of the EMS following

site inspection that the site has an rest landowner in regard to noise, with the nuary 2015.

Commence noise monitoring as soon as fective management of exceedances that

est has been received.

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|-----------------------------|---|---|
| | NOISE – Operating Conditions | | | |
| 3 | The Applicant shall: (a) implement best practice management to minimise the construction, operational and transportation noise of the development; | Non-Compliant (Low Risk) | Documentation – NBMP Site interviews | Holcim have not complied with this condition as noise monitoring is not undertaken for the quarry operations. Holcim advised they were awaiting final approval of the EMS following this audit prior to commencing monitoring. |
| | (b) minimise the noise impacts of the development during meteorological conditions when the noise limits in this consent do not apply (see Appendix 3); | | | The risk level associated with this non-compliance is considered low for the following reasons: |
| | (c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent; and | | | • There is one sensitive receiver located within close proximity to the quarry operations and the receiver has signed a noise |
| | (d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent, | | | agreement relating to the quarry operations. |
| | to the satisfaction of the Secretary. | | | Holcim advised that there have been no noise complaints associated with the operations. |
| | | | | It is noted however that: |
| | | | | Noise management and mitigation measures are detailed in the NBMP. |
| | | | | Correspondence from the DP&E dated 14 March 2016 indicates the Secretary was satisfied the NBMP generally meets the requirements of the Project Approval. |
| | | | | The Quarry Manager advised that noise impacts are reviewed during adverse meteorological conditions |
| | | | | It was noted during the site interviews that: |
| | | | | all machines run with residential mufflers. |
| | | | | Meteorological conditions are reviewed prior to blasting |
| | | | | Boundary 'audible noise' checks are undertaken to check if noise is audible |
| | | | | Holcim has received no noise complaints to date |
| 4 | The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: | Compliant | Documentation – Letter of Submission | Sighted letter of submission to the Secretary of DP&E dated 31 August 2015. |
| | (a) be submitted to the Secretary for approval by 31 August 2015; | | | Correspondence from the DP&E dated 14 March 2016 indicates the Secretary was satisfied the NBMP generally meets the requirements of the Project Approval. |
| | (b) describe the measures that would be implemented to ensure: | Compliant | Documentation – NBMP | Noise control measures were detailed in Section 7.0 of the NBMP. |
| | compliance with the noise criteria in this consent; | | | |
| | best management noise minimisation practice is employed on site; | | | |
| | noise emissions from trucks on the site after 10 pm do not annoy neighbouring residents; and | | | |
| | • the noise impacts of the development are minimised during any meteorological conditions when the noise limits in this consent do not apply; and | | | |

| Number | Condition | | | Compliance | Evidence | Comments | |
|--------|--|---|-------------------------------|---|----------------------|--|--|
| | (c) detail a monitoring program against the noise criteria in Tab | | | Compliant | Documentation – NBMP | Noise monitoring program NBMP. | |
| | includes quarterly attended the development, as shown place within a 24 hour asph quarter), and thereafter ann | n in the three figures nalt campaign, if any | s in Appendix y such camp | | | | |
| | evaluates and reports on th | e effectiveness of t | he noise ma | | | | |
| | BLASTING – Blasting Impact A | ssessment Criteria | | | | | |
| 5 | The Applicant shall ensure that Table 4. | blasting on site doe | es not cause | any exceedance of the criteria in | Compliant | Documentation – Monitoring Data. | Blast monitoring results w and are publically availab (http://www.holcim.com.a |
| | Table 4: Blasting criteria | 1 | T | 1 | | Site interviews. | monitoring-data.html). No |
| | Location | Airblast overpressure (dB(Lin Peak)) | Ground vibration (mm/s) | Allowable exceedance | | | 2015 reporting period. It was noted during the sit location was at the neares |
| | Any residence on privately | 120 | 10 | 0% | | | indicate there will be no is blasting. |
| | owned land, or any public infrastructure | 115 | 5 | 5% of the total number of blasts over a period of 12 months | | | |
| | However, these criteria do not a owner to exceed the limits in Ta of the terms of this agreement. | | | | | | |
| | BLASTING – Blasting Hours | | | | | | |
| 6 | The Applicant shall only carry o and 9 am to 3 pm Saturday. No other time without the written ap | blasting is allowed | on Sundays | | Compliant | Site interviews. Documentation – Daily blasting checklist, | It was noted during the sit compliance with this cond supporting this. |
| | | | | | monitoring data. | Sighted daily blasting che shotfirer, shot number, we shotfirer to sign off on, sp shotfirer's licence number | |
| | | | | | | It was noted during the sit equipment to site when bl site. | |
| | BLASTING – Blasting Frequence | су | | | | | |
| 7 | The Applicant may carry out a r apply to blasts required to ensu | | | on site. This condition does not orkers on site. | Compliant | Documentation – Monitoring Data | Review of blast monitoring (http://www.holcim.com.a |
| | Note: For the purposes of this of a number of individual blasts fir | | | | | monitoring-data.html) indi | |
| | BLASTING – Operating Conditi | ions | | | | | |
| 8 | The Applicant shall: | | | | | | |

| m was detailed in Section 8.1.1 of the |
|--|
| |
| |
| |
| were reported in the 2015 Annual Review ble on the Holcim website <u>au/sustainability/environment/pollution-</u> lo exceedances were recorded during the |
| site interviews that the blast monitoring est resident. Historical monitoring results issue in relation to exceedances from |
| |
| |
| |
| site interview that blasting was in |
| ndition, with review of monitoring records |
| necklist detailing: time of blast, day, veather conditions and checklist for |
| pace for comments by shotfirer, details er and signed off by the Quarry Manager. |
| site interview that the shotfirer brings blasting and no explosives are stored on |
| |
| ng results on the Holcim website au/sustainability/environment/pollution- dicates compliance with this condition. |
| |
| |
| |

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|-----------------------------------|--|---|
| | (a) implement best management practice to: protect the safety of people and livestock in the areas surrounding blasting operations, protect public or private infrastructure/property in the surrounding area from damage from blasting operations; protect the Pacific Highway from flyrock from blasting operations; and minimise the dust and fume emissions of any blasting; | Compliant | Documentation – NBMP | Controls to minimise impacts of blasting were detailed in Section 7.0 and Appendix A of the NBMP. Holcim advised that there have been no complaints with regard to blasting. This could not be confirmed by site observations as no blasting was being undertaken at the time of the audit. |
| | (b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site; and | Compliant | Documentation – NBMP Site interviews | The Blast Management Procedure (Appendix A of the NBMP) includes the requirement that, prior to loading a shot, verbal notification will be given to neighbours advising them of the approximate time of the blast with Appendix 4 of the Blast Management Procedure providing their contact details. During the site interviews it was noted that, should a neighbour be unable to be contacted, a message is left and a follow-up call made. Recommendation 03: Advise neighbours of blasting via a group email or text message, in addition to a phone call. |
| | (c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, | Compliant | Documentation – NBMP | Monitoring is undertaken in accordance with the Blast Management Procedure in the NBMP. Blast monitoring results were reported in the 2015 Annual Review and are publically available on the Holcim website (http://www.holcim.com.au/sustainability/environment/pollution- monitoring-data.html). No exceedances were recorded during the 2015 reporting period. |
| | to the satisfaction of the Secretary. | Compliant | Documentation – Letter from DP&E | Correspondence from the DP&E dated 14 March 2016 indicates the Secretary was satisfied the NBMP generally meets the requirements of the Project Approval. |
| | BLASTING – Blast Management Plan | | | |
| 9 | The Applicant shall prepare and implement a Blast Management Plan for the development to the satisfaction of the Secretary. This plan must: | Compliant | Documentation – Letter from DP&E | Correspondence from the DP&E dated 14 March 2016 indicates the Secretary was satisfied the NBMP generally meets the requirements of the Project Approval. |
| | (a) be submitted to the Secretary for approval by 31 August 2015; | Compliant | Documentation – Letter of Submission | Sighted letter of submission to the Secretary of DP&E dated 31 August 2015. |
| | (b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent; | Compliant | Documentation – NBMP | Blast control measures were detailed in Section 7 of the NBMP. |
| | (c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent; | Compliant | Documentation – NBMP | Blast monitoring program was detailed on Section 8.1.2 of NBMP. |
| | (d) include a blast fume management protocol to demonstrate how emissions will be minimised including risk management strategies if blast fumes are generated; | Administrative Non- Compliance | Documentation – NBMP, Blast Fume Code of Practice Site interviews | While the NBMP includes a Blast Management Procedure as Appendix A to the NBMP, it does not include a Blast Fume Management Protocol. However, it was noted during site interviews that the site has a Blast Fume Code of Practice which is available on-site via USAFE. The blast fume code of practice was sighted during the audit Recommendation 04: Update the NBMP to include a reference to the Blast Fume Code of Practice (available on site via USAFE), or this be included as an appendix to the NBMP. |

| Number | Condition | | | | Compliance | Evidence | Comments | |
|--------|--|---|---|------------------------------------|--|-----------------------------|--|---|
| | (e) include public notifi | cation procedures on the | e blasting s | chedule; and | | Compliant | Documentation – NBMP | The Blast Management P includes the requirement to notification will be given to approximate time of the b Management Procedure p During the site interviews unable to be contact, a mo Refer to Recommendation |
| | (f) include a protocol fo | or investigating and respo | ondina to c | complaints. | | Compliant | Documentation – NBMP | Section 8.4 of the NBMP. |
| | | uality Impact Assessmen | | P | | | | |
| 10 | The Applicant shall en are employed so that p exceedances of the cri | sure that all reasonable a particulate matter emission iteria listed in Tables 5, 6 pact assessment criteria | and feasibl ons genera 3 and 7 at a | ited by the dev any residence o | elopment do not cause | Non-Compliant (Low Risk) | Documentation- AQMP and Annual Review, monthly boundary check (19 April 2016) | Holcim have not complied monitoring is not undertak advised they were awaitin audit prior to commencing |
| | Pollutant | · | | Averaging Period | ^d Criterion | | | The risk level associated to low for the following reason |
| | Total suspended pa | rticulate (TSP) Matter | | Annual | ^a 90 µg/m ³ | | | There is only one sen proximity to the quarty |
| | Particulate Matter < | • • • • • • • | | Annual | | | Depositional dust mor assessment criteria. | |
| | Table 6: Short-term im | pact assessment criteria | for particu | llate matter | | | | Holcim advised that a |
| | Pollutant | | | Averaging Period | ^d Criterion | | | installed in the next m |
| | Particulate Matter < | 10µm (PM ₁₀) | | ^a 50 μg/m ³ | | | | Holcim advised that the associated with the optimized with the optimized sector. |
| | Table 7: Long-term im | pact assessment criteria | for deposi | ted dust | | | Holcim advised that : | |
| | Pollutant | Averaging Period | | m increase sited dust | Maximum total deposited dust level | | | boundary checks verify if dust is vis check for April, da site visit. |
| | ^C Deposited dust | Annual | ^b 2 gm/m | n ² /month | ^a 4 gm/m ² /month | | | VGT is contracted |
| | Notes for Tables 5 to 7 | | | | | | | monitoring and pr completed by the |
| | | cremental increase in con tions due to all other sou | | s due to the de | evelopment plus | | | |
| | b incremental impact (own); | i.e. incremental increase | in concen | trations due to | the development on its | | | Recommendation 05: Co PM10 monitoring location practicable to ensure effect |
| | AS/NZS 3580 10 1:20 | be assessed as insolub 03: Methods for Samplin posited Matter - Graving | g and Anal | lysis of Ambien | | | exceedance occur. | |
| | | ary events such as busht ies or any other activity a | | | | | | and location of the PM10 |
| | AIR QUALITY - Odour | - | | | | | | |

| Procedure (Appendix A of the NBMP) In that, prior to loading a shot, verbal to neighbours advising them of the e blast with Appendix 4 of the Blast e providing their contact details. It was noted that, should a neighbour be message is left and a follow-up call made. Atton 03. P. ed with this condition as particulate matter taken for the quarry operations. Holcim ting final approval of the EMS following this ng monitoring. d with this non-compliance is considered isons: ensitive receiver located within close arry operations. nonitoring is undertaken and is within the t. t a PM10 monitor was planned to be month (June 2016). t there have been no air quality complaints operations. es were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation 0 monitor following installation | |
|--|--|
| message is left and a follow-up call made. ation 03. P. ed with this condition as particulate matter taken for the quarry operations. Holcim ting final approval of the EMS following this ng monitoring. d with this non-compliance is considered asons: ensitive receiver located within close arry operations. nonitoring is undertaken and is within the t. t a PM10 monitor was planned to be month (June 2016). t there have been no air quality complaints operations. As were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | nt that, prior to loading a shot, verbal to neighbours advising them of the a blast with Appendix 4 of the Blast |
| ed with this condition as particulate matter taken for the quarry operations. Holcim ting final approval of the EMS following this ing monitoring. d with this non-compliance is considered asons: ensitive receiver located within close arry operations. nonitoring is undertaken and is within the t. t a PM10 monitor was planned to be month (June 2016). t there have been no air quality complaints operations. ks were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | message is left and a follow-up call made. |
| ed with this condition as particulate matter taken for the quarry operations. Holcim ting final approval of the EMS following this ing monitoring. d with this non-compliance is considered asons: ensitive receiver located within close arry operations. nonitoring is undertaken and is within the t. t a PM10 monitor was planned to be month (June 2016). t there have been no air quality complaints operations. ks were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | Ρ. |
| taken for the quarry operations. Holcim ting final approval of the EMS following this ng monitoring. d with this non-compliance is considered asons: ensitive receiver located within close arry operations. nonitoring is undertaken and is within the a. t a PM10 monitor was planned to be month (June 2016). t there have been no air quality complaints operations. ks were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | |
| Asons: ensitive receiver located within close arry operations. nonitoring is undertaken and is within the t. t a PM10 monitor was planned to be month (June 2016). t there have been no air quality complaints operations. ks were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | aken for the quarry operations. Holcim ting final approval of the EMS following this |
| arry operations. nonitoring is undertaken and is within the t a PM10 monitor was planned to be month (June 2016). t there have been no air quality complaints operations. As were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | • |
| a PM10 monitor was planned to be month (June 2016). t there have been no air quality complaints operations. ks were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | |
| month (June 2016). t there have been no air quality complaints operations. ks were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review he Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | • |
| operations. As were undertaken on a monthly basis to visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review the Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | |
| visible from site. The monthly boundary dated 19 April 2016, was sighted during the ted to undertake dust depositional gauge provide data monthly; with a review ne Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | |
| provide data monthly; with a review ne Quarry Manager. Confirm DP&E's approval of proposed ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | visible from site. The monthly boundary |
| ons and commence monitoring as soon as fective management should any Advise DP&E in writing of the installation | provide data monthly; with a review |
| | ons and commence monitoring as soon as |
| | |
| | |

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|-----------------------------|---|--|
| 11 | The Applicant shall not cause or permit the emission of offensive odour beyond the boundaries of the site. | Compliant | Documentation- AQMP and Annual Review | The 2015 Annual Review of or complaints for the report Management Plan (AQMP measures in regard to odo |
| | AIR QUALITY – Operating Conditions | | | |
| 12 | The Applicant shall: (a) implement best practice management to minimise the odour and dust emissions of the development; | Compliant | Documentation- AQMP | Section 7.0 of the AQMP. |
| | (b) carry out regular air quality monitoring to determine whether the development is complying with the relevant conditions of this consent; | Non-compliant (Low Risk) | Documentation- AQMP, Annual Review, Dust Deposition monitoring data Site interviews | Refer to Condition 10. |
| | (c) regularly assess air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent; | Compliant | Documentation- AQMP and Annual Review Site interviews | Air quality monitoring data depositional gauges. The the monitoring and the Qua have been no exceedance date. The Quarry Manager advis management measures ind down the plant and suppre implemented to reduce dua advised that quarry operati to concerns relating to dua |
| | (d) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see noted under Table 7); and | Compliant | Documentation- AQMP and Annual Review | Section 7.0 of the AQMP of blasting during unsuitable winds) and watering of hau Refer to Condition 15 belo |
| | (e) minimise the area of surface disturbance and maximise progressive rehabilitation of the site, | Compliant | Documentation- AQMP and Annual Review | Section 7.0 of the AQMP in rehabilitation of disturbed a accordance with the BRMF overburden emplacement stages of the Project. The 2015 Annual Review r southern benches (RL 62 a reporting period. Evidence of progressive re visit (19 May 2016). |
| | AIR QUALITY – Quarry-owned Land | | | |

| v did not identify any odour related issues |
|---|
| orting period. Section 7.0 of the Air Quality |
| IP) includes monitoring and mitigation |
| dour. |

| J | | |
|---|--|--|
| - | | |
| | | |

ta is currently limited to data from dust ne data is reviewed by VGT who undertake Quarry Manager. Holcim advised that there ices of the air quality criteria for dust to

vised that during high wind days dust including wetting down rock, watering pression on the dry side of the plant are dust generation. The Quarry Manager rations have not been stopped to date due lust generation.

O details the restriction of drilling and le meteorological conditions (e.g. high naul roads and stockpiles.

elow.

P includes requirements to undertake
 d areas as soon as practicable in
 MP and maintaining the active pit and
 nt area to the minimum size during all

w notes progressive rehabilitation of the 2 and RL 74) was undertaken during the

rehabilitation was sighted during the site

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|-----------------------------------|---|--|
| 13 | The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Tables 5, 6, and 7 at any occupied residence on quarry-owned land unless: | Administrative Non- Compliance | Documentation – Checklist of Preventative Maintenance. Site interviews | Holcim advised that on wa down and three dust colle operated Holcim advised months |
| | (a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent; | | | Sighted checklist for preve which notes whether item: |
| | (b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice; | | | Holcim advised that there the site boundary in additi |
| | (c) air quality monitoring is regularly undertaken to inform the tenant of the actual particulate emissions at the residence; and | | | occupies a second proper correspondence has not b potential health risks as re |
| | (d) data from this monitoring is presented to the tenant in an appropriate format for a medical practitioner to assist the tenant in making informed decisions on health risks associated with occupying the property, | | | Recommendation 07: No associated with exceedan accordance with Condition |
| | to the satisfaction of the Secretary. | | | |
| | AIR QUALITY – Air Quality Management Plan | | | |
| 14 | The Applicant shall prepare and implement an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must: | Compliant | Documentation – Letter from DP&E | Correspondence from the the Secretary was satisfie requirements of the Proje |
| | (a) be submitted to the Secretary for approval by 31 August 2015; | Compliant | Documentation – Letter of Submission | Sighted letter of submission August 2015. |
| | (b) describe the measures that would be implemented to ensure: compliance with the relevant conditions of this consent; best practice management is employed; and the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; | Compliant | Documentation – AQMP | Air quality management a Section 7.0 of the AQMP, management in regard to greenhouse gas production enquiries, and completion The air quality monitoring consideration of the Austr Methods for Sampling and of Particulate Matter - Dep DEC (2007) guideline App Analysis of Air Pollutants Section 7.0 details the res unsuitable meteorological of haul roads and stockpil |
| | (c) describe the proposed air quality management system; and | Compliant | Documentation – AQMP | Air quality management a Section 7.0 of the AQMP. |
| | (d) include an air quality monitoring program that: is capable of evaluating the performance of the development; includes a protocol for determining any exceedances of the relevant conditions of consent; effectively supports the air quality management system; and evaluates and reports on the adequacy of the air quality management system. | Compliant | Documentation – AQMP | Air quality monitoring and Section 8.2 of the AQMP, AQMP is detailed in Section |
| | AIR QUALITY – Meteorological Monitoring | | | |

warm weather days the rock material is wet ollectors installed within the plant are ed the dust collectors are serviced every 6

eventative maintenance dated 18/03/2016, ems are operating as they should.

ere is one tenant occupying a property within ditional to the Quarry Manager who perty. Holcim advised that formal of been provided to the tenant in relation to a required by Condition 13 (a).

Notify the tenant of potential health risks lances of particulate matter criteria in tion 13(a).

he DP&E dated 14 March 2016 indicates fied the AQMP generally meets the pject Approval.

ssion to the Secretary of DP&E dated 31

t and mitigation measures are detailed in IP, while Section 8.0 details compliance to inspections monitoring, training, ction, management of complaints and on of internal audits.

ng program has been developed in stralian Standard (*AS/NZS 3580.10.1:2003:* and Analysis of Ambient Air – Determination Deposited Matter - Gravimetric Method) and Approved Methods for the Sampling and ts in New South Wales

restriction of drilling and blasting during cal conditions (e.g. high winds) and watering piles.

t and mitigation measures are detailed in IP.

nd exceedance reporting is detailed in IP, while the continuous improvement of the action 9.1.

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|-----------------------------|--|--|
| 15 | For the life of the development, the Applicant shall ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline. | Non-Compliant (Low Risk) | Documentation – Annual Review Site interviews | Holcim have not complied with this Condition as the Jandra Quarry does not operate a meteorological station on site or have access to one in the nearby vicinity. Holcim proposed the use of the Taree Airport meteorological station, but this was not supported by the DP&E. The non-compliance is considered low risk as: Meteorological data from Taree Airport is utilised to implement appropriate controls. There is one sensitive receiver within close proximity to the quarry. Air and noise impacts were being managed as detailed in Condition 3, 10 and 12 above. Holcim advised that a weather station is proposed to be installed at the Main Dam and quotes for the installation of the station have been received. Recommendation 08: Following installation of the meteorological station, provide written notification to DP&E. |
| | AIR QUALITY – Greenhouse Gas Emissions | | | |
| 16 | The Applicant shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site. | Not verified | Documentation – 2013/2014 NPI Report Site interviews | It was noted during the site interviews that NPI data is reported annually (sighted the 2013/2014 NPI report completed by Enviro Risk) and completion of NGERs (also completed by Enviro Risk). |
| | SOIL AND WATER – Water Supply | | | |
| 17 | The Applicant shall ensure it has sufficient water for all stages of the development, and if necessary, adjust the scale of quarrying operations to match the available water supply. | Not Triggered | N/A | Not applicable – milestone not reached. |
| | SOIL AND WATER – Surface water Discharges | | | |
| 18 | The Applicant shall ensure that all surface water discharges from the site comply with the discharge limits in any EPL which regulates water discharges from the site, or with section 120 of the POEO Act. | Compliant | | Review of the 2015 Annual Review indicates discharge was undertaken once in 2015 on 1 April 2015, in accordance with the EPL requirements. No exceedance was recorded. |
| | SOIL AND WATER – Soil and Water Management Plan | | | |

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|------------|---------------------------------------|--|
| 19 | The Applicant shall prepare and implement a Soil and Water Management Plan for the development to the satisfaction of the Secretary. This plan must be prepared in consultation with the Council and NOW, by suitably qualified and experience person/s whose appointment has been approved by the Secretary, and be submitted to the Secretary for approval by 31 August 2015. | Compliant | Documentation – Letters of Submission | Holcim prepared a SWMP in consultation with NSW Office of Water (NOW) (now DPI Water) and Greater Taree City Council (TCC). Sighted letters to the DPI Water and GTCC requesting review and comment on the draft Surface Water Management Plan (SWMP) dated 1 September 2015. |
| | In addition to the standard requirements for management plans (see condition 3 of Schedule 5) this plan must include a: | | | Response emails/letter from TCC and DPI Water were sighted, dated 15 and 21 September 2015, respectively. It is noted this is after the required due date of submission to the Secretary of DP&E. Comments from DPI Water and TCC are included in Section 4.0 of the SWMP. Sighted letter of submission to the Secretary of DP&E dated 31 August 2015. |
| | | | | Correspondence from the DP&E dated 14 March 2016 indicates the Secretary was satisfied the SWMP generally meets the requirements of the Project Approval, however minor amendments were requested. It was not clear at the time of the audit what the status of the final SWMP was or whether the DP&E comments have been addressed. |
| (; | (a) Site Water Balance that: | Compliant | Documentation – SWMP | Site Water Balance details are addressed as follows: |
| | includes details of: | | | • sources and security of water supply addressed in Section 6.2 |
| | sources and security of water supply including contingency planning to ensure demand will be met under all climatic conditions. | | | of the SWMP. |
| | - the site water storage capacity and licensing requirements for all stages of the | | | site water storage capacity addressed in Section 6.3 of the SWMP. |
| | development, | | | water use and management addressed in Section 6.1 of the |
| | - water use and management on site; | | | SWMP. |
| | (b) Surface Water Management Plan that includes: | Compliant | Documentation – SWMP | Surface water management (including clean water diversion and |
| | • a detailed description of the surface water management system for the development, including the: | | | erosion and sediment controls) and onsite water storage for each stage of development are detailed in Sections 5.1 and 6.2.5 of the SWMP respectively. |
| | - clean water diversion system; | | | |
| | - erosion and sediment controls; and | | | |
| | - the water storages required for each stage of the development; | | | |
| | identification of all reasonable and feasible measures to improve the quality of surface water on the site, particularly those measures required to improve the water quality in the main dam, and a timeframe for the implementation of any identified improvements; | Compliant | Documentation – SWMP | Environmental control measures for improving the quality of surface water (including in the main dam) and the timeframe for implementation were detailed in Section 8.0 of the SWMP. |
| | the measures that would be implemented to minimise water use on site; | Compliant | Documentation – SWMP | Measures that would be implemented to minimise water use on site were address in Section 8.0 of the SWMP. |
| | surface water impact assessment criteria, | Compliant | Documentation – SWMP | Environmental impacts associated with the Project were detailed in Section 7.2 of the SWMP, while Table 9 of the SWMP details the discharge water quality criteria. |

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|-----------------------------------|--|---|
| | a program to monitor surface water quality, and | Compliant | Documentation – SWMP | Table 9 of the SWMP details the discharge water quality criteria, monitoring frequency, and the sampling and analytical methods. While management measures are detailed in Section 10 to ensure compliance with water quality objectives. |
| | | | | Table 8 – Environmental Control & Mitigation Measures refers to other documentation not included in the SWMP in relation to water quality monitoring (e.g. Attachment 4.1H – Environmental Monitoring Worksheet). |
| | | | | Recommendation 09: Update the SWMP to include details of documentation referred to in Table 8 of the SWMP, or include Attachment 4.1H as an Appendix to the SWMP. |
| | a plan to respond to any exceedances of the performance criteria, and mitigate any adverse surface water impacts of the development; and | Administrative Non- Compliance | Documentation – SWMP, Letter from DP&E | The SWMP does not include requirements, or a plan, in relation to the investigation and reporting of exceedance of performance criteria. |
| | | fc p | Recommendation 10: Update the SWMP to include requirements for the investigation and reporting of exceedances of water quality performance criteria in accordance with Condition 6 of Schedule 5 of DA 213-10-99. | |
| | reporting procedures. | Administrative Non- Compliance | Documentation – SWMP, Letter from DP&E | The SWMP does not include requirements relating to incident reporting associated with exceedances of monitoring criteria |
| | | | DF&E | Refer to Recommendation 10. |
| | SOIL AND WATER – On-site Sewage Management | | | |
| 20 | The Applicant shall manage on-site sewage to the satisfaction of Council and the EPA. | Not verified | | GTCC advised through correspondence for the audit that the historic On-Site Sewer Management (OSSM) Systems may not be approved by Council. Holcim advised that an application for approval of the OSSM was provided to GTCC but had not yet been approved. |
| | | | | Holcim advised that the EPA has not raised any issues with regard to on-site sewage management. |
| | | | | Recommendation 11: Liaise with GTCC to resolve the issue of on-site OSSM systems. |
| | BIODIVERSITY AND REHABILITATION – Biodiversity and Rehabilitation Objectives | | | |

15

| Number | Condition | | Compliance | Evidence | Comments |
|--------|---|---|---------------|---|--|
| 21 | The Applicant shall implen satisfaction of the Secreta | nent a biodiversity offset strategy and rehabilitate the site to the iry, in accordance with the rehabilitation strategy in the documents hedule 2 and the objectives in Table 8. Rehabilitation Objectives Objective Safe, stable and non-polluting Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and has minimal visual impact when viewed from surrounding land. Conserved and enhanced with native, endemic vegetation. Containing self-sustaining ecosystems. | Compliant | Documentation – BRMP, Agency correspondence Letter to DP&E dated 31 March 2016 Site interviews. | Correspondence provided 2016 indicates a Section 8 the requirements of this co A Biodiversity and Rehabil developed for the quarry. It is noted that: • Table 4.1 in Section 4. and objectives identifie Table 4.1 includes a ra measures to meet thes • Section 3.2 of the BRN for the Project has not Section 3.2.1 identifies |
| | Surface infrastructure | Decommissioned and removed, unless the Secretary agrees otherwise. | | | |
| | Quarry benches | • Landscaped and vegetated using native tree and understorey species, to minimise the visual impact of the quarry. | | | |
| | Quarry pity floor | Landscaped and revegetated using native tree and understorey species. | | | |
| | BIODIVERSITY AND REP | HABILITATION – Progressive Rehabilitation | | | |
| 22 | following disturbance. All r area exposed for dust gen implemented where reaso are not active and which a <i>Note: It is accepted that pa</i> | litate the site progressively, that is, as soon as reasonably practicable reasonable and feasible measures must be taken to minimise the total heration at any time. Interim stabilisation measures must be nable and feasible to control dust emissions in disturbed areas that are not ready for final rehabilitation. arts of the site that are progressively rehabilitated may be subject to | Compliant | | The 2015 Annual Review southern benches (RL 62 reporting period. Evidence of progressive re visit (19 May 2016). |
| | disturbance in the future. | | | | |
| | BIODIVERSITY AND REHABILITATION – Biodiversity Offset Strategy | | | | |
| 23 | 1.28 ha of Small-fruited G | pplicant shall implement a strategy to offset the impacts of clearing rey Gum - Tallowwood shrubby open forest on coastal foothills of the etation community by either: | Compliant | Documentation – BRMP, Agency correspondence Letter to DP&E dated 31 March 2016 Site interviews. | In a letter to DP&E dated 3 88B Covenant was implem Condition 23. The implem Strategy commenced on 3 Holcim noted in the letter to creation of the Section 88I biobanking agreement, ho likely credit price and the of their own land, a biobankin understood that DP&E app 31 March 2016. |
| | | king agreement under the Threatened Species Conservation Act 1995 er of Ecosystem Credits assessed using the Biobanking Credit | Not Triggered | Letter to DP&E dated 31 March 2016 Site interviews. | Holcim advised that an Of |

ed by Holcim to the DP&E on 31 March 1 88B Covenant was implemented to satisfy condition.

bilitation Management Plan has also been /.

4.0 of the BRMP identifies the features ified in Table 8 of the Project Approval. a range of short, medium and long term nese objectives.

RMP notes that a Biodiversity Offset Area not been specifically identified, though ies a potential biodiversity offset area.

w notes progressive rehabilitation of the 2 and RL 74) was undertaken during the

rehabilitation was sighted during the site

d 31 March 2016, Holcim advised a section emented to satisfy the requirements of ementation of the Biodiversity Offset of 31 March 2016.

er to DP&E that OEH did not support the 88B Covenant. OEH were in favour of a however following a Holcim review of the e desire of Holcim to utilise and conserve king agreement was not pursued. It is approved the creation of the Covenant on

Offset Strategy has been pursued.

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|-----------------------------------|---|--|
| | (b) implementing a strategy to provide a Biodiversity Offset Area of at least 7 ha of Small-fruited Grey Gum - Tallowwood shrubby open forest on coastal foothills of the southern North Coast vegetation community; | Compliant | Documentation – BRMP, Agency correspondence Letter to DP&E dated 31 March 2016 Site interviews. | Refer to comments above |
| | in consultation with OEH and to the satisfaction of the Secretary. | Compliant | Documentation – Agency correspondence | As above. Correspondence regarding consulted with OEH in reg 2016. |
| | BIODIVERSITY AND REHABILITATION – Long Term Security of Offset | | | |
| 24 | By 30 September 2016, the Applicant shall make suitable arrangements to protect in perpetuity any Biodiversity Offset Area established under condition 23 above to the satisfaction of the Secretary. | Not Triggered | N/A | Not applicable at the time |
| | Note: For the purposes of this consent, suitable arrangements may include the use of Public Positive Covenants in combination with Restrictions on Use of Land on the land title/s of the Biodiversity Offset Area. Other arrangements such as the use of Biobanking Agreements or transfer of lands to the national parks for their suitability. | | | |
| | BIODIVERSITY AND REHABILITATION – Biodiversity and Rehabilitation Management Plan | | | |
| 25 | The Applicant shall prepare and implement a Biodiversity and Rehabilitation Management Plan for the site to the satisfaction of the Secretary. This plan must: | Compliant | Documentation – Letter from DP&E | Correspondence from the the Secretary was satisfie requirements of the Project were requested. It was no status of the final BRMP w been addressed. |
| | (a) be prepared by suitably qualified person(s) whose appointment has been approved by the Secretary; | Compliant | Documentation – Letter of Approval | The appointment of suitable the Secretary. Letter of appendix |
| | (b) be prepared in consultation with OEH and Council, and submitted to the Secretary for approval by 31 August 2015; | Administrative Non- Compliance | Documentation – Letter of Submission. Correspondence – OEH | Holcim have not complied of the BRMP was submitte that consultation was not in assertion that consultation could not be confirmed by |
| | | | | OEH did not provide comit the requirement for consu |
| | | | | DP&E provided Holcim wi December 2015 to allow i Direction into the BRMP. |
| | | | | GTCC provided comment the time of the audit wheth the final BRMP. |
| | | | | Recommendation 12 : Pr DP&E approved BRMP. |

ve for Condition 23.

ling the audit from OEH noted Holcim had regard to offset strategies on 31 March

ne of this audit.

he DP&E dated 14 March 2016 indicates fied the BRMP generally meets the oject Approval, however minor amendments not clear at the time of the audit what the P was or whether the DP&E comments have

tably qualified person(s) was approved by approval dated 1 July 2015, was sighted.

ied with this condition as although a Stage 1 nitted to DP&E in August 2015, OEH advised ot requested until December 2015. Holcim's ion commenced prior to 31 August 2015 by sighted correspondence.

mment on the BRMP, but did acknowledge sultation had been achieved.

with an extension for its submission in w incorporation of Holcim's Biodiversity

ent on the BRMP however it was not clear at ether the comments were incorporated into

Provide Council with an updated copy of the

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|------------|---|---|
| | (c) describe the short, medium and long-term measures that would be implemented to: manage the native vegetation and fauna habitat on the site; implement the biodiversity offset strategy; and ensure compliance with the biodiversity and rehabilitation objectives in Table 8, and progressive rehabilitation obligations in this consent; | Compliant | Documentation – BRMP | Short, medium and long-to 5.0 of the BRMP. |
| | (d) include detailed performance and completion criteria for evaluating the performance biodiversity offset strategy and the rehabilitation of the site, including triggers for any necessary remedial action; | Compliant | Documentation – BRMP | Detailed performance and Tables 4.2 and 4.3 of the |
| | (e) include a detailed description of the measures that would be implemented to: minimise impacts on threatened species, populations and habitats as a result of the quarrying activities on the site; enhance the quality of native vegetation and fauna habitat across the site and in the biodiversity offset area; landscape the site to minimise visual and lighting impacts; minimise the impact of clearing on native fauna; maximise the salvage of environmental resources from any area approved to be cleared including tree hollows, vegetative and soil resources - for beneficial reuse; provide two nest boxes for each tree-hollow destroyed by vegetation clearing; control weeds and feral pests; control access, and bushfire management; | Compliant | Documentation – BRMP | Detailed description of the of the BRMP. |
| | (f) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria; | Compliant | Documentation – BRMP | Program to monitor the ef Section 6.0 of the BRMP. |
| | (g) identify the potential risks to rehabilitation of the site and the implementation of the biodiversity offset strategy, and include a description of the contingency measures that would be implemented to mitigate these risks; and | Compliant | Documentation – BRMP | Potential risks to rehabilita 7.0 of the BRMP. |
| | (h) include details of who would be responsible for monitoring, reviewing, and implementing the plan. | Compliant | Documentation – BRMP | Responsibilities for monitor plan were detailed in Sect |
| | BIODIVERSITY AND REHABILITATION – Habitat for Threatened Fauna Species | | | |
| 26 | The Applicant shall ensure that the Biodiversity Offset Area provides suitable habitat for all threatened fauna species that have potential habitat within the 1.28 ha of land proposed to be cleared under EA (Mod 5). | Compliant | Documentation – BRMP Site interviews | Refer to Condition 23. |
| | BIODIVERSITY AND REHABILITATION – Rehabilitation and Conservation Bond | | | |

g-term measures were detailed in Section

and completion criteria were detailed in he BRMP.

the measures were detailed in Section 5.0

effectiveness of measures were detailed in P.

ilitation of the site were detailed in Section

nitoring, reviewing, and implementing the ection 10.0 of the BRMP.

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|---------------|-------------------------------------|--|
| 27 | Within 12 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation and Conservation Bond with the Department to ensure that the biodiversity offset strategy and the rehabilitation of the site is implemented in accordance with the performance and completion Criteria set out in the Biodiversity and Rehabilitation Management Plan. The sum of the bond shall be determined by: | Not Triggered | N/A | Not applicable – 12 month |
| | (a) calculating the cost of implementing the biodiversity offset strategy and rehabilitating the site, and | | | |
| | (b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary. | | | |
| | Note: If the rehabilitation of the site and the implementation of the biodiversity offset strategy is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site and the implementation of the biodiversity strategy is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works. | | | |
| 28 | Within 3 months of each independent Environmental Audit (see condition 8 of Schedule 5), the Applicant shall review, and if necessary revise, the sum of the Rehabilitation and Conservation Bond to the satisfaction of the Secretary. This review must consider the: | Not Triggered | N/A | Not applicable – To be un |
| | (a) effects of inflation; | | | |
| | (b) likely cost of rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the development and implementing the biodiversity offset strategy; and | | | |
| | (c) performance of the implementation of the rehabilitation of the site performance to date | | | |
| | ABORIGINAL CULTURAL HERITAGE | | | |
| 29 | The Applicant shall prepare and implement an Aboriginal Cultural Heritage Management Plan for the Project to the satisfaction of the Secretary. This plan must: | Compliant | Documentation – Letter from DP&E | Correspondence from the the Secretary was satisfie requirements of the Project |
| | (a) be prepared in consultation with Aboriginal stakeholders; | Compliant | Documentation – Letter | Letters requesting comme Purfleet/Taree Local Area LALC was sighted during |
| | (b) be submitted to the Secretary for approval by 31 August 2015; | Compliant | Documentation – Letter | The ACHMP was submitte August 2015. Sighted lett dated 31 August 2015. |

nths has not been reached.

undertaken within 3 months of this audit.

the DP&E dated 14 March 2016 indicates fied the ACHMP generally meets the pject Approval.

ment on the ACHMP from the rea Land Council (LALC) and the Forster ng the audit.

nitted to the Secretary for approval by 31 letter submitting the ACHMP to the DP&E

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|------------|---|---|
| | (c) describe the measures that would be implemented to: manage known Aboriginal objects and sites; monitor all new surface disturbance on site for unidentified Aboriginal objects; manage the discovery of any human remains or previously unidentified Aboriginal objects on site; and | Compliant | Documentation – ACHMP Site interviews | Section 7.0 of the ACHMF known Aboriginal objects of unexpected Aboriginal engagement with a qualifi the Environmental Incider Procedure). During the site interviews, into previously undisturbe overburden, and then use the overburden then stripp metres). Detail of monitoring of all of the ACHMP is only in re does not mention monitor Recommendation 13: Up all new surface disturband finds procedure for unider DP&E for approval. |
| | (d) ensure ongoing consultation with Aboriginal stakeholders in the management of any Aboriginal cultural heritage values on site. | Compliant | Documentation – ACHMP | Review of Section 4.2 the consultation with Aborigin to: Discovery of unexpec ground disturbance w Notification and oppor ground disturbance w archaeological sites w Amendments of the A |
| | TRANSPORT – Operating Conditions | | | |
| 30 | The Applicant shall ensure that: (a) all vehicles entering or leaving the site carrying material that is capable of generating wind- borne dust have their loads covered or suitably contained within the truck; and (b) all laden vehicles leaving the site are cleaned of materials that may fall on the road, before leaving the site | Compliant | Site interviews Site visit observations | During site interviews, it w loads and ensure material part of the induction and a Vehicles accessing the sit wash prior to leaving the sit were sighted using the wh During the site inspection, their load prior to leaving the covered trays. |
| | TRANSPORT – Pacific Highway Intersection | | | |
| 31 | The Applicant shall maintain the intersection of the Pacific Highway and the Jandra Quarry Access Road, for the duration of product transport from the site, to the satisfaction of the RMS. | Compliant | Site interviews Site visit observations | Vehicles accessing the sit wash prior to leaving the sit were sighted using the wh During the site inspection, their load prior to leaving to covered trays. It was noted during site in from nearby (Nabiac) to k |

MP details management measures for ts and sites, the procedure for the discovery al objects (including consultation / alified archaeologist and implementation of dent Classification and Reporting

ws, it was noted that the process for going bed areas is to strip topsoil down to the use the topsoil for bench rehabilitation; with ripped (average depth being 1.0 - 1.5

all new surface disturbances in Section 7.0 n relation to known archaeological sites and toring for unidentified Aboriginal objects.

Update the ACHMP to include monitoring of ances on site and include an unexpected dentified Aboriginal objects and submit to

he ACHMP indicates instances for ginal stakeholders includes, but is not limited

- ected Aboriginal objects or sites during works.
- portunity to participate in monitoring during works with potential to impact known s which are not approved for disturbance.

ACHMP

t was noted that the requirement to cover rials do not leave site and fall on the road is d a requirement for drivers.

site are required to travel through the wheel e site. During the site inspection, vehicles wheel wash.

on, laden vehicles were sighted covering g the site and accessing the site with

site are required to travel through the wheel e site. During the site inspection, vehicles wheel wash.

on, laden vehicles were sighted covering ing the site and accessing the site with

interviews that a street sweeper is hired b keep the site intersection clean.

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|---------------|---|---|
| 32 | The Applicant shall install and subsequently maintain street lighting at the intersection of the Pacific Highway and the Jandra Quarry Access Road, to the satisfaction of the RMS, prior to transporting quarry products from the site outside of the hours 7 am to 6 pm. Any works affecting the Pacific Highway must not take place without the prior approval of the RMS. | Not Triggered | N/A | Not applicable at the time undertaken outside 7.00 a |
| | TRANSPORT – Monitoring of Product Transport | | | |
| 33 | The Applicant shall keep accurate records of: (a) the amount of quarry products, including asphalt, transported from the site (calendar month and Year); | Compliant | Site interviews Documentation – Daily Quarry Runsheet | To track extraction and pr SAP database, Holcim's r and stock, maintenance a monthly (as part of busine |
| | | | | Transportation of material Command that connect to each day detailing the tota quarry runsheet was sight locations of where deliver |
| | (b) the number of laden vehicle movements to and from the site (day, calendar month and year); and | Compliant | Site interviews Documentation – Daily Quarry Runsheet | To track extraction and pr SAP database, Holcim's r and stock, maintenance a monthly (as part of busine |
| | | | | Transportation of material Command that connect to each day detailing the tota quarry runsheet was sight locations of where deliver |
| | (c) publish these records on its website at the end of each calendar quarter. | Compliant | Documentation – Annual Review | Truck movement data for the Holcim Jandra Quarry |
| | VISUAL IMPACTS | | | |
| 34 | The Applicant shall: | Not Triggered | N/A | Not applicable, with no lig |
| | (a) implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development; | | | being security lighting at t which are not visible off-s |
| | (b) ensure that all external lighting associated with the development complies with Australian Standard A54282 (INT) 1997 - Control of Obtrusive Effects of Outdoor Lighting, or its latest version; and | | | |
| | (c) take all practical measures to shield views of quarrying operations from users of public roads and privately-owned residences, | | | |
| | to the satisfaction of the Secretary | | | |
| | WASTE | | | |
| 35 | The Applicant shall: | Compliant | Site interviews | During the site inspection |
| | (a) implement all reasonable and feasible measures to minimise the waste generated by the development; | | | waste oils are servicegeneral waste is picke |
| | (b) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and | | | Tuncurry Waste Depo |
| | (c) monitor and report on effectiveness of the waste minimisation and management measures each calendar year, | | | Sediment traps in ser Richards (1 in 5 year |
| | to the satisfaction of the Secretary. | | | The effectiveness of w measures are detailed |

ne of the audit, with operations not being 0 am to 6.00 pm.

production Jandra Quarry makes use of the s national database for tracking production and inventory. Production is tracked on a iness review) and annual basis.

rial is managed through a system called t to SAP, providing a report at the end of total number of truck movements. The daily ghted during the site visit, detailing the veries are being made.

production Jandra Quarry makes use of the s national database for tracking production and inventory. Production is tracked on a iness review) and annual basis.

rial is managed through a system called to SAP, providing a report at the end of total number of truck movements. The daily ghted during the site visit, detailing the veries are being made.

or March 2015 to April 2016 is available on ry website.

lighting as yet and the only lighting on site t the front office and truck transport parking, -site.

on, it was noted that:

ced by Australian Waste Oils,

cked up by JR Richards and delivered to pot.

ervicing areas are pumped out by JR ar occurrence).

f waste minimisation and management led in the Annual Review.

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|---|---|---|
| 36 | Except as expressly permitted in an EPL, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal. | Administrative Non- Compliance (Low Risk) | Site interviews | Holcim are non-compliant with this Condition as it accepts concrete waste which it reprocesses and adds to road base material as a recycled product. The non-compliance is considered low risk as: Recycling of concrete waste is considered a beneficial reuse and positive environmental outcome. Holcim advised that during consultation the EPA advised an EPL amendment was not required to include the reprocessing of the concrete waste. Recommendation 14: Consult with DP&E and seek an expression of concrete the reprocessing of concrete the reprocessing of the concrete waste. |
| | | | | administrative modification to permit the reprocessing of concrete waste on site. |
| | LIQUID STORAGE | | | |
| 37 | The Applicant shall ensure that all liquid storage facilities are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid. | Compliant | Site visit | During the site visit liquid storage facilities were sighted and located within appropriately bunded areas. |
| | DANGEROUS GOODS | | | |
| 38 | The Applicant shall ensure that the storage, handling, and transport of dangerous goods is done in Accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code. | Compliant | Site visit | During the site visit containers containing dangerous goods were noted to be on-site and appropriately stored. |
| | BUSHFIRE | | | |
| 39 | The Applicant shall: (a) ensure that the development is suitably equipped to respond to any fires on site; and (b) assist the Rural Fire Service, emergency services and National Parks and Wildlife Service as much as possible if there is a fire in the surrounding area. | Compliant | Site interviews | During the site interviews, it was noted that the site has a verbal agreement with the fire service for use of water on-site in the event of bushfires if needed. |
| | SCHEDULE 4 – Additional Procedures | | | |
| | NOTIFICATION OF LANDOWNERS | | | |
| 1 | As soon as practicable after obtaining monitoring results showing an exceedance of any relevant criteria in Schedule 3, the Applicant shall notify affected landowners in writing of the exceedance, except where a negotiated agreement has been entered into in relation to that impact, and provide regular monitoring results to each affected landowner until the development is complying with the relevant criteria. | Not Triggered | Documentation – Annual Review, Blast Monitoring, Depositional Dust Monitoring Site interviews | With the exception of blast and depositional dust monitoring, no other environmental monitoring has been completed on site to date. Of the monitoring data recorded there have been no exceedances of the relevant criteria and therefore landowners have not required notification. |
| | INDEPENDENT REVIEW | | | |
| 2 | If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land. | Not Triggered | N/A | Not applicable, no requests received. |

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|---------------|--|--|
| 3 | If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant shall: | Not Triggered | N/A | Not applicable, no reques |
| | (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: | | | |
| | consult with the landowner to determine his/her concerns; | | | |
| | • determine whether the development is complying with the relevant criteria in Schedule 3; and | | | |
| | • if the development is not complying with these criteria then identify measures that could be implemented to ensure compliance with the relevant criteria; and | | | |
| | (b) give the Secretary and landowner a copy of the independent review. | | | |
| 4 | If the independent review determines that the development is complying with the relevant criteria in Schedule 3, then the Applicant may discontinue the independent review with the approval of the Secretary. | Not Triggered | N/A | Not applicable, no reques |
| 5 | If the independent review determines that the development is not complying with the relevant criteria in Schedule 3, then the Applicant shall: | Not Triggered | N/A | Not applicable, no reques |
| | (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring to determine whether these measures ensure compliance; or | | | |
| | (b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, | | | |
| | to the satisfaction of the Secretary. | | | |
| | SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT CONDITIONS | | | |
| | Environmental Management Strategy | | | |
| 1 | The Applicant shall prepare and implement an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must: | Compliant | Documentation – Correspondence from DP&E | Correspondence from the the Secretary was satisfied requirements of the Proje revisions. |
| | | | | However, it is noted that I EMS to be resubmitted for |
| | (a) be submitted to the Secretary for approval by 31 August 2015; | Compliant | | Sighted letter submitting t (EMS) to the DP&E dated |
| | (b) provide the strategic framework for the environmental management of the development; | Compliant | | Section 3.0 of the EMS de framework for the Project |
| | (c) identify the statutory approvals that apply to the development; | Compliant | | Detailed in Section 4.0 ar |
| | (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development, | Compliant | | Detailed in Section 5.2 of |
| | (e) describe the procedures that would be implemented to: | Compliant | | Stakeholder (community a |
| | keep the local community and relevant agencies informed about the operation and environmental performance of the development; | | | consultation, complaints a detailed in Section 7.0 of response procedures are |
| | receive, handle, respond to, and record complaints; | | | |
| | • resolve any disputes that may arise during the course of the development; | | | |
| | respond to any non-compliance; and | | | |
| l | respond to emergencies; and | | | |

| lests received. |
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| ests received. |
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| lests received. |
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| he DP&E dated 14 March 2016 indicates fied the EMS generally meets the oject Approval, but requested some |
| at DP&E has indicated they would like the following the completion of this audit report. |
| g the Environmental Management Strategy ed 31 August 2015. |
| details the environmental management ect. |
| and Appendix A1 of the EMS. |
| of the EMS. |
| ty and agency) communication and s and enquiries, and dispute resolution are of the EMS, while incident and emergency re detailed in Section 8.0 of the EMS. |

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|--------------|--|--|
| | (f) include: | Compliant | | Environmental monitoring |
| | copies of any strategies, plans and programs approved under the conditions of this development consent; and | | | Section 9.0 of the EMS, we and AQMP are appendice |
| | • a clear plan depicting all the monitoring required to be carried out under the conditions of this consent | | | |
| | Adaptive Management | | | |
| 2 | The Applicant shall assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. | Not verified | Documentation – Annual Review, Blast Monitoring, Depositional Dust Monitoring | With the exception of blas other environmental moni date. Of the monitoring d exceedances of the relevant |
| | Where any exceedance of these criteria and/or performance measures has occurred, the Applicant shall, at the earliest opportunity: | | Site interviews | not required notification. |
| | (a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur, | | | |
| | (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and | | | |
| | (c) implement remediation measures as directed by the Secretary, | | | |
| | to the satisfaction of the Secretary. | | | |
| | Management Plan Requirements | | | |
| 3 | The Applicant shall ensure that the Management Plans required under this consent are | Compliant | Documentation – | BRMP - Section 3.0 |
| | prepared in accordance with any relevant guidelines, and include | | Review of Management Plans | ACHMP - Section 6.0 |
| | (a) detailed baseline data; | | | AQMP - Section 6.0 |
| | | | | NBMP - Section 4.0 |
| | | | | SWMP - Sections 5.0-7.0 |
| | (b) a description of: | Compliant | Documentation – | |
| | the relevant statutory requirements (including any relevant approval, licence or lease conditions); | | Review of Management Plans | Section 2.0 of the BRMP, SWMP and AQMP. |
| | any relevant limits or performance measures/criteria; and | | | Section 5.0 of the AQMP 6.0 of the SWMP and AC |
| | the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; | | | Section 4.2.1 and 4.3.1 of and NBMP, and Section S |
| | (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; | Compliant | Documentation – Review of Management Plans | Section 5.0 of BRMP, Sec ACHMP, AQMP and NBN |
| | (d) a program to monitor and report on the: | Compliant | Documentation – | Section 8.1 of NBMP, Sec |
| | impacts and environmental performance of the development; and | | Review of Management Plans | and Table 9 & Section 10 |
| | • effectiveness of any management measures (see (c) above); | | | |

| ng locations are shown on a figure in , while the BRMP, NBMP, SWMP, ACHMP ces of the EMS. |
|---|
| |
| ast and depositional dust monitoring, no onitoring has been completed on site to data recorded there have been no evant criteria and therefore landowners have |
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| |
| .0 . |
| |
| P, and Section 3.0 of the ACHMP, NBMP, |
| P and NBMP, Section 4.0 of BRMP, Section CHMP. |
| of BRMP, Section 8.0 of ACHMP, AQMP 9.0 of SWMP. |
| Section 8.0 of SWMP, and Section 7.0 of BMP. |
| |

Section 8.2 of AQMP, Section 6.0 of BRMP, 10.0 of SWMP.

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|-----------------------------------|--|---|
| | (e) a contingency plan to manage any unpredicted impacts and their consequences; | Administrative Non- Compliance | Documentation – Review of Management Plans Documentation – Review of Management Plans Documentation – Review of Management Plans | BRMP - Section 7.0 – Cor ACHMP - While Section 7 unexpected Aboriginal cul not identify measures to b impact on known Aborigin compliant. AQMP - Section 8.2.3 – C NBMP - Section 8.1 – Cor SWMP - Table 8 includes of exceedances of dischar |
| | (f) a program to investigate and implement ways to improve the environmental performance of the development over time; | Compliant | Review of Management | Section 10.0 of SWMP, an AQMP and ACHMP. |
| | (g) a protocol for managing and reporting any: incidents; complaints; non-compliances with statutory requirements; and exceedances of the impact assessment criteria and/or performance criteria; and | Administrative Non- Compliance | Review of Management | NBMP - Section 8.0 – Cor SWMP – Does not include incidents, complaints, non noted Section 10.1 discus not address measures to b impacts. BRMP - Section 8.4 (Incid 7.2 (non-compliances) – C AQMP Section 8.0 – Com ACHMP – Does not include incidents, complaints and discusses a Continuous Ir measures to be undertake known and/or unknown At Recommendation 15: Up a procedure for addressin |
| | (h) a protocol for periodic review of the plan. | Compliant | | Section 10.0 of SWMP, an AQMP and ACHMP. |
| | Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans | Noted | | |
| | Annual Review | | | |
| 4 | By the end of March each year, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must: | Compliant | Documentation – Annual Review | Correspondence from the Annual Review on 31 Mar |
| | (a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year; | Compliant | Documentation – Annual Review | Addressed in the 2015 An 'Description of Developme |

Compliant.

n 7.0 includes measures in the event of an cultural heritage item being found, it does be undertaken in the event of unpredicted ginal cultural heritage items – Non-

Compliant.

Compliant.

es measures to be undertaken in the event harge criteria – Compliant.

ation 13.

and Section 9.0 of the BRMP, NBMP,

Compliant.

ude reference to protocol for managing non-compliances and exceedances. It is cusses a Continuous Improvement, but does to be undertaken in the event of unforeseen

cidents), Section 8.5 (Complaints), Section – Compliant.

mpliant.

lude reference to protocol for managing nd non-compliances. It is noted Section 9.1 s Improvement, but does not address aken in the event of unforeseen impacts on Aboriginal cultural heritage.

Update the SWMP and ACHMP to include sing non-compliances.

and Section 9.0 of the BRMP, NBMP,

he DP&E verifying submission of 2015 Iarch 2016.

Annual Review in the section titled ment'.

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|---------------|----------------------------------|--|
| | (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against: the relevant statutory requirements, limits or performance measures/criteria; | Compliant | Documentation – Annual Review | Blast and depositional dua and the Annual Review in noting no exceedances ha associated with the quarry |
| | the monitoring results of previous years, and | | | The 2015 Annual Review management plans is per monitoring has been under |
| | the relevant predictions in the documents listed in condition 2 of Schedule 2; | | | No complaints were receiv period. |
| | (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; | Compliant | Documentation – Annual Review | Detailed in the section 'No Annual Review. |
| | (d) identify any trends in the monitoring data over the life of the development; | Compliant | Documentation – Annual Review | Detailed in the section 'Tr 2015 Annual Review. |
| | (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and | Compliant | Documentation – Annual Review | Detailed in the section 'Pr the 2015 Annual Review. |
| | (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development | Compliant | Documentation – Annual Review | Detailed in the section 'Er 2016' of the 2015 Annual |
| | Revision of Strategies, Plans & Programs | | | |
| 5 | Within 3 months of the submission of an: | Compliant | | Not triggered: |
| | (a) annual review under condition 4 above; | | | Annual Review compl |
| | (b) incident report under condition 6 below; | | | No incidents during th |
| | (c) audit report under condition 8 below; and | | | • This audit represents |
| | (d) any modifications to this consent, | | | No applicable modific |
| | the Applicant shall review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Secretary. | | | |
| | Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development. | | | |
| | REPORTING | | | |
| | Incident Reporting | | | |
| 6 | The Applicant shall notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant shall notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. | Not Triggered | N/A | Not applicable, no inciden |
| | Regular Reporting | | | |

dust monitoring are undertaken at the quarry includes a review of the monitoring results have been recorded for activities arry.

ew notes that final approval of site pending and therefore no noise and PM10 indertaken for the 2015 reporting period.

ceived for the site during the 2015 reporting

Non-Compliance Items in 2015' of the 2015

Trends in Monitoring Data in 2015' of the

Predicted and Actual Impacts in 2015' of w.

Environmental Improvement Measures al Review.

npleted March 31 2016.

the 2015 Reporting Period.

ts the first audit required by 31 March 2016. fications.

lents have occurred during the audit period.

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|---------------|-----------------------------------|--|
| 7 | The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent. | Compliant | | While EPL blast monitorir (http://www.holcim.com.a monitoring-data.html), pul publically available on the No discharges from the N undertaken during the au |
| | | | | undertaken during the au |
| | INDEPENDENT ENVIRONMENTAL AUDIT | | | |
| 8 | By 31 March 2016, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an independent Environmental Audit of the development. This audit must: | Compliant | Documentation – Letter to DP&E | This audit represents the requesting DP&E approva |
| | (a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; | | | |
| | (b) include consultation with the relevant agencies; | | | |
| | (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water License (including any assessment, plan or program required under these approvals); | | | |
| | (d) review the adequacy of any approved strategy, plan or program required under these approvals; and | | | |
| | (e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals. | | | |
| | Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary | | | |
| 9 | Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report | Not Triggered | N/A | Not applicable at this time |

pring data is available via the public website <u>n.au/sustainability/environment/pollution-</u> publication of other monitoring data is not the Holcim website.

e Main Dam (EPL monitoring point) were audit period.

ne 31 March 2016 audit, with Holcim oval of the audit team on 30 March 2016 and rovided 31 March 2016.

me.

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|---------------------|----------|--|
| 10 | By 31 August 2015, the Applicant shall: | Administrative Non- | | Holcim has maintained the |
| | (a) make the following information publicly available on its website: | Compliance | | Documents listed in Environmental Ass |
| | the documents listed in condition 2 of Schedule 2; | | | Current statutory a |
| | current statutory approvals for the development; | | | Modification) |
| | approved strategies, plans or programs; | | | Annual review 2018 |
| | • a summary of the monitoring results of the development, which have been reported in | | | Truck movement da |
| | accordance with the various plans and programs approved under the conditions of this consent; | | | Blast monitoring da |
| | a complaints register, which is to be updated on a quarterly basis; | | | The following information w |
| | • the annual reviews (over the last 5 years); | | | Summary of monito |
| | any independent environmental audit, and the Applicant's response to the recommendations in any audit; and | | | gaugesDP&E approved en |
| | any other matter required by the Secretary; and | | | It is noted that: |
| | (b) keep this information up-to-date, | | | Noise and PM10 m and is therefore una |
| | to the satisfaction of the Secretary. | | | No complainte have haan n |
| | | | | No complaints have been n not provided on the website |
| | | | | Recommendation 16: Uple and the DP&E approved ma the Holcim website |

- he following information on its website:
- d in condition 2 of Schedule 2 including the Assessment
- y approvals for the development (EPL and
- 015
- t data
- data
- n was not available on its web-site: nitoring results for dust depositional
- l environmental management plans
-) monitoring has not commenced on-site unavailable to be published.
- n made to date thus a complaint register is site.
- Jpload depositional dust monitoring results I management plans (when approved) to

Appendix B – Compliance with EPL requirements



Appendix B

Table 1 Compliance with the EPL requirements

| Number | Condition | | | Compliance | Evidence | Comments |
|--------|---|----------------------------------|---|----------------------------------|---|---|
| 1 | ADMINISTRATIVE CONDIT | TIONS | | | | |
| A1 | What the licence authorises and regulates | | | | | |
| A1.1 | 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. | | | Compliant | Site interviews Site visit | It was verified during site in activities are being underta |
| | Scheduled Activity | Fee Based Activity | Scale | | | |
| | Crushing, grinding or separating | Crushing, grinding or separating | > 100000 - 500000 T processed | | | |
| | Extractive Activities | Land-based extractive activity | > 100000 - 500000 T extracted, processed or stored | | | |
| A1.2 | Notwithstanding the fee scales noted above, the licensee must not produce more than 250,000 tonnes of finished quarry products per calendar year. Note: This condition has been added to be consistent with development consent DA231-10-99 MOD 4. | | Compliant | Documentation – Annual Review | The production volume for tonnes and therefore comp It is noted however that Co 99 permits extraction of up be amended to reflect the Modification 5. It is noted that an EPL am EPA on 23 October 2015 to approved by Modification 5 | |
| A2 | Premises or plant to which | h this licence applies | | | | |
| A2.1 | The licence applies to the following premises: Jandra Quarry – Pacific Highway Possum Brush NSW 2430 LOT 2 DP 255621, LOT 11 DP 790056, LOT 12 DP 790056, LOT 13 DP 790056, LOT 14 DP 790056, LOT 15 DP 79005 | | Compliant | SIX Maps | Review of aerial photograp activities are within the are | |
| A3 | Information supplied to th | e EPA | | | | |
| 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. 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 b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence. | | Compliant | Site interviews Site visit | It was verified during site i and activities are being ca Quarry proposal. | |

e interviews and the site visit that these ertaken. for the 2015 Reporting Period was 232,028 mpliant with this clause. Condition 8 of Modification 5 of DA 231-10up to 490,000 tonnes and the EPL should ne approved production rates under amendment request was provided to the 5 to reflect the increased annual production on 5 of DA 231-10-99. raphy with cadastral overlay indicates area described. e interviews and the site visit that the works carried out in accordance with the Jandra

| Number | Condition | | | | | | Compliance | Evidence | Comments |
|--------|---|---|--|------------------------------|--|---|------------|---|---|
| | DISCHARGES | TO AIR AND V | NATER AND A | PPLICATIONS T | O LAND | | | | |
| P1 | Location of mo | Location of monitoring/discharge points and areas | | | | | | | |
| P1.1 | The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point. | | | | | Compliant | Site visit | Soil and Water Managemen 8.0. This discharge point was sig photograph taken. | |
| P1.2 | The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area. | | | | | | Compliant | Site visit Documentation – SWMP | Soil and Water Managemen 8.0. This discharge point was sig photograph taken. |
| | EPA Identification | Type of No Monitor | Type of Locati ng Point Discharge Point | | Location Descrip | ation Description | | | Recommendation 17: Insta from the Main Dam to notify |
| | 1 | Discharg monitori | | scharge quality onitoring | Discharge from fin as shown in the C Site Photo - Jandra Monitoring Locatio provided to the EP | SR Readymix a Quarry Water n Figure 1 | | | |
| 3 | LIMIT CONDITI | ONS | | | | | | | |
| L1 | Pollution of waters | | | | | | | | |
| L1.1 | | | | | this licence, the lice | | Compliant | Site visit | No offsite discharge underta |
| | comply with section 120 of the Protection of the Environment Operations Act 1997. | | | | | | | Site interviews Documentation – Annual Review | visit indicated there was no e occurring as a result of opera |
| L2 | Concentration | Limits | | | | | | | |
| L2.1 | For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table. | | | | | Noted | | | |
| L2.2 | Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges | | | | Noted | | | | |
| L2.3 | To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s. | | | | Noted | | | | |
| L2.4 | Water and/or Land Concentration Limit Point 1 | | | | | | Compliant | Documentation – Annual Review | Review of monitoring results discharge water quality did n concentration limit. |
| | Pollutant | Units of measure | 50 percentile concentration limit | | | 100 percentile concentration limit | | | |
| | рН | pН | | | | 6.5 - 8.5 | | | |
| | Total Suspended Solids | Milligrams per litre | | | | 50 | | | |

| ement Plan (SWMP) – Figure 1 and Section |
|--|
| as sighted during the site visit, with a |
| ement Plan (SWMP) – Figure 1 and Section |
| as sighted during the site visit, with a |
| Install a sign at the licenced discharge point notify that this location is the discharge point. |
| |
| |
| |
| |
| dertaken for the operation period. The site s no evidence of pollution of waters operations. |
| |
| |
| |
| |
| esults in the 2015 Annual Review indicated did not exceed the 100 percentile |

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|------------|------------------------------------|--|
| L3 | Blasting | | | |
| L3.1 | The airblast overpressure level from blasting operations in or on the premises must not exceed: a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and | Compliant | Documentation – Monitoring Data | Blast monitoring results we and are publically available (<u>http://www.holcim.com.au</u> monitoring-data.html). |
| | b) 120 dB (Lin Peak) at any time. | | | No exceedances were rec |
| | At any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital. | | | |
| L3.2 | The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: | Compliant | Documentation – Monitoring Data | Blast monitoring results we and are publically available |
| | a) 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and | | | (http://www.holcim.com.au monitoring-data.html) |
| | b) 10 mm/s at any time. | | | No exceedances were rec |
| | At any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital. | | | |
| L3.3 | To determine compliance with condition(s) L3.1 and L3.2: | Compliant | Site interviews | Noted during on-site interv |
| | a) Airblast overpressure and ground vibration levels must be measured at any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital - for all blasts carried out in or on the premises; and | | | located at the closest resid |
| | b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 1993 | | | |
| 4 | OPERATING CONDITIONS | | | |
| 01 | Activities must be carried out in a competent manner | | | |
| 01.1 | Licensed activities must be carried out in a competent manner. This includes: | Compliant | Site interviews | During the site inspection, by Australian Waste Oils, Richards and delivered to servicing areas and pump |
| | 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 | | | occurrence). |
| | the activity. | | | During the site visit liquid s within appropriately bunde |
| | | | | During the site visit contair noted to be on-site and ap |
| 02 | Maintenance of plant and equipment | | | |
| 02.1 | All plant and equipment installed at the premises or used in connection with the licensed activity: | Compliant | Maintenance Plan. | Refer to approval Conditio provided in Appendix A. |
| | a) must be maintained in a proper and efficient condition; andb) must be operated in a proper and efficient manner. | | Plant maintenance record sample. | |
| | b) must be operated in a proper and encient manner. | | Site interviews. | |
| | | | Pre-start checklists | |
| | | | Documentation – Annual Return | |
| 03 | Dust | | | |
| | | | | |

were reported in the 2015 Annual Review able on the Holcim website .au/sustainability/environment/pollution-

ecorded during the 2015 reporting period.

were reported in the 2015 Annual Review able on the Holcim website <u>au/sustainability/environment/pollution-</u>

ecorded during the 2015 reporting period.

erviews that the blast monitoring location is sident.

on, it was noted that waste oils are serviced s, while general waste is picked up by JR to Tuncurry Waste Depot. Sediment traps in nped out by JR Richards (1 in 5 year

d storage facilities were sighted and located ided areas.

tainers containing dangerous goods were appropriately stored.

ition 14 of the Conditions of Approval

| Number | Condition | Compliance | Evidence | Comments |
|--------|--|------------|---|---|
| 03.1 | The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises. | Compliant | Site visit | Measures including use of aggregate and hoses on the to minimise/prevent the er |
| | | | | Refer to Condition 10 of the Appendix A. |
| 04 | Processes and management | | | |
| 04.1 | The licensee must take all reasonable measures to prevent the tracking of mud and debris onto the Pacific Highway including, but not limited to, ensuring all vehicles leaving the premises pass through the vehicular wheel wash. | Compliant | Site visit w Site interviews. ti | Section 5.1.5 of the SWMI wash system is located on wash system activated by time a truck travels over th wheels are cleaned and fro the site. |
| | | | | Sighted wheel wash syste site interviews that a stree quarry intersection. |
| 5 | MONITORING AND RECORDING CONDITIONS | | | |
| M1 | Monitoring records | | | |
| 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. | Noted | | |
| M1.2 | All records required to be kept by this licence must be: | Compliant | Site visit | VGT conduct water quality from the Main Dam licence monitoring records were si |
| | a) in a legible form, or in a form that can readily be reduced to a legible form; | | Site inspections | |
| | b) kept for at least 4 years after the monitoring or event to which they relate took place; and | | Documentation – Blasting | |
| | c) produced in a legible form to any authorised officer of the EPA who asks to see them. | | and Dust Deposition Monitoring | |
| M1.3 | The following records must be kept in respect of any samples required to be collected for the | Compliant | Site visit | VGT conduct water quality from the Main Dam licence chain of custody sheet as a example of a VGT chain of 15/04/2016 for dust monitor Recommendation 18: Pre- environmental monitoring r |
| | purposes of this licence: | | Site inspections | |
| | a) the date(s) on which the sample was taken; b) the time(c) at which the complex was callected; | | Documentation – Blasting and Dust Deposition Monitoring | |
| | 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. | | | include the field sheet as a |
| M2 | Requirement to monitor concentration of pollutants discharged | | | |

| of a water cart, sprinklers on top of |
|--|
| the plant were sighted during the site visit |
| emission of dust from the premises. |

the Conditions of Approval provided in

MP notes that a weighbridge and wheel on the main access road, with the wheel by a sensor and cycling for 15 seconds each r the weighbridge; thereby ensuring all truck free of sediment and dust before leaving

stem during site visit and it was noted during eet sweeper from Nabiac is used on the

lity monitoring where discharge is required nced discharge point. Water quality e sighted and were legible.

lity monitoring where discharge is required nced discharge point. Holcim rely on a as evidence of sampling records. An n of custody sheet was sighted for nitoring data.

Prepare a field record sheet for ng rather than use the chain of custody and s an Appendix to the SWMP.

| Number | Condition | | | | Compliance | Evidence | Comments |
|------------|---|--|--------------------------------|--------------------------|---------------|--|--|
| M2.1 | For each monitoring/discharge point or utilisation area specified below (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: | | | | Compliant | Documentation – Monitoring Results | Review of monitoring resu during the 2015 Reporting (<u>http://www.holcim.com.au</u> monitoring-data.html). |
| | M2.2 - Water and/ or La | and Monitoring Requirem | ents | | | | |
| M3 M3.1 | Point 1 | | | | | | |
| | Pollutant | Units of measure | Frequency | Sampling Method | | | |
| | рН | рН | Each overflow event | Grab sample | | | |
| | Total suspended solids | Milligrams per litre | 2 times daily during discharge | Grab sample | | | |
| | Turbidity | Nephelometric turbidity units | 2 times daily during discharge | Grab sample | | | |
| МЗ | Testing methods – co | oncentration limits | | | | | |
| МЗ.1 | pollutant discharged to Approved Methods Put | waters or applied to a uti olication unless another m | isation area must be don | e in accordance with the | Not verified | Documentation – SWMP | The monitoring method for reviewed as part of the au |
| M4 | Weather monitoring | censee must monitor (by sampling and obtaining results by analysis) the concentration of each oluluant specified in Column 1. The licensee must use the sampling method, units of measure, ample at the frequency, specified opposite in the other columns: 12.2 - Water and/ or Land Monitoring Requirements Pollutant Units of measure Frequency Sampling Method pH pH Each overflow event Grab sample Total suspended Milligrams per litre 2 times daily during discharge Grab sample Turbidity Nephelometric turbidity units 2 times daily during discharge Grab sample Turbidity Nephelometric turbidity units 2 times daily during discharge Grab sample Subject to any express provision to the contrary in this licence, monitoring for the concentration ollutant discharged to waters or applied to a utilisation area must be done in accordance with the proved Methods Publication unless another method has been approved by the EPA in writing efore any tests are conducted. Veather monitoring Each orange and recorded in millimetres per 24 hour period, at th ane time each day. kole: The rainfall monitoring data collected in compliance with the above condition will assist in terpreting the effectiveness of stormwater management at the quarry. tecording of pollution complaints The ticensee must keep a legible record of all complaints made to the licensee or any employee gent of the licensee in relation to pollution arising from any | | | | | |
| M4.1 | Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the | | | | Compliant | Site visit | Rain gauge sighted during rainfall register. |
| | Note: The rainfall monitoring data collected in compliance with the above condition will assist in interpreting the effectiveness of stormwater management at the quarry. | | | | | Documentation – Rainfall register | |
| M5 | Recording of pollution complaints | | | | | | |
| M5.1 | 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. | | | Not Triggered | N/A | Not applicable, no compla Reporting Period. | |
| M5.2 | a) the date and tin b) the method by c) any personal d such details weight | me of the complaint; which the complaint was letails of the complainant ere provided, a note to that | which were provided by the | ne complainant or, if no | Not Triggered | N/A | Not applicable, no compla Reporting Period. |
| | | | | | | | |
| | 1 1 | • | • | | | | |
| M5.3 | The record of a compla | aint must be kept for at lea | st 4 years after the comp | laint was made. | Not Triggered | N/A | Holcim advised that no co |
| M5.4 | The record must be produced to any authorised officer of the EPA who asks to see them. | | Noted | N/A | | | |
| M6 | Telephone complaint | s line | | | | | |
| M6.1 | The record must be produced to any authorised officer of the EPA who asks to see them. Telephone complaints line The licensee must operate during its operating hours a telephone complaints line for the purpose 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. | | | es conducted at the | Compliant | Documentation – EMS | Section 7.3.2 of the EMS r "All community inquiries an activities will be referred to 627). A postal address (Le NSW) and on the Holcim v provides for receipt of com |

sults for the one discharge undertaken ng Period indicates compliance .au/sustainability/environment/pollution-

for water quality monitoring was not audit.

ing the site inspection. Holcim maintain a

plaints were received during the 2015

plaints were received during the 2015

complaints have been received.

S notes:

and complaints related to the Quarry's to the Jandra Quarry Manager (0429 790 (Level 8, 799 Pacific HWY, Chatswood, m website (www.holcim.com.au) that complaints and enquiries."

| Number | Condition | Compliance | Evidence | Comments |
|--------|---|---------------|---|---|
| M6.2 | 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. | Compliant | Documentation – Holcim website | Environmental or commun Jandra/Holcim website. |
| M6.3 | 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. An Annual Return must be prepared in respect of each reporting period, except as provided below. 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. | | N/A | Not applicable. |
| 6 | REPORTING CONDITIONS | | | |
| R1 | Annual return documents | | | |
| R1.1 | 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 | Compliant | Documentation – Annual Return Site interviews | Annual Returns held centr Anniversary date being en Annual Return for 1 May 2 |
| R1.2 | An Annual Return must be prepared in respect of each reporting period, except as provided below. | Compliant | Documentation – Annual | Annual Return for 1 May 2 |
| | Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not | Compliant | Return | |
| | | | Site interviews | |
| 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 licence is granted and ending on the last day of the reporting period. | Not Triggered | N/A | Not applicable. |
| | Note: An application to transfer a licence must be made in the approved form for this purpose. | | | |
| 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: | Not Triggered | N/A | Not applicable. |
| | 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. | | | |
| 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'). | | Documentation – Annual Return | Annual Return for 1 May 2 Annual Return submitted 2 required. |
| R1.6 | | | Documentation – Annual Return | Annual Return for 1 May 2 copies for the last 4 years |
| R1.7 | Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: | Compliant | Documentation – Annual Return | Annual Return for 1 May 2 Director and Company Sec |
| | a) the licence holder; or | | | |
| | b) by a person approved in writing by the EPA to sign on behalf of the licence holder. | | | |
| R1.8 | A person who has been given written approval to certify a certificate of compliance under a licence | | Documentation – Annual Return | Annual Return for 1 May 2 Director and Company Se |
| R2 | Notification of environmental harm | Not Triggered | N/A | Not applicable, 2015 Annu |
| | 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. | | | incidents during the audit p |

| | inity enquiries line de | tails sighted on |
|--|-------------------------|------------------|
|--|-------------------------|------------------|

ntrally by the environment team for NSW. end of start of April.

2014 to 30 April 2015 sighted.

2014 to 30 April 2015 sighted.

2014 to 30 April 2015 sighted, with the 23 June 2015; within the 60 day period

y 2014 to 30 April 2015 sighted; however, ars have not been sighted.

y 2014 to 30 April 2015 sighted, signed by Secretary.

y 2014 to 30 April 2015 sighted, signed by Secretary.

nual Review indicates there were no lit period.

| Number | Condition | Compliance | Evidence | Comments |
|--|---|---------------|---------------------|--|
| R2.1 | Notifications must be made by telephoning the Environment Line service on 131 555. | Not Triggered | N/A | Not applicable, 2015 Annu incidents during the audit |
| R2.2 | The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred. | Not Triggered | N/A | Not applicable, 2015 Annu incidents during the audit |
| R3 | Written report | | | |
| R3.1 | Where an authorised officer of the EPA suspects on reasonable grounds that: | Not Triggered | N/A | Not applicable, not reques |
| | a) where this licence applies to premises, an event has occurred at the premises; or | | | |
| R3 | 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. | | | |
| 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. | Not Triggered | N/A | Not applicable, not reques |
| R3.3 | The request may require a report which includes any or all of the following information: | Not Triggered | N/A | Not applicable, not reques |
| | 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) g) any other relevant matters. | | | |
| 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. | Not Triggered | N/A | Not applicable, not reques |
| 7 | GENERAL CONDITIONS | | | |
| G1 | Copy of licence kept at the premises or plant | | | |
| G1.1 | A copy of this licence must be kept at the premises to which the licence applies. | Compliant | Site visit | Kept in hard copy in a perr |
| | | | Documentation – EPL | during the site inspection. |
| G1.2 | The licence must be produced to any authorised officer of the EPA who asks to see it. | | Site interview | EPA visited for a visual wa auditing fees on 15/03/201 |
| <i>G1.3</i> The licence must be available for inspection by any employee or agent of the licensee working at | | Compliant | Site visit | Kept in hard copy in a perr |
| | the premises. | | Documentation – EPL | during the site inspection. |
| G2 | Other general conditions | | | |

nual Review indicates there were no lit period.

nual Review indicates there were no lit period.

lest for a written report received.

ermit compliance folder on-site. Sighted n.

walk around in regard to the risk based 2016. Licence was available for inspection

ermit compliance folder on-site. Sighted n.

| _ | | | | | | | |
|---|--------|---|---|-----------------|------------|----------|----------------------------|
| | Number | | | | Compliance | Evidence | Comments |
| | G2.1 | | | | Compliant | | Noted. Sighted the wheel v |
| | | PRP | Description | Completed | | | |
| | | PRP 1: Installation and Use of a Wheel Wash at the Premises | Construction and Utilisation of a vehicular wheel wash for all vehicles exiting the premises. | 28 October 2011 | | | |

I wash during the site inspection.

Appendix C – Agency correspondence for the audit



ContactHannah GroganPhone(02) 4904 2616Emailhannah.grogan@dpi.nsw.gov.auOur refER21809

Ashley Robinson Lead Environmental Auditor GHD Pty Ltd By email: Ashley.Robinson@ghd.com

Dear Ms Robinson

Jandra Quarry Independent Environmental Compliance Audit

Thank you for the opportunity to comment on the planned independent environmental compliance audit of Jandra Quarry.

DPI Water understands that the scope of the assessment as outlined under the development consent extends at least to:

- Compliance with conditions of consent;
- Compliance with the statements of commitments as appended to the consent;
- Compliance with any reporting or management requirements within any relevant management plans prepared under the consent.

DPI Water further requests that the audit consider compliance with the relevant water licensing requirements for the quarry operation, specifically:

- Assessment as to whether the project holds the required water entitlements, approvals and licenses under the *Water Management Act 2000* or *Water Act 1912* (as applicable);
- Compliance with the conditions of any water licenses/approvals held.

The following questions may aid in assessing the water licensing requirements of the mine operation:

- Do the relevant management plans adequately describe the water licensing requirements under the *Water Management Act 2000/Water Act 1912*, and compliance with these requirements?
- Are adequate records kept to enable determination of the volume and source of surface and groundwater taken?
- Is the operation capturing and/or harvesting any clean water?
- Has the proponent calculated its maximum harvestable right under the *Water Management Act 2000*?
- Is the capture of water in excess of the harvestable right?
- Do any exemptions under the *Water Management (General) Regulation 2011* or Harvestable Rights Order (gazetted 31 March 2006) apply to the capture of water?
- If necessary, does the proponent hold water access licenses in the correct water sources under the relevant water sharing plan (for the take of surface water or alluvial groundwater),

or licences under part 5 of the *Water Act 1912* (for the take of groundwater from nonalluvial aquifers), and do they hold sufficient quantity of entitlement under these licenses?

I trust this information is of assistance. If you wish to provide any feedback on the style, detail, or utility of this advice, I would be pleased to receive it via the contact details specified above.

Yours sincerely

addes SRP1

Hemantha De Silva Senior Water Regulation Officer (Projects) 11 May 2016

Ashley Robinson

| From: | Ashley Robinson |
|----------|--|
| Sent: | Tuesday, 17 May 2016 8:10 PM |
| То: | Lidbetter, Daniel (daniel.lidbetter@lafargeholcim.com) |
| Cc: | matt.neil@lafargeholcim.com; david.saville@lafargeholcim.com; Elliot Holland |
| Subject: | FW: Jandra Quarry Audit |

Hi Dan,

Please see comments from Greater Taree City Council. We will discuss these comments during the audit.

Regards

Ashley Robinson Principal Environmental Scientist

GHD

T: +61 2 9239 7089 | V: 217089 | M: 0405 480 070 | E: <u>ashley.robinson@ghd.com</u> Level 15 133 Castlereagh Street Sydney NSW 2000 Australia | <u>www.ghd.com</u>

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Please consider our environment before printing this email

From: Arnna Fotheringham [mailto:Arnna.Fotheringham@gtcc.nsw.gov.au] Sent: Tuesday, 17 May 2016 5:20 PM To: Ashley Robinson Subject: Jandra Quarry Audit

Ashley

In addition to the comments submitted to your by Council's Development Engineer regarding the SWMP and condition 19, I provide further comments from relevant Officers

Senior Health and Building Surveyor Georgina Martin - Condition 20

I have located 2 applications for approval to operate an existing OSSM System for the owner Holcim (Australia)Pty Ltd as follows:

- 1. Property 15286 lot 14 DP 7900516 Pacific Hwy Possum Brush(PIN 19477) is the location of Jandra Quarry now in the name of Holcim. A council officer carried out an OSSM Enforcement inspection in 2004. The inspection revealed that a Domestic Aerated wastewater treatment system is installed to service the Amenities block. The system has and continues to be serviced by R &G Dobbs Wastewater Treatment and Service repairs. Council has not issued an Approval to operate the system. It is therefore recommended that an Audit review is carried out on the system by a suitably qualified wastewater Consultant to determine that the existing system is adequately designed and posing no risk to the environment and public health. A copy of the report should be submitted to Council for review along with an application under section 68 of the Local Government Act 1993 for Approval to operate the Onsite Sewage Management System.
- 2. Property 15312 lot 15 DP 790056 Pacific Hwy Possum Brush(PIN19451) is the adjoining property also owned by Holcim. No Council inspection on the existing OSSM has been carried out. It is also recommended that an audit review of the existing system is carried out by a suitably qualified wastewater consultant. A copy of the report shall be submitted to Council along with and an application under section 68 of the Local Government Act 1993 for an approval to operate the OSSM System.

Environmental Officer Sharon Rose - Condition 25

Previously ...

8/1/16 – review of the Biodiversity & Rehabilitation Management Plan, comments and one recommendation provided to Arnna, which noted the fauna protection methods during tree felling were outdated and could be updated. See attached comments with recommendation, which was attached to Arnna's email to Ian Shenton.

12/1/16 – Arnna forwarded comments and recommendation to Ian Shenton

12/1/16 – Ian Shenton replied to Arnna "Thanks for the response Arnna. The proposed inspection methods look interesting (and effective!). I'll have a chat to our Quarry Manager about the feasibility of an activity like this. Keep you posted. Regards, Ian"

Since then ...

No further information has been provided other than letter to Arnna on 7/5/16. No updated/amended Biodiversity & Rehabilitation Management Plan has been received for review and comment.

Suggestion ...

The independent consultant could ask Ian Shenton if the recommendation provided by Arnna via email on 12/1/16 has been/will be incorporated into the Plan, or another action taken. Then advise Council accordingly. If the Plan has been amended we are happy to review. If the Plan hasn't been updated, we would like to know why not and how they are going to protect fauna from harm during tree felling.

If you require anything further please contact me to discuss.

Regards

Arnna Fotheringham Development Planner | Regulatory Services t: 02 6592 5247 | m: 0428 293 416 e: <u>arnna.fotheringham@gtcc.nsw.gov.au</u> | w: <u>www.gtcc.nsw.gov.au</u> MidCoast Council

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This e-mail has been scanned for viruses

Ashley Robinson

| From: | Ashley Robinson |
|----------|--|
| Sent: | Wednesday, 11 May 2016 6:46 PM |
| То: | Lidbetter, Daniel (daniel.lidbetter@lafargeholcim.com) |
| Cc: | matt.neil@lafargeholcim.com; Elliot Holland |
| Subject: | FW: Jandra Independent Environmental Audit - request for Comment |

Dan,

Please see email from OEH below in regards to our request for comment. No further action is required.

Regards

Ashley Robinson Principal Environmental Scientist

GHD

T: +61 2 9239 7089 | V: 217089 | M: 0405 480 070 | E: <u>ashley.robinson@ghd.com</u> Level 15 133 Castlereagh Street Sydney NSW 2000 Australia | <u>www.ghd.com</u>

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

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From: Steve Lewer [mailto:Steve.Lewer@environment.nsw.gov.au] Sent: Wednesday, 11 May 2016 11:03 AM To: Ashley Robinson Cc: Richard Bath Subject: RE: Jandra Independent Environmental Audit - request for Comment

Dear Ashley

OEH is unable to provide a detailed reply in the time-frame provided, nor is it necessary. OEH can confirm that Holcim has been in consultation with OEH on both the two conditions, albeit after the specified deadlines noted in the approval conditions.

• On 31 March 2016 Holcim & OEH discussed the offset strategies and the possibility of retiring appropriate biodiversity credits from a registered BioBanking site. At present OEH supports the latter approach, though if either one of the proposed methods in the condition (Condition 23) be achieved we would support these.

• With respect to the *Biodiversity and Rehabilitation Management Plan* (Condition 25), Holcim requested comment in December 2015 (well after the August 2015 deadline in Condition 25) and OEH provided a written response on 10 December 2015 acknowledging consultation. In this correspondence we stated: 'The Office of Environment and Heritage (OEH) encourages the development of such plans to ensure that proponents have determined how they will meet their statutory obligations and designated environmental objectives. However, OEH does not approve or endorse these documents as our role is to set environmental objectives for environmental/conservation management, not to be directly involved in the development of strategies to achieve those objectives. OEH acknowledges Holcim's requirement to consult with relevant government agencies and considers that you have consulted with OEH through providing this document'.

If you require any further information or require clarification of the above points please call or email me.

Regards Steve

Steve Lewer Regional Biodiversity Conservation Officer – Hunter / Central Coast Region Hunter Central Coast Region Regional Operations Group Office of Environment and Heritage Level 4, 26 Honeysuckle Drive NEWCASTLE Locked Bag 1002 Dangar NSW 2309

T: 4927 3158 M: 0459 082 162 Email: steve.lewer@environment.nsw.gov.au W: www.environment.nsw.gov.au

From: Ashley Robinson [mailto:Ashley.Robinson@ghd.com] Sent: Tuesday, 10 May 2016 7:33 PM To: Steve Lewer Cc: Richard Bath; Lidbetter, Daniel (<u>daniel.lidbetter@lafargeholcim.com</u>) Subject: Jandra Independent Environmental Audit - request for Comment

Hi Steve,

GHD has been engaged by Holcim (Australia) Pty Ltd to undertake an independent audit of the Jandra Quarry operations. The audit requires consultation with relevant agencies and as such we are requesting comment from OEH with regard to those conditions relevant to Council.

I have attached a letter requesting comment by 18 May 2016. If I don't hear from OEH prior to this date we will assume that you have no comments.

If you have any queries, please give me a call.

Regards

Ashley Robinson Principal Environmental Scientist

GHD

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