

Grants Road Quarry

Environmental Audit

2015



Prepared by

A handwritten signature in black ink, appearing to read 'James McMahon'.

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Principal Environmental Scientist

JME15079 Grants Road Quarry
Environmental Audit

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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.

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

The Environmental Management Plan (and sub-plans) (the EMP) were submitted to the Department for approval 4 days later than the agreed extended due date. 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 be addressed in the AQMP and implemented as soon as practicable.

The auditor understands that the "Trencor" plant has been removed from the quarry thereby abating some of the noise concerns. It is recommended that noise monitoring is recommenced as soon as practicable.

The auditor recommends that the extension works are not commenced until approval for the EMP and other associated documents are approved by the Department and implemented by GRSQ. Until such time the quarry must comply with the current approval issued by Gosford City Council.

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1 INTRODUCTION

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1.1 GRANTS ROAD QUARRY

The Grants Road Quarry (the quarry) has operated from September 2000. It is currently operating under Deferred Development Consent DA 22952/1998 (5 July 2000), issued by Gosford City Council and most recently 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 3013) (the EA). The approval was granted by the Department of Planning for the quarry extension on 25 July 2014.

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 Audit (EA);
- review the Statement of Commitments (SoC);
- review the Conditions of Approval CA;
- 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 audit team'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 CHECKLIST

An audit checklist 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).

4.2 AUDIT OPENING MEETING

An opening meeting was held at the residence of Leanne and Steve Jones Grants Road Somersby, on 13 August 2015. The purpose of the meeting was to introduce the audit team 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 audit team (Dr McMahon,), the auditee representatives (Steve Jones (Quarry Manager), Leanne Jones (Director) and Graham Jones (Director)) were present at the opening meeting.

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

4.3 AUDIT DOCUMENTS

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

4.4 SITE VISIT

A site visit was conducted by members of the audit team, the auditee's representatives and former quarry manager Mr Rick Winfield on 13 August 2013. 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 B.

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.

Consultations with the relevant agencies are summarised in Table 5.1

Agency	Contact	Relevance	Response summary
NSW EPA	Alexander Beavis	Noise	No known issues with noise
NSW EPA	No contact could be established	Air Quality	No response
Gosford Council	Andrew Vermey	Condition of Grants Road	No response
NSW Office of Water	Hemantha De Silva	Biodiversity (GDEs), Surface water and Groundwater	No Response
NSW Office of the Environment and Heritage	Nicole Davis	Culture and Heritage	Final Report complies with requirements (by phone)

Copies of email responses can be found in Appendix F.

6 AUDIT SUMMARY

An Audit summary is presented in Table 6.1. 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 ten corrective actions and two recommendations.

Table 6.1 Audit Summary Table

Type of Condition	Number of Conditions	Conditions complied with	Conditions not complied with	Conditions not triggered/assessed	Corrective Actions
Administrative	23	9	0	14	0
Noise and Vibration	13	10	3	0	2
Air Quality	17	13	4	0	3
Biodiversity	17	11	0	6	0
Soil and Water Quality	26	23	3	1	3
Meteorological Monitoring	1	1	0	0	0
Transport	19	19	0	0	0
Landscape	34	0	0	34	1
Visual Impact	3	3	0	0	1
Heritage	11	11	0	0	0
Waste Management	5	4	0	1	1
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	90	3	29	1
Reporting & Auditing	9	8	0	1	0
Access to Information	10	3	0	7	0
Statement of Commitments	72	36	2	34	0
Noise Compliance Assessment	10	0	0	10	0

A summary of the corrective actions are presented in Table 6.2

Table 6.2 Corrective Action and Recommendation Summary

Type of Condition	Condition	Corrective Action
Soil and Water	Schedule 3, 4c(i) dot point 1	A site water balance is required to be incorporated into the water management plans.
	Schedule 3, 4c(ii) dot point 1	Surface water flow estimates and measurements are required to be included in the surface water management plan.

Type of Condition	Condition	Corrective Action
	Schedule 3, 4c(ii) dot point 2	More detailed description of the water management system required in the water management plans.
Noise	Schedule 3 8d and 9b dot point 3	Update Noise Management plan to include measures that minimise the noise impacts of the project during meteorological conditions under which the noise limits in the approval do not apply.
	SoC10	Noise reducing measures to be implemented before the quarry extension commences.
	Schedule 3-7 and 8e	Noise monitoring required to be undertaken before the quarry extension commences.
Air	Schedule 3, 11b	AQMP Section 7.2 stipulates an annual review of dust monitoring data. The auditor does not consider this is regular enough for a six day monitoring cycle of PM ₁₀ .
	Schedule 3, 11c and 12 b dot point 3	Update AMQP to include protocols for adverse meteorological conditions and extraordinary events.
	Schedule 3, 2c	Dust deposition gauges and Total Suspend Particulates monitoring have not been considered in AQMP.
Traffic	Schedule 5 2c, 2g dot point 1 and 2h	Required elements to be added to Grants Road Quarry Traffic Management Plan

7 CONCLUSION

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

The Environmental Management Plan (and sub-plans) (the EMP) were submitted to the Department for approval 4 days later than the agreed extended due date. 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 be addressed in the AQMP and implemented as soon as practicable.

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Appendix A



Planning & Environment

**Planning Services
Resource Assessments & Compliance**
Contact: Jessie Evans
Phone: 9228 6419
Fax: 9228 6466
Email: jessie.giblett@planning.nsw.gov.au

Ms Vanessa Colclough
Director
Peter Andrews & Associates Pty Ltd
PO Box 494
TERRIGAL NSW 2260

Dear Ms Colclough

**Grants Road Sand Quarry (MP 08_0099)
Independent Environmental Audit
Auditor Approval**

I refer to your letter dated 28 July 2015, seeking the Secretary's approval of a suitably qualified person to undertake the Independent Environmental Audit for the Grants Road Sand Quarry in accordance with condition 9 of Schedule 5 of the project approval.

The Department has considered the information supplied concerning the qualification and experience of Mr James McMahon of JM Environments and would like to advise you that the Secretary has approved his appointment.

If you require any further information, please contact Jessie Evans.

Yours sincerely

Howard Reed
Director Resource Assessments
As nominee of the Secretary

29.7.15

Appendix B

THE AUDIT CHECKLIST

Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	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.		Quarrying in the extension area has not commenced/Not triggered	
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.		Quarrying in the extension area has not commenced/Not triggered	
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.		Quarrying in the extension area has not commenced/Not triggered	
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.		Noted	
2	6	LIMITS ON APPROVAL	Quarrying Operations	The Proponent may carry out quarrying operations on the site until 30 June 2044		Noted	
2	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	Viewed sale sheet for financial year 2014/15 45,627.27 tonnes sold.	
2	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		Not due yet	
2	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.		Not part of this audit scope	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
2	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.		no new buildings	
2	10	Notes		the Proponent is required to obtain construction and occupation certificates for the proposed building works;		no new buildings	
2	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.		No recent demolition	
2	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	The auditee asserts the fee as set out in the MP will be paid to Gosford Council annually for road maintenance. At present the auditee is awaiting correspondence from Gosford Council for the fee to be paid.	
2	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	
2	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	The auditee asserts that the maintenance folders have been updated since the site visit	
2	13b	OPERATION OF PLANT AND EQUIPMENT		all the plant and equipment used at the site is operated in a proper and efficient manner.	47	The auditee asserts that the prestart checklist folders have been updated since the site visit	
2	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		not applicable at this stage	
2	15a	PRODUCTION DATA		provide annual quarry production data to DRE using the standard form for that purpose	48	copy of email correspondence sighted	
2	15b	PRODUCTION DATA		may prepare a revision of or a stage of a strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this approval.		not applicable at this stage	
2	15c	PRODUCTION DATA		report this data in the Annual Review (see condition 4 of Schedule 5).		not applicable at this stage	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
2	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 on 13 August	
2	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	
2	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	
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		The following licences have been obtained: 20BL163145 WAL17440	20BL163145 WAL17440
3	1	SOIL AND WATER	Water Supply	ensure that it has sufficient water for all stages of the project,	22	Complies	
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	Complies	
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.		time sensitivity not discussed	
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	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
3	4	SOIL AND WATER	Water Management Plan	prepare and implement a Water Management Plan for the project	22	Water Management Plan has been prepared	
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	Site water balance not presented. Though required aspects are addressed in sections of the WMP.	A site water balance is required to be incorporated into the water management plans.
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	Clean water to be diverted to the north west. Soil bund is present along the northern boundary.	
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	Surface water quality reported. Surface water flows neither estimated nor measured.	Surface water flow estimates and measurements are required to be included in the surface water management plan.
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	Clean water diversions are mentioned but not described what and where they are. No erosion measures are included in the plan. Sediment control is adequately addressed. Dirty water management is adequately addressed. Pollution Control Dam and Polishing Pond to be constructed.	
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	

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3	4c (ii) dot point 3	SOIL AND WATER	Water Management Plan	SW Plan includes a comparison of monitoring results with modelled predictions	22	Too soon to make comparison	
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	
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	See comment below	
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	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
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	Not included in the GWMP or in the SWMP	
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 Criteria	the construction and operational noise generated by the project does not exceed the criteria in Table 1 at any residence on privately-owned land (LAeq(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 current noise monitoring has been conducted	Noise monitoring required to be undertaken before the quarry extension commences.
3	8a	NOISE	Operating Conditions	Implement best management practice to minimise the construction, operational and road noise of the project.	22	NMP addresses management practices Truck Drivers Code of Conduct address road noise	
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	Noise monitoring is scheduled annually,	
3	8c	NOISE	Operating Conditions	maintain the effectiveness of noise suppression equipment on plant and equipment on site;	22	As no noise complaints have been recorded by the quarry the auditor assumes that this item has been addressed.	

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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	Not included in NMP	Update Noise Management plan to include measures that minimise the noise impacts of the project during meteorological conditions under which the noise limits in the approval do not apply.
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	Noise monitoring is scheduled annually, however no current noise monitoring has been undertaken.	Noise monitoring required to be undertaken before the quarry extension commences.
3	9	NOISE	Noise Management Plan	prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary.	22	NMP submitted in March 2015. Approval is not yet received	
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		Prepared in consultation with the EPA (who declined to comment). Submitted March 2015 with no comment from Department of Planning.	
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	"minimise the noise impacts of the project during meteorological conditions under which the noise limits in this approval do not apply" are not discussed in NMP.	Update Noise Management plan to include measures that minimise the noise impacts of the project during meteorological conditions under which the noise limits in the approval do not apply.
3	9c	NOISE	Noise Management Plan	NM Plan must describe the proposed noise management system	22	Although not specifically named the "Noise Management System" the auditor assumes that the seven dot points on pages 3 and 4 of the NMP satisfies this condition	
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	

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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;	22	AQMP Section 7.2 stipulates an annual review if dust monitoring data. The auditor does not consider this is regular enough for a six day monitoring cycle of PM10. The auditor understands the monitoring criterion is a rolling yearly average.	
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.	
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 monitoring the servicing of vehicles however these were nor up to date at the time of the site visit. Auditee asserts these have been updated following the site visit.	

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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.	
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.		PM10 monitoring conducted on a six day cycle. Dust deposition guages and Total Suspended Particulates monitoring have not been considered.	
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 submitted in March 2015. No approval from DP as yet.	
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	No evidence of consultation with EPA in AQMP.	
3	12b dot point 1	AIR QUALITY	Air Quality Management Plan	describe the measures that would be implemented to ensure: • 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	• 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	• 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	Update AQMP to include protocols for adverse meteorological conditions and extraordinary events.

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						are impacts from adverse weather event but not how to minimise them.	
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	HVAS is situated across breeze from the dominant easterly wind (3 of 4 seasons). Hence any exceedance during spring summer and autumn can be discounted according to the protocol. The auditor concedes that installation of a HVAS west of the site may produce more relevant data but there are no sensitive receptors west of the site. Some discussion is required on how the HVAS location was chosen. Dust deposition gauges and Total Suspended Particulates monitoring have not been considered in the AMQP.	
3	12d dot point 2	AIR QUALITY	Air Quality Management Plan	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • effectively supports the air quality management system; and 	22	Complies	
3	12d dot point 4	AIR QUALITY	Air Quality Management Plan	<ul style="list-style-type: none"> • evaluates and reports on the adequacy of the air quality management system. 	22	Complies	

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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: • 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	
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	
3	16b	TRANSPORT	Grants Road Maintenance	be undertaken in consultation with Council;	31	Complies	

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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	The auditee asserts the fee as set out in the MP will be paid to Gosford Council annually for road maintenance. At present the auditee is awaiting correspondence from Gosford Council for the fee to be paid.	
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	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
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		Complies	
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		Complies	
3	20b	BIODIVERSITY	Offsets	remediation measures implemented by the Proponent have failed to satisfactorily remediate the impact or environmental consequence;		Complies	
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.		Complies	
3	21	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management Program	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	Based on review of a letter provided by Larry Cook and Associates it appear that assessing the groundwater within the GDEs is impractical from an access point of view. Consultation with NOW was unable to establish what additional studies could be undertaken. It is auditors recommendation that Condition 21 is altered that monitoring of GDEs be limited to floristic surveys. Given the proximity of the Hanson Quarry (~700m north) it is not practical to assign monitoring of GDEs within 1km without an understanding of the cumulative and proprtional effect each quarry has on the local GDEs.	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
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	Complies	Larry Cook
3	21b	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management Program	(b) long-term monitoring of the condition of the GDEs;	49	Complies	
3	21c	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management Program	(c) performance indicators for project-related environmental consequences on GDEs and trigger levels to initiate mitigation/response measures; and	49	Complies	
3	21d	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management Program	(d) mitigation/response measures to ensure minor environmental consequences on the GDEs,	49	Complies	
3	21	BIODIVERSITY	Groundwater Dependent Ecosystem Monitoring and Management Program	to the satisfaction of the Secretary.	49	Complies	
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:		Report is waiting for October flowering event	
3	22a	BIODIVERSITY	Somersby Mintbush Monitoring and Management Program	a baseline assessment of the extent and condition of the Somersby Mintbush populations before commencement of quarrying operations under the approval;		Report is waiting for October flowering event	
3	22b	BIODIVERSITY	Somersby Mintbush Monitoring and Management Program	long-term monitoring of these populations;		Report is waiting for October flowering event	
3	22c	BIODIVERSITY	Somersby Mintbush Monitoring and Management Program	establishment of performance indicators for project-related environmental consequences on Somersby Mintbush and trigger levels to initiate mitigation/response measures;		Report is waiting for October flowering event	
3	22d	BIODIVERSITY	Somersby Mintbush Monitoring and Management Program	mitigation/response measures to ensure negligible environmental consequences on the Somersby Mintbush, to the satisfaction of the Secretary.		Report is waiting for October flowering event	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
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.		Nest boxes ordered	
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.		Either caveat on the sale property is required or the biodiversity offset areas could subdivided and rezoned as environmental corridor (or similar) or a conservation bond should be paid	Not triggered
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	
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	
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:		Plan not provided at the time of the audit	Not triggered
3	27a	LANDSCAPE	Landscape and Rehabilitation Management Plan	(a) be prepared by suitably qualified person(s) whose appointment has been approved by the Secretary;		Plan not provided at the time of the audit	Not triggered
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;		Plan not provided at the time of the audit	Not triggered
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;		Plan not provided at the time of the audit	Not triggered
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: <ul style="list-style-type: none"> manage the remnant vegetation and habitat on the site and in the offset areas; 		Plan not provided at the time of the audit	Not triggered

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3	27d dot point 2	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> implement the biodiversity offset strategy; and 		Plan not provided at the time of the audit	Not triggered
3	27d dot point 3	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> ensure compliance with the rehabilitation objectives and the progressive rehabilitation obligations in this approval; 		Plan not provided at the time of the audit	Not triggered
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;		Plan not provided at the time of the audit	Not triggered
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: <ul style="list-style-type: none"> enhancing the quality of remnant vegetation and fauna habitat; 		Plan not provided at the time of the audit	Not triggered
3	27f dot point 2	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> landscaping the site and along public roads to minimise visual and lighting impacts; 		Plan not provided at the time of the audit	Not triggered
3	27f dot point 3	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> restoring native endemic vegetation and fauna habitat; 		Plan not provided at the time of the audit	Not triggered
3	27f dot point 4	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> maximising the salvage of environmental resources within the approved disturbance area – including tree hollows, vegetative and soil resources – for beneficial reuse; 		Plan not provided at the time of the audit	Not triggered
3	27f dot point 5	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> ensuring minimal environmental consequences for threatened species, populations and habitats; 		Plan not provided at the time of the audit	Not triggered
3	27f dot point 6	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> minimising the impacts on native fauna, including undertaking pre-clearance surveys; 		Plan not provided at the time of the audit	Not triggered
3	27f dot point 7	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> controlling weeds and feral pests; 		Plan not provided at the time of the audit	Not triggered

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3	27f dot point 8	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> controlling erosion; 		Plan not provided at the time of the audit	Not triggered
3	27f dot point 9	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> controlling access; and 		Plan not provided at the time of the audit	Not triggered
3	27f dot point 10	LANDSCAPE	Landscape and Rehabilitation Management Plan	<ul style="list-style-type: none"> bushfire management; 		Plan not provided at the time of the audit	Not triggered
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;		Plan not provided at the time of the audit	Not triggered
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		Plan not provided at the time of the audit	Not triggered
3	27i	LANDSCAPE	Landscape and Rehabilitation Management Plan	(i) include details of who would be responsible for monitoring, reviewing and implementing the plan.		Plan not provided at the time of the audit	Not triggered
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:		Copy of the bond not provided with audit	Not triggered
3	28a	LANDSCAPE	Conservation and Rehabilitation Bond	(a) calculating the cost of implementing the biodiversity offset strategy over the next 3 years;		Copy of the bond not provided with audit	Not triggered
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		Copy of the bond not provided with audit	Not triggered

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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.		Copy of the bond not provided with audit	Not triggered
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. 		Copy of the bond not provided with audit	Not triggered
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. 		Copy of the bond not provided with audit	Not triggered
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. 		Copy of the bond not provided with audit	Not triggered
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:		Not triggered/not applicable	
3	29a	LANDSCAPE	Conservation and Rehabilitation Bond	consider the performance of the implementation of the rehabilitation of the site to date;		Not triggered/not applicable	
3	29b	LANDSCAPE	Conservation and Rehabilitation Bond	consider the effects of inflation; and		Not triggered/not applicable	
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.		Not triggered/not applicable	
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	

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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	The auditor considers that this is not possible to assess at this stage.	
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	Septic system not sited during site visit.	
3	32d	WASTE MANAGEMENT		(d) report on waste management and minimisation in the Annual Review,		Not triggered/not applicable	
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.		No VENM has been imported at this stage or no documentation has provided if it has.	
	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	

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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	
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	
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	
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	
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	
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	
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	
4	2b	INDEPENDENT REVIEW		(b) give the Secretary and landowner a copy of the independent review.		Not triggered/not applicable	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	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:	21	Complies	
5	1a	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(a) be submitted to the Secretary for approval by the end of November 2014;	21	Complies	
5	1b	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(b) provide the strategic framework for environmental management of the project;	21	Complies	
5	1c	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(c) identify the statutory approvals that apply to the project;	21	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;	21	Complies	
5	1e dot point 1	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	(e) describe the procedures that would be implemented to: <ul style="list-style-type: none"> keep the local community and relevant agencies informed about the operation and environmental performance of the project; 	21	Complies	
5	1e dot point 2	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	<ul style="list-style-type: none"> receive, record, handle, and respond to complaints; 	21	Complies	
5	1e dot point 3	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	<ul style="list-style-type: none"> resolve any disputes that may arise during the course of the project; 	21	Complies	
5	1e dot point 4	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	<ul style="list-style-type: none"> respond to any non-compliance; 	21	Complies	
5	1e dot point 5	ENVIRONMENTAL MANAGEMENT	Environmental Management Strategy	<ul style="list-style-type: none"> respond to emergencies; and 	21	Complies	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations					
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	21	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	21	Complies						
						Noise	Water	Air	Traffic	Biodiversity	Heritage	
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:	21	Complies	Complies	Complies	N/A	Complies		
5	2a	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(a) detailed baseline data;	22-23	Complies	Complies	Complies	N/A	Complies	Complies	
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);	22-23	Approval pending	Approval pending	Approval pending	Approval pending	Approval pending	Approval pending	
5	2b dot point 2	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• any relevant limits or performance measures/criteria;	22-23	Complies	Complies	Complies	Complies	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;	22-23	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;	22-23	Complies	Complies	Complies	Non Compliance	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;	22-23	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);	22-23	Complies	Complies	Complies	N/A	Complies	Complies	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations				
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;	22-23	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;	22-23	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;	22-23	Complies	Complies	Complies	Non Compliance	Complies	Complies
5	2g dot point 2	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• complaints;	22-23	Complies	Complies	Complies	N/A	Complies	Complies
5	2g dot point 3	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	• non-compliances with statutory requirements; and	22-23	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	22-23	Complies	Complies	Complies	N/A	Complies	Complies
5	2h	ENVIRONMENTAL MANAGEMENT	Management Plan Requirements	(h) a protocol for periodic review of the plan.	22-23	Complies	Complies	Complies	Non Compliance	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					
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					

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	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	
5	3c	ENVIRONMENTAL MANAGEMENT	Adaptive Management	(c) implement remediation measures as directed by the Secretary,		Noted/not triggered	
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	
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	
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: <ul style="list-style-type: none"> • relevant statutory requirements, limits or performance measures/criteria; 		Noted/not triggered	
5	4b dot point 2	ENVIRONMENTAL MANAGEMENT	Annual Review	<ul style="list-style-type: none"> • requirements of any plan or program required under this approval; 		Noted/not triggered	
5	4b dot point 3	ENVIRONMENTAL MANAGEMENT	Annual Review	<ul style="list-style-type: none"> • monitoring results of previous years; and 		Noted/not triggered	
5	4b dot point 4	ENVIRONMENTAL MANAGEMENT	Annual Review	<ul style="list-style-type: none"> • relevant predictions in the EA; 		Noted/not triggered	
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	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
5	4d	ENVIRONMENTAL MANAGEMENT	Annual Review	(d) identify any trends in the monitoring data over the life of the project;		Noted/not triggered	
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	
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	
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	
5	5b	ENVIRONMENTAL MANAGEMENT	Revision of Strategies, Plans and Programs	(b) incident report under condition 7 below;		Noted/not triggered	
5	5c	ENVIRONMENTAL MANAGEMENT	Revision of Strategies, Plans and Programs	(c) audit report under condition 9 below; or		Noted/not triggered	
5	5d	ENVIRONMENTAL MANAGEMENT	Revision of Strategies, Plans and Programs	(d) any modification to the conditions of this approval,		Noted/not triggered	
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	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
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	
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	
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	
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	
5	9b	AUDITING	Independent Environmental Audit	(b) include consultation with the relevant agencies;		Complies	
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	
5	9d	AUDITING	Independent Environmental Audit	(d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and		Complies	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
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	
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	
5	11a dot point 2	ACCESS TO INFORMATION		<ul style="list-style-type: none"> the documents referred to in condition 2 of Schedule 2; 		pending approval	
5	11a dot point 3	ACCESS TO INFORMATION		<ul style="list-style-type: none"> all current statutory approvals for the project; 		pending approval	
5	11a dot point 4	ACCESS TO INFORMATION		<ul style="list-style-type: none"> all approved strategies, plans and programs required under the conditions of this approval; 		Complies	
5	11a dot point 5	ACCESS TO INFORMATION		<ul style="list-style-type: none"> 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; 		Not triggered	
5	11a dot point 6	ACCESS TO INFORMATION		<ul style="list-style-type: none"> a complaints register, updated monthly; 		Not triggered	
5	11a dot point 7	ACCESS TO INFORMATION		<ul style="list-style-type: none"> the annual reviews of the project; 		Not triggered	
5	11a dot point 8	ACCESS TO INFORMATION		<ul style="list-style-type: none"> any independent environmental audit, and the Proponent's response to the recommendations in any audit; 		Not triggered	
5	11a dot point 9	ACCESS TO INFORMATION		<ul style="list-style-type: none"> minutes of CCC meetings; 		Not triggered	
5	11a dot	ACCESS TO		<ul style="list-style-type: none"> any other matter required by the Secretary; and 		Not triggered	

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Schedule	Condition number	Category	Sub Category	Condition	Audit Log Document Number	Compliance/Non Compliance	Corrective Actions/Recommendations
	point 10	INFORMATION					
5	11b			(b) keep this information up to date,		Not triggered	
5	11			to the satisfaction of the Secretary.		Not triggered	

Statement of Commitments					
	Subject	Commitments	Timing		Response Comments
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	Not triggered	
3	Statutory Requirements	Obtain and maintain all relevant approvals and licences.	As required and continuous	Complies	
		Comply with all conditional requirements in all approvals and licences.	As required	See Schedule 3 comments	
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	Not triggered	
		Incorporate relevant data/monitoring information in the Annual Reports.	Annually	Not triggered	
		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	Not triggered	

Statement of Commitments					
	Subject	Commitments	Timing		Response Comments
		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	Not triggered but requires to be completed	
		• Operation of plant and equipment		Not triggered but requires to be completed	
		• Environmental monitoring		Not triggered but requires to be completed	
		• Restrictions imposed on quarrying		Not triggered but requires to be completed	
		• Vegetation removal		Not triggered but requires to be completed	
		• Sedimentation and erosion		Not triggered but requires to be completed	
		• Transportation		Not triggered but requires to be completed	
		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	
		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	

Statement of Commitments					
Subject	Commitments	Timing		Response Comments	
	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 triggered		
	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	not yet triggered		

Statement of Commitments					
Subject	Commitments	Timing			Response Comments
	<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. <p>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>	<p>Prior to the commencement of the quarry operations and ongoing</p>	<p>Not triggered but requires to be completed</p>		
	<p>Continue monitoring of surface water at locations W1 and W4</p>	<p>Monitor until stage 2 of the quarry commences.</p>	<p>Complies</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>	<p>Not triggered</p>		

Statement of Commitments					
	Subject	Commitments	Timing		Response Comments
		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. Monthly water monitoring. The parameters will be monitored and compared against the proposed discharge limits as follows: <ul style="list-style-type: none"> • Suspended solids 40mg/L • Oil and grease – 5 and/or none visible • pH – 6.0-8.0 		Not triggered	
9	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 (pending approval)	
		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. 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. 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: <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. 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.	The first 10 years of Stage 2	not yet triggered	

Statement of Commitments					
	Subject	Commitments	Timing		Response Comments
		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.		not triggered	
10	Noise	engines, or localised plant specific shielding*) to achieve the following noise reductions: <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). All reversing alarms replaced with level varying or broadband "quacker" type alarms.	Prior to the use of the plant equipment.	Noise monitoring not undertaken	
		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.	Throughout the life of the quarry.	Complies	
		A Site Operational Management Plan (SOMP) be developed to ensure that the dozer, Trencor and McCloskey do not operate simultaneously.	Throughout the life of the quarry.	Trencor removed from site.	
		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.	not yet triggered	

Statement of Commitments				
Subject	Commitments	Timing		Response Comments
	<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 SOMPs 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, Trencor 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). 	<p>During quarrying of the relevant precincts.</p>	<p>Weather station installed, remainder not triggered</p>	
	<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. <p>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;</p> <ul style="list-style-type: none"> • 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). 	<p>Prior to the commencement of the quarry extensions.</p>	<p>not yet triggered</p>	

Statement of Commitments					
	Subject	Commitments	Timing		Response Comments
		<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	not yet triggered	
11	Air Quality	Preparation of an air quality management plan incorporating PM10 monitoring at the most affected off-site sensitive location.	Annually	Complies	
		<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	

Statement of Commitments					
	Subject	Commitments	Timing		Response Comments
		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.	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.	not yet triggered	
		Incorporate greenhouse gas reduction measures for the operation of the project including: <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	

Statement of Commitments					
	Subject	Commitments	Timing		Response Comments
		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	
		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	not yet triggered	
		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	not yet triggered	
		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 off 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 defensible space to the bushfire hazard. These areas are to be regularly inspected and maintained by the landowners.	For the life of the quarry	complies	

Statement of Commitments					
Subject	Commitments	Timing			Response Comments
	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			
Applicable Meteorological Conditions	1	The noise criteria in Table 2 is to apply under all meteorological conditions except the following:	Not yet triggered
		a) during periods of rain or hail; or	Not yet triggered
		b) wind speeds greater than 3 m/s measured at 10 m above ground level.	Not yet triggered
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.	Not yet triggered
Compliance Monitoring	3	Attended monitoring is to be used to evaluate compliance with the relevant conditions of this approval.	Not yet triggered
		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:	Not yet triggered

NOISE COMPLIANCE ASSESSMENT		
	a) monitoring locations for the collection of representative noise data;	Not yet triggered
	b) meteorological conditions during which the collection of noise data is not appropriate;	Not yet triggered
	c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and	Not yet triggered
	d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.	Not yet triggered

Appendix C

Independent Environmental Audit Ardglen 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 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 Thursday 13 August. 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.

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 for 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)

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

Appendix E



Photograph 1: Weather station and high volume air sampler



Photograph 2: Entrance sign to Grants Quarry



Photograph 3: Example of a spill kit in the vicinity of the diesel storage



Photograph 4: Above ground diesel storage



Photograph 5: Aboriginal heritage item with double fencing



Photograph 6: One of the sedimentation dams



Photograph 7: Quarry pit at the time of the audit visit

Appendix F

James McMahon

From: admin <admin@insiteheritage.com.au>
Sent: Tuesday, 6 October 2015 1:48 PM
To: 'James McMahon'
Subject: RE: ATTN: Liz Wyatt RE: Environmental Audit-Grants Road Sand Quarry Somersby

Hi James

We provided a draft CHMP to Nicole Davis at OEH. OEH requested some further info which we are currently updating for resubmission as a final. Department comments were dealt with via Vanessa McClough – Peter Andrews and Associates.

The appointment of ourselves as suitably qualified was by Jessie Evans for Howard Reed 2/9/2014

Thanks

Angela

From: James McMahon [mailto:james@jmenvironments.com]
Sent: 30 September 2015 16:11
To: 'admin'
Subject: RE: ATTN: Liz Wyatt RE: Environmental Audit-Grants Road Sand Quarry Somersby

Thanks Angela

A Besant (Director) may also be able to help.

Kind Regards

James McMahon
0427 893 668
james@jmenvironments.com



ABN 67 166 341 288

From: admin [mailto:admin@insiteheritage.com.au]
Sent: Wednesday, 30 September 2015 3:58 PM
To: 'James McMahon' <james@jmenvironments.com>
Subject: RE: ATTN: Liz Wyatt RE: Environmental Audit-Grants Road Sand Quarry Somersby

James

Liz is out of the office until Tuesday – she will contact you then

Cheers

Angela

From: James McMahon [mailto:james@jmenvironments.com]
Sent: 30 September 2015 15:37
To: admin@insiteheritage.com.au
Cc: 'Grants Rd Sand'
Subject: ATTN: Liz Wyatt RE: Environmental Audit-Grants Road Sand Quarry Somersby

Hi Liz

I have been engaged by Grants Road Sand Quarry to conduct an Independent Environmental Audit of the Grants Road Quarry Extension Project. Insite prepared the Grants Road Sand Quarry Extension Aboriginal Cultural Heritage Management Plan (Project Approval No. 08_0099)

The audit must include consultation with the relevant agencies. Could you please forward the relevant agency contact(s) you used when preparing your Aboriginal Cultural Heritage Management Plan?.

Kind Regards

James McMahon

0427 893 668

james@jmenvironments.com

JM
ENVIRONMENTS

ABN 67 166 341 288

James McMahon

From: James McMahon <james@jmenvironments.com>
Sent: Tuesday, 6 October 2015 10:50 AM
To: 'Alexander Beavis'
Cc: 'Karen Marler'; 'EPA RSD Hunter Region Mailbox'
Subject: RE: Grants Road Sand Quarry-Independent Environmental Audit

Many thanks
James

From: Alexander Beavis [mailto:Alexander.Beavis@epa.nsw.gov.au]
Sent: Tuesday, 6 October 2015 10:34 AM
To: James McMahon <james@jmenvironments.com>
Cc: Karen Marler <Karen.Marler@epa.nsw.gov.au>; EPA RSD Hunter Region Mailbox <hunter.region@epa.nsw.gov.au>
Subject: RE: Grants Road Sand Quarry-Independent Environmental Audit

Hi James,

I have checked our records and I am not aware of any complaints in relation to noise from Grants Rd Sands EPL 11240 since I was contacted by Atkins acoustics in September 2014.

There have not been any noise exceedances reported. I have conducted two site inspections in the past year in February and September 2015, whilst I did not undertake any noise monitoring during these inspections I did not the noise I observed to be offensive or excessive whilst I was on site.

Hope this is of assistance.

Kind regards,

Alexander Beavis

Regional Operations Officer - Hunter | **NSW Environment Protection Authority** |

☎: 4908 6804 | 📠: 0459 073 885 | 🏠: 4908 6810 |

✉: alexander.beavis@epa.nsw.gov.au

From: James McMahon [mailto:james@jmenvironments.com]
Sent: Wednesday, 30 September 2015 3:24 PM
To: Alexander Beavis
Subject: Grants Road Sand Quarry-Independent Environmental Audit

Hi Alexander,

I have been engaged by Grants Road Sand Quarry to conduct an Independent Environmental Audit of the Grants Road Quarry Extension Project.

The audit must include consultation with the relevant agencies. I understand you were consulted by Atkins Acoustics whilst they prepared the Noise Management Plan for the quarry.

Are you aware of any impacts, complaints or operational matters with relation to noise from Grants Road Quarry that may have arisen since you have been last contacted by Atkins Acoustics?

Thanks in Advance

James McMahon
0427 893 668
james@jmenvironments.com



ABN 67 166 341 288

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL