

JM Environments
0427 893 668
37 Tooke St
COOKS HILL NSW 2300
ABN 67 166 341 288



Grants Road Quarry

Environmental Audit

2018

Prepared by

A handwritten signature in black ink that reads 'James McMahon'.

James McMahon, PhD (Chem)

Principal Environmental Scientist

Appendix C – Independent Audit Declaration Form Template

Independent Audit Declaration Form

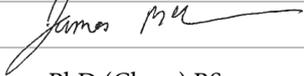
Project Name	Grants Road Sand Quarry Extension
Consent Number	08_0099
Description of Project	the extraction, processing and transporting by road of up to 250,000 tonnes of extractive material a year for a period of 30 years totaling 7,500,000 tonnes of sand product.
Project Address	270 Grants Road Somersby
Proponent	GR and AK Jones
Title of Audit	Grants Road Quarry Environmental Audit 2018
Date	31/10/2018

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

- the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Post Approval Requirements (Department 2018)*;
- the findings of the audit are reported truthfully, accurately and completely;
- I have exercised due diligence and professional judgement in conducting the audit;
- I have acted professionally, objectively and in an unbiased manner;
- I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child;
- neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Notes:

- Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and
- The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both)

Name of Auditor	James McMahan
Signature	
Qualification	PhD (Chem) BSc
Company	JM Environments
Company Address	37 Tooke St Cooks Hill NSW 2300

JME18102 Grants Road Quarry
Environmental Audit

Revision	Details	Date	Amended By	Issued To
0	Draft	29/10/2018	JMc	LJ
1	Final	31/10/2018	JMc	LJ

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EXECUTIVE SUMMARY

Grants Road Quarry Pty Ltd (Grants Road Quarry, the audit client) commissioned JM Environments to conduct an independent environmental compliance audit (the audit) of the Grants Road Quarry Extension.

The audit was undertaken for Grants Road Quarry to fulfil its statutory obligations under Schedule 5 Item 5 of the Project Approval issued by the Department of Planning for the Grants Road Quarry Extension.

The audit was undertaken in accordance with ISO 19011:2011 Guidelines for auditing management systems and the NSW Department of Planning Independent Audit-Post Approval Requirements – June 2018. Based on the evidence reviewed in this audit it is considered that the quarry is not significantly impacting the surrounding environment.

It is the Auditors opinion that the operators of Grants Road Sand Quarry are carrying out the project generally in accordance with the:

- EA;
- EA (MOD 1); and
- Statement of Commitments.

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1 INTRODUCTION

Grants Road Quarry Pty Ltd (Grants Road Quarry, the audit client) commissioned JM Environments to conduct an independent environmental compliance audit (the audit) of the Grants Road Quarry Extension.

The audit was undertaken for Grants Road Quarry to fulfil its statutory obligations under Schedule 5 Item 5 of the Project Approval issued by the Department of Planning for the Grants Road Quarry Extension.

The audit was undertaken in accordance with ISO 19011:2011 Guidelines for auditing management systems and the NSW Department of Planning Independent Audit-Post Approval Requirements – June 2018.

1.1 Grants Road Quarry

The Grants Road Quarry (the quarry) has operated from September 2000. It was operating under Deferred Development Consent DA 22952/1998 (5 July 2000), issued by Gosford City Council and was amended 19 December 2006. The existing reserves of sand and sandstone under DA22952/1998 were considered to be diminishing and Grants Road Quarry proposed to extend the quarry footprint from 2 hectares to 20 hectares. Peter Andrew and Associates Pty Ltd (PAA) prepared *Grants Road Sand Quarry Extension-Environmental Assessment Project Application No 08_0099* (April 2013) (the EA). The approval was granted by the Department of Planning for the quarry extension on 25 July 2014 and the quarry has been operating under this approval from December 2015.

2 AUDIT OBJECTIVES AND SCOPE

The audit objectives were to:

- assess the environmental performance of the project, and its effects on the surrounding environment;
- assess whether the project is complying with the relevant standards, performance measures, and statutory requirements;
- review the adequacy of any strategy/plan/program required under this approval; and, if necessary;
- recommend measures or actions to improve the environmental performance of the project, and/or any strategy/plan/program required under this approval.

The audit scope was to:

- review the Environmental Assessment (EA);
- review the Statement of Commitments (SoC);
- review the Conditions of Approval CA;
- review the 2015 Independent Environmental Audit report;
- prepare an audit document review checklist based on the conditions of the EA, SoC and CA;
- review supplied documents;
- conduct a site visit;

- interview available Grants Road Quarry staff; and
- prepare this Audit Report.

3 THE AUDIT TEAM

The audit team consisted of:-

Lead Auditor: James McMahon PhD, BSc, Certificate of Competency in Environmental Auditing (RABQSA-AU, TL and EM). Dr McMahon was the main point of contact for the audit client during all phases of the audit. He was responsible for

- developing the auditing protocols and checklists,
- conducting audit interviews;;
- reviewing of the existing consent and associated documents including the applicable management plans that form part of the consent and/or operating requirements for the quarry;
- evaluating compliance of the current quarry and its operations with the conditions of consent and the management plans and prepare an audit report detailing the state of compliance identifying any non-compliances or outstanding uncompleted works with respect to air and water quality impacts by the quarry's operation.; and
- writing this audit report;

The auditor's appointment was endorsed by the Department of Planning. A copy of the endorsement can be found in Appendix A.

4 THE AUDIT PROCESS

4.1 Audit Schedule

Schedule 5 Item 5 of the Project Approval issued by the Department of Planning for the Grants Road Quarry Extension required by 30 June 2015 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.

4.2 Audit Table

An audit table was prepared as part of the audit activities. The completed audit checklist is presented in Appendix B. The completed audit checklist includes the audit criteria, audit findings, audit log reference, compliance/non-compliance, site observations (if noted) and corrective actions (if required).

4.3 Audit Opening Meeting

An opening meeting was held at Grants Road Somersby, on 17 October 2018. The purpose of the meeting was to introduce the auditor to the auditee's representatives and observers, discuss the legal obligations of the audit process, gain acceptance the audit plan by the parties involved and discuss the date and how the site visit will be conducted.

The auditor (Dr McMahon), the auditee representatives (Steve Jones (Quarry Manager), Leanne Jones (Director)) were present at the opening meeting.

A copy of the opening meeting agenda can be found in Appendix C.

4.4 Audit Documents

A log of the audit documents that were requested and reviewed throughout the audit process is presented in Appendix D.

4.5 Site Visit

A site visit was conducted by the auditor, the auditee's representatives a on 17 October 2018. The purpose of the site visit was to view the current site layout, make a visual assessment of audit criteria and review site documentation. A copy of selected site photographs is presented in Appendix E. Site observations are listed in the audit checklist in Appendix F.

5 CONSULTATION WITH RELEVANT AGENCIES

A form email was sent to the contacts from the relevant agencies who were involved in the consultation process during the preparation of the specialist reports for the EA. Due to staff turn over and relatively short turnaround of the audit the relevant contacts have not been able to sourced. An addendum letter will be provided once the relevant contacts have been located.

6 2015 INDEPENDENT ENVIRONMENTAL AUDIT

JME undertook an Independent Environmental Audit of the quarry in 2015. The 2015 audit was undertaken when the quarry was operating under its Gosford City Council development approval. As such, many of the requirements of the current approval were not triggered.

The 2015 audit found that the quarry was significantly impacting on the surrounding environment. In 2105, the Environmental Management Plan (and sub-plans) (the EMP) that was reviewed by JME was largely in draft form at the time of the audit as the auditee was waiting for comments from the relevant agencies. The audit revealed some minor non-compliance against the requirements of the consent. The auditor recommends that these items are addressed after comments on the draft reports are received from the Department. However, the non-inclusion of Total Suspended Particles (TSP) and deposited dust monitoring in the AMQP is considered a significant non-conformance and should addressed in the AQMP and implemented as soon as practicable. This non-conformance has been addressed in the current version of the EMP.

7 2018 AUDIT FINDINGS

7.1 Adequacy of Strategies, Plans or Programs

The following strategies, plans and programs the quarry is required to implement were reviewed by the auditor for adequacy.

- Environmental Plan of Management-May 2016;

- Groundwater Management Plan;
- Surface Water Management Plan;
- Noise Management Plan;
- Air Quality Management Plan;
- Traffic Management; and
- Landscape and Rehabilitation Management Plan.

The auditor considers the above plans adequate for purpose of monitoring the environmental performance of the quarry. However, the auditor also recognises that some additional information is required to be included in some of the plans next revision or sooner if practical.

7.1.1 Groundwater Management Plan

Section 4.4.3 Proposed Water Quality Monitoring does not adequately describe how to collect the sample from the well. The Groundwater Management Plan does not describe how to purge the well prior to sampling in order to gain representative groundwater samples from the monitoring wells. The auditor considers these items need to be described if the monitoring wells are not being sampled by a suitably qualified consultant.

7.1.2 Air Quality Management Plan

The Air Quality Management Plan does contain guidance for the quarry to operate (or not) during adverse weather conditions.

7.2 Environmental Performance of the Project

An Audit summary is presented in Table 7.1. Four hundred and two conditions (including sub clauses) were reviewed during the audit. It was assessed that one hundred & forty four conditions were either not triggered or not able to be assessed due to the quarry extension not being commenced and hence compliance was not assessed at the time of the audit.

It was considered that Grants Road Quarry has complied with two hundred and forty-four conditions and not complied with fifteen conditions resulting in eight corrective actions/recommendations.

Table 7.1 Audit Summary Table

Type of Condition	Number of Conditions	Conditions complied with	Conditions not complied with	Conditions not triggered/assessed	Corrective Actions
Administrative	22	11	3	8	1
Noise and Vibration	13	13	0	0	0
Air Quality	17	14	3	0	2
Biodiversity	17	14	0	3	0
Soil and Water Quality	26	19	3	7	1
Meteorological Monitoring	1	1	0	0	0
Transport	19	19	0	0	0
Landscape	34	0	0	8	0
Visual Impact	3	3	0	0	0
Heritage	11	11	0	0	0
Waste Management	5	5	0	0	0
Dangerous Goods	1	1	0	0	0
Bushfire	2	2	0	0	0
Notification of Landowners	2	0	0	2	0
Independent review	5	0	0	5	0
Environmental Management	122	118	0	4	0
Reporting & Auditing	9	7	2	0	3
Access to Information	10	10	0	0	0
Statement of Commitments	72	43	6	13	2
Noise Compliance Assessment	10	10	0	0	0

A summary of the corrective actions are presented in Table 7.2

Table 7.2 Corrective Action and Recommendation Summary

Type of Condition	Condition	Corrective Action
Administration /Statement of Commitments	Schedule 2 13a,13b and SOC 10	Maintenance logs required to be used to document upkeep of plant and equipment.
Reporting & Auditing	Schedule 5, 9	2021 Audit to be submitted by June 30.
	Schedule 5, 9c	EPL11240 to be updated to allow for 250,00tonnes/annum extraction.
	Schedule 5, 9c	Groundwater field parameters to be recorded and stabilised prior to sampling.
Groundwater	Schedule 5, 9c	Update Section 4.4.3 Proposed Water Quality Monitoring to adequately describe how to collect the sample from a well. The Groundwater Management Plan does not describe how to purge the well prior to sampling in order to gain representative groundwater samples from the monitoring wells. The auditor considers these items need to be described if the monitoring wells are not being sampled by a suitably qualified consultant.
	SOC 7	Provide annual groundwater results for review by a Senior Hydrogeologist (NOW).
Air	Schedule 3, 11f	Six-day monitoring cycle of PM ₁₀ dust not adhered to. Review maintenance schedule to ensure the HVAS is operational at a more frequent level.
	Schedule 3, 11c and 12 b dot point 3	Update AMQP to include protocols for adverse meteorological conditions and extraordinary events.
	SOC 11	Carry out campaign monitoring for respirable crystalline silica as soon as practicable.

8 CONCLUSION

Based on the evidence reviewed in this audit it is considered that the quarry is not significantly impacting the surrounding environment.

It is the Auditors opinion that the operators of Grants Road Sand Quarry are carrying out the project generally in accordance with the:

- EA;
- EA (MOD 1); and
- Statement of Commitments.

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Appendix A

Contact: Alfarid Hussain
Phone: (02) 9474 6456
Email: compliance@planning.nsw.gov.au

Mr Steven Jones
Quarry Manager, Grants Road Sand Quarry
270 Grants Road
SOMERSBY NSW 2250

11 October 2018

Dear Mr Jones

Grants Road Sand Quarry – Independent Environmental Audit Report

Reference is made to the letter dated 8 October 2018 from Peter Andrews + Associates Pty Ltd on behalf of GR and AK Jones (**Jones**) seeking approval of Mr James McMahon, Principal Environmental Scientist, JM Environments, to undertake an Independent Environmental Audit Report (**IEA**) required under Schedule 5, Condition 9 of MP 08_0099, as modified (**Approval**).

Approval is granted having considered the qualifications and experience of Mr McMahon. This approval is conditional upon the auditors' independence from the project.¹

In preparing the IEA, you should ensure the audit:

- is conducted in accordance with AS/NZS ISO 19011 Australian/New Zealand Standard: Guidelines for quality and/or environmental management systems auditing and the Department's Independent Audit Post Approval Requirements (**IAPAR**), dated June 2018, available at <https://www.planning.nsw.gov.au/~media/Files/DPE/Other/independent-audit-post-approval-requirements-2018-06.ashx>;
- include compliance tables as an attachment to the main report indicating the compliance status of each condition of the approval (and any other statutory instrument required to be audited). This table should be consistent with *Appendix A- Independent Audit Table Example* of the IAPAR;
- avoids terms such as "partial compliance". An audit is to make findings of either "compliance" or "non-compliance";
- includes recommended actions in response to non-compliances; and
- identifies opportunities for improved environmental management and performance.

Finally, the Department requests that you:

- review the IEA report to ensure it complies with the relevant conditions of consent, prior to submitting the report to the Secretary; and
- submit an action plan with the audit report(s) detailing your response to the auditor's recommendations and timeframes to implement any adopted recommendations.

Should you have any further enquiries about this matter, please contact Alfarid Hussain on (02) 9274 6456 or compliance@planning.nsw.gov.au.

¹ Please note that auditors must declare any actual, potential or perceived conflicts of interest. Please refer to the Department's Independent Audit Post Approval Requirements linked in the body of this letter.

Yours sincerely



Chris Mathieson
Team Leader – Compliance (Metro)
As a nominee of the Secretary

CC: Vanessa Colclough, Managing Director, Peter Andrews + Associates Pty Ltd

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Appendix B

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
2	1	OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT		In addition to meeting the specific performance criteria established under this approval, the Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the project.		Noted	
2	2	TERMS OF APPROVAL		The Proponent shall carry out the project generally in accordance with the: (a) EA; (b) Statement of Commitments; and (c) conditions of this approval.		Compliant	
2	3	TERMS OF APPROVAL		If there is any inconsistency between the above documents, the more recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.		Noted	
2	4	TERMS OF APPROVAL		The Proponent shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this approval; (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this approval; and (c) the implementation of any actions or measures contained in these documents.		noted	
2	5	LAPSING OF APPROVAL		If the project has not been physically commenced within 5 years of the date of this approval, then this project approval shall lapse.		Quarrying has commenced	
	6	LIMITS ON APPROVAL	Quarrying Operations	The Proponent may carry out quarrying operations on the site until 30 June 2044		noted	
	7	LIMITS ON APPROVAL	Production Limit	The Proponent shall not extract process and transport more than 250,000 tonnes of quarry products from the site in any calendar year.	44	Compliant July 2014 to June 2015 30,557tonnes July2015-June2016 59,094 tonnes January -Dec 2017 124,236 tonnes	
	8	SURRENDER OF EXISTING DEVELOPMENT CONSENT		By the end of December 2015, or as otherwise agreed by the Secretary, the Proponent shall surrender all existing development consents that it holds for the site in accordance with Section 104A of the EP&A Act	copy sited	Non compliant Surrendered 2 June 2017. No evidence as agreed by the Secretary for extension	no further action required
	9	SURRENDER OF EXISTING DEVELOPMENT CONSENT		Prior to the surrender of this development consent, the conditions of this approval shall prevail to the extent of any inconsistency with the conditions of that consent.		noted	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
	10	STRUCTURAL ADEQUACY		The Proponent shall ensure that all 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.		Compliant	no new buildings
	10	Notes		the Proponent is required to obtain construction and occupation certificates for the proposed building works;		Compliant	no new buildings
	11	DEMOLITION		The Proponent shall ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.		Compliant	No recent demolition
	12a	PROTECTION OF PUBLIC INFRASTRUCTURE		repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and	47+new	Compliant	MYOB sighted documents
	12b	PROTECTION OF PUBLIC INFRASTRUCTURE		relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.		Telephone cabling replaced 10-15 years ago	
	13a	OPERATION OF PLANT AND EQUIPMENT		all the plant and equipment used at the site is: maintained in a proper and efficient condition; and	47	Documentation of plant maintenance is not complete	Manitenance logs to be maintained
	13b	OPERATION OF PLANT AND EQUIPMENT		all the plant and equipment used at the site is operated in a proper and efficient manner.	47	Plant and equipment regular maintenance registers not up to date.	Manitenance logs to be maintained
	14	UPDATING AND STAGING OF STRATEGIES, PLANS OR PROGRAMS		the Proponent may at any time submit revised strategies, plans or programs for the approval of the Secretary		Compliant	
	15a	PRODUCTION DATA		provide annual quarry production data to DRE using the standard form for that purpose	48	2016-2018 documents and acceptatnce DPI sighted. July 2014 to June 2015 30,557tonnes July2015-June2016 59,094 tonnes January -Dec 2017 124,236 tonnes	
	15b	PRODUCTION DATA		report this data in the Annual Review (see condition 4 of Schedule 5).		Data reported in 2015, 2016 and 2017 reports	
	16a	IDENTIFICATION OF APPROVED EXTRACTION LIMITS		By 30 September 2014 engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the entire site;		Survey pegs in place as sighted	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
	16b	IDENTIFICATION OF APPROVED EXTRACTION LIMITS		By 30 September 2014 submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary	3	Survey plan was provided	
	17	IDENTIFICATION OF APPROVED EXTRACTION LIMITS		While quarrying operations are being carried out, the Proponent shall ensure that these boundaries are clearly marked at all times in a manner that allows operating staff to clearly identify the approved limits of extraction		Survey pegs in place	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	Note	SOIL AND WATER	Note	the proponent is required to obtain the necessary water licences for the project, including in respect of the extraction and/or interception of groundwater		20AL205915 WAL17440 6 ML Stock / Domestic Specific Purpose 20AL205916 WAL17474 29 ML Unregulated River 20CA205917 Permits for supply works such as construction of contour drain, diversion works, installation of pumps etc.	
3	1	SOIL AND WATER	Water Supply	ensure that it has sufficient water for all stages of the project,	22	noted	
3	2 paragraph 1	SOIL AND WATER	Compensatory Water Supply	provide a compensatory water supply to any owner of a privately-owned groundwater bore where monitoring indicates that the project is causing (or contributing to, in conjunction with another quarry project) a reduction in pumping yield of more than 10%, or a 2 metre decline in the water table, in consultation with NOW, and to the satisfaction of the Secretary	22	not triggered	
3	2 paragraph 2	SOIL AND WATER	Compensatory Water Supply	The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the project. Equivalent water supply must be provided (at least on an interim basis) within 24 hours of the loss being identified.		not triggered	
3	2 paragraph 3	SOIL AND WATER	Compensatory Water Supply	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.		noted	
3	2 paragraph 4	SOIL AND WATER	Compensatory Water Supply	If the Proponent is unable to provide an alternative long-term supply of water, then the Proponent shall provide alternative compensation to the satisfaction of the Secretary.		noted	
3	3	SOIL AND WATER	Pollution of Waters	Unless an EPL authorises otherwise, the Proponent shall comply with section 120 of the POEO Act during the carrying out of the project		noted	
3	4	SOIL AND WATER	Water Management Plan	prepare and implement a Water Management Plan for the project	22	Complies	
3	4a	SOIL AND WATER	Water Management Plan	be prepared by suitably qualified person(s), approved by the Secretary	2, 22 and 49	Prepared by a suitably qualified person, Larry Cook. Request for approval sighted.	
3	4b	SOIL AND WATER	Water Management Plan	be prepared in consultation with NOW, and be submitted to the Secretary for approval by the end of November 2014;	49	Complies	
3	4c (i) dot point 1	SOIL AND WATER	Water Management Plan	include a: (i) Site Water Balance that includes: • details of: o sources and security of water supply; o water use and management on site; o any off-site water transfers; o reporting procedures	22	Complies	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	4c (i) dot point 2	SOIL AND WATER	Water Management Plan	Site Water Balance that includes: measures that would be implemented to minimise clean water use on site	22 and site visit	Complies	
3	4c (ii) dot point 1	SOIL AND WATER	Water Management Plan	Surface Water Management Plan that includes detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the project;	22	Complies	
3	4c (ii) dot point 2	SOIL AND WATER	Water Management Plan	SW Plan includes a detailed description of the water management system on site, including the: o clean water diversion system; o erosion and sediment controls; o dirty water management system; and o water storages;	22	Complies	
3	4c (ii) dot point 3	SOIL AND WATER	Water Management Plan	a program to monitor and report on surface water flows and quality in water bodies that could potentially be affected by the project;	22	Complies	
3	4c (ii) dot point 3	SOIL AND WATER	Water Management Plan	SW Plan includes a comparison of monitoring results with modelled predictions	22	Complies	
3	4c (iii) dot point 1	SOIL AND WATER	Water Management Plan	Groundwater Management Plan includes detailed baseline data on groundwater levels, yield and quality in local sandstone aquifers, privately-owned groundwater bores and in areas of high priority GDEs that could be affected by the project	22	Complies	
3	4c (iii) dot point 2	SOIL AND WATER	Water Management Plan	GW Plan includes groundwater impact assessment criteria for local sandstone aquifers, privately-owned bores and high priority GDEs;	22	Complies	
3	4c (iii) dot point 3	SOIL AND WATER	Water Management Plan	GW Plan includes a program to monitor and report on: o groundwater inflows to the quarrying operations; o the impacts of the project on: - local sandstone aquifers; - privately-owned groundwater bores; and - high priority GDEs, including provision for continuous groundwater monitoring	22	Complies	
3	4c (iii) dot point 4	SOIL AND WATER	Water Management Plan	GWMP includes a program to validate the groundwater model for the project, and comparison of monitoring results with modelled predictions	22	Complies	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	4c (iii) dot point 5	SOIL AND WATER	Water Management Plan	GW Plan includes a protocol, developed in consultation with Central Coast Sands Quarry, to appropriately apportion responsibility for any potential impacts to privately-owned groundwater bores and/or high priority GDEs that may be affected cumulatively by the project and operations at Central Coast Sands Quarry	22	Complies	
3	4c (iii) dot point 6	SOIL AND WATER	Water Management Plan	GWMP includes an investigation of opportunities to maintain ecosystem function in high priority GDEs to the west and northwest of the project through facilitating run-on of clean surface waters;	22	Complies	
3	4c (iv)	SOIL AND WATER	Water Management Plan	a Surface and Ground Water Contingency Strategy	22	Complies	
3	4c (iv) dot point 1	SOIL AND WATER	Water Management Plan	SW&GW Contingency strategy includes a protocol for the investigation, notification and mitigation of identified exceedances of the surface water and groundwater impact assessment criteria;	22	Although a SW&GWCP is not specifically included, the auditor considers these items are adequately addressed in the SWMP and GWMP	
3	4c (iv) dot point 2	SOIL AND WATER	Water Management Plan	SW&GW Contingency strategy includes measures to mitigate and/or compensate potentially affected landowners of privately-owned land, including provision of alternative long-term supply of water to the affected landowner that is equivalent to the loss attributed to the project	22	Although a SW&GWCP is not specifically included, the auditor considers these items are adequately addressed in the SWMP and GWMP	
3	4c (iv) dot point 3	SOIL AND WATER	Water Management Plan	SW&GW Contingency strategy includes the procedures that would be followed if any unforeseen impacts are detected during the project.	22	Complies	
3	5	NOISE	Hours of Operation	The Proponent shall only conduct construction activities and quarrying operations on the site: (a) between 7.00 am and 6.00 pm, Monday to Friday; (b) between 7.00 am and 1.00 pm, Saturday; and (c) at no time on Sunday or public holidays	21. Site signage is more stringent.	Complies	
3	6	NOISE	Hours of Operation	The following activities may be carried out on the site outside the hours specified in condition 5: (a) delivery or dispatch of materials as requested by Police or other authorities; and (b) emergency work to avoid the loss of lives, property and/or to prevent environmental harm. In such circumstances the Proponent shall notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter	Noted	Complies	
3	7	NOISE	Noise Impact Assessment Criteria7	the construction and operational noise generated by the project does not exceed the criteria in Table 1 at any residence on privately-owned land ($L_{Aeq(15min)}$ dB(A) 40. Table 1 do not apply if the Proponent has an agreement with the relevant landowner to exceed the noise criteria, and the Proponent has advised the Department in writing of the terms of the agreement.		No monitoring in 2015, Monitoring January 2016, Feb 2017, December 2017	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	8a	NOISE	Operating Conditions	implement best management practice to minimise the construction, operational and road noise of the project.	22		
3	8b	NOISE	Operating Conditions	regularly assess noise monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the noise criteria in this approval;	22	As no noise monitoring exceedances or complaints have been recorded by GRSQ the auditor assumes that this item has	
3	8c	NOISE	Operating Conditions	maintain the effectiveness of noise suppression equipment on plant and equipment on site;	22	As no noise monitoring exceedances or complaints have been recorded by GRSQ the auditor assumes that this item has been addressed.	
3	8d	NOISE	Operating Conditions	minimise the noise impacts of the project during meteorological conditions under which the noise limits in this approval do not apply (see Appendix 2);	22	Complies	
3	8e	NOISE	Operating Conditions	carry out regular noise monitoring to determine whether the project is complying with the relevant conditions of this approval,	22	Complies	
3	9	NOISE	Noise Management Plan	prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary.	22	Complies	
3	9a	NOISE	Noise Management Plan	NM Plan must be prepared in consultation with the EPA, and submitted to the Secretary for approval by the end of November 2014			
3	9b	NOISE	Noise Management Plan	NM Plan must describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> • compliance with the relevant conditions of this approval; • best management practice is being employed; and • the noise impacts of the project are minimised during meteorological conditions under which the noise criteria in this approval do not apply; 	22	Complies	
3	9c	NOISE	Noise Management Plan	NM Plan must describe the proposed noise management system	22	NMP has been updated to include a noise management system.	
3	9d	NOISE	Noise Management Plan	NM Plan must include a monitoring program that: <ul style="list-style-type: none"> • uses attended monitoring to evaluate the compliance of the project against the noise criteria in this approval; • evaluates and reports on the effectiveness of the noise management system and the best practice noise management measures; and • defines what constitutes a noise incident at the project, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any noise incidents. 	22	Complies	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	10	AIR QUALITY		The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria listed in Tables 2, 3, 4 and 5 at any residence on privately-owned land.	noted	noted	
3	11a	AIR QUALITY	Operating Conditions	implement best practice management to minimise the dust emissions of the project;	22	Section 5 of AQMP list 'best practice' mitigation and management measures. During the site visit the auditor noted that: The unsealed roads were watered. A wheel wash with a sealed road to the front gate were present. Signage and the Driver Code of Conduct provide instruction to have loads covered. Stockpiles were watered or were crusted over. Driver Code of Conduct limits on site speed to 20km/h. Limited area of disturbed land and progressive rehabilitation of completed areas.	
3	11b	AIR QUALITY	Operating Conditions	regularly assess air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this approval;		Complies	
3	11c	AIR QUALITY	Operating Conditions	minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see note d under Table 5);	22	AQMP does not have protocols for adverse meteorological conditions and extraordinary events.	Update AMQP to include protocols for adverse meteorological conditions and extraordinary events.
3	11d	AIR QUALITY	Operating Conditions	implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site; and	47	Systems are in place to monitor the servicing of vehicles however these were not up to date at the time of the site visit.	Maintenance logs to be maintained
3	11e	AIR QUALITY	Operating Conditions	minimise the area of surface disturbance and maximise progressive rehabilitation of the site; and		Limited area of disturbed land was observed during site visit.	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	11f	AIR QUALITY	Operating Conditions	carry out regular air quality monitoring to determine whether the project is complying with the relevant conditions of this approval.		2018 91% of HVAS reported 2017 71% of HVAS results reported 100% DDG reported 2016 63% of HVAS results reported. No DDG data collected 2015 75% of HVAS results reported (sensor and power issues cited) No DDG data collected	Review maintenance schedule to ensure the HVAS is operational at a more frequent level.
3	12	AIR QUALITY	Air Quality Management Plan	prepare and implement an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must		AMQP updated August 2016	
3	12a	AIR QUALITY	Air Quality Management Plan	be prepared in consultation with the EPA and submitted to the Secretary for approval by the end of November 2014;	No evidence of consultation with EPA	Update prepared in consultation with EPA and approved by DoP	
3	12b dot point 1	AIR QUALITY	Air Quality Management Plan	describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> compliance with the relevant conditions of this approval; 	22	Section 8.1 of AMQP provides guidance on compliance.	
3	12b dot point 2	AIR QUALITY	Air Quality Management Plan	<ul style="list-style-type: none"> best practice management is being employed; and 	22	Section 5 of AQMP list 'best practice' mitigation and management measures. During the site visit the auditor noted that: The unsealed roads were watered. A wheel wash with a sealed road to the front gate were present. Signage and the Driver Code of Conduct provide instruction to have loads covered. Stockpiles were watered or were crusted over. Driver Code of Conduct limits on site speed to 20km/h. Limited area of disturbed land and progressive rehabilitation of completed areas.	
3	12 b dot point 3	AIR QUALITY	Air Quality Management Plan	<ul style="list-style-type: none"> the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; 	22	AQMP does not have protocols for adverse meteorological conditions and extraordinary events. It describes how to assess monitoring data if there are impacts from adverse weather event but not how to minimise them. The auditor notes that the AQMP is approved by the Department of Planning	Update AMQP to include protocols for adverse meteorological conditions and extraordinary events

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	12c	AIR QUALITY	Air Quality Management Plan	describe the proposed air quality management system; and	22	AQMP Section 8 contains an adequate air quality management system except for the omission of protocols for adverse meteorological conditions and extraordinary events	
3	12d dot point 1	AIR QUALITY	Air Quality Management Plan	(d) include an air quality monitoring program that: <ul style="list-style-type: none"> • is capable of evaluating the performance of the project; 	22	AQMP has been updated and includes a protocol to install a secondary unit should complanits be registered.	
3	12d dot point 2	AIR QUALITY	Air Quality Management Plan	• includes a protocol for determining any exceedances of the relevant conditions of approval;	22	Complies	
3	12d dot point 3	AIR QUALITY	Air Quality Management Plan	• effectively supports the air quality management system; and	22	Complies	
3	12d dot point 4	AIR QUALITY	Air Quality Management Plan	• evaluates and reports on the adequacy of the air quality management system.	22	Complies	
3	13	METEOROLOGICAL MONITORING		For the life of the project, the Proponent shall ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline	New weather station has been installed.	Complies	
3	14a dot point 1	TRANSPORT	Monitoring of Product Transport	keep accurate records of the: <ul style="list-style-type: none"> • amount of quarry products transported from the site (per calendar month and year); and 	Website contains the required data	Complies	
3	14a dot point 2	TRANSPORT	Monitoring of Product Transport	• number of laden vehicle movements from the site (per hour, day, week, calendar month and year); and	Website contains the required data	Complies	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	14b	TRANSPORT	Monitoring of Product Transport	publish these records on its website biannually	Website contains the required data	Complies	
3	15a	TRANSPORT	Operating Conditions	all project-related heavy vehicles enter and exit the site in a forward direction;	23	Complies	
3	15b	TRANSPORT	Operating Conditions	all laden vehicles entering or leaving the site have their loads covered; and	23	Complies	
3	15c	TRANSPORT	Operating Conditions	all laden vehicles leaving the site are cleaned of sand and other material that may fall on the road, before leaving the site.	23	Complies	
3	16	TRANSPORT	Grants Road Maintenance	prepare a road condition assessment and road maintenance contributions study of Grants Road	31	Complies	
3	16a	TRANSPORT	Grants Road Maintenance	The study must: be undertaken by a suitably qualified, experienced and independent person(s) endorsed by the Secretary;		Complies, however Secretary endorsement was not provided	no further action
3	16b	TRANSPORT	Grants Road Maintenance	be undertaken in consultation with Council;	31	Complies	
3	16c	TRANSPORT	Grants Road Maintenance	be submitted to the Secretary for approval by the end of March 2015;	31	Complies however it was submitted to DoP July 2015. Secretary Approval dated 15/7/15	
3	16d	TRANSPORT	Grants Road Maintenance	be co-funded by the Proponent and the operator of the Central Coast Sands Quarry on a basis which is proportionate to the maximum number of tonnes of quarry product expected to be dispatched from each quarry over the life of their major project approvals, and the length of Grants Road affected by laden vehicles from each quarry;	31	Complies	
3	16e	TRANSPORT	Grants Road Maintenance	(e) assess current road condition of the length of Grants Road affected by laden vehicles from each quarry, and future road maintenance requirements for this length of road over the life of the major project approvals for both quarries;	31	Complies	
3	16f	TRANSPORT	Grants Road Maintenance	(f) give consideration to the usage of Grants Road by laden vehicles from each quarry over the past five years and the predicted usage of Grants Road by laden vehicles from each quarry over the life of their major project approvals, including any importation of VENM; and	31	Complies	
3	16g	TRANSPORT	Grants Road Maintenance	(g) recommend per tonne/per kilometre road maintenance contributions for the project for the haulage of quarry products and VENM on Grants Road.	31	Complies	
3	17	TRANSPORT	Grants Road Maintenance	The Proponent shall pay contributions to Council for the maintenance of Grants Road, in accordance with the study required under condition 16,	47	MYOB sighted documents	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	18	TRANSPORT	Traffic Management Plan	prepare and implement a Traffic Management Plan for the project	23	Complies	
3	18a	TRANSPORT	Traffic Management Plan	This plan must: be submitted to the Secretary for approval by the end of November 2014;	23	Complies	
3	18b	TRANSPORT	Traffic Management Plan	include a drivers' code of conduct to minimise the impacts of project-related trucks on local residences and road users; and	23	Complies	
3	18c	TRANSPORT	Traffic Management Plan	describe the measures that would be put in place to ensure compliance with the drivers' code of conduct.	23	Complies	
3	19	BIODIVERSITY	Biodiversity Performance Measures	The Proponent shall ensure that the project does not cause any exceedances of the performance measures in Table 6		No exceedances in 2017 as a result of the quarrys activities No exceedances in 2016 as a result of the quarrys activities No exceedances in 2015 as a result of the	
3	20a	BIODIVERSITY	Offsets	If the Proponent exceeds the performance measures in Table 6 and the Secretary determines that: it is not reasonable or feasible to remediate the impact or environmental consequence; or		Not required at this stage	
3	20b	BIODIVERSITY	Offsets	remediation measures implemented by the Proponent have failed to satisfactorily remediate the impact or environmental consequence;		Not required at this stage	
3	20	BIODIVERSITY	Offsets	then the Proponent shall provide a suitable offset to compensate for the impact or environmental consequence, to the satisfaction of the Secretary.		Not required at this stage	
3	21	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management	The Proponent shall undertake additional studies on the high priority GDEs located within 1 kilometre of extraction operations under the approval and potentially impacted by the project. The studies shall be undertaken in consultation with NOW and include:	49	Study undertaken and reported in the EMP	
3	21a	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management Program	(a) a description of the nature and extent of groundwater reliance for each GDE;	49	Study undertaken and reported in the EMP	Larry Cook
3	21b	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management	(b) long-term monitoring of the condition of the GDEs;	49	Long-term monitoring plan included in EMP. Monitoring undrtaken 2016 and 2017. Mapping not undertaken in 2oq5 due to NPWS hazard burn.	
3	21c	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management	(c) performance indicators for project-related environmental consequences on GDEs and trigger levels to initiate mitigation/response measures; and	49	Included in EMP	
3	21d	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management	(d) mitigation/response measures to ensure minor environmental consequences on the GDEs,	49	Included in EMP	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	21	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and	to the satisfaction of the Secretary.	49	EMP approved by Department of Planning	
3	22	BIODIVERSITY	Somersby Mintbush Monitoring and Management Program	The Proponent shall prepare and implement, in consultation with OEH and Council, a Somersby Mintbush (<i>Prostanthera junonis</i>) Monitoring Program within the vicinity of the site. This program must include:		Included in EMP	
3	22a	BIODIVERSITY	Somersby Mintbush Monitoring and Management	a baseline assessment of the extent and condition of the Somersby Mintbush populations before commencement of quarrying operations under the approval;		Included in EMP.	Phil Conacher surveyin
3	22b	BIODIVERSITY	Somersby Mintbush Monitoring and Management	long-term monitoring of these populations;		Note known mintbush population was removed by NPWS hazard reduction burn in 2015. Mintbush returned in 2016 and	
3	22c	BIODIVERSITY	Somersby Mintbush Monitoring and Management	establishment of performance indicators for project-related environmental consequences on Somersby Mintbush and trigger levels to initiate mitigation/response measures;		Included in EMP.	
3	22d	BIODIVERSITY	Somersby Mintbush Monitoring and Management	mitigation/response measures to ensure negligible environmental consequences on the Somersby Mintbush, to the satisfaction of the Secretary.		EMP approved by Department of Planning	
3	23	BIODIVERSITY	Biodiversity Offset Strategy	The Proponent shall implement the biodiversity offset strategy described in the EA, as summarised and revised in Table 7, and shown conceptually in Appendix 3, to the satisfaction of the Secretary.			
3	24	BIODIVERSITY	Long Term Security of Offset	The Proponent shall make suitable arrangements to provide appropriate long-term security for the offset areas prior to the commencement of extraction operations under this approval unless otherwise agreed by the Secretary, to the satisfaction of the Secretary.		Environmental bond has been paid.	Nest boxes ordered
3	25	LANDSCAPE	Rehabilitation Objectives	The Proponent shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy in the EA, and comply with the objectives in Table 8.		Not triggered/not applicable at this stage	
3	26	LANDSCAPE	Progressive Rehabilitation	The Proponent shall 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 stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.		Not triggered/not applicable at this stage	
3	27	LANDSCAPE	Landscape and Rehabilitation Management Plan	The Proponent shall prepare and implement a Landscape and Rehabilitation Management Plan for the site, including the offset area, to the satisfaction of the Secretary. This plan must:		Landscape and Rehabilitation Management Plan was prepared in Nov 2015 and loaded onto the GRSQ website.	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	27a	LANDSCAPE	Landscape and Rehabilitation Management Plan	(a) be prepared by suitably qualified person(s) whose appointment has been approved by the Secretary;		Complies	
3	27b	LANDSCAPE	Landscape and Rehabilitation Management Plan	(b) be prepared in consultation with OEH, DRE and Council, and submitted to the Secretary for approval by the end of July 2015;		Complies however it was submitted to DoP November 2015. Secretary Approval dated 11/12/15	
3	27c	LANDSCAPE	Landscape and Rehabilitation Management Plan	(c) describe how the implementation of the biodiversity offset strategy would be integrated with the overall rehabilitation of the site;		Complies	
3	27d dot point 1	LANDSCAPE	Landscape and Rehabilitation Management Plan	(d) describe the short, medium, and long term measures that would be implemented to: • manage the remnant vegetation and habitat on the site and in the offset areas;		Complies	
3	27d dot point 2	LANDSCAPE	Landscape and Rehabilitation Management Plan	• implement the biodiversity offset strategy; and		Complies	
3	27d dot point 3	LANDSCAPE	Landscape and Rehabilitation Management Plan	• ensure compliance with the rehabilitation objectives and the progressive rehabilitation obligations in this approval;		Complies	
3	27e	LANDSCAPE	Landscape and Rehabilitation Management Plan	(e) include detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy and the rehabilitation of the site, including triggers for any necessary remedial action;		Complies	
3	27f dot point 1	LANDSCAPE	Landscape and Rehabilitation Management Plan	(f) include a detailed description of the measures that would be implemented over the next 3 years (to be updated for each 3 year period following initial preparation of the plan), including the procedures to be implemented for: • enhancing the quality of remnant vegetation and fauna habitat;		Complies	
3	27f dot point 2	LANDSCAPE	Landscape and Rehabilitation Management Plan	• landscaping the site and along public roads to minimise visual and lighting impacts;		Complies	
3	27f dot point 3	LANDSCAPE	Landscape and Rehabilitation Management Plan	• restoring native endemic vegetation and fauna habitat;		Complies	
3	27f dot point 4	LANDSCAPE	Landscape and Rehabilitation Management Plan	• maximising the salvage of environmental resources within the approved disturbance area – including tree hollows, vegetative and soil resources – for beneficial reuse;		Complies	
3	27f dot point 5	LANDSCAPE	Landscape and Rehabilitation Management Plan	• ensuring minimal environmental consequences for threatened species, populations and habitats;		Complies	
3	27f dot point 6	LANDSCAPE	Landscape and Rehabilitation Management Plan	• minimising the impacts on native fauna, including undertaking pre-clearance surveys;		Complies	
3	27f dot point 7	LANDSCAPE	Landscape and Rehabilitation Management Plan	• controlling weeds and feral pests;		Complies	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	27f dot point 8	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> controlling erosion; 		Complies	
3	27f dot point 9	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> controlling access; and 		Complies	
3	27f dot point 10	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> bushfire management; 		Complies	
3	27g	LANDSCAPE	Landscape and Rehabilitation Management Plan	(g) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;		Complies	
3	27h	LANDSCAPE	Landscape and Rehabilitation Management Plan	(h) identify the potential risks to the 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 these risks; and		Complies	
3	27i	LANDSCAPE	Landscape and Rehabilitation Management Plan	(i) include details of who would be responsible for monitoring, reviewing and implementing the plan.		Complies	
3	28	LANDSCAPE	Conservation and Rehabilitation Bond	The Proponent shall lodge a Conservation and Rehabilitation Bond with the Department within 6 months of the approval of the Landscape and Rehabilitation Management Plan, to ensure that the biodiversity offset strategy and rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the Plan. The sum of the bond shall be determined by:		Complies	
3	28a	LANDSCAPE	Conservation and Rehabilitation Bond	(a) calculating the cost of implementing the biodiversity offset strategy over the next 3 years;		Complies	
3	28b	LANDSCAPE	Conservation and Rehabilitation Bond	(b) calculating the cost of rehabilitating disturbed areas of the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and		Complies	
3	28c	LANDSCAPE	Conservation and Rehabilitation Bond	(c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.		Complies	
3	28 Note	LANDSCAPE	Conservation and Rehabilitation Bond	<ul style="list-style-type: none"> Alternative funding arrangements for long term management of the biodiversity offset strategy, such as provision of capital and management funding as agreed by OEH as part of a Biobanking Agreement or transfer to conservation reserve estate can be used to reduce the liability of the conservation and biodiversity bond. 		Complies	
3	28 Note	LANDSCAPE	Conservation and Rehabilitation Bond	<ul style="list-style-type: none"> If capital and other expenditure required by the Landscape and Rehabilitation Management Plan is largely complete, the Secretary may waive the requirement for the lodgement of a bond in respect of the remaining expenditure. 		Noted	

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance 2018	Corrective Actions/Recommendations
3	28 Note	LANDSCAPE	Conservation and Rehabilitation Bond	<ul style="list-style-type: none"> If the rehabilitation of the site area is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works. 		Noted	
3	29	LANDSCAPE	Conservation and Rehabilitation Bond	Within 3 months of each Independent Environmental Audit (see condition 9 of Schedule 5), the Proponent shall review, and if necessary revise, the sum of the Conservation and Rehabilitation Bond to the satisfaction of the Secretary. This review must:		Noted	
3	29a	LANDSCAPE	Conservation and Rehabilitation Bond	consider the performance of the implementation of the rehabilitation of the site to date;		Noted	
3	29b	LANDSCAPE	Conservation and Rehabilitation Bond	consider the effects of inflation; and		Noted	
3	29c	LANDSCAPE	Conservation and Rehabilitation Bond	calculate the cost of rehabilitating the disturbed areas of the site (taking into account the likely surface disturbance over the next 3 years of quarrying operations.		Noted	
3	30	HERITAGE	Heritage Management Plan	The Proponent shall prepare and implement an Aboriginal Cultural Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must:	23	Complies	
3	30a	HERITAGE	Heritage Management Plan	(a) be prepared by suitably qualified person(s) whose appointment has been approved by the Secretary;	23	Complies	
3	30b	HERITAGE	Heritage Management Plan	(b) be prepared in consultation with OEH and local Aboriginal stakeholders;	23	Complies	
3	30c	HERITAGE	Heritage Management Plan	(c) be submitted to the Secretary for approval by the end of November 2014;	23	Complies	
3	30d dot point 1	HERITAGE	Heritage Management Plan	(d) include a description of the measures that would be implemented for:	23	Complies	
3	30d dot point 2	HERITAGE	Heritage Management Plan	<ul style="list-style-type: none"> protecting, monitoring and managing Aboriginal sites within the site, including the biodiversity offset strategy; 	23	Complies	
3	30d dot point 3	HERITAGE	Heritage Management Plan	<ul style="list-style-type: none"> maintaining and managing reasonable access for Aboriginal stakeholders to cultural heritage items on site and in the biodiversity offset areas; 	23	Complies	
3	30d dot point 4	HERITAGE	Heritage Management Plan	<ul style="list-style-type: none"> managing the discovery of any human remains or previously unidentified Aboriginal objects on site, including (in the case of human remains) stop work provisions and notification protocols; 	23	Complies	
3	30d dot point 5	HERITAGE	Heritage Management Plan	<ul style="list-style-type: none"> ongoing consultation with the local Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage both on-site and in the biodiversity offset areas; 	23	Complies	
3	30d dot point 6	HERITAGE	Heritage Management Plan	<ul style="list-style-type: none"> ensuring any workers on site receive suitable heritage inductions prior to carrying out any activities which may disturb Aboriginal sites, and that suitable records are kept of these inductions; and 	23	Complies	
3	30d dot point 7	HERITAGE	Heritage Management Plan	<ul style="list-style-type: none"> the long term management of the Aboriginal cultural heritage values of the site post extraction operations and rehabilitation of the site. 	23	Complies	

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3	30	VISUAL		The Proponent shall implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the project to the satisfaction of the Secretary.	site visit	No lighting on site	
3	31a	VISUAL		The Proponent shall: (a) vegetate any earthen perimeter bund at the project within 3 months of establishing the bund, using appropriate flora species to minimise the visual and off-site sedimentation impacts of the project; and	site visit	Complies	
3	31b	VISUAL		(b) maintain this vegetation in a good condition throughout the remainder of the project, to the satisfaction of the Secretary.	site visit	Complies	
3	32a	WASTE MANAGEMENT		The Proponent shall: (a) minimise and monitor the waste generated by the project;	site visit	Complies	
3	32b	WASTE MANAGEMENT		(b) ensure that the waste generated by the project is appropriately stored, handled and disposed of;	site visit	Scrap metal and waste oil docketts were sighted. However there some machinery bits and pieces stored at various locations around the site.	
3	32c	WASTE MANAGEMENT		(c) manage on-site sewage treatment and disposal in accordance with the requirements of Council; and	site visit	Complies	
3	32d	WASTE MANAGEMENT		(d) report on waste management and minimisation in the Annual Review,		Complies	
3	33	WASTE MANAGEMENT		Prior to importing any VENM to the site, the Proponent must obtain a 'resource recovery exemption' under the POEO Act and provide evidence of this approval to the Department.		ENM and VENM certificates for imported soil were reviewed by the auditor.	
	34	DANGEROUS GOODS		The Proponent shall ensure that the storage, handling, and transport of dangerous goods are done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.		Diesel stored in double skinned bunded tank. Appropriate spill kits are located nearby and are fully stocked .	
3	35a	BUSHFIRE		The Proponent shall: (a) ensure that the project is suitably equipped to respond to any fires on site; and		Fire extinguishers are available nearby the diesel storage	
3	35b	BUSHFIRE		(b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.		Owners are members of the RFS	

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4	1a	NOTIFICATION OF LANDOWNERS		As soon as practicable after obtaining monitoring results showing: (a) an exceedance of any relevant criteria in Schedule 3, the Proponent shall notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria; and		Not triggered/not applicable	Not triggered/not applicable
4	1b	NOTIFICATION OF LANDOWNERS		(b) an exceedance of any relevant air quality criteria in Schedule 3, the Proponent shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned.		Not triggered/not applicable	Not triggered/not applicable
4	2	INDEPENDENT REVIEW		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.		Not triggered/not applicable	Not triggered/not applicable
4	2a dot point 1	INDEPENDENT REVIEW		If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Proponent shall: (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: • consult with the landowner to determine his/her concerns;		Not triggered/not applicable	Not triggered/not applicable
4	2a dot point 2	INDEPENDENT REVIEW		• conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and		Not triggered/not applicable	Not triggered/not applicable
4	2a dot point 3	INDEPENDENT REVIEW		• if the project is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and		Not triggered/not applicable	Not triggered/not applicable
4	2b	INDEPENDENT REVIEW		(b) give the Secretary and landowner a copy of the independent review.		Not triggered/not applicable	Not triggered/not applicable

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Compliance/Non Compliance	Corrective Actions/Recommendations					
5	1	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. The strategy must:		Complies							
5	1a	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(a) be submitted to the Secretary for approval by the end of November 2014;		Complies							
5	1b	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(b) provide the strategic framework for environmental management of the project;		Complies							
5	1c	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(c) identify the statutory approvals that apply to the project;		Complies							
5	1d	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;		Complies							
5	1e dot point 1	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(e) describe the procedures that would be implemented to: • keep the local community and relevant agencies informed about the operation and environmental performance of the project;		Complies							
5	1e dot point 2	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	• receive, record, handle, and respond to complaints;		Complies							
5	1e dot point 3	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	• resolve any disputes that may arise during the course of the project;		Complies							
5	1e dot point 4	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	• respond to any non-compliance;		Complies							
5	1e dot point 5	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	• respond to emergencies; and		Complies							
5	1f dot point 1	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(f) include: • copies of any strategies, plans and programs approved under the conditions of this approval; and		Complies							
5	1f dot point 2	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	• a clear plan depicting all the monitoring to be carried out under the conditions of this approval		Complies							
5	2	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	2. The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:			Noise	Water	Air	Traffic	Biodiversity	Heritage	
5	2a	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(a) detailed baseline data;		Complies	Complies	Complies	Complies	N/A	Complies	N/A	
5	2b dot point 1	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(b) a description of: • the relevant statutory requirements (including any relevant approval, licence or lease conditions);		Complies	Complies	Complies	Complies	Complies	Complies	Complies	
5	2b dot point 2	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• any relevant limits or performance measures/criteria;		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	2b dot point 3	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• 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;		Complies	Complies	Complies	Complies	Complies	Complies	Complies	
5	2c	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;		Complies	Complies	Complies	Complies	Complies	Complies	Complies	
5	2d dot point 1	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(d) a program to monitor and report on the: • impacts and environmental performance of the project;		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	2d dot point 2	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• effectiveness of any management measures (see c above);		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	2e	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	2f	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(f) a program to investigate and implement ways to improve the environmental performance of the project over time;		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	2g dot point 1	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(g) a protocol for managing and reporting any: • incidents;		Complies	Complies	Complies	Complies	Complies	Complies	Complies	
5	2g dot point 2	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• complaints;		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	2g dot point 3	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• non-compliances with statutory requirements; and		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	2g dot point 4	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• exceedances of the impact assessment criteria and/or performance criteria; and		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	2h	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(h) a protocol for periodic review of the plan.		Complies	Complies	Complies	Complies	N/A	Complies	Complies	
5	3	ENVIRONMENTAL MANAGEMENT	Adaptive Management	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		Noted/not triggered	noted						
5	3a	ENVIRONMENTAL MANAGEMENT	Adaptive Management	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 steps to ensure that the exceedance ceases and does not reoccur;		Noted/not triggered	noted						

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Compliance/Non Compliance	Corrective Actions/Recommendations				
5	3b	ENVIRONMENTAL MANAGEMENT	Adaptive Management	(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		Noted/not triggered	noted					
5	3c	ENVIRONMENTAL MANAGEMENT	Adaptive Management	(c) implement remediation measures as directed by the Secretary,		Noted/not triggered	noted					
5	4	ENVIRONMENTAL MANAGEMENT	Annual Review	By the end of March each year, or other timing as may be agreed by the Secretary, the Proponent shall review the environmental performance of the project to the satisfaction of the Secretary. This review must:		Noted/not triggered	2015 AEMR submitted March 2016 2017 AEMR submitted March 2018 2016 AEMR submitted March 2017					
5	4a	ENVIRONMENTAL MANAGEMENT	Annual Review	(a) describe the development (including any rehabilitation) that was carried out in the past calendar year, and the development that is proposed to be carried out over the current calendar year;		Noted/not triggered	Complies					
5	4b dot point 1	ENVIRONMENTAL MANAGEMENT	Annual Review	(b) include a comprehensive review of the monitoring results and complaints records of the project over the past calendar year, which includes a comparison of these results against the: • relevant statutory requirements, limits or performance measures/criteria;		Noted/not triggered	Complies					
5	4b dot point 2	ENVIRONMENTAL MANAGEMENT	Annual Review	• requirements of any plan or program required under this approval;		Noted/not triggered	Complies					
5	4b dot point 3	ENVIRONMENTAL MANAGEMENT	Annual Review	• monitoring results of previous years; and		Noted/not triggered	Complies					
5	4b dot point 4	ENVIRONMENTAL MANAGEMENT	Annual Review	• relevant predictions in the EA;		Noted/not triggered	Complies					
5	4c	ENVIRONMENTAL MANAGEMENT	Annual Review	(c) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;		Noted/not triggered	Complies					
5	4d	ENVIRONMENTAL MANAGEMENT	Annual Review	(d) identify any trends in the monitoring data over the life of the project;		Noted/not triggered	Complies					
5	4e	ENVIRONMENTAL MANAGEMENT	Annual Review	(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and		Noted/not triggered	Complies					
5	4f	ENVIRONMENTAL MANAGEMENT	Annual Review	(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.		Noted/not triggered	Complies					
5	5a	ENVIRONMENTAL MANAGEMENT	Revision of Strategies, Plans and Programs	Within 3 months of the submission of an: (a) annual review under condition 4 above;		Noted/not triggered	Complies					
5	5b	ENVIRONMENTAL MANAGEMENT	Revision of Strategies, Plans and Programs	(b) incident report under condition 7 below;		Noted/not triggered	Complies					
5	5c	ENVIRONMENTAL MANAGEMENT	Revision of Strategies, Plans and Programs	(c) audit report under condition 9 below; or		Noted/not triggered	Complies					
5	5d	ENVIRONMENTAL MANAGEMENT	Revision of Strategies, Plans and Programs	(d) any modification to the conditions of this approval,		Noted/not triggered	Complies					
5	5	ENVIRONMENTAL MANAGEMENT	Revision of Strategies, Plans and Programs	the Proponent shall review 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.		Noted/not triggered	Complies					
5	6	ENVIRONMENTAL MANAGEMENT	Community Consultative Committee	If directed by the Secretary, the Proponent shall establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary. Any such CCC must be operated in general accordance with the Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects (Department of Planning, 2007, or its latest version).		Noted/not triggered	Complies					
5	7	REPORTING	Incident Reporting	The Proponent shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.		Noted/not triggered	Complies					
5	8	Incident Reporting	Incident Reporting	The Proponent shall 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.			Complies					
5	9	AUDITING	Independent Environmental Audit	By 30 June 2015 and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:		complies	Audit submitted 31 October 2018					
5	9a	AUDITING	Independent Environmental Audit	(a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;		complies	complies					
5	9b	AUDITING	Independent Environmental Audit	(b) include consultation with the relevant agencies;		complies	complies					

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Compliance/Non Compliance	Corrective Actions/Recommendations				
5	9c	AUDITING	Independent Environmental Audit	(c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval and any relevant EPL or necessary water licences for the project (including any assessment, strategy, plan or program required under these approvals);		complies	mostly complies	EPL 11240 extraction limit 50,000 tonnes/annum July 2015-June 2016 59,094 tonnes January -Dec 2017 124,236 tonnes	Groundwater field parameters have not been recorded at any time.	HVAS sampling does not comply with the 6 day sampling period	Crystalline Silica in air has not been appropriately monitored to date	
5	9d	AUDITING	Independent Environmental Audit	(d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and		complies	complies					
5	9e	AUDITING	Independent Environmental Audit	(e) recommend appropriate measures or actions to improve the environmental performance of the project, and/or any assessment, strategy, plan or program required under the abovementioned approvals.		complies	complies					
5	10	AUDITING	Independent Environmental Audit	Within 6 weeks of completion of this audit, or as otherwise agreed by the Secretary, the Proponent shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.			Complies					
5	11a dot point 1	ACCESS TO INFORMATION		By the end of November 2014, the Proponent shall: (a) make copies of the following publicly available on its website:		complies	Complies					
5	11a dot point 2	ACCESS TO INFORMATION		• the documents referred to in condition 2 of Schedule 2;		complies	Complies					
5	11a dot point 3	ACCESS TO INFORMATION		• all current statutory approvals for the project;		pending approval	Complies					
5	11a dot point 4	ACCESS TO INFORMATION		• all approved strategies, plans and programs required under the conditions of this approval;		pending approval	Complies					
5	11a dot point 5	ACCESS TO INFORMATION		• a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;		complies	Complies					
5	11a dot point 6	ACCESS TO INFORMATION		• a complaints register, updated monthly;		Not triggered	Complies					
5	11a dot point 7	ACCESS TO INFORMATION		• the annual reviews of the project;		Not triggered	Complies					
5	11a dot point 8	ACCESS TO INFORMATION		• any independent environmental audit, and the Proponent's response to the recommendations in any audit;		Not triggered	Complies					
5	11a dot point 9	ACCESS TO INFORMATION		• minutes of CCC meetings;		Not triggered	Complies					
5	11a dot point 10	ACCESS TO INFORMATION		• any other matter required by the Secretary; and		Not triggered	Complies					
5	11b			(b) keep this information up to date,			Complies					
5	11			to the satisfaction of the Secretary.			Complies					

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
1	General Arrangements	The development shall be carried out in accordance with the Environmental Assessment (April 2013) prepared by Peter Andrews + Associates Pty Ltd and this Addendum Report. This Addendum Report will override the Environmental Assessment where there is an inconsistency.	Ongoing	See Schedule 3 comments	
2	Staging	Staging of the development will be in accordance with the staging of works set out in the Environmental Assessment (April 2013).	Ongoing	Complies	
3	Statutory Requirements	Obtain and maintain all relevant approvals and licences.	As required and continuous	Complies, EPL requires updating	
		Comply with all conditional requirements in all approvals and licences.	As required	EPL requires updating	EPL11240 to be updated to allow for 250,00tonnes/annum extraction.
4	Hours of Operation	7.00am to 6.00pm Monday to Friday 7.00am to 1.00pm Saturday	Ongoing	Complies	
5	Reporting Requirements	Undertake monitoring for the key areas as identified below.	As required	Complies	
		Incorporate relevant data/monitoring information in the Annual Reports.	Annually	Complies	
		Incorporate the management measures into the Environmental Management Plan. The development is to operate at all times within the terms and conditions of the Environmental Management Plan.	Prior to commencement and subject to five yearly reviews	Complies_See EMP	
		Update procedures manual for the operation of the quarry with regards to the quarry expansion including the following and ensure all staff are aware of procedures.	Prior to commencement of the operations	Complies_See EMP	
		• Operation of plant and equipment		Complies_See EMP	
		• Environmental monitoring		Complies_See EMP	
		• Restrictions imposed on quarrying		Complies_See EMP	
		• Vegetation removal		Complies_See EMP	
		• Sedimentation and erosion		Complies_See EMP	
		• Transportation		Complies_See EMP	
		Provision of the annual production data to the Department of Trade and Investment	Annually	Complies	
6	Soils and Land capability	Locate areas for acoustic earth mounds.	Prior to topsoil stripping operations	Complies	
		Maintain topsoil for rehabilitation and minimise soil loss through erosion.	Ongoing	Complies	
		Vegetate all mounds with Kikuyu grass	As required	Complies	
		Implement downslope sedimentation controls as required	Until the surface of the mounds are vegetated	Complies	
7	Groundwater	Undertake automatic water level measurements in water level data logger in monitoring bores	Initially 4-hourly samples. Assess data after 12 months and depending on the results, decrease frequency to 8-hourly samples	Complies	

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
		Undertake groundwater sampling in representative monitoring bores	Initially 3 monthly. Assess data after 12 months and depending on the results, decrease frequency to 6 monthly samples	Complies	
		Undertake automatic rainfall measurements in tipping bucket rain gauge data logger on site	Continuous logging at every 0.2mm tip with time/date stamps.	Complies	
		Preparation of the Groundwater Management Plan, which incorporates the development of a water level and water quality monitoring program and the development of a set of trigger levels and mitigation measures if adverse impacts occur on the environmental and/or neighbouring water users.	Within 6 months of the project approval	Complies	
		Provide a complete set of results of the production and monitoring program including a review and assessment of the statistical analysis to the Senior Hydrogeologist NOW and the quarry owner.	Annually	Not reviewed by Senior Hydrogeologist NOW	Provide annual groundwater results for review by a Senior Hydrogeologist (NOW).
		Communicate with any landowner if there is a scientifically and independently demonstrated significant impact on any neighbouring water users surrounding the site.	As required	Not triggered	
8	Surface Water	Preparation of an Environmental Management Plan for the quarry extension based on a continuation of the current environmental management and mitigation measures for the quarry expansion as outlined in the current EMP.	Prior to the commencement of the quarry operations	Complies	
		Construct earth bunds and surface water diversion banks and drains around the perimeter of the entire quarry pit void. Bunds and/or diversion drains will require ongoing minor realignments as the quarry pit develops and advances especially through zone 'C'. Bunds can be designed as 'multi-purpose' to provide additional public 'Highwall' safety in addition to surface water flow management.	Prior to the commencement of the quarry operations and ongoing	Complies	
		Relocate the chicken farming operations storage shed that is currently located on the south west drainage path to the south of the site and bund the storage site to contain runoff while chicken farming is ongoing at the site.	Prior to the commencement of the quarry operations and ongoing	Chicken farming operation were not relocated. However, December 2017 Chicken farming ceased.	

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
		<p>Construct 'out of pit' containment infrastructure in the south-eastern most section of the property boundary adjacent to Zone E to capture and passively treat contaminated surface water runoff whilst simultaneously providing additional water security. Infrastructure to consist of:</p> <ol style="list-style-type: none"> 1. One 10 Megalitres (ML) Pollution Control Dam (PC Dam) to receive nitrogen rich runoff from Zones F&G where the existing chicken and machinery sheds are located. This dam will gravity flow via a spillway into a shallow polishing pond. Control structures such as rock 'rip rap' or similar will be required to control water runoff velocity prior to entering the PC Dam. 2. Broad shallow polishing pond/s will receive any water spilled or transferred from PC Dam and provide passive treatment through suitable wetland plant species. 3. Pipeline and pumps for transfer of water each way between the in-pit decant pond and out of pit PC Dam. 4. A floating siphon in the PC Dam to maintain a 5 ML operating level. Ensure PC Dam and pond are located outside of the water pipeline easement and located generally as shown on the plans. Access to the ponds will be along the southern boundary across the water pipeline easement 	<p>Prior to the commencement of the quarry operations and ongoing</p>	<p>Pollution control dam constructed in the northern area of Zone E. See figure 1. Rock 'rip rap' has been placed in open drain that discharges into PC Dam and the overflow from the PC dam. Polishing dam/wetland not constructed at this stage. Excess water pumped into quarry void as required via pumps and pipes</p>	<p>Surface water pH, EC, TSS, TN, TP Groundwater pH, EC, TDS, Na, Ca, K, Mg, NH3, Cl, SO4Alkalinity, Tss, Oiland Grease, Cu, Pb, TP, NO3, NO2 PO4, Zn, Toal Fe, Dissolved Fe.</p>
		<p>Continue monitoring of surface water at locations W1 and W4</p>	<p>Monitor until stage 2 of the quarry commences.</p>		
		<p>After construction of the control pond and polishing pond, it is proposed that the quality of the treated quarry discharge released to the south west waterway is monitored at the future surface water quality monitoring location S1 shown in Appendix 2 of this report. Initially, the control pond and polishing dam will be used mainly to treat runoff from the chicken farming operations, the existing dwelling and a small area of pasture, and will only be used to treat water captured within the quarry during large rainfall events until the commencement of stage 2 of the quarry. As the quarry extends to the maximum quarry footprint in stage 2, pumping out of the quarry may occur as regularly as weekly.</p>	<p>Monthly water monitoring</p>		

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
		<p>Undertake water quality monitoring by a grab sample taken during discharge downstream of the control pond and polishing pond at location S1 on a monthly basis. The parameters will be monitored and compared against the proposed discharge limits as follows:</p> <ul style="list-style-type: none"> • Suspended solids 40mg/L • Oil and grease – 5 and/or none visible • pH – 6.0-8.0 		<p>Sampling Location S1 intended to monitor the discharge from the Pollution Control Dam and Polishing Pond. PCD and PP not constructed in the approximate location as shown in EMP. S1 unlikely to be representative of this discharge.</p>	<p>Surface Water monitoring at S1 2017 TSS only in one quarter (dry in the remaining quarters) 2016 pH , TSS, TDS, Nox, TKN, TN, TP in one quarter and TSS in remaining three quarters. 2015 (6 months) TSS in onequarter and pH TSS and O&G in one quarter.</p>
	Biodiversity and Environmental Management	Identify the boundaries of the quarry.	Prior to clearing of vegetation	Complies	
		Preparation of a detailed Biodiversity Offset Management and Habitat Rehabilitation Plan for areas to be retained as biodiversity offsets within the site.	Prior to the clearing of vegetation	Complies	

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
		<p>Biodiversity offsetting will be undertaken to compensate for unavoidable impacts to biodiversity within the site including the removal of 1.5 hectares of Cleared Land with Remnant Trees vegetation and the loss of 18 hollow bearing trees. The areas within the site proposed for biodiversity offsetting are located in the north- eastern section of the site and along the western section of the site. The offsetting strategy proposed will result in the improvement and maintenance of biodiversity values on the site for the medium to long term.</p> <p>A total of 7.1 hectares of land will be retained and managed as a biodiversity offset to compensate for the loss of 1.5 hectares of Cleared Land with Remnant Trees vegetation.</p> <p>Offset areas will be protected in perpetuity and subject to a 10 year rehabilitation and maintenance period. The areas proposed for retention comprise the following:</p> <ul style="list-style-type: none"> • 0.85 hectares of Disturbed Scribbly Gum Woodland; • 3.5 hectares of Cleared Land with Remnant Trees Vegetation; and • 2.75 hectares of Cleared Land. <p>The areas proposed for offsetting will be subject to protective fencing to exclude livestock and local populations of feral Rusa Deer, intensive replanting of endemic tree and shrub species within cleared areas and weed management of noxious and environmental weeds. A total of 170 hollow-bearing trees will be retained and 36 nest boxes will be erected to compensate for the loss of 18 hollow bearing trees.</p>	The first 10 years of Stage 2	not yet triggered	
		<p>All hollow-bearing trees to be removed are to be inspected and sectionally dismantled by an arborist, under the supervision and direction of an ecologist. Where possible, escaped fauna is to be caught by the consulting ecologist and transported to a suitable release area. If juvenile or injured fauna are encountered they are to be captured and transported to a wildlife carer or a veterinary surgeon as required. In the case where the arborist declares a tree or stag unsafe to climb, machine removal with a rotating grab or similar will be required.</p>		not triggered	
10	Noise	<p>engines, or localised plant specific shielding*) to achieve the following noise reductions:</p> <ul style="list-style-type: none"> • Dozer 4db; • Trencor 3dB; • McCloskey 3dB; and • Sandwash Plant 8dB for air cooled 6 cylinder engine* (Smaller 4 cylinder engine is now operating with a purpose designed enclosure and exhaust resulting in an 8dB reduction and does not require further attenuation). <p>All reversing alarms replaced with level varying or broadband "quacker" type alarms.</p>	Prior to the use of the plant equipment.		
		<p>Plant and equipment to be maintained to ensure acoustic performance is not de- rated and complies with the recommended limits outlined in the Noise Impact Assessment (NIA) and incorporating the specified noise controls.</p>	Throughout the life of the quarry.	Equipment maintenance logs have not been kept up to date.	Maintenance logs required to be used to document upkeep of plant and equipment.

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
		A Site Operational Management Plan (SOMP) be developed to ensure that the dozer, Trenchor and McCloskey do not operate simultaneously.	Throughout the life of the quarry.	Trenchor removed from site. SOMP not required	
		Provision of an earth mounds 3-4 metres high along the southern and south- eastern quarry boundaries as shown on Figure 14 of the Environmental Assessment before commencing Precincts E, F and G.	Prior to quarrying of stage 2.	Complies	
		The SOMP to document procedures to maximise site shielding and minimise number of plant and equipment on exposed locations, particularly on the eastern and southern portions of the quarry (areas B, C, F and G). That is, where practical and feasible only one (1) item of plant would operate at an exposed level (<8m below ground level) at any one time and extraction to proceed against a working face where practical.	During quarrying of the stage 2.		
		<p>A site weather station will be installed and continually monitor ambient weather conditions including wind speed and direction at a height of ten (10) metres above ground level. The current weather conditions would be utilised to manage day to day quarry operations, and the SOMP incorporate strict protocols including:</p> <ul style="list-style-type: none"> • Cease operations within Precinct F and G during north-north-west or west wind conditions up to 3m/s with respect to the operation of the dozer, Trenchor and McCloskey in exposed locations (<8m below ground level); and • Utilise periods of high winds >5m/s (particularly east and south-east winds) and/or rain with elevated background noise levels to extract material within exposed locations (Areas B, F and G). 	During quarrying of the relevant precincts.	Weather station installed, remainder not triggered	

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
		<p>A Complaints Management Procedure (CMP) be prepared to deal with any noise complaints as follows and include:</p> <ul style="list-style-type: none"> • Site contact telephone number during business hours to lodge complaints or seek additional information (and message service for out of hours). If phone unattended it should divert to mobile phone of site quarry manager; • Log to record complaint including time of alleged noise issue, duration, description of noise, prevailing weather conditions and complainants contact details; • Complaints to be responded to in a timely manner. Where the noise is currently occurring, Quarry Manager shall investigate and determine noise source is noise is likely to be exceeding Approval Noise Limits. If exceedance is occurring, operations to be amended or ceased; • Audits at sensitive receiver locations to identify noise contributions, compliance and determine if additional procedures or controls to minimise noise from the site are required; • A record of noise investigations to be maintained on site and complainants informed of outcomes of investigations and actions implemented following any noise complaints; and • All site plant including trucks to be regularly inspected and maintained to ensure that the equipment is operating in accordance with specifications and satisfied the noise limits referenced in the NIA (min Annually). 	Prior to the commencement of the quarry extensions.	Complies-Noise Management Plan	
		<p>Undertake an Annual Noise monitoring program that incorporates:</p> <ul style="list-style-type: none"> • Site attended noise measurements at the three (3) reference locations and record aural observations, statistical noise levels (LA90, LAeq), weather conditions and quarry operations. Typically measurement considering of two (2) 15 minute measurement periods at each receiver; • Attended nearfield or midfield measurements to confirm operating noise levels and determine sound power levels of individual plant and equipment for comparison with source noise data utilised in the EIS Noise Impact Assessment; • Assessment of noise audit measurement results against Conditions of Consent and any pending Licence to determine compliance; • Provide recommendations for ameliorative or management measures for Quarry operator where noise exceedances are identified; • Preparation of Annual Noise Monitoring Report for submission to Consent Authority and/or EPA 	Annually	Complies	
11	Air Quality	Preparation of an air quality management plan incorporating PM10 monitoring at the most affected off-site sensitive location.	Annually	Complies	

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
		<p>Minimise dust impacts at sensitive residences through the following onsite management procedures. These procedures to meet the KPIs outlined in this report and be reviewed.</p> <ul style="list-style-type: none"> • Water of unsealed roads; • Use of wheel-wash and operation of sealed road from wheel-wash to the front gate; • Covering of loads during hauling; • Water of stockpiles when necessary; • Limiting vehicle speed onsite; and • Limiting the area of disturbed land and progressive rehabilitation of completed areas. 	Annually	Complies	
		<p>Carry out campaign monitoring for respirable crystalline silica. The monitoring would assess the exposure of quarry workers to respirable crystalline silica (in accordance with Australian Standard (AS 2985-2009) - Workplace atmospheres - Method for sampling and gravimetric determination of respirable dust.</p>	<p>First year of the quarry extension (on a day of maximum throughput). Monitoring to be repeated quarterly in the first year and if more than two consecutive results demonstrate low risk, monitoring would be discontinued.</p>	One round undertaken 28/8/2018. Sample volume not recorded	Carry out campaign monitoring for respirable crystalline silica as soon as practicable.
		<p>Incorporate greenhouse gas reduction measures for the operation of the project including:</p> <ul style="list-style-type: none"> • Opportunities to increase energy efficiency will be continuously reviewed including opportunities to minimise haul distances for quarry material, ensuring trucks are fully loaded to maximise productivity and efficiency, reducing trips by coordinating delivery and removal of materials. • Consideration of the use of alternative fuels where economically and practically feasible. • Regular maintenance of diesel powered equipment to ensure operation at peak efficiency. • Consideration of energy efficiency for all electrical equipment, appliances, lighting and hot water system. 	Throughout the life of the quarry	noted	
12	Roadworks and Traffic Management	All vehicles leaving the site with loads of extracted material are to be sufficiently covered to prevent windblown dust.	Ongoing	Complies	
13	Heritage	Grants Rd RE1 and RE2 sites are to be preserved.	Continuous	Complies	
		Incorporate a ten (10) metre buffer on the southern, eastern and western boundary of the anthropomorphic figure (Grants Rd RE1).	For the life of the quarry	Complies	
		The bund wall for the quarry extension in the area of Grants Rd RE1 to be constructed of block wall rather than earth in between the engraving and the boundary.	Prior to the quarrying of Precinct C	Complies	
		The engraving (Grants Rd RE1) is incorporated into the monitoring programme currently in place for the adjacent Howes Aboriginal Reserve.	Five yearly	not yet triggered	

	Subject	Commitments	Timing	2018	Corrective Actions/Recommendations
		A protective fence is constructed 8 metres around each side of the Grants Rd RE 1 site to prevent inadvertent damage. The fence should incorporate appropriate signage to ensure the access within the fenced zone is limited to maintenance activities such as grass cutting.	Prior to the quarrying of Precinct C	Complies	
		Traffic is to be directed around the small mound at the Grants Rd RE 2 site to ensure minimal disturbance.	Continuous	complies	
		An additional monitoring site visit be undertaken to review the recommendations effectiveness to protect the site.	12 months after the project approval		
		The quarry operator to develop and implement an Aboriginal Cultural Heritage Induction Program for all personnel associated with the quarry operations. A register is to be kept of staff/contractors that have been inducted.	Prior to the commencement of the quarry extensions	complies	
		Should any materials suspected of being of Aboriginal occupation origin be located during the quarry operations that work cease in that location immediately and that the Office of Environment & Heritage be contacted immediately.	For the life of the quarry	Systems in place	
14	Visual Impact	noting that the current conditions of consent requires the use of Kikuyu grass for the stabilisation of stockpiles.	For the life of the quarry	complies	
		Maintain grass covered mounds.	For the life of the quarry	complies	
		Maintain the site.	For the life of the quarry	complies	
		Keep the site clean and tidy where possible.	Continuous	complies	
		Progressively revegetate all areas where quarrying is completed.	Upon completion of quarrying in a precinct	not yet triggered	
15	Bushfire Protection	Provision of an on-site mobile water pump and tank, with firefighting hose connections to be located on site.	For the life of the quarry	complies	
		Management of the site to provide a defendable space to the bushfire hazard. These areas are to be regularly inspected and maintained by the landowners.	For the life of the quarry	complies	
		Ensure all general waste / garbage is removed by a licensed waste collection contractor at least on a weekly basis.	Continuous	complies	
		Preparation of a waste management plan for the demolition of any structures.	Prior to demolition.	not yet triggered	
	Mine Rehabilitation	Ensure completed areas of the quarry are revegetated to reduce sedimentation and erosion and dust emissions and visual impact.	As required	not yet triggered	
		Preparation of a quarry rehabilitation plan to identify staging for rehabilitation.	Within five years of commencement of the quarry extension	not yet triggered	
		A detailed decommissioning plan will be prepared as part of the review of the Environmental Management Plan.	Towards the end of the life of the Quarry (two years prior)	not yet triggered	
		A five year monitoring program to be implemented upon completion of the rehabilitation.	Five years after the rehabilitation.	not yet triggered	

NOISE COMPLIANCE ASSESSMENT			2018
Applicable Meteorological Conditions	1	The noise criteria in Table 2 is to apply under all meteorological conditions except the following:	Compliant
		a) during periods of rain or hail; or	Compliant
		b) wind speeds greater than 3 m/s measured at 10 m above ground level.	Compliant
Determination of Meteorological Conditions	2	Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station in the vicinity of the site.	Compliant
Compliance Monitoring	3	Attended monitoring is to be used to evaluate compliance with the relevant conditions of this approval.	Compliant
		Unless otherwise agreed with the Secretary, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time), in particular the requirements relating to:	Compliant
		a) monitoring locations for the collection of representative noise data;	Compliant
		b) meteorological conditions during which the collection of noise data is not appropriate;	Compliant
		c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and	Compliant
		d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.	Compliant

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Appendix C

Independent Environmental Audit Grants Road Quarry

This audit was commissioned by Grants Road Pty Limited to fulfil its statutory obligations under Schedule 5 Item 9 of the Project Approval issued by the Department of Planning for the Grants Road Quarry Extension.

“By 30 June 2015 and every 3 years thereafter, unless the Secretary 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 a 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 assess whether it is complying with the requirements in this approval and any relevant EPL or necessary water licences for the project (including any assessment, strategy, plan or program required under these approvals);
- (d) review the adequacy of any strategy/plan/program required under this approval; and, if necessary,
- (e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy/plan/program required under this approval.”

Legal Requirements

Protection of the Environment Operations Act 1997 Chapter 6 Clause 177 Offences

(1) False or misleading information to auditor: A person who provides information to an environmental auditor in connection with a mandatory environmental audit, knowing the information to be false or misleading in a material respect, is guilty of an offence.

(2) Information not provided to auditor: The holder of a licence who fails to provide information to an environmental auditor in connection with a mandatory environmental audit being carried out in relation to the licence, knowing the information to be materially relevant to the audit, is guilty of an offence.

(3) False or misleading information in audit report: An environmental auditor who includes information in an audit report produced to the appropriate regulatory

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authority in connection with a mandatory environmental audit, knowing the information to be false or misleading in a material respect, is guilty of an offence.

(4) Information not included in audit report: An environmental auditor who fails to provide information in an audit report produced to the appropriate regulatory authority in connection with a mandatory environmental audit, knowing the information to be materially relevant to the audit, is guilty of an offence.

(5) Retention of audit documentation: The holder of a licence who:

(a) fails to retain any written documentation required to be prepared by the holder in connection with a mandatory environmental audit for a period of at least 5 years after the audit report concerned was produced to the appropriate regulatory authority (or such other period as is prescribed by the regulations), or

(b) fails to produce during that period any such documentation to the appropriate regulatory authority on request, is guilty of an offence.

Maximum penalty:

- in the case of a corporation-\$250,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the offence continues, or
- in the case of an individual-\$120,000 and, in the case of a continuing offence, a further penalty of \$60,000 for each day the offence continues.

Audit Programme

A draft audit programme has been prepared. A list of documents has been requested from Grants Road. These will be reviewed by the auditor. The audit programme may be altered by the audit team during the course of the audit dependent on the findings at the time.

The audit will be conducted at Grants Road Quarry on 17 October 2018. The audit will consist of viewing documents and records that are mentioned in the audit program, interviews with Grants Road staff that are familiar with the business/environmental systems and a site tour. You are encouraged to provide other lines of evidence to demonstrate compliance if the requested lines of evidence cannot be produced on the day. If existing lines of evidence cannot be produced on the day you will be given five additional working days to produce them.

Following the site visit a closing meeting will be held between Grants Road Quarry staff and the auditor. At the meeting, a preliminary audit result will be presented and follow up activities to the audit will be discussed.

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Appendix D

Doc Ref No	Document name	Document Type	Date	From	To	Summary
1	Grants Road sand quarry MP_0099 Project Approval	Email	31/8/14	GRSQ VC	DPE JE	Seeking approval of consultants (attached doc 2)
2	140831A DPE Ltr Grants Road	Pdf letter	31/8/14	GRSQ VC	DPE JE	Seeking approval of consultants
3	GRSQ MP_0099 Project Approval Survey Plan	Email	25/9/14	GRSQ VC	DPE JE	Attaching info incl survey plan to address condition 16 (attached doc 4)
4	140925A DPE Ltr grants Road Survey	Pdf letter	25/9/14	GRSQ VC	DPE JE	Survey by Stephen Thomas & Associates
5	GRSQ MP_0099 Project Approval Survey Plan	Email	29/9/15	DPE JE	GRSQ VC	Satisfied meets condition 16 of schedule 2
6	Grants Road Sand Quarry_ condition 33	Email	29/10/14	GRSQ VC	DPE BL	Email forwarding letter addressing condition 33 (attached doc 7)
7	141029A DPE Ltr Grants Road Condition 33	Pdf letter	29/10/14	GRSQ VC	DPE BL	Condition 33 request to import ENM/VENM
8	GRSQ MP08_0099 Environmental Management Plan	Email	19/11/14	GRSQ VC	DPE BL	Request extension of time for EMP & Water MP (attached doc 9)
9	141119B Ltr GRSQ 080099 EMP	Pdf letter	19/11/14	GRSQ VC	DPE BL	Request for 2 month extension for EMP & Water MP
10	Grants Road Sand Quarry_ condition 33	Email	16/12/14	GRSQ VC	DPE BL	Understand approval not given so need exemption (attached doc 11 & 7)
11	Ex12excavatednaturalmaterial	Pdf document		GRSQ VC	DPE BL	Copy of ENM 2012 specification

Doc Ref No	Document name	Document Type	Date	From	To	Summary
12	GRSQ MP080099 Management Plans	Email	19/11/14	GRSQ VC	DPE BL	Attached management plans for noise (doc 14), Air Quality (doc 15), Traffic (doc 16), Heritage (doc 17) for DPE approval
13	141119A DPE Ltr GRSQ 080099 MP	Pdf letter	19/11/14	GRSQ VC	DPE BL	Letter advising management plans attached
14	GRSQ MP080099 Noise MP	pdf report	Oct 14	GRSQ (Atkin Acoustics)	DPE BL	Noise MP
15	GRSQ MP080099 Air Quality MP	Pdf report	3/11/14	GRSQ (Pacific Environment)	DPE BL	Air Quality Management Plan
16	GRSQ MP080099 Traffic MP	Pdf report		GRSQ (Steven Jones GRSQ)	DPE BL	Traffic MP
17	GRSQ MP080099 Environmental Management Plan	Email	16/12/14	DPE DL	GRSQ VC	Dept response to request (attached doc 18)
18	3236_001	Pdf letter	16/12/14	DPE BL	GRSQ VC	Extension of time for EMP & Water MP to 28/2/15 and agreed VENM/ENM as per resource recovery exemption
19	GRS MP080099 environmental Management Plan	Email	2/3/15	GRSQ VC	DPE VC	Missed 28/2/15 deadline but submission will occur by 4/3/15
20	GRSQ MP080099	Email	4/3/15	GRSQ VC	DPE HR	Attached EMP and associated MPs (attach doc 21 and

Doc Ref No	Document name	Document Type	Date	From	To	Summary
	Environmental Management Plan Email 1 of 2					22)
21	150304A GRSQ MP080099_Environmental Management plan	Pdf report	March 15	PAA design		EMP
22	150304A GRSQ MP080099_ Appendices 1-5	Pdf				Appendix 1 Plan of Approved Limits of Extraction Appendix 2 GW Management Plan Appendix 3 SW Management Plan Appendix 4 Noise Management Plan Appendix 5 Air Quality Management Plan
23	15034A GRSQ MP080099_Appendices 6-7	Email	4/3/15	GRSQ VC	DPE HR	Email 2 of 2 (see doc 20) Appendices 6-7 appendix 6 Traffic Management Plan Appendix 7 Aboriginal Cultural Heritage
24	Grants Road Sand Quarry MP08_0099	Email	22/4/15	DPE BL	GRSQ VC	Attached is departments response to email (attached doc 25)
25	4039_00	Pdf letter	22/4/15	DPE BL	GRSQ VC	Re: VENM/ resource recovery exemption
26	GRSQ MP080099 Grants Rd Maintenance report	Email	1/4/15	GRSQ VC	DPE BL	Attach letter requesting extension for Grants Rd Maintenance report (doc 27)
27	150331A DPE Ltr GRSQ 080099 Granst Rd main	Pdf letter	31/3/15	GRSQ VC	DPE BL	Request for extension of maintenance report
28	GRSQMP080099 Grants Road Maintenance report	Email	22/4/15	DPE BL	GRSQ VC	Response to correspondence attached (doc 29)

Doc Ref No	Document name	Document Type	Date	From	To	Summary
29	4004_001	Pdf letter	16/4/15	DPE BL	GRSQ VC	Extension to road maintenance report approval until 31/5/15
30	SY140135 Grants Rd, Somersby_Road Condition Assessment and Road Contributions Study_ Hanson Sands Quarry MP 08_0173- Grants Road Sand Quarry MO_080099	Email	9/7/15	BRS DH	DPE JE cc GRSQ VC	Attached documents <ul style="list-style-type: none"> - Road condition assessment (doc 31) - Road contribution study (doc 32) - Gosford City Council response (doc 33)
31						Road Condition assessment
32						Road Contribution study
33	33 GCC response	Email	8/7/15	GCC	BRS DH	GCC – “all seems OK”
34	SY140135 Grants Rd, Somersby_Road Condition Assessment and Road Contributions Study_ Hanson Sands Quarry MP 08_0173- Grants Road Sand Quarry MO_080099	Email Email Email	10/7/15 13/7/15 15/7/15	DPE JE GRSQ DPE JE	GRSQ VC DPE JE GRSQ VC	Confirming GRSQ operators endorse Road condition assessment and contribution study. Attached approval (doc 35)
35	Grants Rd Study_Approval_Signed	Pdf letter	15/7/15	DPE	GRSQ VC	Signed approval of study (doc 29)
36	MP08_0099 Grants Road Sand Quarry_ Environmental Audit request for Extension	Email	9/7/15	GRSQ VC	DPE	Request for extension of completion of environmental audit (doc 37)
37	150709A DPE Ltr GRSQ	Pdf letter	9/7/15	GRSQ VC	DPE	Request for extension of completion of environmental

Doc Ref No	Document name	Document Type	Date	From	To	Summary
	080099 Grants Rd Audit					audit
38	MP08_0099 Grants Road Sand Quarry Environmental Audit request for extension	Email	10/7/15	DPE	GRSQ VC	Granting of extension of time to submit IEA attach (doc 39)
39	Extension of time_approval_signed	Pdf letter	10/7/15	DPE	GRSQ VC	Extension of time to perform IES to 30/8/15
40	Grants Road Sand Quarry	Email	29/7/15	GRSQ VC	JME JM	EMP and MPs not yet approved
41	Grants Rd Sand Quarry - Remediation plan	Email	3/8/15 4/8/15	GRSQ VC DPE JE	DPE JE GRSQ VC	Email advising that remediation plan is not yet complete
42	Grants Road Sand Quarry - Remediation Plan request for extension	Email	4/8/15	GRSQ VC	DPE JE	Email requesting extension for submission of remediation plan
43	150804A DPE Ltr GRSQ 080099 Rehabilitation Plan	Pdf letter	4/8/15	GRSQ VC	DPE JE	Letter requesting extension of time to submit rehabilitation and landscape plan to 31/8/15
44	2014-2015 tonnage sales	Excel spreadsheet	29/9/2015	GRSQ LJ	JME JM	Sales report of material sold foe 2014/2015
45	Grants Rd Sand Truck Movements	Pdf	29/9/2015	GRSQ LJ	JME JM	Weighbridge record of truck movements December 2014.
46	Truck Movements by Quarter	Pdf	29/9/2015	GRSQ LJ	JME JM	Weighbridge record of truck movements Jan-June 2015
47	Additional Draft Comments	Word	29/9/2015	GRSQ LJ	JME JM	Draft Audit Comments
48	Construction materials return	Email	29/9/2015	GRSQ LJ	JME JM	DPI acknowledges receipt of annual returns

Doc Ref No	Document name	Document Type	Date	From	To	Summary
49	Grants Road Quarry Extension Project Independent Environmental Audit Consultation with Relevant Agencies	pdf	5/10/2015	Larry Cook	JME JM	Summary of Agency Consultation with Larry Cook (hydrogeologist during the EIS project)
50	MYOB remittance advice	Pdf				Summary of Road Maintenance payments to Gosford City Council
51	DPI Annual Returns	Pdf		DPI	GRSQ	Annual returns and acknowledgement of receipts by DPI for 2015-2017
52	150304B GRSQ Environmental Management Plan	Pdf	17/05/2018			Revised EMP

53	AEMR 2015-2017	Pdf				Annual Environmental Management Reviews
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Legend -

Company	Employee	Abbreviation
Grants Rd Sand Quarry	Vanessa Colclough	GRSQ VC
Department of Planning & Environment	Jessie Evans	DPE JE
	Brendon Liew	DPE BL
	Howard Reed	DPE HR
Barker Ryan Stewart	Daniel Hartshorn	BRS DH
JM Environments	James McMahon	JME JM

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Appendix E



Photograph 1: Imported ENM. The material matched the description in the corresponding ENM Certification letter



Photograph 2: Main quarry void



Photograph 3: Sedimentation Dam. Dirty water can be seen flowing in on the central right of the photo. Clean water can be seen on the left.



Photograph 4: Sedimentation fencing along the active quarry boundary



Photograph 5: Double fenced heritage location with stone wall protection at the rear and right.



Photograph 6: Recently constructed pollution control dam which collects run off from the former chicken farm.



Photograph 7: Clean water offsite discharge



Photograph 8: Typical extent of quarrying survey peg.

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Appendix F

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6: #Nrrnh#v#F rrvv#K l#Q VZ #5633#
375: #<6#9;#
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6: #Nrrnh#v#Frrnv#K l#QVZ #5633#
375: #<6#9; #
z z z 1p hqylurqp hqw1frp