



GSQ Holdings Pty Ltd
Richmond Quarry
Independent Environmental Audit

December 2018

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1. Introduction

1.1 Introduction

Richmond Quarry is a sandstone quarry located on Wyrallah Road, Tuckurimba, 16 km south of Lismore on the Far North Coast of New South Wales. The quarry has been in operation since 1959 and was previously approved to extract approximately 64,000 tonnes per annum over a period of 15 years. With an estimated resource of approximately 12 million tonnes of quality sandstone material at the site, the quarry has now been approved (Project Approval 09_0080) to expand its operations to extract 250,000 tonnes of sandstone material per year until the year 2038. This expansion involves extraction from a central extraction area (CEA) and a southern extraction area (SEA), covering approximately 16 hectares.

Richmond Quarry is currently operating in accordance with the following approvals:

- Project Approval 09_0080
- Environmental Protection Licence (EPL) 20562

GHD Pty Ltd (GHD) was commissioned by GSQ Holdings Pty Ltd (GSQ), and approved in advance by the NSW Department of Planning and Environment (DPE), to conduct an independent environmental audit (IEA) of Richmond Quarry's compliance with the requirements of Project Approval 09_0080.

This is the second IEA to be undertaken for the site.

The quarry changed ownership, management and name on 01 July 2018. For the period of the audit Champions Quarry were operating the site however Richmond Quarry were operating the site when the audit was undertaken. This meant some information and history was not available.

1.2 Scope of the audit

The scope of the audit was defined by Condition 9, Schedule 5 of the Conditions of Consent as follows:

"Within a year of the commencement of development on site under this approval, and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:

(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General;

(b) include consultation with the relevant agencies;

(c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL and/or Water Licence (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 project, and/or any assessment, plan or program required under these approvals."

The methodology of the audit is outlined in Section 2. The period of the audit is July 2015 to June 2018 (the reporting period).

1.3 Audit team members

GHD undertook the audit at the request of Richmond Quarry, with the team outlined below.

- Shaun Lawer – Project Director
- Ben Luffman – Project Manager and Lead Auditor
- Demelza Scott – Technical Review
- Craig Evenden – Air and Noise Specialist
- Daniel Williams – Rehabilitation Specialist
- Arien Quinn – Ecological Specialist
- Stephanie Martin – Project Assistant

The audit team were approved by DPE in a letter dated 03 July 2015 to undertake this audit.

1.4 Limitations

This report has been prepared by GHD for GSQ Holdings Pty Ltd and may only be used and relied on by Richmond Quarry for the purpose agreed between GHD and GSQ Holdings Pty Ltd as set out in Section 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than GSQ Holdings Pty Ltd 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.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in the proposal. GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report on the basis of information provided by GSQ Holdings Pty Ltd and others who provided information to GHD (including Government authorities), 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 was carried out in accordance with the requirements of ISO 19011:2014 '*Guidelines for quality and/or environmental management systems auditing*' and *Independent Audit – Post Approval Requirements* (DPE 2018). In particular, the GHD team conducted the audit considering the following:

- The key principles of auditing including the requirement of auditors to conduct themselves in an ethical manner, report truthfully and accurately, be diligent and have the appropriate competency to conduct the audit, be independent, and apply an evidence-based approach to conducting the audit.
- The audit objectives, scope and criteria were based on the Conditions of Consent. The scope of the audit was limited to compliance with the conditions of Project Approval 09_0080, the environmental performance of the project, and the adequacy of strategies plans or programs under the approval.
- An appropriate audit team was selected with the skills in air and noise, erosion and sediment control, ecology, rehabilitation and environmental auditing to ensure that an adequate assessment of compliance with the Conditions of Consent could be made.
- Relevant documentation (as detailed below) was reviewed prior to the audit to make an initial determination of conformity of the system to the requirements of the Conditions of Consent, and to prepare an audit checklist containing appropriate questions to address during the site audit.
- Informal audit opening and closing meetings were conducted with the auditee to explain the format of the audit upfront and to highlight preliminary audit findings at the conclusion of the site audit.
- Verifiable evidence was collected and recorded throughout the audit and evaluated against the Conditions of Consent to determine conformity or non-conformity.
- A complete and accurate report was prepared and distributed to provide a record of the audit and its findings.

2.1 Review of documentation

GHD reviewed documentation relevant to the operations at Richmond Quarry, including:

- Management plans referenced in the planning approval and other instruments
- Monitoring and calibration records
- Correspondence with relevant stakeholders including authorities
- Inspection checklists
- Site procedures
- Training materials
- Reports prepared as required in the planning approval and other instruments
- Contractual documents with external service providers
- Agendas and minutes of meetings.

The documentation sighted by the auditors is referenced in the compliance tables presented in Appendix A.

2.2 Consultation with relevant agencies

To satisfy Condition 9 in Schedule 5 of the Project Approval, GHD sought consultation with the following agencies prior to the site audit:

- DPE
- Environment Protection Authority (EPA)
- Office of Environment and Heritage (OEH)
- Lismore City Council (LCC)
- Department of Industry (Water) (Dol Water)
- Department of Planning and Environment (Division of Resources and Geosciences) (DPE R&G)
- Roads and Maritime Services (RMS)
- Department of Primary Industries (Agriculture) (DPI)
- DPI (Fisheries)
- Dol Lands & Water

The abovementioned agencies were contacted by telephone and email advising them of the upcoming audit, GHD's role in conducting the audit and invited comment on Richmond Quarry's performance with the requirements of the approval that related to their agency. A summary of the response from the agencies is provided in Table 2-1. A copy of the correspondence with the agencies is provided in Appendix C.

Table 2-1 Agency comments

Agency	Comment	Where addressed
DPE	The latest response to the 2017 AEMR	Appendix A, Schedule 5, Condition 4
	The relocation of monitoring sites	Section 3
	Extraction outside of the approved extraction boundary	Appendix A, Schedule 2, Condition 7
	Compliance with requirements in the Koala offset area	Appendix A, Schedule 3, Condition 40
	Compliance and procedures/processes for truck monitoring and reporting	Appendix A, Schedule 2, Condition 9
	Adequacy of ERSED plans and the implementation and management of these on site	Section 3.1.8
	Compliance with Noise monitoring conditions and the adequacy of mitigation provided with the location of noise bund E	Section 3.1.5
	Compliance with regard to the size of basins	Section 3.1.8
EPA	EPA have suggested the scope should include a review of: <ul style="list-style-type: none"> • ERSED • flocculants 	Section 3.1.8
LCC	Council has no specific issues/matters that it wishes to be considered as part of the independent audit activity	NA

Agency	Comment	Where addressed
DOE R&G	DOE R&G were contacted for comment during the audit but a response has not been received.	NA
OEH	OEH requested the following conditions be addressed: <ul style="list-style-type: none"> • Condition 36 – Heritage Management Plan • Condition 37 – Setback from Dry Rainforest/Lowland Rainforest EEC • Condition 38 – Tuckean Swamp and Wetland • Condition 39 - Koalas • Condition 40 – Biodiversity Offset Strategy • Condition 45 – Landscape Management Plan 	Appendix A
RMS	RMS suggested confirming Condition 23(b) had been implemented and the Transport Management Plan should include a Code of Conduct for haulage operators that includes, but is not limited to, the following; <ul style="list-style-type: none"> • A map of the primary haulage routes highlighting critical locations. • Safety initiatives for haulage through residential areas, school zones and along school bus routes. • An induction process for vehicle operators and regular toolbox meetings. • A complaint resolution and disciplinary procedure. • Any community consultation measures for peak haulage periods. 	Appendix A Section 3.1.6
DPI (Fisheries)	DPI Fisheries has no current compliance or environmental issues with the quarry.	NA
DPI (Agriculture)	There are no specific operational issues relating to agriculture that require additional attention other than the usual amenity impacts (e.g. air quality, noise etc.) and the restriction of stock to the site during the operational phase of the project.	Section 3
Dol Lands & Water (Water)	Dol requested the audit consider: <ul style="list-style-type: none"> • Assessment as to whether the project holds the required water entitlements and licences under the Water Management Act 2000 or Water Act 1912 (as applicable); • Compliance with the conditions of any water licences/approvals held; • Identification of all water storages for the quarry and identification of their licensing status being either exempt, subject to harvestable rights or regulated via a Water Access Licence. • Quantification of both active and passive take by the project from each relevant water source and a comparison against previously modelled predictions. • Compliance against performance measures within the consent related to water sources, including the Guidelines for Controlled Activities on Waterfront Land and design and installation of creek crossings, management of clean water diversions and sediment dams, stream diversion performance measures and aquatic and riparian ecosystem performance measures 	NA – the quarry does not hold a water licence Appendix A Section 3.1.8

Agency	Comment	Where addressed
	<ul style="list-style-type: none"> Compliance with the requirements of the Water Management Plan 	
Dol Lands & Water (Lands)	DPI Crown Lands indicated there is no Crown land associated with the quarry	NA

2.3 Site audit and inspection

A site visit and audit at Richmond Quarry was conducted by GHD Auditor Ben Luffman on 27 September 2018. This included interviews with relevant personnel and observations guided by the audit criteria which addressed the conditions of the Project Approval.

The assessment of activities included:

- Document review and sighting of a selected cross section of data, records, correspondence, procedures and management plans
- Observations on site including:
 - Extraction area
 - Water management infrastructure
 - Chemical storage
 - Rehabilitation areas
 - Access roads
 - Bunds
 - Sand washing area
- Interviews with relevant personnel, including:
 - Tshintia O'Dwyer - Environment / Quality Co-ordinator
 - Steve Scifleet – QSE Manager
 - Matt Duff – Quarry Manager

Richmond Quarry personnel provided both soft and hard copies of documentary evidence to support their compliance with the audit criteria.

2.4 Compliance assessment criteria

In accordance with *Independent Audit – Post Approval Requirements* (DPE 2018), the compliance of each requirement was reported as described in Table 2-2.

Table 2-2 Assessment criteria

Status	Definition
Compliant	The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.
Non-compliant	The auditor has determined that one or more specific elements of the conditions or requirements have not been complied with within the scope of the audit.
Not triggered	A requirement has an activation or timing trigger that has not been met at the time when the audit is undertaken, therefore an assessment of compliance is not relevant.
Not verified	Although not a status in DPE (2018), not verified was used occasionally when it was not possible to obtain verifiable evidence conditions or requirements have not been complied with within the scope of the audit
Not applicable	This is for those conditions that were statements to be noted rather than to comply with or had been triggered but were not applicable to the reporting period.

3. Adequacy of plans and environmental performance

The audit assessed the adequacy of the strategies and management plans prepared for the development and the environmental performance of the development. Adequacy and environmental performance was determined based on inclusion of content in relevant conditions, suitability of the plans for the operations and effectiveness in managing environmental impact of the development. The effectiveness was assessed based on observations during the site visit.

The adequacy of the plans and environmental performance is discussed below. The plans reviewed included:

- Environmental Management Strategy – Version 3.2 (October 2017)
- Air Quality Management Plan - Version 2.2 (October 2017)
- Heritage Management Plan - Version 2.2 (October 2017)
- Landscape Management Plan - Version 3.2 (October 2017)
- Noise Management Plan - Version 2.2 (October 2017)
- Transport Management Plan - Version 2.2 (October 2017)
- Waste Management Plan - Version 2.2 (October 2017)
- Water Management Plan - Version 2.2 (October 2017)

3.1.1 Environmental Management Strategy

The Environmental Management Strategy is the overarching document that provides a framework for the environmental management at the quarry. It meets the conditions of the Project Approval and has been approved by DPE.

3.1.2 Air Quality Management Plan

The Air Quality Management Plan meets the requirements of the conditions of the Project Approval and has been approved by DPE. The induction and site observations indicated that the management measures are being implemented. In particular:

- The access road is sealed
- Stockpiles are covered or revegetated

There have been no complaints regarding dust and the monitoring records indicate the management measures have been effective. One exceedance of the criteria was reported in November 2016 but was reported to be due to beetles. The dust deposition gauge was reported to be filled with water on a number of occasions, preventing sample results from being recorded.

Due to access restrictions as a result of the change in quarry management, the location of the dust deposition gauge has recently been moved to within the quarry boundary between the operations and Receiver 2. It appears a suitable location and DPE have been notified by email dated 11 September 2018.

<p>Recommendation 1: Revise the Air Quality Management Plan to include the new dust monitoring location. It is also recommended to include a figure showing the monitoring location.</p>



Figure 3-1 New dust monitoring location

3.1.3 Heritage Management Plan (HMP)

The HMP includes all the information required by the conditions of the Project Approval and has been approved by DPE. The induction includes information about heritage issues and mitigation measures.

It was reported that no items of archaeological significance had been identified to date.

3.1.4 Landscape Management Plan

The Landscape Management Plan (LMP) includes all the information required by the conditions of the Project Approval. The LMP broadly focuses on the rehabilitation of the offset site and the progressive rehabilitation of the quarry.

Revegetation works, in the form of planting, were observed but it is difficult to determine from the LMP exactly what is required and when. For example, Table 9.2 outlines the rehabilitation objectives and performance indicators, while Table 10.1 outlines the short, medium and long term measures. Both tables present similar, but different, and at times conflicting information. This, along with the lack of monitoring information made it difficult to determine if the LMP is being implemented as required.

Pegs reportedly indicating the extent of the rehabilitation area were observed, although there was some uncertainty about what the pegs indicated. No active or recent rehabilitation was observed.

It is too early for rehabilitation of the quarry to have commenced.

Recommendation 2: Update the Landscape Management Plan to clarify what is required in regard to rehabilitation.

Recommendation 3: Undertake the monitoring and reporting outlined in the Landscape Management Plan to monitor the success of the rehabilitation and identify where remedial action is necessary.

Recommendation 4: Engage a surveyor to re-establish/re-mark the pegs delineating the rehabilitation areas.



Figure 3-2 Revegetation

3.1.5 Noise Management Plan

The Noise Management Plan includes all the information required by the conditions of the Project Approval and has been approved by DPE. The induction included information about noise mitigation and noise bunds were observed during the site inspection.

There was a noise complaint on 27 January 2016 but the investigation determined the noise was not related to the quarry.

There have been some issues with the monitoring in the past but a consultant now undertakes the monitoring which has provided more reliable data. Due to access restrictions, Richmond Quarry have informed DPE by email dated 11 September 2018, the noise monitoring locations have changed slightly.

Bund E is intended to provide visual and noise protection to the adjacent residents from the sand washing plant, however the bund has not been constructed between the sand washing plant and residents due to the location of the sand washing sediment ponds. The closest identified sensitive receiver (Resident 2) is however protected by Bund A. Noise monitoring and complaints will be used to determine if the sand washing operation creates noise issues for the sensitive receivers and if Bund E needs to be extended.

Recommendation 5: Revise the Noise Management Plan to include the new noise monitoring location. It is also recommended to include a figure showing the monitoring location.

3.1.6 Transport Management Plan

The Transport Management Plan includes all the information required by the conditions of the Project Approval and has been approved by DPE. RMS has suggested the Drivers Code of Conduct be updated to include:

- A map of the primary haulage routes highlighting critical locations.
- Safety initiatives for haulage through residential areas, school zones and along school bus routes.
- An induction process for vehicle operators and regular toolbox meetings.
- A complaint resolution and disciplinary procedure.
- Any community consultation measures for peak haulage periods.

Most of these suggestions are addressed in the current Drivers Code of Conduct or the Transport Management Plan. However, the Transport Management Plan needs to be updated due to the change in operators, so it is suggested the RMS be consulted during this review process to confirm their requirements. Site observations in relation to transport management included road signs (see Figure 3-3) and driver's code of conduct induction records which indicated that the management measures are being implemented. However, during 2017 there were a number of incidents of non-compliance with the number of truck movements permitted by the Project Approval. Richmond Quarry has recently implemented an improved tracking system which is intended to prevent further incidents by closely monitoring truck movements.

Recommendation 6: Consult with RMS during the review of the Transport Management Plan.

Recommendation 7: Maintain the new truck monitoring system to ensure it captures all the information required and prevents further incidents in regards to truck movements.



Figure 3-3 Traffic control signs

3.1.7 Waste Management Plan

The Waste Management Plan includes all the information required by the conditions of the Project Approval and has been approved by DPE. Bins were observed on site and the site appeared neat and tidy. Waste dockets were provided to show waste is disposed of appropriately, however, although there is not much waste, it does not appear recycling is occurring.

Recommendation 8: Introduce a system to encourage recycling of waste products.

3.1.8 Water Management Plan

The Water Management Plan includes all the information required by the conditions of the Project Approval and has been approved by DPE. Observations onsite indicate sediment and erosion controls are being implemented.

There are various basins, including the Water Reuse Dam which is licenced by the EPL. All basins contained water and it was reported that the water is used, primarily for dust control. No discharge from the Water Reuse Dam was reported.

A marker indicating the discharge point and capacity required in the Water Reuse Dam was observed. The marker and Water Management Plan indicate 6ML is required to achieve the storage volume required, however the calculations in Annexure A suggest 12 ML is required. The calculations are based on the whole quarry being disturbed and a 95.3 mm design rainfall event, when currently only part of the quarry area is disturbed and the EPL design rainfall event is 60.2 mm. Table 7.3 of the Water Management Plan provides the details for a basin based on a 9 hectare catchment but the calculations have not been provided.

Water quality monitoring has been undertaken in accordance with EPL requirements. MP5 is the EPL monitoring location. There have not been any discharges of water offsite reported through MP5.

No groundwater seepage was observed and is unlikely given the current depth of the quarry which is above the groundwater level.



Figure 3-4 Water reuse dam and basin marker

Although sediment and erosion controls have been implemented some improvements to the management of water on site could be made, for example, use of check dams in drains next to access roads to prevent scouring, maintenance of existing controls and stabilisation or sediment control of batters (refer to photographs below).

Fuels and chemicals are not being stored in accordance with the Australian Standards and EPA bunding requirements. Richmond Quarry store small quantities of fuel and chemicals in the shipping containers and a storage shed on site. Two mobile bunds are maintained in one of the shipping containers, and while the larger Valvoline drums were stored on the mobile bunds, the bunds were overcrowded and with containers too close to the edge of the bund. A number of other containers of fuels and chemicals were stored unbunded on the floor of this shipping container. Spilt liquid is evident on the floor of the shipping container which has not been cleaned up. There were some containers that were not labelled (refer to Figure 3-7).

- The second shipping container contains much smaller quantities of chemicals however they are not bunded (refer to Figure 3-8).

The storage shed contains a mobile bund with two containers of waste oil, an IBC and a drum. The IBC is too large for the bund (refer to Figure 3-9).

There is no placarding on the chemical storage areas. There was no spill kit in the vicinity of the chemical storage areas. A Safety Data Sheet register was not reviewed as part of the audit.

Stored chemicals and fuels in accordance with the applicable Australian Standard and EPA bunding requirements – refer to CAR 4.



Figure 3-5 Exposed batter adjacent to offset area



Figure 3-6 Sediment control requiring maintenance



Figure 3-7 Storage of chemicals



Figure 3-8 Storage of chemicals



Figure 3-9 Waste oil storage

Recommendation 9: Review the Water Management Plan sediment basin calculations to ensure they are in accordance with *Managing Urban Stormwater Soils and Construction – Volume 2e Mines and quarries* (DECC, 2008) and EPL. It is also recommended the calculations be done for individual stages.

Recommendation 10: Develop and implement a procedure to record that sediment basins are monitored and maintained appropriately.

Recommendation 11: Review erosion and sediment controls across the site to ensure that they provide adequate protection and are installed and maintained in accordance with DECC 2008.

4. Key findings

Table 4-1 presents a summary of compliance with conditions of the Project Approval 09_0080 and EPL 20562 while Table 4-2 lists the corrective actions and Table 4-3 lists the recommendations. Compliance status against each clause of the approval and EPL is presented in Appendix A and Appendix B.

As shown by Table 4-1, overall, Richmond Quarry demonstrated a reasonable level of compliance with the conditions of the Project Approval 09_0080 and EPL 20562.

Table 4-1 Summary of compliance

Rating	Compliance with Project Approval 09_0080	Compliance with EPL 20562
Compliant	41	30
Non-compliant	18	4
Not triggered	18	15
Not verified	1	2
Not applicable	4	7

4.1 Corrective Actions

Corrective actions are required to correct matters of compliance identified by the audit. The corrective actions identified during the audit, as detailed in Appendix A and Appendix B, are summarised in Table 4-2.

Table 4-2 Corrective actions

No.	Condition	Corrective Action
CAR 1	Project Approval, Condition 14, Schedule 2	Confirm the demountable building and shed have been constructed in accordance with the BCA and obtain construction and occupation certificates
CAR 2	Project Approval, Condition 2, Schedule 3	Install boundary pegs that are clear and permanent, so limits of extraction areas are easy to identify
CAR 3	Project Approval, Condition 6, Schedule 3	Reinforce operating hours to employees
CAR 4	Project Approval, Condition 16, Schedule 3	Store chemicals in accordance with Condition 16, Schedule 3
CAR 5	Project Approval, Condition 19, Schedule 3	Obtain confirmation from the Secretary that they are satisfied with the works required by Condition 19, Schedule 3
CAR 6	Project Approval, Condition 1, Schedule 4	Notify the affected landowners when exceedances of monitoring criteria occur
CAR 7	Project Approval, Condition 1A, Schedule 5	Where required by the conditions, provide evidence of consultation with public authorities, any comments and how the comments have been addressed, as per Condition 1A, Schedule 5
CAR 8	Project Approval, Condition 2, Schedule 5	Notify the Secretary when exceedances of monitoring criteria occur
CAR 9	Project Approval, Condition 4, Schedule 5	Submit the Annual Review by the end of March each year and include all of the requirements of Condition 4, Schedule 5.
CAR 10	Project Approval, Condition 5, Schedule 5	Review management plans as required by Condition 5, Schedule 5 and submit to the Secretary within the specified timeframes
CAR 11	Project Approval, Condition 7, Schedule 5	Report incidents to the Secretary and other relevant agencies within seven days of the incident

4.2 Recommendations

Recommendations seek to address matters of concern raised by agencies, matters that may lead to a non-compliance or where the elements of the proponents' systems and plans were not found to be effective. The recommendations arising from the audit are summarised in Table 4-3.

Table 4-3 Recommendations

No.	Reference	Recommendation
R1	Air Quality Management Plan	Revise the Air Quality Management Plan to include the new dust monitoring location. It is also recommended to include a figure showing the monitoring location
R2	Landscape Management Plan	Update the Landscape Management Plan to clarify what is required in regards to rehabilitation
R3	Landscape Management Plan	Undertake the monitoring and reporting outlined in the Landscape Management Plan to monitor the success of the rehabilitation and identify where remedial action is necessary
R4	Landscape Management Plan	Engage a surveyor to re-establish/re-mark the pegs delineating the rehabilitation areas
R5	Noise Management Plan	Revise the Noise Management Plan to include the new noise monitoring location. It is also recommended to include a figure showing the monitoring location
R6	Transport Management Plan	Consult with RMS during the review of the Transport Management Plan.
R7	Transport Management Plan	Maintain the new truck monitoring system to ensure it captures all the information required and prevents further incidents in regards to truck movements
R8	Waste Management Plan	Introduce a system to encourage recycling of waste products
R9	Water Management Plan	Review the Water Management Plan sediment basin calculations to ensure they are in accordance with Managing Urban Stormwater Soils and Construction – Volume 2e Mines and quarries (DECC, 2008) and EPL. It is also recommended the calculations be done for individual stages
R10	Water Management Plan	Develop and implement a procedure to record that sediment basins are monitored and maintained appropriately
R11	Water Management Plan	Review erosion and sediment controls across the site to ensure that they provide adequate protection and are installed and maintained in accordance with DECC 2008
R12	Project Approval, Condition 7, Schedule 2	Survey and peg the boundary of all approved Extraction Areas and the quarry floor on a periodic basis to demonstrate compliance with Condition 7, Schedule 2
R13	Project Approval, Condition 13, Schedule 3	Revise the Water Management Plan to update the water budget with consideration that the proposed Water Supply Dam is no longer an option.
R14	Project Approval, Condition 38, Schedule 3	Implement and record the routine inspections of Tuckean Swamp and Tucki Tucki Creek
R15	Project Approval, Condition 42, Schedule 3	Obtain from DPE confirmation the Offset Strategy and Conservation and Rehabilitation Bond is the long term security required by Condition 42, Schedule 3

Appendices

Appendix A – MCoA Audit Checklist

Table A-1 Compliance with Project Approval 09_0080 - Schedule 2

Number	Condition	Compliance	Evidence	Comments
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT				
1	In addition to meeting the specific performance criteria established under this approval, the Proponent must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the project	Non-compliant	Refer below	GSQ have implemented measures to prevent and/or minimise harm to the environment, although there are some areas where there is opportunity for improvement, as discussed in the following tables.
TERMS OF APPROVAL				
2	<p>The Proponent must carry out the development:</p> <p>(a) generally in accordance with the EA, EA (MOD 1), EA (MOD 2) and EA (MOD 3); and</p> <p>(b) in accordance with the Project Layout Plans, the Statement of Commitments and the conditions of this approval.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • The Project Layout Plans are included in Appendix 2; and • The Statement of Commitments is included in Appendix 3. 	Non-compliant	Refer below	<p>GSQ are generally carrying out the development in accordance with the requirements of this condition.</p> <p>The extent of conformance with this condition is assessed by this audit. As outlined in the following tables, there are some non-compliances.</p>
3	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.	Not triggered		No inconsistency between the nominated documents has been identified.
4	The Proponent must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:	Compliant	<p>Letter from DPE dated 3 August 2018</p> <p>Annual Review dated 28 September 2018</p>	<p>GSQ complied with any reasonable requirements of the Secretary during the reporting period.</p> <p>The Secretary issued a letter dated 3 August 2018 requesting the Annual Review 2017 be revised. GSQ provided an updated Annual Review dated 28 September 2018 which generally addresses the Secretary requirements.</p> <p>The previous IEA identified a number of non-conformances. GSQ have been progressively addressing the non-conformances as agreed with the Secretary. According to Appendix C, Annual Review 2017, although progressed, two non-conformances have not been closed out.</p>

Number	Condition	Compliance	Evidence	Comments
SUBDIVISION				
5	The Proponent may subdivide the land on site in general accordance with the subdivision plan shown in Appendix 4. Prior to obtaining a subdivision certificate, the Proponent must prepare a final subdivision plan for the land to the satisfaction of the Secretary.	Not applicable	Nil	This condition is not applicable to the audit period as the subdivision occurred in the previous reporting period.
LIMITS ON APPROVAL				
Quarrying Operations				
6	The Proponent may carry out quarrying operations on the site until 31 December 2038. Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this approval 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.	Compliant		GSQ are conducting quarrying operations on the site in accordance with the requirements of Schedule 2 Condition 6.
Extractive Material Extraction				
7	The Proponent must not extract extractive materials: (a) outside of the Extraction Areas (other than as required for the approved construction or operation of the project); (b) below a level of 12 m AHD in the Central Extraction Area; and (c) below a level of 8 m AHD in the Southern Extraction Area. <i>Note: The Extraction Areas are shown in Figure 3 in Appendix 2.</i>	Not verified	Letter from Ausrocks dated 13 November 2013 Letter from RCS Group dated 15 August 2018 Pegs on site with levels indicated	Compliance with the requirements of Condition 7, Schedule 3 could not be verified at the time of audit. <u>Extraction Areas</u> A survey of the Southern Extraction Area by RCS Group appears to be consistent with Figure 3 in Appendix 2. Some pegs marking the corners of the SEA were observed and it appears earthworks have occurred outside the extraction area but GSQ claim this was associated with the operational requirements of the quarry e.g. access. A survey or pegs for the Central Extraction Area were not provided, however GSQ reported there has been no extraction from the CEA since they have been operating the quarry which was supported by site observations. <u>Southern Extraction Area AHD Floor Levels</u> RCS surveyed the site on 9th August 2018 and determined the floor level at the corners of the SEA to range from 23.14 m to 48.61 m

Number	Condition	Compliance	Evidence	Comments
				<p>AHD. Based on observations of the corner pegs elevation compared to the floor level, it appeared to be above 8m AHD.</p> <p><u>Central Extraction Area AHD Floor Levels</u></p> <p>The floor levels were inspected on 13 November 2013 by Ausrocks Consultants and varied from 10-12.5 metres AHD. The previous quarry operators (Champions Quarry) advised that these levels were attained under the previous LCC Approval, which did not provide any restrictions to the CEA AHD Floor Levels.</p> <p>Champions Quarry and GSQ advised that that no reduction to the CEA AHD Floor Levels has occurred since July 2014, except for the purposes of drainage and sedimentation control (as permitted under the Project Approval). However this could not be verified as the floor levels have not been surveyed.</p> <p>Recommendation 11: Survey and peg the boundary of all approved Extraction Areas and the quarry floor on a periodic basis to demonstrate compliance with Condition 7, Schedule 2.</p>
8	The Proponent must not extract more than 250,000 tonnes of extractive materials from the site in any calendar year.	Compliant	Annual Review 2017	<p>GSQ are managing the quarrying operations in accordance with Condition 8, Schedule 3. The Annual Review reports 42,285.84 tonnes were produced in 2017 and 6,416.3 tonnes in 2016 which is within the approved extraction limit of 250,000 tonnes.</p>
Extractive Material Transport				
9	<p>The Proponent must not:</p> <p>(a) transport more than 250,000 tonnes of extractive material from the site in any calendar year;</p> <p>(a1) transport more than 100,000 tonnes of extractive material from the site in any calendar year without having first installed a weighbridge;</p>	Non-compliant	Annual Review 2017 Truck log	<p>GSQ are not compliant with all of the requirements for extractive material transport required by Condition 9, Schedule 3. The Annual Review reports 42,285.84 tonnes were sold in 2017 and 6,416.3 tonnes in</p>

Number	Condition	Compliance	Evidence	Comments
	(b) dispatch more than 50 laden trucks from the site on any day; or (c) dispatch more than 5 laden trucks from the site in any hour. <i>Note: In this condition, 'per hour' means the 60 minutes following the change of hour.</i>			2016, so the requirement for a weighbridge is not required. The Annual Review indicates there were six occasions when the total truck numbers exceeded the approved daily limit and 31 occasions when the number of trucks leaving site exceeded the hourly limit. GSQ have reportedly implemented a better truck recording system, notified clients of the limits and plan to submit a modification to increase daily and hourly truck numbers. Refer to Recommendation 7.
10	The Proponent must transport extractive material from the site on the designated haulage routes, except in circumstances where the final destination of the transported quarry products can only be accessed by other roads.	Compliant	Transport Management Plan Drivers Code of Conduct	The designated haulage routes are illustrated in the Transport Management Plan. Drivers are advised of haulage routes in the Drivers Code of Conduct which forms part of the Transport Management Plan. Signage onsite directing drivers to collect a copy of the Drivers Code of Conduct from Site Office. Site Office has copies of the Code.
On-site Roads				
11	With the exception of vehicle movements required to construct Bund A or movements of light vehicles used by quarry employees who live on Hazlemount Lane, quarry-related vehicles are not permitted to use the unsealed 'farm road' that connects the Central Extraction Area to Hazlemount Lane, or enter or exit the site from Hazlemount Lane.	Compliant	Observation	Farm road that connects the CEA to Hazlemount Lane is now closed. Further, the Water Reuse Dam intersects the road so that it is impassable and the site cannot be accessed by this farm road.
12	Deleted			
SURRENDER OF CONSENTS				
13	By the end of June 2014, or as otherwise agreed by the Secretary, the Proponent must surrender the development consent (DA 2005/999) for existing operations on the site in accordance with Section 104A of the EP&A Act.	Non-compliant	Letter from DPE dated 16 December 2016	It was reported in the previous IEA that Lismore City Council issued a letter dated 17 December 2014 confirming DA 2005/999 was surrendered on 4 July 2014.

Number	Condition	Compliance	Evidence	Comments
	Note: The conditions or other requirements of this project approval do not prevent the continued carrying out of development which may be undertaken pursuant to DA 2005/999, prior to the surrender of that consent.		Letter from LCC dated 23 May 2017C	However, on 10 November 2016, LCC notified DPE the surrender process was not in accordance with Section 104A of the EP&A Act, making the previous surrender unlawful. DPE requested surrender of DA 2005/999 in accordance with Section 104A of the EP&A Act by 28 April 2017. A letter from LCC dated 23 May 2017 confirmed DA2005/999 had been surrendered. It appears DA 2005/999 has been surrendered in accordance with Section 104A of the EP&A Act but this occurred after the DPE deadline.
STRUCTURAL ADEQUACY				
14	The Proponent must ensure that any new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. Notes: Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.	Non-compliant	Nil	A new demountable building and shed structure have been constructed. GSQ did not provide any documentation confirming they were constructed in accordance with the BCA. Nor did they have a construction or occupation certificate for the structures because GSQ believed they were not necessary. Corrective action 1: Confirm the demountable building and shed have been constructed in accordance with the BCA and obtain construction and occupation certificates.
DEMOLITION				
15	The Proponent must ensure that all demolition work on site is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.	Not triggered	Nil.	This condition has not been triggered as no demolition has been carried out onsite.
PROTECTION OF PUBLIC INFRASTRUCTURE				
16	The Proponent must: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and	Not triggered	Nil.	No damage or relocation of public infrastructure has resulted from the project.

Number	Condition	Compliance	Evidence	Comments
	<p>(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.</p> <p><i>Note: This condition does not apply to any damage to roads caused as a result of general road usage or otherwise addressed by contributions required by condition 26 to Schedule 3 of this approval.</i></p>			
OPERATION OF PLANT AND EQUIPMENT				
17	<p>The Proponent must ensure that all plant and equipment used at the site is:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p>	Compliant	<p>Machine Inspection Check List</p> <p>Mobile Plant Scheduled Maintenance Records</p> <p>Drivers Code of Conduct</p> <p>Observation</p>	<p>GSQ Holdings maintain and operate plant and equipment in a proper and efficient condition as required by Condition 17, Schedule 3. The daily Machine Inspection Check List and Mobile Plant Scheduled Maintenance records were provided, which indicate mechanical issues are identified and fixed, as required.</p> <p>Observations suggested that plant and equipment was maintained and operated in a proper and efficient condition.</p> <p>Plant operation is covered in the Drivers Code of Conduct.</p>
STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM				
18	<p>With the approval of the Secretary, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis.</p> <p>Notes:</p> <p>While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times; and</p> <p>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 applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.</p>	Not triggered		<p>The proponent has not submitted any strategy, plan or program required by this approval on a progressive basis.</p>

Number	Condition	Compliance	Evidence	Comments
PRODUCTION DATA				
19	The Proponent must: (a) provide annual quarry production data to DRE using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 4 of schedule 5).	Compliant	Completed DRE form Annual Review 2017	GSQ Holdings have reported annual quarry production data as required by Condition 19, Schedule 3. The annual production data was reported to DPE R&G, using the standard form for the 2016/2017 financial year and a copy was provided in the 2017 Annual Review.
COMPLIANCE				
20	The Proponent must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.	Compliant	Induction Visitor Induction	Employee and visitor inductions were provided as were records of inductions.

Table A-2 Compliance with Project Approval 09_0080 - Schedule 3

Number	Condition	Compliance	Evidence	Comments
IDENTIFICATION OF APPROVED LIMITS OF EXTRACTION				
1.	Prior to carrying out quarrying operations under this approval, the Proponent must: (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the Southern and Central Extraction Areas; and (b) submit a survey plan of these boundaries to the Secretary.	Not triggered	Nil	It was reported in the previous IEA that the CEA and Stage 1 of SEA (Western Quadrant of SEA) were pegged and a survey plan prepared which was submitted to the Secretary. Operations have not extended outside these areas to date, so this condition is not triggered.
2.	While ever quarrying operations are being carried out, the Proponent must 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 limits of extraction within the Southern and Central Extraction Areas.	Compliant	Letter from RCS Group dated 15 August 2018 Survey pegs marking out the boundaries of the extraction areas Observation	Boundaries of active quarrying operations are marked. Areas of Stage 1 of SEA (Western Quadrant of SEA) have been pegged/marked. Areas of the CEA have not been marked recently, so the boundaries of the extraction area are not clear. However, GSQ advise no extraction has occurred in the CEA recently. The pegs could be more clearly marked and some did not appear to be suitable as permanent markers, however the Quarry Manager did know where they were. Corrective action 2: Install boundary pegs that are clear and permanent, so limits of extraction areas are easy to identify.
NOISE				
Bund Construction				
3.	The Proponent must construct: <ul style="list-style-type: none"> Bund A prior to carrying out any quarrying operations on site under this approval; and 	Compliant	Observation Letter from DPE dated 21 September 2018	Bunds are being constructed in accordance with Condition 3, Schedule 3. Bund E was observed to be constructed. The sand washing

Number	Condition	Compliance	Evidence	Comments								
	<ul style="list-style-type: none">Bund D prior to carrying out any quarrying operations within the Southern Extraction Area, andBund E prior to commissioning the sand washing plant within the Southern Extraction Area. to the satisfaction of the Secretary. <i>Note: Bund A, Bund D and Bund E are shown on the project layout plans in Appendix 2.</i>		confirmed Bund E constructed to the Satisfaction of Secretary	plant has not been commissioned. DPE letter dated 21 September 2018 confirmed satisfaction with Bund E. The previous IEA reported on Bund A and D.								
Noise Criteria – Project Construction												
4.	<p>During periods in which Bunds A, C (stage 3 only) and D and the water re-use and water supply dams are being actively constructed, the Proponent must ensure that the noise generated on site does not exceed the criteria in Table 1 at any residence on privately-owned land.</p> <p><i>Table 1: Noise Criteria - Construction</i></p> <table><tr><th>Receiver</th><th>LAeq (15 min) dB(A)</th></tr><tr><td>NAL 1, NAL 4 and NAL 5</td><td>45</td></tr><tr><td>NAL 2, NAL 2A, NAL 3 and privately-owned land along the southern end of Hazelmount Lane</td><td>42</td></tr><tr><td>All other receivers</td><td>40</td></tr></table> <p>Notes:</p> <ul style="list-style-type: none">Receiver locations are shown in Appendix 1.Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.	Receiver	LAeq (15 min) dB(A)	NAL 1, NAL 4 and NAL 5	45	NAL 2, NAL 2A, NAL 3 and privately-owned land along the southern end of Hazelmount Lane	42	All other receivers	40	Not triggered	Nil.	This condition is not applicable to the reporting period as Bunds A, C and D were not constructed during the reporting period
Receiver	LAeq (15 min) dB(A)											
NAL 1, NAL 4 and NAL 5	45											
NAL 2, NAL 2A, NAL 3 and privately-owned land along the southern end of Hazelmount Lane	42											
All other receivers	40											
Noise Criteria												
5.	<p>Except for times during which Bunds A, C (stage 3 only) and D and the water re-use and water supply dams are being actively constructed, the Proponent must ensure that the noise generated on site does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p><i>Table 2: Noise Criteria</i></p> <table><tr><th>Receiver</th><th>LAeq (15 min) dB(A)</th></tr><tr><td>NAL 4 and NAL 5</td><td>38</td></tr></table>	Receiver	LAeq (15 min) dB(A)	NAL 4 and NAL 5	38	Non-compliant	Noise monitoring results	Noise monitoring has been conducted to determine compliance with Condition 5. Noise monitoring results prior to 2017 indicate a number of non-compliances with the criteria. A consultant has been engaged to undertake the noise monitoring and recent results indicate compliance with the criteria.				
Receiver	LAeq (15 min) dB(A)											
NAL 4 and NAL 5	38											

Number	Condition				Compliance	Evidence	Comments																
	NAL 2, NAL 2A, NAL 3 and privately-owned land along the southern end of Hazelmount Lane		37				Now a consultant is undertaking the monitoring it is considered the results will be more reliable and compliant, so a corrective action was not considered necessary.																
	All other receivers		35																				
	<p>Notes:</p> <ul style="list-style-type: none">Receiver locations are shown in Appendix 2.Noise generated by the site is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. <p>However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.</p>																						
Hours of Operation																							
6.	<p>The Proponent must comply with the operating hours in Table 3.</p> <p>Table 3: Operating Hours</p> <table><tr><th>Day</th><th>Construction</th><th>Rock Hammer Operations</th><th>All Other Quarrying Operations (including on-site truck movements)</th></tr><tr><td>Monday – Friday</td><td>7 am to 6 pm</td><td>9 am to 12 pm and 2 pm to 4 pm</td><td>7 am to 6 pm</td></tr><tr><td>Saturday</td><td>8 am to 1 pm</td><td>None</td><td>8 am to 1 pm</td></tr><tr><td>Sundays and Public Holidays</td><td>None</td><td>None</td><td>None</td></tr></table> <p>Note: Maintenance activities may occur at any time provided they are inaudible at privately-owned residences.</p>				Day	Construction	Rock Hammer Operations	All Other Quarrying Operations (including on-site truck movements)	Monday – Friday	7 am to 6 pm	9 am to 12 pm and 2 pm to 4 pm	7 am to 6 pm	Saturday	8 am to 1 pm	None	8 am to 1 pm	Sundays and Public Holidays	None	None	None	Non-compliant	Annual Review	<p>GSQ have not complied with approved operating hours at all times.</p> <p>GSQ reported that:</p> <ul style="list-style-type: none">All employees are advised of the operating hours in the Employees Induction.Employees arrive on site for a 6:45 am pre-start meeting but plant is not started until after 7am.There have been two incidences of non-conformance when trucks were loaded prior to the 8 am opening time on Saturday. Toolbox Meetings were held and staff were reminded of operating hours. <p>A truck was loaded at 7:45 am on Saturday 22 April 2017.</p> <p>A truck was loaded at 7:55 am on Saturday 2 April 2016.</p>
Day	Construction	Rock Hammer Operations	All Other Quarrying Operations (including on-site truck movements)																				
Monday – Friday	7 am to 6 pm	9 am to 12 pm and 2 pm to 4 pm	7 am to 6 pm																				
Saturday	8 am to 1 pm	None	8 am to 1 pm																				
Sundays and Public Holidays	None	None	None																				

Number	Condition	Compliance	Evidence	Comments
				Corrective action 3: Reinforce operating hours to employees.
6A.	The following activities may be carried out outside the hours specified in Table 3: (a) delivery or dispatch of materials as requested by Police or other public authorities; and (b) emergency work to avoid the loss of lives, property or to prevent environmental harm. In such circumstances, the Proponent must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.	Not triggered	Nil	This condition is not applicable as GSQ Holdings advised that none of the listed activities occurred during the reporting period.
Blasting				
7.	The Proponent must not carry out any blasting on the site.	Compliant	Nil.	GSQ reported that blasting has never occurred onsite.
Operating Conditions				
8.	The Proponent must:	Compliant		GSQ have generally complied with the requirements of Condition 8, Schedule 3.
	(a) implement best practice noise management to minimise the construction, operational and traffic noise of the project;		Observation Noise Management Plan	The noise bunds were observed and GSQ suggest noise management is implemented onsite and is included in the Noise Management Plan.
	(b) minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply;		Noise Management Plan.	This requirement is in the Noise Management Plan, section 7.4 and GSQ report compliance.
	(c) maintain the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired; and		Machine Inspection Check List Mobile Plant Scheduled Maintenance Records Drivers Code of Conduct Observation	The daily Machine Inspection Check List and Mobile Plant Scheduled Maintenance records were provided, which indicate mechanical issues are identified and fixed, as required. Observations suggested that plant and equipment was maintained in a proper and efficient condition and operated in a proper and efficient manner. Plant operation is covered in the Drivers Code of Conduct

Number	Condition	Compliance	Evidence	Comments
	(c1) carry out noise monitoring to determine whether the project is complying with the relevant conditions of this approval; and		Noise Monitoring Results Summary. Noise Management Plan (Version 2.2) September 2017 Annual Review	In compliance with Section 7.3 of the Noise Management Plan, noise monitoring at the nearest receiver is undertaken on a quarterly basis. In addition, other receivers and plant and equipment are monitored on an annual basis.
	(d) regularly assess noise monitoring data and relocate, modify, and/or stop operations on site to ensure compliance with the relevant conditions of this approval, to the satisfaction of the Secretary.		Noise Monitoring Results Summary Complaints Register	GSQ advised: <ul style="list-style-type: none"> • Since the last IEA in 2015, there has been one noise complaint on 27/01/2016. The response included ceasing excavation operations and noise monitoring which indicated operational noise was below background levels. • Weather conditions are assessed daily and operations adjusted as necessary to ensure noise impacts are minimised. • In addition, working hours of particularly noisy operations such as the rock hammer are adjusted to minimise noise impacts
Noise Management Plan				
9.	The Proponent must prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:	Compliant	Noise Management Plan Version 2.2 (September 2017). Letter from DP & E dated 5 July 2018 approving the plan.	Noise Management Plan Version 2.2 (September 2017) was approved by DPE on 5 July 2018.

Number	Condition	Compliance	Evidence	Comments
	(a) be prepared in consultation with the EPA, and submitted to the Secretary for approval prior to the construction of Bund A and/or Bund D;		Nil	It was reported in the previous IEA that the NMP was prepared in consultation with the EPA and prior to the construction of Bunds A and D.
	(b) describe the measures that would be implemented to ensure:			
	<ul style="list-style-type: none"> best management practice is being employed on site; 		Noise Management Plan	The Noise Management Plan adopts best practices throughout.
	<ul style="list-style-type: none"> the noise impacts of the project are minimised during any meteorological conditions when the noise limits in this approval do not apply; and 		Noise Management Plan	Section 7.5 in the Noise Management Plan.
	<ul style="list-style-type: none"> compliance with the relevant conditions of this approval; 		Noise Management Plan	Sections 5.1 and 6.2 in the Noise Management Plan.
	(c) describe the proposed noise management system in detail; and		Noise Management Plan	Chapters 5, 6, 7 and 8 in the Noise Management Plan.
	(d) include a monitoring program that:			
	<ul style="list-style-type: none"> is capable of regularly evaluating the performance of the project, including individual items of plant such as the rock hammer and rock saw; 		Noise Management Plan Noise monitoring results/reports	Chapters 7 and 8 in the Noise Management Plan.
	<ul style="list-style-type: none"> includes quarterly monitoring by a suitably qualified and experienced specialist, unless otherwise required by the Secretary; 		Noise Management Plan Noise monitoring results/reports	Chapter 7 of the Noise Management Plan requires quarterly monitoring at receivers 2 and 3 and that it must be done by a specialist.
	<ul style="list-style-type: none"> includes annual sound power testing, unless otherwise agreed by the Secretary; 		Noise Management Plan Noise monitoring results/reports	Chapter 7 of the Noise Management Plan includes annual sound power testing

Number	Condition	Compliance	Evidence	Comments																							
	<ul style="list-style-type: none">includes a protocol for determining exceedances of the relevant conditions in this approval; and		Noise Management Plan	Section 8.2 in the Noise Management Plan.																							
	<ul style="list-style-type: none">evaluates and reports on the effectiveness of the noise management system on site.		Noise Management Plan	Chapter 8 in the Noise Management Plan.																							
	The Proponent must implement the approved management plan as approved from time to time by the Secretary.			Refer to Condition 8(a) Schedule 3																							
AIR QUALITY																											
Air Quality Criteria																											
10.	<p>The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated on site do not exceed the criteria in Tables 4 to 6 at any residence on privately-owned land, or on more than 25% of any privately-owned land.</p> <p><i>Table 4: Long-Term Impact Assessment Criteria for Particulate Matter</i></p> <table><tr><th>Pollutant</th><th>Averaging period</th><th>Criterion</th></tr><tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td>a 90 µg/m3</td></tr><tr><td>Particulate matter < 10 µm (PM10)</td><td>Annual</td><td>a 30 µg/m3</td></tr></table> <p><i>Table 5: Short Term Impact Assessment Criteria for Particulate Matter</i></p> <table><tr><th>Pollutant</th><th>Averaging period</th><th>Criterion</th></tr><tr><td>Particulate matter < 10 µm (PM10)</td><td>24 hour</td><td>a 50 µg/m3</td></tr></table> <p><i>Table 6: Long-Term Impact Assessment Criteria for Deposited Dust</i></p> <table><tr><th>Pollutant</th><th>Averaging period</th><th>Maximum increase in deposited dust level</th><th>Maximum total deposited dust level</th></tr><tr><td>c Deposited dust</td><td>Annual</td><td>b 2 g/m2/month</td><td>a 4 g/m2/month</td></tr></table>	Pollutant	Averaging period	Criterion	Total suspended particulates (TSP)	Annual	a 90 µg/m3	Particulate matter < 10 µm (PM10)	Annual	a 30 µg/m3	Pollutant	Averaging period	Criterion	Particulate matter < 10 µm (PM10)	24 hour	a 50 µg/m3	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	c Deposited dust	Annual	b 2 g/m2/month	a 4 g/m2/month	Compliant	Air quality monitoring results Annual Review Email to DPE dated 11 September 2018 – request to relocate monitoring locations	Monitoring is carried out in accordance with the Air Quality Management Plan. This only requires monitoring of dust deposition. TSP and PM10 are to be monitored in the event of regular exceedances of the dust deposition criteria. The results indicate compliance with the criteria, however there were numerous months where no samples were collected due to water in the dust bottle. The Annual Review indicates the location of the monitoring site has changed as it is unsuitable and there are access issues. GSQ have sent an email to DPE requesting approval for the new monitoring location. The new site location was observed and appears appropriate.
Pollutant	Averaging period	Criterion																									
Total suspended particulates (TSP)	Annual	a 90 µg/m3																									
Particulate matter < 10 µm (PM10)	Annual	a 30 µg/m3																									
Pollutant	Averaging period	Criterion																									
Particulate matter < 10 µm (PM10)	24 hour	a 50 µg/m3																									
Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level																								
c Deposited dust	Annual	b 2 g/m2/month	a 4 g/m2/month																								

Number	Condition	Compliance	Evidence	Comments
	<p><i>Notes to Tables 4-6:</i></p> <p><i>a Total impact (ie incremental increase in concentrations due to the project plus background concentrations due to all other sources);</i></p> <p><i>b Incremental impact (ie incremental increase in concentrations due to the project on its own);</i></p> <p><i>c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.</i></p> <p><i>d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Secretary in consultation with EPA.</i></p>			
Operating Conditions				
11.	The Proponent must:	Compliant		GSQ Holdings operate the quarry to manage dust emissions in accordance with Condition 11. Schedule 3.
	(a) implement best management practice to minimise the dust emissions of the project;		Air Quality Management Plan Observations	Measures contained within the approved Air Quality Management Plan generally appear to be implemented on site, including: <ul style="list-style-type: none"> Sealing of access road Covering and revegetating stockpiles
	(a1) carry out regular air quality monitoring to determine whether the project is complying with the relevant conditions of this approval;			Refer to Condition 10 Schedule 3
	(b) regularly assess air quality monitoring data and relocate, modify, and/or stop operations on site as may be required to ensure compliance with the relevant conditions of this approval;		Complaints Register Air quality monitoring results	There have been no air quality related complaints during the reporting period and monitoring results are less than the applicable criteria.
	(c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 4-6 above);		Air Quality Management Plan	Controls in sections 5, 6.2, 6.4, 7.3 and 7.4 of the Air Quality Management Plan.
	(d) minimise any visible off-site air pollution; and			Refer to Condition 11(a) Schedule 3

Number	Condition	Compliance	Evidence	Comments
	(e) minimise surface disturbance of the site, other than as permitted under this approval.		Air Quality Management Plan Observations	Controls in chapter 5 in the Air Quality Management Plan. Observations on site indicate areas not actively used are revegetated and tarps have been used to cover stockpiles.
Air Quality Management Plan				
12.	The Proponent must prepare and implement an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:	Compliant	Air Quality Management Plan Version 2.2 (July 2018). Letter from DPE dated 5 July 2018.	GSQ Holdings prepared and implemented an AQMP generally in accordance with Condition 12, Schedule 3. The Air Quality Management Plan Version 2.2 (October 2017) was approved by DPE pursuant to the letter dated 5 July 2018. Measures observed to be implemented on site, included: <ul style="list-style-type: none"> Sealing of access road Covering and revegetating stockpiles
	(a) be prepared in consultation with the EPA, and submitted to the Secretary for approval prior to the construction of Bund A and/or Bund D;			It was reported in the previous IEA that the AQMP was prepared in consultation with the EPA and prior to the construction of Bunds A and D.
	(b) describes the measures that would be implemented to ensure:			
	<ul style="list-style-type: none"> best management practice is employed; 		Air Quality Management Plan	The Air Quality Plan adopts best practices throughout.
	<ul style="list-style-type: none"> the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and 		Air Quality Management Plan	Refer to sections 5, 6.2, 6.4, 7.3 and 7.4 in the Air Quality Management Plan. Refer to Table 5.1 in the Air Quality Management Plan.
	<ul style="list-style-type: none"> compliance with the relevant conditions of this approval; 		Air Quality Management Plan	The Air Quality Plan adopts the conditions of this approval.

Number	Condition	Compliance	Evidence	Comments
	(c) describes the proposed air quality management system; and		Air Quality Management Plan	Refer to chapter 6 of the Air Quality Management Plan.
	(d) includes an air quality monitoring program that:			
	<ul style="list-style-type: none"> is capable of evaluating the performance of the project; 		Air Quality Management Plan	Refer to chapter 6 of the Air Quality Management Plan.
	<ul style="list-style-type: none"> includes a protocol for determining any exceedances of the relevant conditions of approval; 			
	<ul style="list-style-type: none"> adequately supports the air quality management system; and 			
	<ul style="list-style-type: none"> evaluates and reports on the adequacy of the air quality management system. 			
	The Proponent must implement the approved management plan as approved from time to time by the Secretary.			Refer to Condition 11(a) Schedule 3
SOIL & WATER				
<i>Note: The Proponent is required to obtain the necessary water licences for the project under the Water Act 1912 and/or the Water Management Act 2000.</i>				
Surface Water Supply				
13.	The Proponent must ensure it has sufficient water during all stages of the project, and if necessary, adjust the scale of quarrying operations on site to match its available supply.	Compliant	Water Management Plan	<p>GSQ Holdings has identified sufficient water for the operations. Refer to section 6.6 in the Water Management Plan. The Water Management Plan refers to a Water Supply Dam as a potential source of water. GSQ advised the Water Supply Dam was never constructed and GSQ don't have access to the property where it was proposed. GSQ reported the Water Reuse Dam provides sufficient water to operate the quarry.</p> <p>Recommendation 12: Revise the Water Management Plan to update the water budget with consideration that the proposed Water Supply Dam is no longer an option.</p>
Surface Water Discharges				

Number	Condition	Compliance	Evidence	Comments
14.	The Proponent must 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	Nil.	Refer to Appendix B
14A.	Prior to operating the sand washing plant, the Proponent must construct a sediment pond with capacity of at least one megalitre to receive all discharges from that plant.	Compliant	Email to DPE dated 5 September 2018 – confirming sediment pond volume Observation	GSQ advised the sand washing plant has not yet been commission. The sediment ponds were observed and the email to DPE indicates the two ponds have a total volume of 1.5 ML.
On-Site Sewage Management				
15.	The Proponent must manage on-site sewage to the satisfaction of Council and the EPA. The facility must comply with the requirements of the <i>Environment and Health Protection Guidelines – On-site Sewage Management for Single Households (1998)</i> , or latest version.	Not triggered	Observation Pump out records	GSQ staff utilise a portable toilet that is pumped out as required.
Storage of Chemicals & Petroleum Products				
16.	The Proponent must ensure that all chemicals and/or petroleum products held on site in appropriately bunded areas with impervious flooring and of sufficient capacity to contain 110% of the largest container stored within the bund, and in accordance with Australian Standard AS1940-2004, <i>The Storage and Handling of Flammable and Combustible Liquids</i> . The flooring and bund(s) must be designed in accordance with: <ul style="list-style-type: none"> the requirements of relevant Australian Standards; and DECC's <i>Storing and Handling Liquids: Environmental Protection – Participants Manual</i>. 	Non-compliant	Observation	Oil stored outside was under cover and on a bunded pallet. Some chemicals and oils stored in the storage container were not bunded. Where chemicals and oils were bunded. Bunds were overcrowded and would not provide adequate protection from spills. Other issues with the storage of chemicals and fuels is discussed in Section 3.1.8. Corrective action 4: Store chemicals in accordance with Condition 16, Schedule 3.

Number	Condition	Compliance	Evidence	Comments
Water Management Plan				
17.	The Proponent must prepare and implement a Water Management Plan for the project to the satisfaction of the Secretary. This plan must be prepared in consultation with the EPA and DPI (Water) by suitably qualified and experienced person/s whose appointment has been approved by the Secretary, and be submitted to the Secretary for approval prior to the construction of Bund A and/or Bund D.	Compliant	Water Management Plan Version 2.2 (October 2017) Letter from DPE dated 05 July 2018 – approving revised management plans. Observations	GSQ Holdings have prepared and implemented a WMP generally in accordance with the requirements of Condition 17, Schedule 3. Water Management Plan Version 2.2 (October 2017) approved by DPE in a letter dated 05 July 2018. The submission of the Water Management Plan to the Secretary prior to the construction of Bund A and/or Bund D was not applicable to the reporting period. It was audited in the previous IEA. Management measures observed on site included: <ul style="list-style-type: none"> • Basins • Diversion banks • Clean water drains • Revegetation
	In addition to the standard requirements for management plans (see condition 3 of schedule 5), this plan must include a:			
	(a) Site Water Balance that:		Water Management Plan	
	<ul style="list-style-type: none"> • includes details of: <ul style="list-style-type: none"> ○ sources and security of water supply, including contingency planning for future reporting periods; ○ water use on site; ○ water management on site; • reporting procedures, including comparisons of the site water balance each calendar year; and 			
				Refer to sections 6.2 and 6.6 in the Water Management Plan Version 2.2 (October 2017).
				Refer to section 6.1 and Table 6.1 in the Water Management Plan Version 2.2 (October 2017).
				Refer to section 6.3 in the Water Management Plan Version 2.2 (October 2017).
				Refer to section 7.8 and 10.3 in the Water Management Plan Version 2.2 (October 2017).

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> describes the measures that would be implemented to minimise clean water use on site; 			Refer to section 6.5 in the Water Management Plan Version 2.2 (October 2017).
	(b) Surface Water Management Plan, that includes:		Water Management Plan	
	<ul style="list-style-type: none"> detailed baseline data on surface water flows and quality in the water-bodies that could be affected by the project; 			Refer to section 1.5 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> a detailed description of the surface water management system on site, including the: <ul style="list-style-type: none"> clean water diversion systems; 			Refer to chapter 7 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> erosion and sediment controls; and 			Refer to sections 7.3 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> water storages; 			Refer to section 7.3 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> a plan for extracting, handling, and emplacing any long-term potentially acid forming material identified on site; 			Refer to section 6.2 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> detailed plans, including design objectives and performance criteria, for: <ul style="list-style-type: none"> the water storage dams; 			Refer to section 7.4 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> reinstatement of drainage lines on the rehabilitated areas of the site; 			
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> control of water pollution from rehabilitated areas of the site; 			Refer to Figure 1.4 and sections 6.2.1, 6.2.2 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> performance criteria, including trigger levels for investigating any potentially adverse impacts, for: 			Refer to Figures 1.4, 7.4 and 7.5 and section 7.6 in the Water Management Plan Version 2.2 (October 2017).
				Refer to Figure 1.4 and section 7.7 in the Water Management Plan Version 2.2 (October 2017).
				Refer to chapter 7 in the Water Management Plan Version 2.2 (October 2017).

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> the water management system; 			<p>Refer to section 7.1 and Table 7.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically Monitoring Points 3-7.</p> <p>Refer to section 7.2 and Table 7.2 in the Water Management Plan Version 2.2 (October 2017).</p>
	<ul style="list-style-type: none"> surface water quality of local water ways and the Tuckean Swamp and associated wetland; and 			<p>Refer to section 7.1 and Table 7.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically Monitoring Points 1-3.</p> <p>Refer to section 7.2 and Table 7.2 in the Water Management Plan Version 2.2 (October 2017).</p> <p>Refer to section 9.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically site inspections.</p>
	<ul style="list-style-type: none"> ecosystem health of local water ways and the Tuckean Swamp and associated wetland; 			<p>Refer to section 7.1 and Table 7.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically Monitoring Points 1-3.</p> <p>Refer to section 7.2 and Table 7.2 in the Water Management Plan Version 2.2 (October 2017).</p> <p>Refer to section 9.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically site inspections.</p>
	<ul style="list-style-type: none"> performance criteria for surface water quality attributes relevant to water quality impacts on biological diversity and aquatic ecological integrity, including salinity, heavy metals, sediment load, pH, hardness and biological oxygen demand; 			<p>Refer to section 7.2 and Table 7.2 in the Water Management Plan Version 2.2 (October 2017).</p>
	<ul style="list-style-type: none"> a program to monitor: 			<p>Refer to section 7.1 and Table 7.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically Monitoring Points 1-3.</p>
	<ul style="list-style-type: none"> the effectiveness of the water management system; 			

Number	Condition	Compliance	Evidence	Comments
				Refer to section 7.2 and Table 7.2 in the Water Management Plan Version 2.2 (October 2017). Refer to section 9.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically site inspections.
	<ul style="list-style-type: none"> o surface water flows and quality in local water ways and the Tuckean Swamp and associated wetland; and 			Refer to section 7.1 and Table 7.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically Monitoring Points 1-3. Refer to section 7.2 and Table 7.2 in the Water Management Plan Version 2.2 (October 2017). Refer to section 9.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically site inspections.
	<ul style="list-style-type: none"> o ecosystem health of local water ways and the Tuckean Swamp and associated wetland; 			Refer to section 7.1 and Table 7.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically Monitoring Points 1-3. Refer to section 7.2 and Table 7.2 in the Water Management Plan Version 2.2 (October 2017). Refer to section 9.1 in the Water Management Plan Version 2.2 (October 2017) – Specifically site inspections.
	<ul style="list-style-type: none"> • a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; and 			Refer to section 7.8 in the Water Management Plan Version 2.2 (October 2017).
	(c) Groundwater Management Plan, which includes:		Water Management Plan	
	<ul style="list-style-type: none"> • detailed baseline data on groundwater levels, yield and quality in the area, that could be affected by the project; 			Refer to sections 8.3 and 8.4 in the Water Management Plan Version 2.2 (October 2017).

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> a program to augment the baseline data of the Southern Extraction Area prior to the commencement of quarrying operations in the area; 			Refer to sections 8.1.3, 8.2 and 8.3 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts; 			Refer to section 8.3 and Table 8.4 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> a program to monitor: <ul style="list-style-type: none"> groundwater inflows to the quarrying operations; 			Refer to section 8.5 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> the impacts of the project on: <ul style="list-style-type: none"> the local alluvial aquifer; 			Refer to section 8.6 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> any groundwater bores on privately-owned land that could be affected by the project; and 			Refer to section 8.7 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> groundwater dependent ecosystems; 			Refer to section 8.8 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> seepage/leachate from water storages or backfilled voids on site; 			Refer to section 8.9 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> any interaction between water from the re-use dam and the local aquifer identified within nearby alluvial sediments; and 			Refer to section 8.10 in the Water Management Plan Version 2.2 (October 2017).
	<ul style="list-style-type: none"> a plan to respond to any exceedances of the groundwater assessment criteria; 			Refer to section 8.11 in the Water Management Plan Version 2.2 (October 2017).
	The Proponent must implement the approved management plan as approved from time to time by the Secretary.		Observations Water quality results	Site observations and discussions with Quarry Manager indicated the Water Management Plan measures were generally being implemented. However, as reported in Section 3.1.8 there are areas for improvement in regards to erosion

Number	Condition	Compliance	Evidence	Comments
				control and sediment basin records and management. The water quality results indicate exceedances of some criteria but are consistent with previous results and the EIS predictions. GSQ advised, once sufficient data has been compiled, it is proposed to establish site specific criteria. Refer to Recommendations 8 to 11.
VISUAL				
Establishment of Effective Vegetative Screens				
18.	The Proponent must vegetate (with grasses, native endemic shrubs and trees) bunds listed as A – F in the project layout plans in Appendix 2 as soon as practicable after the completion of the construction of the bunds, to the satisfaction of the Secretary.	Compliant	Letter received from DPE on 21 September 2018. Observations	GSQ Holdings report: <ul style="list-style-type: none"> • Bunds A-D were constructed and approved during the previous audit. They were still observed during the site inspection. • To date, Bund F is not constructed or required to be constructed under the Landscape Management Plan. • Bund E was constructed, vegetated and approved by DPE on 21 September 2018.
19.	The Proponent must not extract any material in the Southern Extraction Area beyond the area shown as Progression 1, as depicted in Figure 5 of Appendix 2, before: (a) bunds, listed as A to D in Figure 4 of Appendix 2, are established and vegetated (with grasses, native endemic shrubs and trees); and (b) the vegetated screening of planted trees to the north of the access road is established, to the satisfaction of the Secretary. <i>Note: material to construct the bunds may be sourced from the proposed Extraction Areas.</i>	Not-compliant	Observations	GSQ Holdings have not undertaken bund construction and progressive extraction as required by Condition 19. Extraction works appear to have progressed past Progression 1. Bunds A-D have been constructed and vegetated and vegetated screening to the north of the access road has been established. However, no evidence was provided indicating the works had been

Number	Condition	Compliance	Evidence	Comments
				completed to the satisfaction of the Secretary. Corrective action 5: Obtain confirmation from the Secretary that they are satisfied with the works required by Condition 19, Schedule 3.
Advertising Signage				
20.	The Proponent must not erect or display any advertising structure(s) or signs on the site without the written approval of the Secretary. <i>Note: This condition does not require approval for any business identification, traffic management, and/or safety or environmental signs.</i>	Not triggered	Observations	GSQ has not erected or displayed any advertising structure(s) or signs on the site.
Operating Conditions				
21.	The Proponent must (a) implement all reasonable and feasible measures to minimise the visual impacts and any offsite lighting impacts of the project; and (b) maintain and improve the effectiveness of the bunds, listed as A – F in the project layout plans in Appendix 2, and all associated and other vegetative screens, over the life of the project.	Compliant	Nil.	Bunds and vegetative screens were observed. GSQ Holdings reported an additional bund to the east of the sand washing plant area was developed to assist with noise and visual impacts.
Additional Visual Impact Mitigation				
22.	Upon receiving a written request from the owner of any residence on privately-owned land which has, or would have, significant direct views of the quarrying operations on site during the project, the Proponent must implement additional visual impact mitigation measures (such as landscaping treatments or vegetative screens) to reduce the visibility of these operations from the residence on the property. These mitigation measures must be reasonable and feasible, and must be implemented as soon as practicable following the landowner's request. If the Proponent and the landowner 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. <i>Notes:</i>	Not triggered	Nil	GSQ Holdings advised that there were no written requests from landowners surrounding the quarry during the reporting period. All requests received in the previous reporting period were adequately addressed and covered in the previous audit.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> <i>The additional visual impact mitigation measures must be aimed at reducing the visibility of the quarrying operations on site from significantly affected residences, and are not required to be aimed at reducing the visibility of these operations from other locations on the affected properties; and</i> <i>The additional visual impact mitigation measures do not necessarily have to be located on the property itself.</i> 			
TRANSPORT				
Road Upgrades				
23.	<p>Prior to carrying out quarrying operations under this approval, the Proponent must upgrade the following intersections in general accordance with the conceptual layout plans shown in the figures in Appendix 5:</p> <p>(a) Coraki Road/Wyrallah Ferry Road intersection to provide a sealed turning path for southbound quarry trucks and quarry trucks with trailers from Coraki Road into Wyrallah Ferry Road; and</p> <p>(b) Wyrallah Road/Wyrallah Ferry Road intersection to provide a sealed left-turn lane for northbound quarry trucks and quarry trucks with trailers from Wyrallah Road into Wyrallah Ferry Road, to the satisfaction of Council.</p> <p><i>Notes: These intersection upgrades must be completed to the relevant Austroads standard.</i></p>	Not applicable		This condition was assessed during the previous audit and is not applicable to this audit period.
24.	<p>Prior to carrying out any quarrying operations in the Southern Extraction Area, the Proponent must:</p> <p>(a) commission a suitably qualified expert approved by the Secretary to undertake a road safety audit of existing approved bus stops along the haulage routes;</p> <p>(b) submit the report for approval to the Secretary; and</p> <p>(c) implement any recommendations of the road safety audit to upgrade these bus stops, to the satisfaction of Council.</p> <p><i>Notes: "Approved bus stops" may be approved by either Council or RMS. Any upgrades must be completed to the relevant Austroads standard.</i></p>	Not applicable		This condition was assessed during the previous audit and is not applicable to this audit period.
Road Signage				
25.	<p>Prior to carrying out quarrying operations under this approval, the Proponent must:</p> <p>(a) clear roadside vegetation and install an intersection distance advisory sign on the approach to the Wyrallah Road/Wyrallah Ferry Road intersection to improve driver awareness of the intersection;</p>	Not applicable		This condition was assessed during the previous audit and is not applicable to this audit period.

Number	Condition	Compliance	Evidence	Comments
	(b) install hinged "Trucks entering" warning signs 200 metres either side of the quarry entrance, and ensure that these signs are open during hours in which the quarry is operating (see condition 6 of schedule 3); and (c) install Koala crossing signs along Wyrallah Road on either side of the quarry entrance, to the satisfaction of Council.			
Road Maintenance				
26.	During the project, the Proponent must pay Council \$0.06442 per tonne per kilometre for every tonne of extractive materials in excess of 8,500 tonnes per annum transported from the site on roads for which Council is liable for road maintenance funding, in accordance with Council's <i>Section 94 Contributions Plan 2004</i> and relevant <i>Development Control Plan</i> . Each payment must be: (a) based on the quantity of extractive materials transported from the site recorded by either accredited scales fitted to front-end loaders or weighbridge records; (b) paid by the date required by the invoice issued by Council; and (c) increased over the life of the project in accordance with the annual CPI. <i>Note: This rate is in accordance with the rate of \$0.05/tonne/kilometre set out in Council's Section 94 Contributions Plan 2004, subject to CPI adjustments since December 2003, as required under that Plan.</i>	Non-compliant	Letter from DPE dated 12 May 2016 Letter from DPE dated 02 June 2016	DPE issued a Show Cause letter dated 12 May 2016 and an Official Caution letter dated 02 June 2016 in relation to the non-payment of fees to LCC. GSQ have since paid the outstanding contributions and reportedly provide sales tonnages to LCC on a monthly basis. LCC will invoice GSQ on a quarterly basis, where required. It appears the new arrangement with GSQ Holdings is effective and LCC have not raised any concerns, so a corrective action is not considered to be warranted.
Parking				
27.	The Proponent must provide sufficient parking on-site for all project-related traffic in accordance with Council's parking codes.	Compliant	Observation	Sufficient on-site parking was observed.
Operating Conditions				
28.	The Proponent must ensure that: (a) vehicles on site do not exceed a speed limit of 30 kilometres per hour; (b) all loaded vehicles entering or leaving the site have their loads covered; and (c) all loaded vehicles leaving the site are cleaned of sand and other materials before they leave the site, so as to avoid tracking dirt onto public roads.	Compliant	Drivers Code of Conduct. Employee Induction Sheet. Employee Induction Transport Management Plan Observation	Evidence in regards to this condition included: <ul style="list-style-type: none"> • 30km/hour speed signs observed on site. • Measures contained within the Transport Management Plan, section 5.1. • Measures contained in Drivers Code of Conduct.

Number	Condition	Compliance	Evidence	Comments
				<ul style="list-style-type: none"> Onsite signage directing drivers to collect the Drivers Code of Conduct from the Site Office. Site Office has copies of Code. Measures included in the Employee Induction Sheet.
29.	During cane harvesting season (July to December), the Proponent must implement all reasonable and feasible measures to minimise project-related traffic delays and congestion at the Broadwater Road/Pacific Highway intersection.	Compliant	Drivers Code of Conduct Transport Management Plan Observations	<p>Evidence in regards to this condition included:</p> <ul style="list-style-type: none"> Measures contained within the Transport Management Plan, section 6. Measures contained in Drivers Code of Conduct. Onsite signage directing drivers to collect the Drivers Code of Conduct from the Site Office. Site Office has copies of Code.
30.	The Proponent must implement all reasonable and feasible measures to minimise project-related heavy vehicle traffic on the haulage routes during hours in which school buses are operating on these routes, to the satisfaction of the Secretary.	Compliant	Drivers Code of Conduct Transport Management Plan Observations	<p>Evidence in regards to this condition included:</p> <ul style="list-style-type: none"> Measures contained within the Transport Management Plan, section 7. Measures contained in Drivers Code of Conduct. Onsite signage directing drivers to collect the Drivers Code of Conduct from the Site Office. Site Office has copies of Code.
30A	The Proponent must make, and retain for at least 3 years, records of the time of dispatch, weight of load and vehicle identification for each laden truck dispatched from the project. These records must be made available to the Department on request and a summary included in the Annual Review.	Non-compliant	Annual Review 2017 New truck recording system	<p>The Annual Review 2017 provides a summary of the records of truck dispatches departing the site in Appendix D.</p> <p>Overall, there were 1,154 truck dispatches from the site during the 2017 reporting period, with the following non-compliances noted:</p>

Number	Condition	Compliance	Evidence	Comments
				<ul style="list-style-type: none"> • 3 instances where no records were maintained • 7 instances where the time and truck registration was not recorded • 16 instances where the time of the truck exiting the site was not recorded • 31 instances where no truck registration was recorded <p>New record management systems have been put in place and operators' records of truck movements are checked on a daily basis to ensure all required details are captured for each truck movement.</p> <p>Refer to Recommendation 7</p>
Transport Management Plan				
31.	The Proponent must prepare and implement a Transport Management Plan for the project to the Secretary. This plan must: (a) be prepared in consultation with the RMS and Council, and submitted to the Secretary for approval prior to carrying out any quarrying operations;	Compliant	Transport Management Plan Version 2.2 (October 2017) Letter from DPE dated 5 July 2018	An updated Transport Management Plan Version 2.2 (October 2017) was prepared and is being implemented. The Transport Management Plan Version 2.2 (October 2017) was approved by DPE pursuant to letter dated 5 July 2018.
	(b) include a drivers' code of conduct for the project;		Drivers Code of Conduct	Refer to Annexure A in the Transport Management Plan.
	(c) describe the measures that would be implemented to ensure:		Transport Management Plan	Evidence in regards to this condition included: <ul style="list-style-type: none">• Measures contained within the Transport Management Plan, section 7.
	<ul style="list-style-type: none">• haulage is minimised or routes altered to avoid school buses;			
	<ul style="list-style-type: none">• a CB radio communication protocol is established with local bus companies, to improve driver awareness of quarry truck and school bus locations along haulage routes;			

Number	Condition	Compliance	Evidence	Comments
				<ul style="list-style-type: none"> Measures contained in Drivers Code of Conduct. Onsite signage directing drivers to collect the Drivers Code of Conduct from the Site Office. Site Office has copies of Code. Regular transport contractors are emailed a copy of the Code to give to their drivers.
	<ul style="list-style-type: none"> Drivers of project-related vehicles comply with the drivers' code of conduct; and 			Measures contained within the Transport Management Plan, Table 4.1, section 8.2. Measures contained in Drivers Code of Conduct.
	<ul style="list-style-type: none"> Compliance with the relevant conditions of this approval; and 			Measures contained within the Transport Management Plan, section 8.
	(d) Include a program to monitor the effectiveness of the implementation of these measures.		Transport Management Plan	Measures contained within the Transport Management Plan, section 8.
	The Proponent must implement the approved management plan as approved from time to time by the Secretary.		Annual Review 2017	The Transport Management Plan appears to generally be implemented but there have been issues in relation to truck movements and recording. Refer to Condition 30A, Schedule 3.
WASTE				
32.	The Proponent must: (a) Minimise the waste generated by the project; and	Compliant	Waste Management Plan Version 2.2 (October 2017). Waste disposal records Observations	Measures contained within the Waste Management Plan, chapter 5 and Annexures A and B.
	(b) Ensure that the waste generated by the project is appropriately stored, handled, and disposed of, to the satisfaction of the Secretary.			Bins were observed on site, the site was neat and tidy and waste disposal records were provided, indicating waste is appropriately managed.
33.	The Proponent must prepare and implement a Waste Management Plan for the project to the satisfaction of the Secretary. This plan must:	Compliant	Waste Management Plan Version 2.2 (October 2017).	An updated Waste Management Plan Version 2.2 (October 2017) was prepared and is being implemented.

Number	Condition	Compliance	Evidence	Comments
			Letter from DP & E dated 5 July 2018	The Waste Management Plan Version 2.2 (October 2017). was approved by DPE in a letter dated 05 July 2018
	(a) Be prepared in consultation with EPA, and submitted to the Secretary for approval prior to the commencement of any processing of extracted materials;		Letter from DPE dated 5 July 2018	It was reported in the previous IEA that the Waste Management Plan was prepared in consultation with the EPA and issued to the Secretary prior to commencement of extraction.
	(b) Identify the various waste streams of the project;		Waste Management Plan	Measures contained within the Waste Management Plan, chapter 5 and Annexures A and B.
	(c) Estimate the volumes of waste material that would be generated by the project;		Waste Management Plan	Measures contained within the Waste Management Plan, Annexure B.
	(d) Describe and justify the proposed strategy for disposing of this waste material; and		Waste Management Plan	Measures contained within the Waste Management Plan, section 5.3.
	(e) Include a program to monitor the effectiveness of these measures.		Waste Management Plan	Measures contained within the Waste Management Plan, chapter 6.
	The Proponent must implement the approved management plan as approved from time to time by the Secretary.		Nil	Refer to Condition 32, Schedule 3
ABORIGINAL HERITAGE				
Human Remains				
34.	This approval does not allow the Proponent to disturb any human remains found on site.	Not triggered	Nil.	GSQ reported that no human remains were uncovered in the reporting period
Sub-Surface Investigations				
35.	Prior to causing any surface disturbance of the land in the sites for the: (a) Water Supply Dam; (b) Water Reuse Dam; and	Not triggered	Nil	Compliance with this condition in relation to the Water Reuse Dam and

Number	Condition	Compliance	Evidence	Comments
	(c) Southern Extraction Area the Proponent must undertake targeted sub-surface archaeological investigations, in consultation with OEH and Aboriginal stakeholders, to the satisfaction of the Secretary.			Southern Extraction Area was assessed in the previous IEA. The Water Supply Dam has not been constructed.
Heritage Management Plan				
36.	The Proponent must prepare and implement a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with OEH and Aboriginal stakeholders; (b) be submitted to the Secretary for approval prior to carrying out any development on site (other than the construction of bunds and vegetative screening) under this approval;	Compliant	Heritage Management Plan Version 2.2 (October 2017). Letter from DPE dated 5 July 2018	It was reported in the previous IEA that the Heritage Management Plan Version 1.0 (October 2013), was prepared in consultation with OEH and Aboriginal Stakeholders.
	(c) include a detailed program for proposed targeted sub-surface archaeological investigations, including a strategic sampling methodology; and		Heritage Management Plan	Measures contained within the Heritage Management Plan, chapter 6.
	(d) describe the measures that would be implemented for: <ul style="list-style-type: none"> Monitoring all new surface disturbance on site for unidentified Aboriginal objects; 		Heritage Management Plan	Measures contained within the Heritage Management Plan, section 7.1.
	<ul style="list-style-type: none"> Managing the discovery of any human remains or previously unidentified Aboriginal objects on site; and 		Heritage Management Plan	Measures contained within the Heritage Management Plan, section 7.2.
	<ul style="list-style-type: none"> Ensuring ongoing consultation with Aboriginal stakeholders in the conservation and management of any Aboriginal cultural heritage values on site. 		Heritage Management Plan	Measures contained within the Heritage Management Plan, section 7.3.
	The Proponent must implement the approved management plan as approved from time to time by the Secretary.		Heritage Management Plan Induction	It appears the requirements of the Heritage Management Plan are implemented

Number	Condition	Compliance	Evidence	Comments
LANDSCAPE				
Setback From Dry Rainforest/Lowland Rainforest EEC				
37.	Deleted			
Tuckean Swamp & Wetland				
38.	The Proponent must ensure that the project has not greater than negligible environmental consequences on the Tuckean Swamp and associated wetland.	Compliant	Water Management Plan Version 2.2 (October 2017) Water quality results Annual Review 2017	<p>The Water Management Plan Version 2.2 (October 2017) which received approval on 5 July 2018 stipulates routine inspections of Tuckean Swamp and Tucki Tucki Creek (where access permits) will be conducted by GSQ Production Manager and/or Site Foreman.</p> <p>No evidence of the routine inspections were provided.</p> <p>Water quality results were reported on the website and in the Annual Review 2017 indicate some exceedances but these are similar to previous years and predictions in the EIS.</p> <p>Recommendation 13: Implement and record the routine inspections of Tuckean Swamp and Tucki Tucki Creek.</p>
Koalas				
39.	The Proponent must ensure that the project has negligible environmental consequences for the local Koala population.	Compliant	Landscape Management Plan Version 3.2 (October 2017)	GSQ Holdings report the measures in the Landscape Management Plan Version 3.2 (October 2017), sections 8.6 and 8.7 are implemented. It also reports, including a photo, the Koala Habitat Tree area was completed in September 2017.

Number	Condition	Compliance	Evidence	Comments																		
Biodiversity Offset Strategy																						
40.	<div>The Proponent must implement the Biodiversity Offset Strategy, as described in the documents listed in condition 2(a) of Schedule 2, summarised in Table 7 and shown conceptually in the figure in Appendix 6, to the satisfaction of the Secretary.</div> <div>Table 7: Biodiversity Offset Strategy</div> <table><tr><th>Area</th><th>Offset Type</th><th>Minimum Size (ha)</th></tr><tr><td>Area 1</td><td>Existing vegetation to be enhanced</td><td>1.71 ha</td></tr><tr><td>Area 2</td><td>Existing vegetation to be enhanced</td><td>2.56 ha</td></tr><tr><td>Area 3</td><td>Existing vegetation to be enhanced</td><td>2.14 ha</td></tr><tr><td>Protected Revegetation Area,</td><td>Vegetation to be established with the planting of native endemic flora species</td><td>1.5 ha</td></tr><tr><td>TOTAL</td><td></td><td>7.91</td></tr></table>	Area	Offset Type	Minimum Size (ha)	Area 1	Existing vegetation to be enhanced	1.71 ha	Area 2	Existing vegetation to be enhanced	2.56 ha	Area 3	Existing vegetation to be enhanced	2.14 ha	Protected Revegetation Area,	Vegetation to be established with the planting of native endemic flora species	1.5 ha	TOTAL		7.91	Compliant	Landscape Management Plan Version 3.2 (October 2017) Letter from DPE dated 5 July 2018	The implementation of the Biodiversity Offset Strategy is outlined in Section 7 of the Landscape Management Plan. The biodiversity offset areas are provided in Table 7.1 of the Landscape Management Plan. The total offset area of 8.18 ha is greater than that required by the Project Approval. The Landscape Management Plan Version 3.2 (October 2017) was approved by DPE in a letter dated 5 July 2018.
Area	Offset Type	Minimum Size (ha)																				
Area 1	Existing vegetation to be enhanced	1.71 ha																				
Area 2	Existing vegetation to be enhanced	2.56 ha																				
Area 3	Existing vegetation to be enhanced	2.14 ha																				
Protected Revegetation Area,	Vegetation to be established with the planting of native endemic flora species	1.5 ha																				
TOTAL		7.91																				
Relocated Powerlines																						
41.	The Proponent must ensure that any relocation of existing powerlines on site to facilitate implementation of the project has not greater than negligible environmental consequences on the approved Biodiversity Offset Strategy.	Not triggered	Nil.	To date powerlines have not been relocated.																		
Long Term Security of Offsets																						
42.	<div>By the end of June 2017, unless the Secretary agrees otherwise, the Proponent must make suitable arrangements to provide appropriate long term security for all of the offset areas in the Biodiversity Offset Strategy as identified in Table 7, and as shown in the figure in Appendix 6, to the satisfaction of the Secretary.</div> <div>Note: Mechanisms to provide appropriate long term security to the land must remain in force in perpetuity.</div>	Non-compliant	Letter from DPE dated 13 September 2018 Letter from DPE dated 05 July 2018	<div>GSQ Holdings understand that the long term security for the offset areas is the Offset Strategy and Conservation and Rehabilitation Bond.</div> <div>The Offset Strategy and Conservation and Rehabilitation Bond has now been approved and paid but was not complete by June 2017.</div> <div>Recommendation 14: Obtain from DPE confirmation the Offset Strategy and Conservation and Rehabilitation Bond is the long term security required by Condition 42, Schedule 3.</div>																		

Number	Condition	Compliance	Evidence	Comments												
Rehabilitation Objectives																
43.	The Proponent must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the proposed rehabilitation strategy in the EA, and comply with the objectives in Table 8. <i>Table 8: Rehabilitation Objectives</i>	Not triggered	Landscape Management Plan Version 3.2 (October 2017)	Rehabilitation has not commenced. Measures are contained within the Landscape Management Plan Version 3.2 (October 2017).												
	<table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Site (as a whole)</td><td>Safe, stable & non-polluting</td></tr><tr><td>Surface Infrastructure</td><td>To be decommissioned and removed, unless the Secretary agrees otherwise</td></tr><tr><td>Benchd Quarry Walls</td><td>Landscaped with native endemic flora species</td></tr><tr><td>Quarry Pit Floors</td><td>Suitable for grazing</td></tr><tr><td>Other land affected by the project</td><td>Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of:<ul style="list-style-type: none">• native endemic species: and• a landform consistent with the surrounding environment</td></tr></table>				Feature	Objective	Site (as a whole)	Safe, stable & non-polluting	Surface Infrastructure	To be decommissioned and removed, unless the Secretary agrees otherwise	Benchd Quarry Walls	Landscaped with native endemic flora species	Quarry Pit Floors	Suitable for grazing	Other land affected by the project	Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of: <ul style="list-style-type: none">• native endemic species: and• a landform consistent with the surrounding environment
	Feature				Objective											
	Site (as a whole)				Safe, stable & non-polluting											
	Surface Infrastructure				To be decommissioned and removed, unless the Secretary agrees otherwise											
	Benchd Quarry Walls				Landscaped with native endemic flora species											
	Quarry Pit Floors				Suitable for grazing											
Other land affected by the project	Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of: <ul style="list-style-type: none">• native endemic species: and• a landform consistent with the surrounding environment															
Progressive Rehabilitation																
44.	The Proponent must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies must be employed when areas prone to dust generation cannot yet be permanently rehabilitated.	Compliant	Landscape Management Plan Version 3.2 (October 2017) Observations.	Permanent rehabilitation has not commenced but interim rehabilitation with cover crops was observed. Measures contained within the Landscape Management Plan Version 3.2 (October 2017).												
Landscape Management Plan																
45.	The Proponent must prepare and implement a Landscape Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with OEH, DRE, DPI (Agriculture) and Council;	Compliant	Landscape Management Plan Version 3.2 (October 2017) Letter from DPE dated 5 July 2018.	It was reported in the previous IEA that the Landscape Management Plan Version 1.0 (December 2013), was prepared in consultation with OEH, DRE, DPI (Agriculture) and Council to the satisfaction of the Secretary.												

Number	Condition	Compliance	Evidence	Comments
	(b) be submitted to the Secretary for approval prior to carrying out any development on site (other than the construction of bunds and vegetative screening) under this approval;			Development under this approval commenced prior to the reporting period, so this condition was considered not applicable to the audit.
	(c) describe how the implementation of the Biodiversity Offset Strategy would be integrated with the overall rehabilitation of the site;		Landscape Management Plan Version 3.2 (October 2017)	Refer to chapter 7 in the Landscape Management Plan Version 3.2 (October 2017).
	(d) describe the short, medium and long term measures that would be implemented to: <ul style="list-style-type: none"> manage remnant vegetation and habitat on site; implement the Biodiversity Offset Strategy; and ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval; 		Landscape Management Plan Version 3.2 (October 2017)	Refer to chapter 10 in the Landscape Management Plan Version 3.2 (October 2017).
	(e) include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy and the rehabilitation of the site, including triggering remedial action (if necessary);		Landscape Management Plan Version 3.2 (October 2017)	Refer to Table 9.2 in the Landscape Management Plan Version 3.2 (October 2017).
	(f) include a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for: <ul style="list-style-type: none"> ensuring compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval; enhancing the quality of remnant vegetation and fauna habitat; restoring native endemic vegetation and fauna habitat within the biodiversity offset areas and rehabilitation area; maximising the salvage of environmental resources within the approved disturbance area – including vegetative and soil resources – for beneficial reuse in the enhancement of the biodiversity areas or rehabilitation area; collecting and propagating seed; ensuring negligible environmental consequences for the local Koala population; minimising the impacts on native fauna on site, including undertaking appropriate pre-clearance surveys; controlling weeds and feral pests; controlling erosion; 		Landscape Management Plan Version 3.2 (October 2017)	Refer to chapter 8 in the Landscape Management Plan Version 3.2 (October 2017).

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> managing grazing and agriculture on site; controlling access; and bushfire management; 			
	(g) include a consultation program regarding the potential removal of Bund A as part of the rehabilitation of the site. Receptors NAL 2 and 3, must be consulted as part of the program;		Landscape Management Plan Version 3.2 (October 2017)	Refer to section 9.5 in the Landscape Management Plan Version 3.2 (October 2017).
	(h) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;		Landscape Management Plan Version 3.2 (October 2017)	Refer to chapter 11 in the Landscape Management Plan Version 3.2 (October 2017).
	(i) identify the potential risks to successful implementation of the Biodiversity Offset Strategy and rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate against these risks; and		Landscape Management Plan Version 3.2 (October 2017)	Refer to section 9.4 in the Landscape Management Plan Version 3.2 (October 2017).
	(j) include details of who would be responsible for monitoring, reviewing, and implementing the plan.		Landscape Management Plan Version 3.2 (October 2017)	Refer to chapter 11 in the Landscape Management Plan Version 3.2 (October 2017)
	The Proponent must implement the approved management plan as approved from time to time by the Secretary.		Observations	<p>Pegs reportedly indicating the offset area were observed but there was some uncertainty about what the pegs indicated.</p> <p>Recent maintenance was not obvious, nor were any monitoring records provided.</p> <p>Refer to Recommendations 2 and 3</p>

Number	Condition	Compliance	Evidence	Comments
Conservation & Rehabilitation Bond				
46.	<p>Within 6 months of the approval of the Landscape Management Plan, the Proponent must lodge a Conservation and Rehabilitation 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 Landscape Management Plan. The sum of the bond must be determined by:</p> <p>(a) calculating the full future cost of implementing the Biodiversity Offset Strategy;</p> <p>(b) calculating the cost of rehabilitating the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and</p> <p>(c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs; to the satisfaction of the Secretary.</p> <p>Notes:</p> <ul style="list-style-type: none"> <i>If capital and other expenditure required by the Landscape Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.</i> <i>If the Biodiversity Offset Strategy and rehabilitation of the site area are completed to the satisfaction of the Secretary, the Secretary will release the bond. If the Biodiversity Offset Strategy and rehabilitation of the site are not completed to the satisfaction of the Secretary, the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.</i> 	Compliant	<p>Landscape Management Plan Version 3.2 (October 2017)</p> <p>Letter from DPE dated 5 July 2018.</p> <p>Letter from DPE dated 13 September 2018</p>	<p>GSQ advised:</p> <ul style="list-style-type: none"> An updated Landscape Management Plan Version 2.2 (October 2017) was prepared and implemented. The Landscape Management Plan Version 3.2 (October 2017) was approved by DPE pursuant to letter dated 5 July 2018. On 31 August 2018 GSQ submitted a revised calculation for the Richmond Quarry Conservation and Rehabilitation Bond. <p>By letter dated 13 September 2018, DPE advised that they were satisfied that the bond calculation reflects the conditions of approval and approved the calculated amount. It was stipulated that the bond must be lodged no later than 11 October 2018. GSQ reported the bond has been paid.</p>
47.	<p>Within 3 months of the completion of each Independent Environmental Audit (see condition 8 of schedule 5), the Proponent must review, and if necessary revise, the sum of the Conservation and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the:</p> <p>(a) effects of inflation;</p> <p>(b) likely cost of implementing the Biodiversity Offset Strategy and rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the project); and</p> <p>(c) performance of the implementation of the Biodiversity Offset Strategy and rehabilitation of the site to date.</p>	Not triggered		<p>The Conservation and Rehabilitation Bond had not been calculated at the last IEA because the operator was waiting for the Landscape Management Plan to be approved. It is therefore considered this condition has not been triggered because there was no bond to review.</p> <p>The Conservation and Rehabilitation Bond should be reviewed following the completion of this IEA.</p>

Table A-3 Compliance with Project Approval 09_0080 - Schedule 4

Number	Condition	Compliance	Evidence	Comments
NOTIFICATION OF LANDOWNERS				
1.	<p>As soon as practicable after obtaining monitoring results showing an:</p> <p>(a) exceedance of any relevant criteria in schedule 3, the Proponent must notify affected landowners in writing of the exceedance, and provide regular monitoring results to each of affected landowner until the project is again complying with the relevant criteria; and</p> <p>(b) an exceedance of the relevant air quality criteria in schedule 3, the proponent must send a copy of the NSW Health fact sheet entitled "<i>Mine Dust and You</i>" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land (including the tenants on land which is quarry-owned).</p>	Non-compliant	<p>RQ Noise Monitoring Results Summary (as displayed on website)</p> <p>RQ Air Quality Monitoring Results Summary (as displayed on website)</p>	<p>Noise and air quality exceedances have been recorded within the reporting period but no evidence was provided that affected landowners were notified.</p> <p>Corrective action 6: Notify the affected landowners when exceedances of monitoring criteria occur.</p>
INDEPENDENT REVIEW				
2.	<p>If an owner of privately-owned land considers the project 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 project on his/her land.</p> <p>If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Proponent must:</p> <p>(a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> consult with the landowner to determine his/her concerns; conduct monitoring to determine whether the project is complying with the relevant criteria in schedule 3; and if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and <p>(b) give the Secretary and landowner a copy of the independent review.</p>	Not triggered	Nil.	GSQ Holdings advise that no such review has been requested by an owner of privately-owned land.

Number	Condition	Compliance	Evidence	Comments
3.	<p>If the independent review determines that the project is complying with the relevant criteria in schedule 3, then the Proponent may discontinue the independent review with the approval of the Secretary.</p> <p>If the independent review determines that the project is not complying with the relevant criteria in schedule 3, then the Proponent must:</p> <p>(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until the project complies with the relevant criteria; or</p> <p>(b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Secretary.</p>	Not triggered	Nil.	GSQ advise that no such review has been requested by an owner of privately-owned land.

Table A-4 Compliance with Project Approval 09_0080 - Schedule 5

Number	Condition	Compliance	Evidence	Comments
ENVIRONMENTAL MANAGEMENT				
Environmental Management Strategy				
1.	If the Secretary requires, the Proponent must prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:	Compliant	Letter from DPE dated 05 July 2018 approving the plan.	The Environmental Management Strategy Version 3.2 (October 2017) was approved by the DPE on 5 July 2018. Implementation of the EMS was demonstrated by the complaints details on the website, induction records, monitoring and general environmental management at the site.
	(a) be submitted to the Secretary for approval prior to any development being carried out on the site under this approval;			The project commenced prior to the reporting period.
	(b) provide the strategic framework for environmental management of the project;		Environmental Management Strategy	The Environmental Management Strategy generally provides the strategic framework for the project.
	(c) identify the statutory approvals that apply to the project;		Environmental Management Strategy	Refer to chapter 4 in the Environmental Management Strategy.
	(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;		Environmental Management Strategy	Refer to section 6.1 in the Environmental Management Strategy.
	(e) describe the procedures that would be implemented to:			
	<ul style="list-style-type: none"> keep the local community and relevant agencies informed about the operation and environmental performance of the project; 		Environmental Management Strategy	Refer to section 6.3.2 in the Environmental Management Strategy.
	<ul style="list-style-type: none"> receive, handle, respond to, and record complaints; 		Environmental Management Strategy	Refer to section 6.3.3 in the Environmental Management Strategy.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> resolve any disputes that may arise during the course of the project; 		Environmental Management Strategy	Refer to sections 6.3 and 6.4 in the Environmental Management Strategy.
	<ul style="list-style-type: none"> respond to any non-compliance; and 		Environmental Management Strategy	Refer to sections 7.1.2 and 7.3 in the Environmental Management Strategy.
	<ul style="list-style-type: none"> respond to emergencies; and 		Environmental Management Strategy	Refer to section 6.4 in the Environmental Management Strategy.
	(f) include:			
	<ul style="list-style-type: none"> copies of any strategies, plans and programs approved under the conditions of this approval; and 		Environmental Management Strategy	Refer to section 5.1 in the Environmental Management Strategy.
	<ul style="list-style-type: none"> a clear plan depicting all the monitoring required to be carried out under the conditions of this approval 		Environmental Management Strategy	Refer to section 5 in the Environmental Management Strategy.
	The Proponent must implement the approved management strategy as approved from time to time by the Secretary.		Observations Monitoring records	Implementation of the EMS was demonstrated by the complaints details on the website, induction records, monitoring and general environmental management at the site.

Number	Condition	Compliance	Evidence	Comments
Evidence of Consultation				
1A	Where consultation with any public authority is required by the conditions of this consent, the Applicant must: (a) consult with the relevant public authority prior to submitting the required document to the Secretary for approval; (b) submit evidence of this consultation as part of the relevant document; (c) describe how matters raised by the authority have been addressed and any matters not resolved; and (d) include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Applicant.	Non-compliant		No evidence of consultation with public authorities, in relation to the revisions of management plan undertaken during the reporting period, was provided. However, it is unclear if consultation with public authorities is required for the revision of management plans. Public authorities were reportedly consulted during the preparation of the original management plans, although the details required by this condition are not provided. Corrective action 7: Where required by the conditions, provide evidence of consultation with public authorities, any comments and how the comments have been addressed, as per Condition 1A, Schedule 5.
Adaptive Management				
2.	The Proponent must assess and manage project-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 approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. Where any exceedance of these criteria and/or performance measures has occurred, the Proponent must, at the earliest opportunity: (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.	Non-compliant	Noise Monitoring Results Summary (as displayed on website) Air Quality Monitoring Results Summary (as displayed on website)	Exceedances of criteria in schedule 3 have been recorded but no evidence was provided that these were reported to the Secretary. Corrective action 8: Notify the Secretary when exceedances of monitoring criteria occur.

Number	Condition	Compliance	Evidence	Comments
Management Plan Requirements				
3.	<p>The Proponent must ensure that the Management Plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <ul style="list-style-type: none"> the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures/criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; <p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> impacts and environmental performance of the project; and effectiveness of any management measures (see (c) above); <p>(e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>(f) a program to investigate and implement ways to improve the environmental performance of the project over time;</p> <p>(g) a protocol for managing and reporting any:</p> <ul style="list-style-type: none"> incidents; complaints; non-compliances with statutory requirements; and 	Compliant	Air Quality Management Plan Heritage Management Plan Landscape Management Plan Noise Management Plan Transport Management Plan Waste Management Plan Water Management Plan	These requirements have been adopted in individual management plans.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> exceedances of the impact assessment criteria and/or performance criteria; and <p>(h) a protocol for periodic review of the plan.</p> <p><i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i></p>			
Annual Review				
4.	<p>By the end of March each year, the Proponent must submit a report to the Department reviewing the environmental performance of the project to the satisfaction of the Secretary. This review must:</p> <p>(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;</p> <p>(b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against:</p> <ul style="list-style-type: none"> the relevant statutory requirements, limits or performance measures/criteria; the monitoring results of previous years; and the relevant predictions in the documents listed in condition 2(a) of Schedule 2; <p>(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>(d) identify any trends in the monitoring data over the life of the project;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</p>	Non-compliant	<p>Letter from DPE dated 29 May 2017</p> <p>Letter from DPE dated 03 August 2018</p> <p>Annual Review 2016</p> <p>Annual Review 2017</p>	<p>The Annual Review 2016 was submitted on 11 May 2017, however the DPE letter dated 29 May 2017 indicates this is an amended version. It has not been possible to confirm if there was an original and if it was submitted by the end of March 2017.</p> <p>The Annual Review 2016 is also missing some of the required information e.g. biodiversity, waste, heritage information, DRE report.</p> <p>According to a letter from DPE dated 03 August 2018, the Annual Review 2017 was submitted on 01 April 2018. The letter highlighted a number of deficiencies with the Annual Review, including rehabilitation, biodiversity, heritage and community summaries.</p> <p>A revised Annual Review was submitted to DPE on 28 September 2018 to address the deficiencies.</p> <p>Corrective action 9: Submit the Annual Review by the end of March each year and include all of the requirements of Condition 4, Schedule 5.</p>

Number	Condition	Compliance	Evidence	Comments
	(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.			
Revision of Strategies, Plans & Programs				
5.	Within 3 months of the submission of an:	Non-compliant		
	(a) annual review under condition 4 above:		Annual Review 2016 Annual Review 2017	An Annual Review was completed in 2016 and 2017. Neither review required any modification to Management Plans.
	(b) incident report under condition 7 below;		Nil.	It was reported by GSQ that no incident has occurred that has caused, or threatens to cause, material harm to the environment. However, as explained in Condition 7, Schedule 5 below, it is considered incidents have occurred and therefore a review of the management plans was required.
	(c) audit report under condition 9 below; and		IEA 2015 Landscape Management Plan	The IEA 2015 recommended the Landscape Management Plan be updated. Based on the Revision history in the Landscape Management Plan the next revision after the IEA was January 2017.
	(d) any modifications to this approval,		Landscape Management Plan (Version 3.0) Landscape Management Plan (Version 3.2)	In the reporting period there has been a Modification approved in September 2016 and August 2017. Revised Landscape Management Plans were lodged in January 2017 and October 2017. The version lodged in January 2017 was 4 months after the Modification 2 was approved.

Number	Condition	Compliance	Evidence	Comments
	<p>the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.</p> <p><i>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 project.</i></p>		Nil.	<p>As mentioned above, revisions of management plans have occurred but not always within the specified timeframe.</p> <p>Corrective action 10: Review management plans as required by Condition 5, Schedule 5 and submit to the Secretary within the specified timeframes.</p>
Community Consultative Committee				
6.	<p>The Proponent must establish and operate a CCC for the project to the satisfaction of the Secretary. This CCC must be operated in general accordance with the <i>Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects</i> (Department of Planning, 2007, or its latest version), and be operating prior to any development being carried out on site under this approval.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> <i>The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval.</i> <i>In accordance with the guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community.</i> 	Compliant	<p>CCC minutes on RQ website</p> <p>Letters to residents dated 25 May 2017</p> <p>Letters to residents dated 13 August 2018</p> <p>Words for the advertisement</p>	<p>A CCC has been established and by the minutes, meetings held twice a year in 2016, once in 2017 and none in 2018, although a meeting was scheduled for September. The CCC 2017 minutes report the CCC meeting frequency be reduced to 1 per annum, with a right to call a special meeting if operations change.</p> <p>Currently there is no Community Representative, apparently due to a lack of interest. However, letters were provided to local receivers on 27 May 2017 requesting expression of interests. In addition, an advertisement was placed in the local newspaper on 23/05/2017.</p> <p>With the change in quarry management, on 13 August 2018 letters were provided to residents advising them of changes at the quarry and requesting interest in the CCC.</p> <p>A CCC meeting was held on 24 September 2018.</p>

Number	Condition	Compliance	Evidence	Comments
REPORTING				
Incident Reporting				
7.	The Proponent must immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Proponent must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Non-compliant	Nil.	<p>It was reported by GSQ that there has not been an incident that has caused, or threatens to cause, material harm to the environment.</p> <p>However the definition of “incident” in the approval includes “breaches or exceed the limits or performance measures/criteria in the approval”.</p> <p>As there have been some breaches of the criteria in the approval, it is considered incidents have occurred and no evidence of the Secretary or any other agency being notified was provided.</p> <p>Corrective action 11: Report incidents to the Secretary and other relevant agencies within seven days of the incident.</p>
Regular Reporting				
8.	The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.	Compliant	RQ website	A review of the website confirmed that it contained annual environmental management reports, monitoring results, CCC minutes and complaints register.

Number	Condition	Compliance	Evidence	Comments
INDEPENDENT ENVIRONMENTAL AUDIT				
9.	<p>Within a year of the commencement of development on site under this approval, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p> <p>(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;</p> <p>(b) include consultation with the relevant agencies;</p> <p>(c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL and/or Water License (including any assessment, plan or program required under these approvals);</p> <p>(d) review the adequacy of any approved strategy, plan or program required under the these approvals; and</p> <p>(e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals; and</p> <p>(f) be conducted and reported to the satisfaction of the Secretary.</p> <p><i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i></p>	Compliant	<p>DPE letter dated 28 August 2018</p> <p>DPE letter dated 03 July 2018</p>	<p>This audit constitutes compliance with Condition 9, Schedule 5.</p> <p>The GHD audit team were approved in writing by DPE. DPE letter dated 03 July 2018 approved the appointment of GHD for the audit.</p> <p>The audit deadline was extended by DPE at the request of GSQ Holdings. Sighted DPE letter dated 28 August 2018 extended the audit deadline to 31 December 2018.</p>
10.	<p>Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report, including a timetable for the implementation of any measures proposed to address the recommendations in the report.</p>	Not triggered	DPE letter dated 28 August 2018	<p>The IEA was commissioned on 04 July 2018 but the letter from DPE dated 28 August 2018 extended the audit deadline to 31 December 2018.</p> <p>GSQ will need to provide a response to this audit to the Secretary by 31 December 2018.</p>

Number	Condition	Compliance	Evidence	Comments
ACCESS TO INFORMATION				
11.	<p>Within 4 months of the date of this approval, the Proponent must:</p> <p>(a) make the following information publicly available on its website:</p> <ul style="list-style-type: none"> • the EA; • current statutory approvals for the project; • approved strategies, plans or programs; • a summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval; • a complaints register, updated on a quarterly basis; • minutes of CCC meetings; • copies of any annual reviews (over the last 5 years); • any independent environmental audit, and the Proponent's response to the recommendations in any audit; and • any other matter required by the Director-General; and <p>(b) keep this information up-to-date, to the satisfaction of the Director-General.</p>	Compliant	RQ website	A review of the website confirmed that it contained the required information

Appendix B – Environment Protection Licence Audit Checklist

Table B-1 Compliance with EPL – Administrative Conditions

Number	Condition	Compliance	Evidence	Comments		
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	Annual Review 2017	The annual crushing, grinding or separating or extractive industries has not yet been reached: The Annual Review reports 42,285.84 tonnes were produced in 2017 and 6,416.3 tonnes in 2016.	
	Scheduled Activity	Fee Based Activity				Scale
	Crushing, grinding or separating	Crushing, grinding or separating				> 30000 - 100000 T processed
	Extractive Activities	Land-based extractive activity				> 50000 - 100000 T extracted, processed or stored
A1.2	Notwithstanding A1.1, the scale of the land-based extractive activity authorised under this licence must not exceed 250,000 tonnes per annum, being the amount equivalent to the extraction limit approved by the development consent granted under the Environmental Planning and Assessment Act 1979 for the premises specified in A2.		Compliant		Refer to Condition A1.1	
PREMISES OR PLANT TO WHICH THIS LICENCE APPLIES						
A2.1	The licence applies to the following premises: Premises Details RICHMOND QUARRY 1668 WYRALLAH ROAD TUCKURIMBA NSW 2480		Compliant	Observation	This was the property on which the audit was conducted.	

Number	Condition	Compliance	Evidence	Comments
INFORMATION SUPPLIED TO THE EPA				
A3.1	<p>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:</p> <ul style="list-style-type: none"> 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 the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence. 	Compliant	Nil	GSQ Holdings report the activities are carried out in accordance with those contained in the licence application.

Table B-2 Compliance with EPL – Discharge to air water and application to land

Number	Condition				Compliance	Evidence	Comments
Location of monitoring/discharge points and areas							
P1.1	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.				Not applicable		Noted
P1.2	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. Water and land				Compliant	Water Management Plan Observation	The discharge point is identified on site and in the Water Management Plan
	EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description			
	1	Water Reuse Dam discharge point	Water Reuse Dam discharge point	The Water Reuse Dam discharges onto agricultural land at the north western end of the Water Reuse Dam			
P1.3	P1.3 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or setting of limits for the emission of noise from the point. Noise				Compliant	Noise Management Plan	EPA Identification No. 2 – 7 are Noise Assessment Locations as set out below and in the Noise Management Plan. EPA Identification No. 2 – NAL 1 EPA Identification No. 3 – NAL 2 EPA Identification No. 4 – NAL 2A EPA Identification No. 5 – NAL 3 EPA Identification No. 6 – NAL 4 EPA Identification No. 7 – NAL 5
	EPA Identification no.	Type of monitoring point		Location description			
	2	Noise monitoring					
	3	Noise monitoring					
	4	Noise monitoring					
	5	Noise monitoring					
	6	Noise monitoring					
	7	Noise monitoring					

Table B-3 Compliance with EPL – Limit conditions

Number	Condition	Compliance	Evidence	Comments
L1	Pollution of waters			
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	Compliant		Refer to Project Approval Schedule 3, Condition 14 in Appendix A
L1.2	Rainfall runoff from all disturbed areas of the premises arising from up to 60.2mm (up to five day event duration) must, prior to discharge from the premises, be captured and treated to the standard set out in condition L2 below.	Not triggered	Nil.	<p>GSQ report that to date there have been no discharges, intentional or otherwise from the EPL discharge point.</p> <p>While it is possible that there have been no discharges from rainfall events up to 60.2mm, it is considered unlikely there have been no discharges and there is no evidence to confirm if or when the licenced discharge point was monitored.</p> <p>Refer to Recommendation 9</p>
L2	Concentration limits			
L2.1	For each monitoring/discharge point or utilisation area specified in the table\ 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.	Not triggered	Nil.	GSQ report that to date there has been no discharges, intentional or otherwise from Point 1.
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.			
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\.			

Number	Condition						Compliance	Evidence	Comments
L2.4	Water and/or Land Concentration Limits								
	POINT 1								
	Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit			
	Oil and Grease	milligrams per litre				nil			
	pH	pH				6.5 - 8.5			
	Total Suspended solids	milligrams per litre				50			
L3	Waste								
L3.1	The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.						Compliant	Nil.	GSQ report that no waste has been received from off site.

Number	Condition	Compliance	Evidence	Comments																																
L4	Noise limits																																			
L4.1	<div>Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column 2.</div> <div>POINT 2</div> <table><tr><td>Time period</td><td>Measurement parameter</td><td>Measurement frequency</td><td>Noise level dB(A)</td></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Special Frequency 1</td><td>35</td></tr></table> <div>POINT 3</div> <table><tr><td>Time period</td><td>Measurement parameter</td><td>Measurement frequency</td><td>Noise level dB(A)</td></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Special Frequency 1</td><td>37</td></tr></table> <div>POINT 4</div> <table><tr><td>Time period</td><td>Measurement parameter</td><td>Measurement frequency</td><td>Noise level dB(A)</td></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Special Frequency 1</td><td>37</td></tr></table> <div>POINT 5</div> <table><tr><td>Time period</td><td>Measurement parameter</td><td>Measurement frequency</td><td>Noise level dB(A)</td></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Daily</td><td>35</td></tr></table>	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Special Frequency 1	35	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Special Frequency 1	37	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Special Frequency 1	37	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Daily	35	Non-compliant	Noise monitoring results	Refer to Project Approval Schedule 3, Condition 5 in Appendix A
Time period	Measurement parameter	Measurement frequency	Noise level dB(A)																																	
Day	LAeq (15 minute)	Special Frequency 1	35																																	
Time period	Measurement parameter	Measurement frequency	Noise level dB(A)																																	
Day	LAeq (15 minute)	Special Frequency 1	37																																	
Time period	Measurement parameter	Measurement frequency	Noise level dB(A)																																	
Day	LAeq (15 minute)	Special Frequency 1	37																																	
Time period	Measurement parameter	Measurement frequency	Noise level dB(A)																																	
Day	LAeq (15 minute)	Daily	35																																	

Number	Condition	Compliance	Evidence	Comments																
	<div>POINT 6</div> <table><tr><td>Time period</td><td>Measurement parameter</td><td>Measurement frequency</td><td>Noise level dB(A)</td></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Special Frequency 1</td><td>38</td></tr></table> <div>POINT 7</div> <table><tr><td>Time period</td><td>Measurement parameter</td><td>Measurement frequency</td><td>Noise level dB(A)</td></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Special Frequency 1</td><td>38</td></tr></table>	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Special Frequency 1	38	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Special Frequency 1	38			
Time period	Measurement parameter	Measurement frequency	Noise level dB(A)																	
Day	LAeq (15 minute)	Special Frequency 1	38																	
Time period	Measurement parameter	Measurement frequency	Noise level dB(A)																	
Day	LAeq (15 minute)	Special Frequency 1	38																	
L4.2	In reference to Condition L4.1 above, Special Frequency 1 means during compliance noise monitoring.	Not applicable		Noted																
L4.3	<div>During construction of Bunds A, C (stage 3 only) and D and the water re-use and water supply dams, provided the EPA has been notified in writing of the dates that these works will be undertaken the following construction Noise limits apply:</div> <div><div>NAL 1, NAL 4 and NAL 5 (Point 2, 6 and 7)</div><div>45 LAeq (15 min) dB(A)</div></div> <div><div>NAL 2, NAL 2A, NAL 3 and privately-owned land along the southern end of Hazelmound Lane (Point 3, 4 and 5)</div><div>42 LAeq (15 min) dB(A)</div></div> <div><div>All other receivers</div><div>40LAeq (15 min) dB(A)</div></div>	Not triggered	Nil.	Refer to Project Approval Schedule 3, Condition 4 in Appendix A																
L4.4	The notification of the EPA to satisfy L4.3 must be made in writing within 1 week prior to the construction work on Bunds A, C (stage 3 only) and D and the water re-use and water-supply dams taking place. In the event construction of these elements extends beyond 1 week, this notification will be required each week while the construction continues.	Not triggered	Nil.	Refer to Project Approval Schedule 3, Condition 4 in Appendix A																
L4.5	Noise from the premises is to be measured at receivers NAL 1, NAL 2, NAL 2A, NAL 3, NAL 4 and NAL 5 as identified in the Project Approval (application number 09_0080, Appendix 2 - Project Layout Plans) to determine compliance with this condition.	Non-compliant	Noise monitoring results	Refer to Project Approval Schedule 3, Condition 5 in Appendix A																

Number	Condition	Compliance	Evidence	Comments
L4.6	<p>The noise limits set out in the preceding conditions apply under all meteorological conditions except for the following:</p> <ul style="list-style-type: none"> · Wind speeds greater than 3 meters/second at 10 meters above ground level; or · Temperature inversion conditions greater than 3°C/100 meters. 	Not applicable	Nil	Noted
L5	Blasting			
L5.1	<p>Blasting operations at the premises may only take place between 9:00am and 3:00pm weekdays. (Where compelling safety reasons exist, the Authority may permit a blast to occur outside the abovementioned hours. Prior written (or facsimile) notification of any such blast must be made to the Authority).</p>	Not triggered	Nil.	GSQ report no blasting has occurred at the premises.
L5.2	<p>The airblast overpressure level from blasting operations in or on the premises must not exceed: 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and 120 dB (Lin Peak) at any time.</p> <p>At most affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level.</p>			
L5.3	<p>The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:</p> <p>5 mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and</p> <p>10 mm/s at any time.</p> <p>At most affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level.</p>			
L5.4	<p>To determine compliance with condition(s) L5.2 and L5.3:</p> <p>Airblast overpressure level and ground vibration peak particle velocity must be measured at the most affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative airblast overpressure level and/or ground vibration peak particle velocity for all blasts carried out in or on the premises; and</p> <p>Instrumentation used to measure the airblast overpressure level and ground vibration peak particle velocity must meet the requirements of Australian Standard AS 2187.2-2006.</p>			

Number	Condition	Compliance	Evidence	Comments
L5.5	Receivers NAL 1 -5 (which are identified in Project Approval application number 09_0080, Appendix 2 - Project Layout Plans), who have not expressly requested otherwise, are to be given at least 24 hours notice when blasting is to be undertaken			
L6	Hours of operation			
L6.1	Activities covered by this licence must only be carried out between the hours of 7:00am and 6:00pm Monday to Friday, and 8:00am and 1:00pm Saturday, and at no time on Sundays and Public Holidays. Maintenance of plant and machinery activities may occur at any time provided they are inaudible at privately-owned residences.	Non-compliant		Refer to Project Approval Schedule 3, Condition 6 in Appendix A
L6.2	This condition does not apply to the delivery of material outside the hours of operation permitted by condition L6.1, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification must be provided to the EPA and affected residents as soon as possible or within a reasonable period in the case of emergency.	Not applicable		Noted

Table B-4 Compliance with EPL – Operating conditions

Number	Condition	Compliance	Evidence	Comments
O1	Activities must be carried out in a competent manner			
O1.1	<p>O1.1 Licensed activities must be carried out in a competent manner.</p> <p>This includes:</p> <ul style="list-style-type: none"> the processing, handling, movement and storage of materials and substances used to carry out the activity; and the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity. 	Compliant	Employee Induction Waste Management Plan	<p>Employees are trained in their relevant areas as they relate to the processing, handling, movement and storage of materials and substances and waste handling.</p> <p>Additionally, toolbox talks are carried out regularly by the Quarry Manager.</p> <p>The Waste Management Plan sets out the processes for dealing with waste.</p>
O2	Maintenance of plant and equipment			
O2.1	<p>All plant and equipment installed at the premises or used in connection with the licensed activity:</p> <ul style="list-style-type: none"> must be maintained in a proper and efficient condition; and must be operated in a proper and efficient manner. 	Compliant	Nil.	Refer to Project Approval, Schedule 2 Condition 17 in Appendix A
O3	Dust			
O3.1	Activities occurring in or on the premises must be carried out in a manner that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.	Compliant	Nil.	Refer to Project Approval, Schedule 3 Condition 11 in Appendix A
O4	Processes and management			
O4.1	Sediment Basins shall be treated, if required, to reduce the Total Suspended Solids level to the licenced concentration limit before being discharged to the environment. Treatment can be with gypsum or any other material that has been approved by the EPA.	Not triggered	Nil.	GSQ report, to date there have been no discharges, intentional or otherwise from this point.

Number	Condition	Compliance	Evidence	Comments
O4.2	All liquid chemicals, fuels and oils must be stored in tanks or containers inside suitable bund(s). Bunds are to be designed, constructed and maintained in accordance with AS1940-2004 Storage and Handling of Flammable and Combustible Liquids.	Non-compliant	Nil.	Refer to Schedule 3, Condition 16 in Appendix A
O4.3	Each sedimentation basin must have a marker (the "sedimentation basin marker") that identifies the upper level of the sediment storage zone.	Compliant	Annual Review 2017	A marker indicating the capacity required to be maintained in the Water Reuse Dam was observed. While not a sediment marker, it is more conservative and therefore considered adequate.
O4.4	Whenever the level of liquid and other material in any sedimentation basin exceeds the level indicated by the sedimentation basin marker, the licensee must take all practical measures as soon as possible to reduce the level of liquid and other material in the sedimentation basin.	Not verified	Nil.	The level of liquid and sediment was below the mark described above and it was reported that sedimentation basins are routinely cleaned of sediment by a small excavator. Refer to Recommendation 9
O4.5	The licensee must maximise the diversion of run-on waters from lands upslope and around the site whilst land disturbance activities are being undertaken.	Compliant	Water Management Plan Observations	Diversion runoff practices are set out in section 7.3 of the Water Management Plan and diversion bunds were observed onsite.
O4.6	The licensee must maximise the diversion of stormwater runoff containing suspended solids to sediment basins installed on the premises.	Compliant	Water Management Plan Observations	Diversion of stormwater runoff practices are set out in section 7.3.1 of the Water Management Plan and diversion bunds were observed onsite.
O4.7	Where sediment basins are necessary, all sediment basins and associated drainage must be installed and commissioned prior to the commencement of any clearing or grubbing works within the catchment area of the sediment basin that may cause sediment to leave the site.	Not applicable	Nil.	This condition is not applicable as the water reuse dam was constructed and commissioned prior to the audit period.
O4.8	The licensee must ensure the design storage capacity of the sediment basins installed on the premises is reinstated within 5 days of the cessation of a rainfall event that causes runoff to occur on or from the premises.	Not verified	Nil	It was reported GSQ comply with this condition but no evidence was available. Refer to Recommendation 9

Number	Condition	Compliance	Evidence	Comments
O4.9	<p>The licensee must ensure that sampling point(s) for water discharged from the sediment basin(s) are provided and maintained in an appropriate condition to permit:</p> <ul style="list-style-type: none"> the clear identification of each sediment basin and discharge point; the collection of representative samples of the water discharged from the sediment basin(s); and access to the sampling point(s) at all times by an authorised officer of the EPA. 	Compliant	Observations Water Management Plan	The monitoring point is clearly identified with a sign and accessible.
O4.10	The licensee must endeavour to maximise the reuse of captured stormwater on the premises.	Compliant	Water Management Plan Version 2.2 (October 2017)	The Water Management Plan and GSQ report indicates that water is reused on site for dust control and will be used in the sand washing process.

Table B-5 Compliance with EPL – Monitoring and recording conditions

Number	Condition	Compliance	Evidence	Comments
M1	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.	Not applicable	Nil	Refer below
M1.2	<p>All records required to be kept by this licence must be:</p> <ul style="list-style-type: none"> • in a legible form, or in a form that can readily be reduced to a legible form; • kept for at least 4 years after the monitoring or event to which they relate took place; and • produced in a legible form to any authorised officer of the EPA who asks to see them. 	Compliant	RQ website	All monitoring records are provided on RQ website. It was confirmed that the records meet the requirements of this condition.
M1.3	<p>The following records must be kept in respect of any samples required to be collected for the purposes of this licence:</p> <ul style="list-style-type: none"> • the date(s) on which the sample was taken; • the time(s) at which the sample was collected; • the point at which the sample was taken; and • the name of the person who collected the sample. 	Compliant	Monitoring records	It was confirmed that the monitoring records generally include the required information.
M2	Requirement to monitor concentration of pollutants discharged			
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:	Not triggered		To date, there have been no discharges, intentional or otherwise from this point.

Number	Condition	Compliance	Evidence	Comments																
M2.2	<div>Water and/ or Land Monitoring Requirements</div> <table><tr><td>Pollutant</td><td>Units of measure</td><td>Frequency</td><td>Sampling Method</td></tr><tr><td>Oil and Grease</td><td>Visible</td><td>Special Frequency 1</td><td>Visual Inspection</td></tr><tr><td>pH</td><td>pH</td><td>Special Frequency 1</td><td>Grab sample</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td>Special Frequency 1</td><td>Grab sample</td></tr></table>	Pollutant	Units of measure	Frequency	Sampling Method	Oil and Grease	Visible	Special Frequency 1	Visual Inspection	pH	pH	Special Frequency 1	Grab sample	Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample			
Pollutant	Units of measure	Frequency	Sampling Method																	
Oil and Grease	Visible	Special Frequency 1	Visual Inspection																	
pH	pH	Special Frequency 1	Grab sample																	
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample																	
M2.3	Special Frequency 1 means sampling once <24 hours prior to actively emptying the ponds and during each discharge event arising from rainfall less than 60.2 mm falling in total over a period of up to five days duration.																			
M3	Testing methods - concentration limits																			
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.	Not triggered		To date there have been no discharges, intentional or otherwise from this point.																
M4	Environmental monitoring																			
M4.1	The licensee is required to install and maintain a rainfall depth measuring device.	Compliant	Daily Rainfall Monitoring Records Observation	GSQ Holdings reported a rainfall gauge is monitored on-site on a daily basis. Data is recorded in the Richmond Quarry Daily Rainfall Monitoring Records (IMS-ENVM0G-3751-RQ).																
M4.2	Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the same time each day. Note: The rainfall monitoring data collected in compliance with Condition M4.2 can be used to determine compliance with L2.4.																			

Number	Condition	Compliance	Evidence	Comments
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.	Compliant	Complaints records	GSQ have a standard complaint form that includes the required information and is completed when a complaint is received. The complaints database is on the RQ website.
M5.2	The record must include details of the following: <ul style="list-style-type: none"> the date and time of the complaint; the method by which the complaint was made; any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; the nature of the complaint; the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and if no action was taken by the licensee, the reasons why no action was taken. 			
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Compliant	Complaints records	A copy of the complaints records is on the RQ website.
M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Not triggered		GSQ advised no EPA officer has requested to see the complaint records.
M6	Telephone complaints line			
M6.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Compliant	RQ website	GSQ operate a complaints phone line during operating hours which is advertised on their website.
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	RQ website	GSQ lists the complaints line phone number and email address on their website.

Number	Condition	Compliance	Evidence	Comments
M6.3	The preceding two conditions do not apply until 3 months after the date of the issue of this licence.	Not applicable	Nil.	The licence was issued greater than three months prior to the reporting period, so it was outside the scope of this audit to confirm compliance with this condition.
M7	M7 Other monitoring and recording conditions			
M7.1	For the purpose of monitoring for compliance with the noise limits set in this licence noise emitted from the premises must be measured or computed at 30 metres from the nearest residential dwelling/s over a period of 15 minutes using the "FAST" response on the sound level meter. A modifying factor correction must be applied for tonal, impulsive, or intermittent noise in accordance with the document NSW Industrial Noise Policy (NSW EPA, January 2000).	Compliant	Monitoring records	There have been some issues with the noise monitoring in the past but a consultant now undertakes the monitoring which has provided more reliable data. It is reported the monitoring is undertaken in accordance with the NSW Industrial Noise Policy (NSW EPA, January 2000).

Table B-6 Compliance with EPL – Reporting conditions

Number	Condition	Compliance	Evidence	Comments
R1	R1 Annual return documents			
R1.1	<p>The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ul style="list-style-type: none"> • a Statement of Compliance; and • a Monitoring and Complaints Summary. <p>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.</p>	Compliant	EPA website	Annual Return has been submitted each year in the required format.
R1.2	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.			
R1.3	<p>Where this licence is transferred from the licensee to a new licensee: 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</p> <p>the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.</p> <p>Note: An application to transfer a licence must be made in the approved form for this purpose.</p>	Not triggered		<p>The licence was transferred to Richmond Quarry (GSQ Holdings Pty Ltd) on the 4/08/2018.</p> <p>The transitional Annual Return for the period 10/04/2018 – 3/08/2018 and was submitted to EPA on 02 October 2018.</p>
R1.4	<p>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:</p> <ul style="list-style-type: none"> • in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or <p>b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.</p>	Not triggered		The licence has not been surrendered.

Number	Condition	Compliance	Evidence	Comments
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').	Compliant	EPA website	Based on the EPA website, the Annual Return has been received by the EPA within the 60 days of the reporting period.
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	Compliant	Annual Returns	Annual returns were provided for the audit period.
R1.7	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: <ul style="list-style-type: none"> the licence holder; or by a person approved in writing by the EPA to sign on behalf of the licence holder. 	Compliant	Annual Returns	The Annual Returns have been signed by the licence holder.
R2	R2 Notification of environmental harm			
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555. 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.	Not triggered	Nil.	GSQ reported that there have been no known incident causing or threatening material harm to the environment, so notification has not been required.
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		Refer to Condition R2.1
R3	Written report			
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: <ul style="list-style-type: none"> where this licence applies to premises, an event has occurred at the premises; or 	Not triggered		GSQ advise no such written report has been requested by EPA.

Number	Condition	Compliance	Evidence	Comments
	<ul style="list-style-type: none"> 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, <p>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.</p>			
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.			
R3.3	<p>The request may require a report which includes any or all of the following information:</p> <ul style="list-style-type: none"> the cause, time and duration of the event; the type, volume and concentration of every pollutant discharged as a result of the event; 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; 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; action taken by the licensee in relation to the event, including any follow-up contact with any complainants; details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and 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.			

Table B-6 Compliance with EPL – General conditions

Number	Condition	Compliance	Evidence	Comments
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	EPL	A copy of the EPL was available at the RQ site office for review.
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Not triggered		GSQ advise no such request has been made by EPA.
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Compliant	EPL	A copy of the EPL was available at the RQ site office for review.

Appendix C – Consultation with agencies

Ben Luffman

From: Craig Dunk <Craig.Dunk@planning.nsw.gov.au>
Sent: Friday, 21 September 2018 8:14 AM
To: Ben Luffman
Cc: Shelley McPhee; Janelle Bancroft
Subject: Champions - Richmond Quarry (PA 09_0080, As modified)

OperatingCentre: 22
JobNo: 19645
CompleteRepository: 2219645
RepoEmail: 2219645@ghd.com
Description: Richmond Quarry Audit
RepoType: Job

Hi Ben,

As discussed on the telephone yesterday and noted in your email below, the key issues identified by the Department during a recent inspection and meeting at the quarry; and which should be included in the scope of the Independent Environmental Audit are as follows:

- The latest response to the 2017 AEMR;
- The relocation of monitoring sites;
- Extraction outside of the approved extraction boundary;
- Compliance with requirements in the Koala offset area;
- Compliance and procedures/processes for truck monitoring and reporting;
- Adequacy of ERSED plans and the implementation and management of these on site;
- Compliance with Noise monitoring conditions and the adequacy of mitigation provided with the location of noise bund E; and
- Compliance with regard to the size of basins.

As required by the approval, you must consult with relevant agencies during the audit.

Condition 9 of Schedule 5 requires that "Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report, including a timetable for the implementation of any measures proposed to address the recommendations in the report".

For transparency we interpret that the 'commencement of the audit' is the first day of the audit inspection.

Please give me a call if you would like to discuss further any aspects of the audit or the matters raised in the points above.

Regards

Craig Dunk
Senior Compliance Officer
Department of Planning & Environment
Level 1, 135 Murwillumbah Street
PO Box 72
Murwillumbah NSW 2484
<http://www.planning.nsw.gov.au>
E: craig.dunk@planning.nsw.gov.au
compliance@planning.nsw.gov.au
M: 0427 237 154
P: 02 6670 8660



Office of Environment & Heritage

Our Ref: DOC18/813978-1

Your Ref: SSD 09_0080

Mr Ben Luffman
Senior Environmental Consultant GHD
230 Harbour Drive
Coffs Harbour NSW 2450

Dear Mr Luffman

**Re: Independent Environmental Audit for the Richmond / Champions Quarry, No. 1586
Wyrallah Road, Tuckurimba (SSD 09_0080)**

Thank you for your email dated 25 October 2018 about the Independent Environmental Audit for the Richmond / Champions Quarry at No. 1586 Wyrallah Road, Tuckurimba (SSD 09_0080) seeking comments from the Office of Environment and Heritage (OEH). I appreciate the opportunity to provide input.

The OEH has statutory responsibilities relating to biodiversity (including threatened species, populations, ecological communities, or their habitats), Aboriginal and historic heritage, National Parks and Wildlife Service estate, flooding and estuary management.

The Annual Review Report 2017 refers to an Independent Environmental Audit that was carried out in 2015. This document was not able to be accessed on the Richmond Quarry website however Annexure J of the Annual Review Report 2017 contains the responses to the recommendations of the audit. There are no references in this to issues that the OEH has an interest in such as Aboriginal heritage and biodiversity. Therefore, the OEH is not able to comment on any previous audit activity or findings in relation to these issues.

The Independent Environmental Audit is required to assess the environmental performance of the project and whether it is complying with the relevant requirements in the approval. The OEH recommends the Independent Environmental Audit consider how the following consent conditions have been addressed:

Condition 36. Heritage Management Plan

How has the Heritage Management Plan been implemented including ensuring ongoing consultation with Aboriginal stakeholders in the conservation and management of any Aboriginal cultural heritage values on site.

Condition 37. Setback From Dry Rainforest/Lowland Rainforest EEC

How has the setback from the edge of the Southern Extraction Area to the Dry Rainforest/Lowland Rainforest EEC been maintained.

Condition 38. Tuckean Swamp & Wetland

How has the Proponent ensured that the project has not greater than negligible environmental consequences on the Tuckean Swamp and associated wetland.

Condition 39. Koalas

How has the Proponent ensured that the project has negligible environmental consequences for the local Koala population.

Condition 40. Biodiversity Offset Strategy

How has the Proponent implemented the Biodiversity Offset Strategy.

Condition 45. Landscape Management Plan 45.

How has the Proponent implemented the Landscape Management Plan including the progressive rehabilitation of the quarry. This should include addressing the targets and measures in Table 9.2 – *Rehabilitation Objectives and Performance Indicators* and Table 10.1 – *Short, Medium and Long Term Measures of the Landscape Management Plan*. It should also consider how the requirement for planting of koala feed and habitat trees has been addressed.

If you have any further questions about this issue, Ms Rachel Lonie, Senior Conservation Planning Officer, Conservation and Regional Delivery, OEH, can be contacted on 6650 7130 or at rachel.lonie@environment.nsw.gov.au.

Yours sincerely

 7 November 2018.

NICKY OWNER

**A/Senior Team Leader Planning, North East Branch
Conservation and Regional Delivery**

Contact officer: RACHEL LONIE
6650 7130

Our ref OUT18/16023

Ben Luffman
Senior Environmental Consultant
GHD
230 Harbour Drive
Coffs Harbour, NSW 2450

via email: ben.luffman@ghd.com

Dear Mr Luffman

RE: Richmond/Champions Quarry – Independent Environmental Audit

Thank you for the opportunity to comment on the planned independent environmental audit of the Richmond Quarry – formerly known as Champions Quarry.

The Natural Resources Access Regulator (NRAR) understands that the scope of the assessment as outlined under the development consent extends at least to:

- The environmental performance of the development;
- Compliance with the conditions of consent;
- The adequacy of strategies, plans or programs required under the consent;
- Recommendations for appropriate measures to improve the environmental performance of the development

NRAR requests that the audit considers compliance with the relevant water licensing requirements for the quarry operation, specifically:

- Assessment as to whether the project holds the required water entitlements and licences under the *Water Management Act 2000* or *Water Act 1912* (as applicable);
- Compliance with the conditions of any water licences/approvals held;
- Identification of all water storages for the quarry and identification of their licensing status being either exempt, subject to harvestable rights or regulated via a Water Access Licence.
- Quantification of both active and passive take by the project from each relevant water source and a comparison against previously modelled predictions.

The following additional requirements related to protection of water sources should also be considered in the audit:

- Compliance against performance measures within the consent related to water sources, including the Guidelines for Controlled Activities on Waterfront Land and design and installation of creek crossings, management of clean water diversions and

sediment dams, stream diversion performance measures and aquatic and riparian ecosystem performance measures

- Compliance with the requirements of the Water Management Plan

I trust this information is of assistance. Please contact Anisul Afsar, Water Regulation Officer (Parramatta) on (02) 8838 7561 or anisul.afsar@nrar.nsw.gov.au if you have further enquiries regarding this matter.

Yours sincerely

A handwritten signature in black ink, appearing to read 'R Shepherd', with a stylized flourish at the end.

Ryan Shepherd
A/Regional Manager, Water Regulation (East)
Natural Resources Access Regulator
Department of Industry – Lands and Water Division

Date: 17 October 2018

Ben Luffman

From: Matt Kelly <Matt.Kelly@lismore.nsw.gov.au>
Sent: Friday, 28 September 2018 4:22 PM
To: Ben Luffman
Subject: RE: Richmond Quarry

OperatingCentre: 22
JobNo: 19645
CompleteRepository: 2219645
RepoEmail: 2219645@ghd.com
Description: Richmond Quarry Audit
RepoType: Job

Hi Ben,

I had the opportunity to discuss the Independent Audit at the recent Community Consultative Meeting. Planning NSW advised that they have had discussions with you and advised on the reporting format/expectations. I understand that a site inspection was undertaken yesterday 27th September 2018.

Council has no specific issues/matters that it wishes to be considered as part of the independent audit activity.

Thanks

Matt Kelly | Coordinator Compliance | **Lismore City Council**

PO Box 23A, Lismore, 2480 | T 1300 878387 | F 02 6625 0434 | M 0427774146 | www.lismore.nsw.gov.au

Lismore City Council acknowledges the people of the Bundjalung Nation, traditional custodians of the land on which we work.

From: Ben Luffman [mailto:Ben.Luffman@ghd.com]
Sent: Thursday, 20 September 2018 3:00 PM
To: Matt Kelly <Matt.Kelly@lismore.nsw.gov.au>
Subject: Richmond Quarry

Hi Matt,

As discussed, I am doing the Independent Environmental Audit at Richmond Quarry. As part of this process, we are contacting the relevant agencies to determine if there are any existing environmental/compliance issues that we need to consider during the audit.

It would be appreciated if you could respond to this email with any issues Council would like us to consider during the audit. Likewise, if there are no issues, it would be appreciated if Council could confirm via reply email.

Please note, I will be on site on 27 September 2018, so it would be appreciated if I could get a reply before this date – apologies for the late notice.

Regards

Ben Luffman | A GHD Associate

B App Sc (Hons) | Grad Dip Urban and Regional Planning
Senior Environmental Consultant

GHD

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T: +61 2 6650 5613 | M: +61 415 271 319 | E: ben.luffman@ghd.com
230 Harbour Drive, Coffs Harbour, NSW, 2450 | www.ghd.com

Ben Luffman

From: rebecca.johnson@crowland.nsw.gov.au on behalf of Lands Ministerials
<lands.ministerials@industry.nsw.gov.au>
Sent: Thursday, 27 September 2018 1:35 PM
To: Ben Luffman
Cc: Landuse Enquiries; Kirstyn Goulding; Kim Fitzpatrick
Subject: Re: Champions/Richmond Quarry - SSD 09_0080

OperatingCentre: 22
JobNo: 19645
CompleteRepository: 2219645
RepoEmail: 2219645@ghd.com
Description: Richmond Quarry Audit
RepoType: Job

Good afternoon,
There is no Crown land associated with the Richmond Quarry project.

Kind regards

Lands Ministerial Unit
NSW Department of Industry - Crown Lands
Level 4, 437 Hunter Street, NEWCASTLE NSW 2300
E: lands.ministerials@industry.nsw.gov.au W: www.industry.nsw.gov.au

Please contact Kirstyn Goulding on (02) 4920 5058 for any inquiries



On Tue, Sep 25, 2018 at 10:24 AM Landuse Enquiries <landuse.enquiries@dpi.nsw.gov.au> wrote:
Hi all,

Please respond directly to Ben Luffman regarding the below email.

Regards,

Alistair

----- Forwarded message -----

From: Ben Luffman <Ben.Luffman@ghd.com>
Date: Thu, 20 Sep 2018 at 15:41
Subject: Champions/Richmond Quarry - SSD 09_0080
To: landuse.enquiries@dpi.nsw.gov.au <landuse.enquiries@dpi.nsw.gov.au>

Hi,

Ben Luffman

From: Jonathan Yantsch <jonathan.yantsch@dpi.nsw.gov.au>
Sent: Wednesday, 26 September 2018 3:13 PM
To: Ben Luffman
Subject: Re: FW: Champions/Richmond Quarry - SSD 09_0080

OperatingCentre: 22
JobNo: 19645
CompleteRepository: 2219645
RepoEmail: 2219645@ghd.com
Description: Richmond Quarry Audit
RepoType: Job

Hi Ben

DPI Fisheries has no current compliance or environmental issues with the quarry.

Regards

Jonathan

Jonathan Yantsch | Fisheries Manager, Coastal Systems (North Coast)
Aquatic Environment | Primary Industries NSW
T 02 6626 1375 | M 0447 537 168 | E jonathan.yantsch@dpi.nsw.gov.au
W www.industry.nsw.gov.au | www.dpi.nsw.gov.au
Postal Address 1243 Bruxner Hwy, WOLLONGBAR NSW 2477

PERMIT APPLICATION FORMS & FISH HABITAT POLICIES:
www.dpi.nsw.gov.au/fishing/habitat/protecting-habitats/toolkit
Submit permit applications via email to ahp.central@dpi.nsw.gov.au
NB: From date of receipt of application, please allow:
- 28 days for Permits, Consultations and Land Owner's Consent responses
- 40 days for Integrated Development Applications

KNOWN & EXPECTED DISTRIBUTION OF THREATENED FISH SPECIES:
www.dpi.nsw.gov.au/fishing/threatened-species/threatened-species-list/threatened-species-distributions-in-nsw

On Tue, Sep 25, 2018 at 12:37 PM <ahp.central@dpi.nsw.gov.au> wrote:

From: alistair.drew@industry.nsw.gov.au [mailto:alistair.drew@industry.nsw.gov.au] **On Behalf Of** Landuse Enquiries
Sent: Tuesday, 25 September 2018 10:24 AM
To: AHP Central; Water Referrals; Lands Ministerials; Landuse Ag
Subject: Fwd: Champions/Richmond Quarry - SSD 09_0080

Hi all,

Please respond directly to Ben Luffman regarding the below email.

Ben Luffman

From: John Galea <john.galea@dpi.nsw.gov.au>
Sent: Tuesday, 25 September 2018 4:15 PM
To: Ben Luffman
Cc: Landuse Ag
Subject: RE: Champions/Richmond Quarry - SSD 09_0080

OperatingCentre: 22
JobNo: 19645
CompleteRepository: 2219645
RepoEmail: 2219645@ghd.com
Description: Richmond Quarry Audit
RepoType: Job

Hi Ben,

I found the site and the previous advice DPI Agriculture passed on and the advice now will be the same. There are no specific operational issues relating to agriculture that require additional attention other than the usual amenity impacts (e.g. air quality, noise etc.) and the restriction of stock to the site during the operational phase of the project.

If you have any other issues, please contact me.

Regards
John
J.G.

John Galea

Agriculture Land Use Planning Officer
DPI Agriculture | Agriculture Land Use Planning

NSW Department of Primary Industries
Level 12 | 10 Valentine Avenue | Parramatta NSW
<https://maps.google.com/?q=Level+12+%7C+10+Valentine+Avenue+%7C+Parramatta+NSW&entry=gmail&source=g>
2124
T: +61 427 647 642 | +61 8838 7520
E DPI: landuse.enquiries@dpi.nsw.gov.au
W: www.industry.nsw.gov.au
Agriculture Land Use Planning information and guidelines are available at:
<http://www.dpi.nsw.gov.au/agriculture/lup>
<<http://www.dpi.nsw.gov.au/agriculture/resources/lup>>

Plan, Resource, Grow
Building thriving, sustainable Agriculture for tomorrow's communities

From: carolyn.hendry@dpi.nsw.gov.au [mailto:carolyn.hendry@dpi.nsw.gov.au] **On Behalf Of** Landuse Ag
Sent: Tuesday, 25 September 2018 3:07 PM
To: John Galea
Cc: Landuse Ag
Subject: Fwd: Champions/Richmond Quarry - SSD 09_0080

Hi John

Ben Luffman

From: Ben Luffman
Sent: Thursday, 20 September 2018 3:40 PM
To: Janelle.Bancroft@epa.nsw.gov.au
Subject: Champions/Richmond Quarry

CompleteRepository: 2219645
Description: Richmond Quarry Audit
JobNo: 19645
OperatingCentre: 22
RepoEmail: 2219645@ghd.com
RepoType: Job

Hi Janelle,

As discussed, we are doing the Independent Environmental Audit at Richmond Quarry – formerly Champions Quarry. As part of this process, we are contacting the relevant agencies to determine if there are any existing environmental/compliance issues that we need to consider during the audit.

Based on our discussion, EPA have suggested the scope should include a review of:

- ERSED
- Flocculant

Please confirm if the above is accurate or if there are any other issues we should consider during the audit.

Please note, I will be on site on 27 September 2018, so it would be appreciated if I could get a reply before this date – apologies for the late notice.

Regards

Ben Luffman | A GHD Associate

B App Sc (Hons) | Grad Dip Urban and Regional Planning
Senior Environmental Consultant

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Ben Luffman

From: WADE Katrina L <Katrina.WADE@rms.nsw.gov.au>
Sent: Friday, 16 November 2018 8:54 AM
To: Ben Luffman
Subject: RE: Champions/Richmond Quarry - SSD 09_0080

CompleteRepository: 2219645
Description: Richmond Quarry Audit
JobNo: 19645
OperatingCentre: 22
RepoEmail: 2219645@ghd.com
RepoType: Job

Good Morning Ben,

Thank you for the opportunity to provide input for the current Independent Environmental Audit (as specified in Schedule 5, Conditions 9 and 10 of Project Approval 09_0080).

Roads and Maritime Services has reviewed the project approval and found that Condition 23(b) required construction of a left-turn lane for northbound traffic at the junction of Wyrallah Road and Wyrallah Ferry Road, however it is unclear if this upgrade has been undertaken. It may be appropriate to consider this matter as part of your audit.

Additional review was undertaken of the Transport Management Plan. It is suggested that consideration be given to the preparation of a Code of Conduct for haulage operators that includes, but is not limited to, the following;

- A map of the primary haulage routes highlighting critical locations.
- Safety initiatives for haulage through residential areas, school zones and along school bus routes.
- An induction process for vehicle operators and regular toolbox meetings.
- A complaint resolution and disciplinary procedure.
- Any community consultation measures for peak haulage periods.

If you have any questions, please contact our team.

Regards,

Katrina Wade
Development Assessment Officer | Network & Safety Management
Northern Region | Regional & Freight
T 02 6640 1362 E development.northern@rms.nsw.gov.au
www.rms.nsw.gov.au
Every journey matters

Roads and Maritime Services
Level 1, 76 Victoria Street
Grafton NSW 2460

From: Ben Luffman [mailto:Ben.Luffman@ghd.com]
Sent: Thursday, 25 October 2018 10:00 AM

To: Development Northern
Subject: Champions/Richmond Quarry - SSD 09_0080

Hi,

GHD has been engaged to do the Independent Environmental Audit at Richmond Quarry – formerly Champions Quarry, 1586 Wyrallah Road, Tuckurimba. As part of this process, we are contacting the relevant agencies to determine if there are any existing environmental/compliance issues that we need to consider during the audit.

It would be appreciated if you could respond to this email with any issues RMS would like us to consider during the audit. Likewise, if there are no issues, it would be appreciated if RMS could confirm via reply email.

Regards

Ben Luffman | A GHD Associate
B App Sc (Hons) | Grad Dip Urban and Regional Planning
Senior Environmental Consultant

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230 Harbour Drive

Coffs Harbour NSW 2450



T: 61 2 6650 5600 F: 61 2 6650 5601 E: cfsmail@ghd.com

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IEA_Final.docx

Document Status

Revision	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	B Luffman	D Scott		S Lower		18/12/2018

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