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Annexure 1: Development Consent 94-4-2004

Annexure 2: Monitoring Data and Reports

Annexure 3: Annual Independent Groundwater

**Audit 2012** 

Annexure 4: Community Consultative Committee

**Meeting Minutes** 

Annexure 5: Complaints Register

Annexure 6: Rehabilitation Monitoring Report

Annexure 7: Compliance Schedule for Relevant

**Development Consent Conditions for Calga** 

Sand Quarry Activities during 2012

Annexure 8: Noxious Weed Report and Threatened Plant

Monitoring Report – Cumberland Ecology

February 2012

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# Development Consent 94-4-2004

(Total No. of pages including blank pages = 20)

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### **Development Consent**

#### Section 80 of the Environmental Planning and Assessment Act 1979

I, the Minister for Planning, approve the Development Application referred to in Schedule 1, subject to the conditions in Schedules 2 to 5.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the on-going environmental management of the development.

#### SIGNED

#### Frank Sartor, MP Minister for Planning

Sydney	28 October	2005	S03,00976		
SCHEDULE	1				
Development Application:		DA 94-4-2004.	DA 94-4-2004.		
Applicant:		Rocla Materials Pty Limited (ABN: 30 083 169 091).			
Consent Aut	thority:	Minister for Planning.			
Land: Lot 2 in DP 229889,		Peats Ridge Road, Calga.			
Proposed De	evelopment	Calga Sand Quarry Extension (Stage 3).			
State Significant Development:		The proposal is classified as State significant development under section 76A(7) of the Environmental Planning and Assessment Act 1979, as it meets the criteria specified in a declaration made by the Minister on 3 August 1999.			
Integrated Development:		The proposal is classified as integrated development under section 91 of the Environmental Planning and Assessment Act 1979, as it requires additional approvals under the:  • Water Act 1912; and  • Protection of the Environment Operations Act 1997.			
Designated Development		The proposal is classified as designated development under section 77A of the <i>Environmental Planning and Assessment Ac</i> 1979, as it is for an extractive industry that meets the criteria in schedule 3 of the <i>Environmental Planning and Assessmen Regulation</i> 2000.			
Note:					

- To find out when this development consent becomes effective, see section 83 of the Environmental Planning and Assessment Act 1979 (EP&A Act);
- To find out when this development consent is liable to lapse, see section 95 of the EP&A Act; and To find out about appeal rights, see section 97 of the EP&A Act.



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#### **DEFINITIONS**

**AEMR** Annual Environmental Management Report

Report titled Amendment to a Proposal Submitted as Development Application (DA 94-4-2004) for an Extension to the Calga Sand Quarry, Amendment Report

dated June 2005

Rocla Materials Pty Limited, or its successors Building Code of Australia Applicant

Bore Any bore or well or excavation or other work connected or proposed to be

connected with sources of sub-surface water, and used or proposed to be used or capable of being used to obtain supplies of such water whether the water flows naturally at all times or has to be raised whether wholly or

at times by pumping or other artificial means

CCC Community Consultative Committee

Council Gosford City Council DA

Development Application
The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Day

Sundays and public holidays

DEC Department of Environment and Conservation

Department Department of Planning

Director-General Director-General of the Department of Planning, or delegate

DNR Department of Natural Resources DPL Department of Primary Industries EIS Environmental Impact Statement

EP&A Act Environmental Planning and Assessment Act 1979 Environmental Planning and Assessment Regulation 2000 EP&A Regulation

Evening The period from 6pm to 10pm GTA

General Term of Approval
Land means the whole of a lot in a current plan registered at the Land Land

Titles Office at the date of this development consent

Minister Minister for Infrastructure and Planning, or delegate

Night The period from 10pm to 6am on Monday to Saturday, and 10pm to 8am

on Sundays and Public Holidays Land/bore that is not owned by a public agency, a quarrying company or Privately-owned land/bore

its subsidiary

RTA

Roads and Traffic Authority Time interval from 6am to 7am, Mondayto Saturday Shoulder

Land to which the DA applies Site

The quarry staging described in the Amendment Report, including the ongoing use Stage 3

of Stages 1 and 2

R. W. CORKERY & CO. PTY. LIMITED A1 - 5

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#### SCHEDULE 2 2. GENERAL ADMINISTRATIVE CONDITIONS

#### Obligation to Minimise Harm to the Environment

The Applicant shall implement all practicable measures to prevent and/or minimise any harm to the
environment that may result from the construction, operation, or rehabilitation of the development.

#### Terms of Approval

- 2. The Applicant shall carry out the development in accordance with the:
  - a) DA 94-4-2004;
  - EIS titled Environmental Impact Statement for the Proposed Calga Sand Quarry Extension, dated May 2004;
  - c) Amendment Report titled Amendment to a Proposal Submitted as Development Application (DA 94-4-2004) for an Extension to the Calga Sand Quarry, dated June 2005; and
  - d) conditions of this development consent.
- If there is any inconsistency between the above, the most recent document or the conditions of this consent shall prevail to the extent of the inconsistency.
- The Applicant shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of.
  - a) any reports, plans or correspondence that are submitted in accordance with this development consent; and
  - b) the implementation of any actions or measures contained in these reports, plans or correspondence.

#### Limits on Approval

This consent shall lapse on 1 July 2030.

Note: Conditions of this consent in ay require activities to be carried out by the Applicant beyond the period of approval for extraction, processing and rehabilitation on the site.

- This consent is granted for Stage 3 only, as described in the Amendment Report, and shown conceptually on the plan in Appendix 1.
- 7. The Applicant shall not transport more than 400,000 tonnes of product per year from the site.

#### Structural Adequacy

 The Applicant shall ensure that any new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

#### Notes:

- Under Part 4A of the EPSA Act, the Applicant is required to obtain construction and occupation certificates for any building works.
- Part 8 of the EP8A Regulation sets out the detailed requirements for the certification of development.

#### Demolition

 The Applicant shall ensure that all demolition work is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.

#### Protection of Public Infrastructure

- 10. The Applicant shall:
  - a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and
  - relocate, or pay the full costs associated with relocating any public infrastructure that needs to be relocated as a result of the development.

#### Operation of Plant and Equipment

- 11. The Applicant shall ensure that all plant and equipment at the site, or used in connection with the development, are:
  - a) maintained in a proper and efficient condition; and
  - b) operated in a proper and efficient manner.

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#### SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS

#### GENERAL EXTRACTION AND PROCESSING PROVISIONS

#### Identification of Boundaries

- Prior to carrying out any development, the Applicant shall:
  - engage a registered surveyor to mark out the boundaries of the approved limits of extraction;
  - submit a survey plan of these boundaries to the Director-General; and
  - ensure that these boundaries are clearly marked at all times in a permanent manner that allows C) operating staff and inspecting officers to dearly identify those limits, to the satisfaction of the Director-General.

Note: The limit of extraction includes the area described in the documents listed in condition 2 of schedule 2, and shown conceptually on the plan in Appendix 1.

#### NOISE

#### Impact Assessment Criteria

<sup>1</sup>The Applicant shall ensure that the noise generated by the development does not exceed the criteria specified in Table 1.

Table 1: Noise impact assessment criteria dB(A) Laeq (15 min)

Residential Location	Day	E vening	Night	Night (L <sub>A1(1min)</sub> )
CN-1: Gazzana (Residence 3)	41	35	35	45
CN-2: King	40	35	35	45
CN31: Kashouli	39	35	35	45
CN-4: Other residences	35	35	35	45

#### Notes:

- The noise criteria do not apply where the Applicant and the affected landowner have a valid agreement in regard to noise from the development, and a copy of the agreement has been forwarded to the Director-General and DEC. In this case the Applicant may exceed the noise limits in Table 1 in accordance with the noise agreement.
- Noise from the development is to be measured at the most affected point or within the residential boundary, or at the most affected point within 30 metres of a dwelling (rural situations) where the dwelling is more than 30 metres from the boundary, to determine compliance with the noise limits in the above table. Where it can be demonstrated that direct measurement of noise from the development is impractical, the DEC may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy). The modification factors in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.
- Noise from the premises is to be measured at 1m from the dwelling façade to determine compliance with the L<sub>KR model</sub> noise limit.
- The criteria above apply to noise emissions under the following weather conditions:

  - wind speed up to 3 m/s at 10m above ground level; or temperature inversion conditions of up to 3 C/100m and wind speed up to 2m/s at 10m above ground level.

#### Land Acquisition

If the noise generated by the development exceeds the criteria in Table 1 by more than 5 dB(A), then the Applicant shall, upon receiving a written request for acquisition from the landowner, acquire the land in accordance with the procedures in conditions 8-10 of schedule 4, unless there is a valid noise agreement between the Applicant and an affected landowner.

#### **Noise Mitigation**

Prior to carrying out any extraction, the Applicant shall construct an acoustic barrier in accordance with the quarry design in the Amendment Report (as reproduced in Appendix 1), to the satisfaction of the Director-General. The construction of the acoustic barrier must be completed within 5 working weeks.



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<sup>&#</sup>x27;Incorporates DEC GTA

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#### **Operating Hours**

<sup>2</sup>The Applicant shall comply with the operating hours in Table 2:

Table 2: Operating Hours

Table 2. Speciality France			
Activity	Day	Time	
Extraction and processing	Monday - Friday	7:00am to 6:00pm	
	Saturday	7:00am to 4:00pm	
	Sunday and Public Holidays	Nil	
Delivery and distribution	Monday – Friday	5:00am to 10:00pm	
	Saturday	5:00am to 4:00pm	
	Sunday and Public Holidays	Nil	
Maintenance (if inaudible at neighbouring residences)	Any day	Anytime	

Note: Construction activities, such as the construction of the acoustic barrier, shall only be carried out between 7:00am to 6:00pm Monday to Friday, and 8:00am to 1:00pm on Saturdays. No construction activities are to be undertaken on Sundays or Public Holidays

- <sup>3</sup>The following activities may be carried out at the premises outside the hours specified in Table 2:
  - the delivery of materials as requested by Police or other authorities for safety reasons; and emergency work to explicit the local of the property of materials as requested by Police or other authorities for safety reasons; and
  - emergency work to avoid the loss of lives, property and/or to prevent environmental harm. In such direumstances the Applicant shall notify DEC and affected residents prior to undertaking the works, or within a reasonable period in the case of emergency.

#### Noise Monitoring Program

Prior to carrying out any development, the Applicant shall prepare, and subsequently implement, a Noise Monitoring Program for the development, in consultation with DEC, and to the satisfaction of the Director-General. This program must include a combination of attended and unattended noise monitoring, and a noise monitoring protocol for evaluating compliance with the noise impact assessment criteria in this consent.

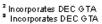
#### AIR QUALITY

#### Impact Assessment Criteria

The Applicant shall ensure that dust generated by the development does not cause additional exceedances of the criteria listed in Tables 3 to 5 at any residence on, or on more than 25 percent of, any privately-owned

Table 3: Long term impact assessment criteria for particulate matter

Pollutant	Averaging period	Criterion
Total suspended particulate (TSP) matter	Annual	90 μg/m³
Particulate matter < 10 µm (PM ₁α)	Annual	30 μg/m³





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Pollutant	Averaging period	Criterion
Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	50 μg/m³

Table 5: Long term impact assessment criteria for deposited dust

Table 4: Short term impact assessment criteria for particulate matter

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	
Deposited dust	Annual	2 g/m²/month	4 g/m²/month	

Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, 1991, AS 3580.10.1-1991; Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposited Matter - Gravimetric Method.

#### Air Quality Monitoring Program

9. \*Prior to carrying out any development, the Applicant shall prepare, and subsequently implement, an Air Quality Monitoring Program for the development, in consultation with DEC, and to the satisfaction of the Director-General. This program must include an air monitoring protocol for evaluating compliance with the air quality impact assessment criteria in this consent.

Note: Initially, this program should concentrate on monitoring the dust deposition impacts of the development. However, in time, it may be expanded to include other pollutants.

#### SURFACE AND GROUNDWATER

Note: The Applicant is required to obtain licences and permits for the development under the Protection of the Environment Operations Act 1997 and the Water Act 1912.

#### Groundwater Impact Assessment Criteria

10. The Applicant shall provide compensatory water supply, in accordance with the Groundwater Contingency Strategy and to the satisfaction of the Director-General, where the development results in a reduction of pumping yield in privately-owned groundwater bores of 10 percent or greater.

#### Notes:

- If the Applicant has a reached a negotiated agreement with an affected landowner in regard to groundwater, and a copy
  of the agreement has been forwarded to the Director-General, then the Applicant may exceed the groundwater impact
  assessment orderia in accordance with the negotiated agreement.
- The Applicant must establish the basis for determining development-related impact in the Groundwater Monitoring Program (see condition 15).
- The Applicant shall establish additional groundwater impact assessment criteria for its groundwater monitoring bores, in accordance with the Groundwater Monitoring Program, to provide advance warning of a potential exceedance of the groundwater impact assessment criteria.

#### Monitoring and Management

- 11. Prior to carrying out any development, the Applicant shall prepare and subsequently implement a Water Management Plan for the development, in consultation with the DNR, and to the satisfaction of the Director-General. This plan must be prepared by a suitably qualified hydrogeologist/hydrologist whose appointment/s have been approved by the Director-General, and shall include:
  - a) a Water Balance;
  - b) an Erosion and Sediment Control Plan;
  - c) a Surface Water Monitoring Program; and
  - d) a Groundwater Monitoring Program.
- 12. The Water Balance shall:
  - include details of all water extracted (including water make), dewatered, transferred, used and/or discharged by the quarry, and
  - b) describe measures to minimise water use by the development.
- 13. The Erosion and Sediment Control Plan shall:
  - be consistent with the requirements of the Department of Housing's Managing Urban Stormwater: Soils and Construction manual;

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<sup>\*</sup>Incorporates DEC GTA

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- b) identify activities that could cause soil erosion and generate sediment;
- describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters:
- d) describe the location, function, and capacity of erosion and sediment control structures; and
- e) describe what measures would be implemented to maintain the structures over time.
- The Surface Water Monitoring Program shall include:
  - detailed baseline data on surface water flows and quality in waterbodies that could potentially be impacted by the quarry,
  - b) surface water impact assessment criteria;
  - a program to monitor surface water flows and quality;
  - a protocol for the investigation, notification and mitigation of identified exceedances of the surface water impact assessment criteria; and
  - a program to monitor the effectiveness of the Erosion and Sediment Control Plan.
- 15. The Groundwater Monitoring Program shall include:
  - a) program to collect detailed baseline data, based on sound statistical analysis, to benchmark
    the pre-quarrying natural variation in groundwater levels, yield and quality in groundwater bores
    within the predicted drawdown impact zone identified in the Amendment Report;
  - b) groundwater impact assessment criteria for monitoring bores and privately-owned bores;
  - a program to monitor impacts on the groundwater supply of potentially affected landowners, groundwater dependent ecosystems, and on vegetation; and
  - a protocol for the investigation, notification and mitigation of identified exceedances of the groundwater impact assessment criteria.

Note: The Groundwater Monitoring Program shall be prepared in accordance with the recommendations of the independent groundwater assessment reports (prepared by Mackie Environmental Research Pty Ltd., dated July 2005 and December 2004, available from the Department), unless otherwise authorised by the Director-General.

#### **Groundwater Contingency Strategy**

- 16. Within 6 months of the date of this consent, the Applicant shall prepare a Groundwater Contingency Strategy for the development, in consultation with the DNR, and landowners within the predicted drawdown impact zone identified in the Amendment Report, and to the satisfaction of the Director-General. The strategy shall include:
  - the procedures that would be followed in the event of any exceedance of the groundwater impact assessment criteria, or other identified impact on groundwater; and
  - b) measures to mitigate, remediate and for compensate any identified impacts to provide an alternative longterm supply of water to the affected landowner that is equivalent to the loss attributed to the development.

Note: The strategy shall be prepared in accordance with the procedures detailed in schedule 4, and the recommendations of the independent groundwater assessment reports (prepared by Mackie Environmental Research Ry Ltd., dated July 2005 and December 2004, available from the Department), unless otherwise authorised by the Director-General.

#### Annual Independent Groundwater Audit

17. Each year from the date of this consent, or as otherwise directed by the Director-General, the Applicant shall undertake an independent audit of the groundwater impacts of the development to determine compliance with the groundwater impact assessment criteria, to the satisfaction of the Director-General. The audit shall be conducted by a suitably qualified and independent hydrogeologist whose appointment has been approved by the Director-General.

#### Reporting

- Each year from the date of this consent, the Applicant shall:
  - a) review, and if necessary update, the Water Management Plan; and
  - b) report the results of this review in the AEMR, including:
    - details of the review for each sub-plan;
    - the results of monitoring;
    - the results of the independent groundwater audit (including a copy of the report); and
    - · details of the measures undertaken/proposed to address any identified issues.

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#### Quarry Closure Groundwater Management Plan

- 19. Prior to the commencement of quarrying in Stage 3/6 or 5 years prior to the cessation of quarrying (whichever is the sooner), the Applicant shall commission a suitably qualified hydrogeologist, whose appointment has been approved by the Director-General, to assess the potential long term impacts of the final void on groundwater resources, and to develop a quarry closure and post-dosure groundwater management plan. The plan shall:
  - be prepared in consultation with the DNR, the CCC, and landowners within the predicted drawdown impact zone identified in the Amendment Report; and
  - include strategies, in accordance with the Groundwater Contingency Strategy, to ensure the long-term security of water supply to any landowner whose groundwater bores exceed, or are likely to exceed in the future, the groundwater impact assessment criteria, to the satisfaction of the Director-General.

#### METEOROLOGICAL MONITORING

20. Prior to carrying out any development, the Applicant shall establish and subsequently maintain a meteorological station in the vicinity of the development, to the satisfaction of the DEC and the Director-General. The station shall as a minimum, unless otherwise authorised by the Director-General, monitor daily rainfall and evaporation in accordance with the requirements in Approved Methods for the Sampling and Analysis of Air Pollutants in NSW.

#### REHABILITATION AND LANDSCAPING

#### Rehabilitation

21. The Applicant shall progressively rehabilitate the site to the satisfaction of the Director-General, in a manner that is generally consistent with the concept final landform in the Amendment Report (as reproduced in Appendix 2). The rehabilitation of the site must include at least 1 hectare of open heathland/sedgeland in low lying and drainage areas.

#### Rehabilitation and Landscape Management Plan

- 22. Within 6 months of the date of this consent, the Applicant shall prepare and subsequently implement a Rehabilitation and Landscape Management Plan for the development in consultation with Council and DEC, and to the satisfaction of the Director-General: This plan must:
  - a) identify the areas likely to be disturbed by the development;
  - describe in general the short, medium, and long-term measures that would be implemented to rehabilitate the site;
  - describe in detail the measures that would be implemented over the next 5 years to rehabilitate the site;
  - d) describe how the performance of these measures would be monitored over time;
  - e) set completion criteria for the rehabilitation of the site;
  - f) include a Vegetation Clearing Protocol, a Pest and Weed Management Plan, and a Landscape Plan; and
  - g) include a program to monitor the development's effects on vegetation, including threatened species and groundwater dependent ecosystems.
- 23. Within 4 years of providing the Rehabilitation and Landscape Management Plan to the Director-General, and every 5 years thereafter, the Applicant shall review and update the plan to the satisfaction of the Director-General

#### Rehabilitation Bond

24. Within 12 months of the date of this consent, the Applicant shall lodge a rehabilitation bond for the development with the Director-General. The sum of the bond shall be calculated at \$2.50/m² for the total additional area to be disturbed in each 5 year review period, or as otherwise directed by the Director-General.

#### Notes:

- If the rehabilitation is completed to the satisfaction of the Director-General, the Director-General will release the
  rehabilitation bond.
- If the rehabilitation is not completed to the satisfaction of the Director-General, the Director-General will call in all or part of the rehabilitation bond, and arrange for the satisfactory completion of these works.



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- 25. Within 4 years of lodging the rehabilitation bond with the Director-General, and every 5 years thereafter, unless the Director-General directs otherwise, the Applicant shall review, and if necessary revise, the sum of the bond to the satisfaction of the Director-General. This review must consider.
  - a) the effects of inflation;
  - b) any changes to the total area of disturbance; and
  - the performance of the rehabilitation against the completion criteria of the Rehabilitation and Landscape Management Plan.

#### TRAFFIC AND TRANSPORT

#### Site Access

- Prior to the commencement of extraction in the applicable quarry stages, the Applicant shall:
  - seal the internal access road from the site entrance to the Stage 3 extraction limit for Stages 3/1 and 3/2; and
  - seal the internal access road from the site entrance to the administration area for Stages 3/3 onwards, to the satisfaction of the Director-General.

Note: The access road and quarrying stages are as shown on Figure 3 of the Amendment Report.

- Prior to carrying out any development, the Applicant shall provide a painted seagull arrangement to Peats
  Ridge Road, to improve egress for vehicles turning right from the access road, to the satisfaction of the RTA.
- 28. The Applicant shall ensure that the long term access road is designed to:
  - accommodate heavy vehicle turning paths for the left hand turn from Peats Ridge Road into the access road, to the satisfaction of the RTA and the Director-General; and
  - provide for vehicular access to the pit floor, to the satisfaction of the DPI and the Director-General.

#### **Parking**

29. The Applicant shall provide sufficient parking on-site for all quarry-related traffic, in accordance with Council's parking codes, and to the satisfaction of the Director-General.

#### Road Haulage

- The Applicant shall ensure that all loaded vehicles entering or leaving the site are covered.
- 31. The Applicant shall ensure that all loaded vehicles leaving the site are cleaned of materials that may fall on the road before they are allowed to leave the site.

#### VISUAL IMPACT

- 32. The Applicant shall
  - implement all practicable measures to minimise the visual impacts of the development;
  - establish, re-vegetate and subsequently maintain the acoustic barrier to minimise the visual impacts
    of development, in accordance with the concept final landform in the Amendment Report (as
    reproduced in Appendix 2);
  - include a progress report on the re-vegetation and maintenance of the acoustic barrier in the AEMR, to the satisfaction of the Director General.
- The Applicant shall take all practicable measures to prevent and/or minimise any off-site lighting impacts from the development.
- All external lighting associated with the development shall comply with Australian Standard AS4282 (INT) 1995 – Control of Obtrasive Effects of Outdoor Lighting.

#### WASTE MANAGEMENT

- 35. The Applicant shall:
  - a) monitor the amount of waste generated by the development,
  - investigate ways to minimise waste generated by the development;
  - c) implement reasonable and feasible measures to minimise waste generated by the development; and
  - d) report on waste management and minimisation in the AEMR. to the satisfaction of the Director-General



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#### HAZARD MANAGEMENT

#### Dangerous Goods

 The Applicant shall ensure that the storage, handling, and transport of dangerous goods is conducted in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.

#### Safety

 The Applicant shall secure the development to ensure public safety to the satisfaction of the Director-General

#### BUSHFIRE MANAGEMENT

- 38. The Applicant shall:
  - a) ensure that the development is suitably equipped to respond to any fires on site; and
  - assist the Rural Fire Service and emergency services as much as possible if there is a fire on site.

#### PRODUCTION DATA

- 39. The Applicant shall:
  - a) provide annual production data to the DPI using the standard form for that purpose; and
  - b) include a copy of this data in the AEMR.

#### QUARRY EXIT STRATEGY

- 40. At least 3 years prior to the cessation of quarrying, the Applicant shall prepare a Quarry Exit Strategy for the development, in consultation with the Council, and to the satisfaction of the Director-General. The plan must:

   a) define the objectives and criteria for quarry closure;
  - b) investigate options for the future use of the site, including any final void/s;
  - describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the development; and
  - d) describe how the performance of these measures would be monitored over time.



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### SCHEDULE 4 ADDITIONAL PROCEDURES

#### NOTIFICATION OF LANDOWNERS

1. If the results of monitoring required in schedule 3 identify that impacts generated by the development are greater than the relevant impact assessment criteria in schedule 3, then the Applicant shall notify the Director-General and the affected landowners and/or existing or future tenants accordingly, and provide quarterly monitoring results to each of these parties until the results showthat the development is complying with the criteria in schedule 3.

#### INDEPENDENT REVIEW

 If a landowner considers that the operations of the quarry are exceeding the impact assessment criteria in schedule 3, then he/she may ask the Applicant in writing for an independent reviewof the impacts of the development on his/her land.

If the Director-General is satisfied that an independent review is warranted, the Applicant shall within 3 months of the Director-General advising that an independent review is warranted:

- a) consult with the landowner to determine his/her concerns;
- b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to conduct monitoring on the land, to determine whether the development is complying with the relevant criteria in schedule 3, and identify the source/s and scale of any impact on the land, and the development's contribution to this impact; and
- give the Director-General and landowner a copy of the independent review.
- If the independent review determines that the quarrying operations are complying with the relevant criteria in schedule 3, then the Applicant may discontinue the independent review with the approval of the Director-General
- 4. If the independent review determines that the quarrying operations are not complying with the relevant criteria in schedule 3, and that the quarry is primarily responsible for this non-compliance, then the Applicant shall:
  - take all practicable measures, in consultation with the landowner, to ensure that the development complies with the relevant criteria; and
  - b) conduct further monitoring to determine whether these measures ensure compliance; or
  - secure a written agreement with the landowner to allow exceedances of the relevant criteria in schedule
     or
  - d) in the case of an exceedance of the groundwater impact assessment criteria, implement compensatory water supply measures in accordance with the Groundwater Contingency Strategy (condition 16 of schedule 3), to the satisfaction of the Director-General.

If the additional monitoring referred to above subsequently determines that the quarrying operations are complying with the relevant criteria in schedule 3, then the Applicant may discontinue the independent review with the approval of the Director-General.

If the Applicant is unable to finalise an agreement with the landowner, then the Applicant or landowner may refer the matter to the Director-General for resolution.

If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 3).

If, following the Independent Dispute Resolution Process, the Director-General is satisfied that the noise generated by the development is exceeding the noise impact assessment criteria in schedule 3 by more than 5dB(A), then the Director-General may grant land acquisition rights to the affected landowner.

 If the landowner disputes the results of the independent review, either the Applicant or the landowner may refer the matter to the Director-General for resolution.

If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 3).

 If any disputes arise from the implementation of the Groundwater Contingency Strategy (condition 16 of schedule 3), either the Applicant or the landowner may refer the matter to the Director-General for resolution.

If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 3).

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7. If, following an Independent Dispute Resolution Process, the Director-General is satisfied that the quarry is causing an exceedance of the groundwater impact assessment criteria, and that compensatory water supply would not provide an acceptable alternative long-term supply of water to the affected landowner that is equivalent to the loss attributed to quarrying related impacts, then the Director-General may grant land acquisition rights to the affected landowner.

#### LAND ACQUISITION

- Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant shall make
  a binding written offer to the landowner based on:
  - a) the current market value of the landowner's interest in the property at the date of this written request, as if the property was unaffected by the development, having regard to the:
    - existing and permissible use of the land, in accordance with the applicable planning instruments at
      the date of the written request; and
    - presence of improvements on the property and/or any approved building or structure which has been
      physically commenced at the date of the landowner's written request, and is due to be completed
      subsequent to that date:
  - b) the reasonable costs associated with:
    - relocating within the Gosford local government area, or to any other local government area agreed to by the Director-General; and
    - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is required; and
  - c) reasonable compensation for any disturbance caused by the land acquisition process.

However, if at the end of this period, the Applicant and landowner cannot agree on the acquisition price of the land, and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Director-General for resolution.

Upon receiving such a request, the Director-General shall request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer or Fellow of the Institute, to consider submissions from both parties, and determine a fair and reasonable acquisition price for the land, and/or terms upon which the land is to be acquired.

If either party disputes the independent valuer's determination, then the independent valuer should refer the matter back to the Director-General.

Upon receiving such a referral, the Director-General shall appoint a panel comprising the:

- appointed independent valuer (or atternative appointed by the President of the NSW Division of the Australian Property Institute);
- (ii) Director-General and/or nominee/s; and
- (ii) President of the Law Society of NSW or nominee,

to consider submissions from both parties, including meeting with the parties individually if requested, and to determine a fair and reasonable acquisition price for the land, and/or the terms upon which the land is to be acquired.

Within 14 days of receiving the panel's determination, the Applicant shall make a written offer to purchase the land at a price not less than the panel's determination.

If the landowner refuses to accept this offer within 6 months of the date of the Applicant's offer, the Applicant's obligations to acquire the land shall cease, unless otherwise agreed by the Director-General.

- The Applicant shall bear the costs of any valuation or survey assessment requested by the independent valuer, panel, or the Director-General and the costs of determination referred above.
- 10. If the Applicant and landowner agree that only part of the land shall be acquired, then the Applicant shall pay all reasonable costs associated with obtaining Council approval for any plan of subdivision, and registration of the plan at the Office of the Registrar-General.

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#### **2012 ANNUAL ENVIRONMENTAL MANAGEMENT REPORT**

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#### **SCHEDULE 5** ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING

#### ENVIRONMENTAL MANAGEMENT STRATEGY

- Within 3 months of the date of this consent, the Applicant shall prepare, and subsequently implement, an Environmental Management Strategy for the development to the satisfaction of the Director-General. This
  - provide the strategic context for environmental management of the development;
  - bί identify the statutory requirements that apply to the development;
  - c) describe in general how the environmental performance of the development would be monitored and managed during the development;
  - describe the procedures that would be implemented to: d)
    - keep the local community and relevant agencies informed about the operation and environmental performance of the development,
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise during the course of the development;
    - respond to any non-compliance;
    - manage cumulative impacts; and
    - respond to emergencies; and
  - describe the role, responsibility, authority, and accountability of all the key personnel involved in e) environmental management of the development; and
  - be updated within 3 months of the completion of each Independent Environmental Audit.

#### **ENVIRONMENTAL MONITORING PROGRAM**

- Within 3 months of the date of this consent, the Applicant shall prepare an Environmental Monitoring Program for the development, to the satisfaction of the Director-General. This program must consolidate the various monitoring requirements in schedule 3 of this consent into a single document.
- 3 Within 3 months of the completion of each Independent Environmental Audit (see below), the Applicant shall review, and if necessary update, the Environmental Monitoring Program to the satisfaction of the Director-General:

#### ANNUAL REPORTING

- Each year, following the date of this consent, the Applicant shall prepare and submit an AEMR to the Director-General and the relevant agencies. This report must:
  - identify the standards and performance measures that apply to the development;
  - describe the works carried out in the last 12 months; b)
  - describe the works that will be carried out in the next 12 months; C)
  - include a summary of the complaints received during the past year, and compare this to the d) complaints received in previous years;
  - include a summary of the monitoring results for the development during the past year; e)
  - include an analysis of these monitoring results against the relevant:
    - impact assessment criteria;
    - monitoring results from previous years; and
    - predictions in the EIS and Amendment Report;
  - identify any trends in the monitoring results over the life of the development;
  - g) h) identify any non-compliance during the previous year, and
  - describe what actions were, or are being taken to ensure compliance.

#### 3. INDEPENDENT ENVIRONMENTAL AUDIT

- Within 3 years of the date of this consent, and every 5 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
  - be conducted by a suitably qualified, experienced, and independent person whose appointment has been endorsed by the Director-General;



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- be consistent with ISO 19011:2002 Guidelines for Quality and/ or Environmental Systems Auditing, b) or updated versions of this guideline;
- c) assess the environmental performance of the development, and its effects on the surrounding environment:
- assess whether the development is complying with the relevant standards, performance measures, d) and statutory requirements;
- review the adequacy of the Applicant's Environmental Management Strategy and environmental e) management plans/protocols; and, if necessary,
- recommend measures or actions to improve the environmental performance of the development, fì and/or the environmental management and monitoring systems.
- 6. Within 3 months of commissioning this audit, the Applicant shall submit a copy of the audit report to the Director-General, with a response to the recommendations contained in the audit report.

#### COMMUNITY CONSULTATIVE COMMITTEE

- Within 6 months of the date of this consent, the Applicant shall establish a Community Consultative Committee to oversee the environmental performance of the development. The CCC shall:
  - be comprised of at least:
    - 2 representatives from the Applicant, including the person responsible for environmental management at the quarry,
    - 1 representative from Council (if available); and

at least 2 representatives from the local community, whose appointment has been approved by the Director-General in consultation with the Council;

- b) be chaired by an independent chairperson, whose appointment has been endorsed by the Director-General:
- meet at least twice a year; and
- review and provide comment on the environmental performance of the development, including any d) construction or environmental management plans, monitoring results, audit reports, or complaints.
- 9 The Applicant shall, at its own expense:
  - ensure that 2 of its representatives attend the Committee's meetings;
  - provide the Committee with regular information on the environmental performance and management b) of the development;
  - c)
  - provide meeting facilities for the Committee; arrange site inspections for the Committee, if necessary, ďì
  - take minutes of the Committee's meetings; e)
  - f) make these minutes available to the public;
  - respond to any advice or recommendations the Committee may have in relation to the environmental g) management or performance of the development; and
  - forward a copy of the minutes of each Committee meeting, and any responses to the Committee's recommendations to the Director-General within a month of the Committee meeting. hì

#### ACCESS TO INFORMATION

- Within 1 month of the approval of any management plan/strategy or monitoring program required under this consent (or any subsequent revision of these management plans/strategies or monitoring programs), the completion of the independent audits required under this consent, or the completion of the AEMR, the Applicant shall:
  - provide a copy of the relevant document/s to the Council, relevant agencies and the CCC;
  - b) en sure that a copy of the relevant documents is made publicly available at the quarry, and
  - put a copy of the relevant document/s on the Applicant's website; to the satisfaction of the Director-
- 11. During the life of the development, the Applicant shall:
  - make a summary of the results of all monitoring required under this consent publicly available both at the quarry and on the Applicant's website; and
  - update these results on a regular basis (at least every 3 months),

to the satisfaction of the Director-General.

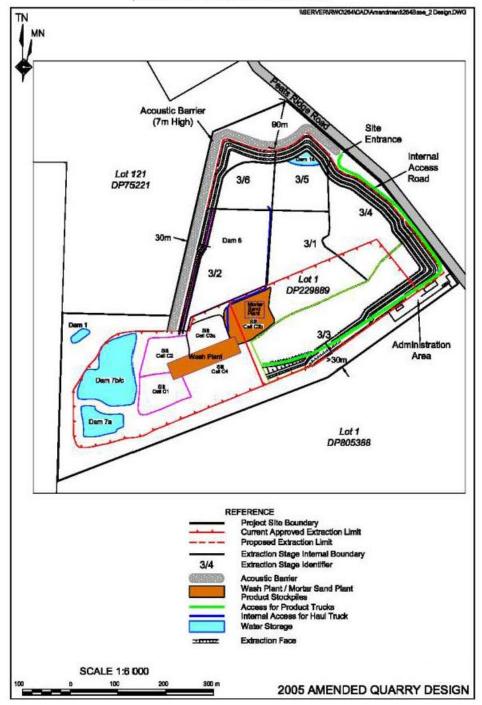
Note: The Applicant's environmental management plans/protocols should specify the reporting provisions for each environmental aspect.



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### APPENDIX 1 QUARRY LAYOUT AND STAGING PLAN



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#### APPENDIX 2 CONCEPT FINAL LANDFORM





### APPENDIX 3 INDEPENDENT DISPUTE RESOLUTION PROCESS

## Independent Dispute Resolution Process (Indicative only)

