

Appendices

(No. of pages excluding this page = 45)

Appendix 1: Program for Implementation of the Development Consent Conditions – DA 94-4-2004

Appendix 2: Environmental Incident Report and Register Forms



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Appendix 1

(No. of pages excluding this page = 42)

**Appendix 1: Program for Implementation of the Development
Consent Conditions – DA 94-4-2004**



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ROCLA MATERIALS PTY LTD

ABN: 30 083 169 091

CALGA SAND QUARRY EXTENSION

PROGRAM FOR IMPLEMENTATION OF THE DEVELOPMENT CONSENT CONDITIONS – DA 94-4-2004

Compiled by:



R. W. CORKERY & CO. PTY. LIMITED



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PREAMBLE

This document records how Rocla Materials Pty Ltd intends to implement the conditional requirements included in Development Consent DA 94-4-2004 issued by the Minister for Planning. The various conditional requirements have been sorted and arranged in the following document with respect to scheduling requirements and activities generally under the following headings.

1. General administrative requirements.
2. Activities to be carried out prior to commencement of the development.
3. Activities to be carried out prior to extraction.
4. Activities to be carried out within 3 months.
5. Activities to be carried out within 6 months.
6. Activities to be carried out within 12 months.
7. Annual requirements.
8. Repeated requirements.
9. General conditions.
10. Closure requirements.

It is noted that for the purposes of the elapsed periods referred to in various conditions in the development consent, the date on which Development Consent DA 94-4-2004 became effective was **6 December 2005**.



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Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
1. GENERAL ADMINISTRATIVE REQUIREMENTS				
2 (Sch.2)	The Applicant shall carry out the development generally in accordance with the: <ul style="list-style-type: none"> a) DA 94-4-2004; b) EIS titled <i>Environmental Impact Statement for the Proposed Calga Sand Quarry Extension</i>, dated May 2004 and Specialist Consultant Studies Compendium dated May 2004; c) Amendment Report titled <i>Amendment to a Proposal Submitted as Development Application (DA 94-4-2004) for an Extension to the Calga Sand Quarry</i>, dated June 2005; and d) conditions of this development consent. 	<ul style="list-style-type: none"> • Ensure all personnel and contractors are aware of conditional requirements. 	<ul style="list-style-type: none"> • Annual report on compliance which will form part of AEMR. 	
3 (Sch.2)	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.		<ul style="list-style-type: none"> • Annual report on compliance which will form part of AEMR 	
4 (Sch.2)	The Applicant shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of: <ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> • All reports, plans and correspondence required by this consent are to be submitted to the Director-General on time. 	<ul style="list-style-type: none"> • In the event the Director-General issues a requirement, a letter would be sent to the Director-General at the completion of requested works / actions and these would be reported in the following AEMR. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
1. GENERAL ADMINISTRATIVE REQUIREMENTS (CONT'D)				
8 (Sch.2)	<p>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.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for any building works. • Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of development. 	<ul style="list-style-type: none"> • Ensure all buildings constructed / transported onto the site meet building requirements. 	<ul style="list-style-type: none"> • A copy of construction and occupation certificates are to be submitted to DIPNR on request. 	Quarry Manager
10 (Sch.2)	<p>The Applicant shall:</p> <ol style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> • In the event any repairs / relocation are required, undertake at Company's expenses. 	<ul style="list-style-type: none"> • Document any actions taken and/or expenditure and provide copy to relevant government agency on request. 	Quarry Manager
2. ACTIVITIES TO BE CARRIED OUT PRIOR TO COMMENCEMENT OF THE DEVELOPMENT				
1 (Sch.3)	<p>Prior to carrying out any development, the Applicant shall:</p> <ol style="list-style-type: none"> 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 operating staff and inspecting officers to clearly identify those limits, <p>to the satisfaction of the Director-General.</p> <p><i>Note: The limit of extraction includes the area described in the documents listed in condition 0 of schedule 2, and shown conceptually on the plan in Appendix 1.</i></p>	<ul style="list-style-type: none"> • Engage surveyor • Install concrete posts at nominated points on boundary (paint posts yellow). 	<ul style="list-style-type: none"> • Forward survey plan of extraction limit to the Director-General. Include photo record of marked survey points. 	<p>Quarry Manager</p> <p>Quarry Manager</p> <p>Quarry Manager</p>



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
2. ACTIVITIES TO BE CARRIED OUT PRIOR TO COMMENCEMENT OF THE DEVELOPMENT (CONT'D)				
7 (Sch.3)	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.	<ul style="list-style-type: none"> Noise Monitoring Program to be prepared in accordance with the condition as Part 2, Chapter 2.2 of Environmental Management Plan and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> Part 2, Chapter 2.2 of Environmental Management Plan. 	RWC to prepare, Quarry Manager to implement in consultation with Wilkinson Murray
9 (Sch.4)	¹ 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. <i>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.</i>	<ul style="list-style-type: none"> Air Quality Monitoring Program to be prepared in accordance with the condition as Part 2, Chapter 2.3 of Environmental Management Plan and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> Part 2, Chapter 2.3 of Environmental Management Plan. 	RWC to prepare, Quarry Manager to implement.
11 (Sch.3)	Prior to carrying out any development, the Applicant shall prepare and subsequently implement a Water Management Plan for the development, in consultation with the Department, 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: <ul style="list-style-type: none"> a) a Water Balance; b) an Erosion and Sediment Control Plan; c) a Surface Water Monitoring Program; and d) a Groundwater Monitoring Program. 	<ul style="list-style-type: none"> Water Management Plan to be prepared in accordance with the condition as Part 3 of Environmental Management Plan and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> Part 3 of Environmental Management Plan. 	

¹ Incorporates DEC GTA

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
2. ACTIVITIES TO BE CARRIED OUT PRIOR TO COMMENCEMENT OF THE DEVELOPMENT (CONT'D)				
12 (Sch.3)	The Water Balance shall: <ul style="list-style-type: none"> a) 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. 	<ul style="list-style-type: none"> • Water Balance to be prepared in accordance with the condition as Part 3, Chapter 3.3 of Environmental Management Plan and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> • Part 3, Chapter 3.3 of EMP. • Include records of annual water extraction and usage in AEMR. 	RWC to prepare in conjunction with surface water consultant (to be engaged with southern extension). Monitoring Officer
13 (Sch.3)	The Erosion and Sediment Control Plan shall: <ul style="list-style-type: none"> a) be consistent with the requirements of the Department of Housing's <i>Managing Urban Stormwater: Soils and Construction</i> manual; b) identify activities that could cause soil erosion and generate sediment; c) 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. 	<ul style="list-style-type: none"> • Erosion and Sediment Plan to be prepared in accordance with condition Part 3, Chapter 3.4 of Environmental Management Plan and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> • Part 3, Chapter 3.4 of Environmental Management. 	RWC to compile.
14 (Sch.3)	The Surface Water Monitoring Program shall include: <ul style="list-style-type: none"> a) detailed baseline data on surface water flows and quality in waterbodies (including hanging swamps) that could potentially be impacted by the quarry; b) surface water impact assessment criteria; c) a program to monitor surface water flows and quality; d) a program to monitor bank and bed stability; e) a protocol for the investigation, notification and mitigation of identified exceedances of the surface water impact assessment criteria; and f) a program to monitor the effectiveness of the Erosion and Sediment Control Plan. 	<ul style="list-style-type: none"> • Surface Water Monitoring Program to be prepared in accordance with condition Part 2, Chapter 2.4 of Environmental Management Plan and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> • Part 2, Chapter 2.4 of Environmental Management Plan. 	RWC to compile.



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
2. ACTIVITIES TO BE CARRIED OUT PRIOR TO COMMENCEMENT OF THE DEVELOPMENT (CONT'D)				
15 (Sch.3)	<p>The Groundwater Monitoring Program shall include:</p> <ul style="list-style-type: none"> a) 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; c) a program to monitor impacts on the groundwater supply of potentially affected landowners, groundwater dependent ecosystems, and on vegetation; and d) a protocol for the investigation, notification and mitigation of identified exceedances of the groundwater impact assessment criteria. <p><i>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 December 2004 and July 2005, available from the Department), unless otherwise authorised by the Director-General.</i></p>	<ul style="list-style-type: none"> • Groundwater Monitoring Program to be prepared in accordance with the condition Part 2, Chapter 2.5 of Environmental Management Plan and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> • Part 2, Chapter 2.5 of Environmental Management Plan. 	Peter Dundon and Associates
20 (Sch.3)	<p>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, monitor daily rainfall and evaporation in accordance with the requirements in Approved Methods for the Sampling and Analysis of Air Pollutants in NSW.</p>	<ul style="list-style-type: none"> • Rocla will install a rainfall gauge on the site to monitor daily rainfall. • Rocla will rely on evaporation recorded at the nearby Peats Ridge Meteorological Station. 	<ul style="list-style-type: none"> • Details of rainfall recorded at the site rain gauge and evaporation recorded at the nearby Peats Ridge Meteorological Station will be included in each AEMR. 	Rocla Management



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
3. ACTIVITIES TO BE CARRIED OUT PRIOR TO EXTRACTION				
27 (Sch.3)	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.	<ul style="list-style-type: none"> • RTA to be informed of proposed schedule for undertaking the required works. • Any instructions from the RTA to be incorporated into road modification activities. • Road modification activities to be undertaken under the supervision of quarry management (and RTA personnel if required). 	<ul style="list-style-type: none"> • A letter, including photos, is to be forwarded to the Department on completion of the painted seagull arrangement. 	Quarry Manager to organise line marking contractor.
4 (Sch.3)	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 4 weeks.	<ul style="list-style-type: none"> • Surrounding landowners (and the Department) are to be informed of construction schedule prior to commencement. • All construction personnel are to be informed of the appropriate safeguards and procedures identified in the Amendment Report. • Construction activities to be undertaken in accordance with the Amendment Report and under the supervision of Rocla personnel who has access to the Amendment Report. 	<ul style="list-style-type: none"> • The Department is to be notified of the proposed construction schedule prior to commencement. The Department is to be notified on the day of commencement and provided with written notice of completion of construction activities. This written notice will include relevant weather conditions or other incidents / issues in the event construction extends beyond 4 weeks. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
4. ACTIVITIES TO BE CARRIED OUT WITHIN 3 MONTHS				
1 (Sch.5)	<p>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 strategy must:</p> <ul style="list-style-type: none"> a) provide the strategic context for environmental management of the development; b) 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; d) 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 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 e) describe the role, responsibility, authority, and accountability of all the key personnel involved in environmental management of the development; and f) be updated within 3 months of the completion of each Independent Environmental Audit. 	<ul style="list-style-type: none"> • Environmental Management Strategy to be prepared in accordance with the condition as Part 1 of the Environmental Management Plan to be forwarded to the Director-General on completion. • Rocla personnel and contract employees are to be informed of the Environmental Management Strategy and referred to the relevant aspects to their position and/or duties. • The Environmental Management Strategy will be reviewed, and if necessary, updated based on, and within 3 months of, each Independent Environmental Audit. 	<ul style="list-style-type: none"> • Part 1 of Environmental Management Plan. • Notification to the Department of Environmental Management Strategy review and update (if required) following each Independent Environmental Audit. 	RWC to prepare in conjunction with Rocla.
2 (Sch.5)	<p>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.</p>	<ul style="list-style-type: none"> • Environmental Monitoring Program to be prepared in accordance with the condition as Part 2 of Environmental Management Plan (EMP) and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> • Part 2 of Environmental Management Plan (essentially a compilation of previous monitoring plans). 	RWC to coordinate.

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
5. ACTIVITIES TO BE CARRIED OUT WITHIN 6 MONTHS				
16 (Sch.3)	<p>Within 6 months of the date of this consent, the Applicant shall prepare a Groundwater Contingency Strategy for the development, in consultation with the Department, 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:</p> <p>a) 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</p> <p>b) measures to mitigate, remediate and/or compensate any identified impacts to provide an alternative long-term supply of water to the affected landowner that is equivalent to the loss attributed to the development.</p> <p><i>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 Pty Ltd, dated December 2004 and July 2005, available from the Department), unless otherwise authorised by the Director-General.</i></p>	<ul style="list-style-type: none"> • A draft Groundwater Contingency Strategy to be prepared in accordance with the condition. • This draft Groundwater Contingency Strategy is to be circulated to the Department, local landowners within the predicted drawdown zone, and other agencies considered appropriate by the Director-General. • Comments / edits received from the Department and local landowners will be incorporated, as far as practicable, into a revised Groundwater Contingency Strategy which will be submitted to the Director-General for endorsement. 	<ul style="list-style-type: none"> • A draft Groundwater Contingency Strategy for circulation to the Department and relevant landowners. • Final Groundwater Contingency Strategy to be incorporated as Part 4 of the Environmental Management Plan. 	Peter Dundon and Associates



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
5. ACTIVITIES TO BE CARRIED OUT WITHIN 6 MONTHS (CONT'D)				
22 (Sch.3)	<p>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:</p> <ul style="list-style-type: none"> a) identify the areas likely to be disturbed by the development; b) describe in general the short, medium, and long-term measures that would be implemented to rehabilitate the site; c) 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. 	<ul style="list-style-type: none"> • A draft Rehabilitation and Landscape Management Plan to be prepared in accordance with the condition. • This draft Rehabilitation and Landscape Management Plan is to be circulated to the DEC, Gosford City Council and any other agency or representative considered appropriate by the Director-General. • Comments / edits received from the DEC and/or Council will be incorporated, as far as practicable, into a reviewed Rehabilitation and Landscape Management Plan which will be submitted to the Director-General for endorsement. 	<ul style="list-style-type: none"> • Draft Rehabilitation and Landscape Management Plan for circulation to the DEC and Gosford City Council. • Final Rehabilitation and Landscape Management Plan to be incorporated as Part 5 of the Environmental Management Plan. 	RWC in conjunction with ecological consultant.



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
5. ACTIVITIES TO BE CARRIED OUT WITHIN 6 MONTHS (CONT'D)				
8 (Sch.5)	<p>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:</p> <p>a) be comprised of at least:</p> <ul style="list-style-type: none"> • 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; <p>b) be chaired by an independent chairperson, whose appointment has been endorsed by the Director-General;</p> <p>c) meet at least twice a year (Note: This may reduce to yearly if agreed to by all members of CCC and endorsed by the Director-General); and</p> <p>d) review and provide advice on the environmental performance of the development, including any construction or environmental management plans, monitoring results, audit reports, or complaints.</p>	<ul style="list-style-type: none"> • The Department and Gosford City Council to be consulted prior to establishment of the CCC. • A letter identifying the proposed representatives and date of first meeting to be forwarded to the Director-General. • Aim to hold meetings in April and October each year. 	<ul style="list-style-type: none"> • A summary of the review of environmental performance will form part of the AEMR for the Calga Sand Quarry. 	Quarry Manager
6. ACTIVITIES TO BE CARRIED OUT WITHIN 12 MONTHS				
24 (Sch.3)	<p>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 area to be disturbed in each 5 year review period, or as otherwise directed by the Director-General.</p> <p><i>Notes:</i></p> <p><i>If the rehabilitation is completed to the satisfaction of the Director-General, the Director-General will release the rehabilitation bond.</i></p> <p><i>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.</i></p>	<ul style="list-style-type: none"> • Lodge bond within 12 months and file correspondence. 	<ul style="list-style-type: none"> • Details of bond and subsequent review(s) to be included in each AEMR. • Update documentation of bond currency annually. 	Operations Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
7. ACTIVITIES PRIOR TO COMMENCEMENT OF APPLICABLE STAGE				
Prior to Stage 3/1				
26 (Sch.3)	Prior to the commencement of extraction in the applicable quarry stages, the Applicant shall: <ul style="list-style-type: none"> a) seal the internal access road from the site entrance to the extraction limit for Stages 3/1 and 3/2; and b) seal the internal access road from the site entrance to the administration area for Stages 3/3 onwards, to the satisfaction of the RTA and the Director-General. <p><i>Note: The access road and quarrying stages are as shown on Figure 3 of the Amendment Report.</i></p>	<ul style="list-style-type: none"> • As specified by the condition. 	<ul style="list-style-type: none"> • The Department will be provided with written notice of completion of the required activities. 	Quarry Manager to organise sealing contractor.
Prior to Stage 3/6				
19 (Sch.3)	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-closure groundwater management plan. The plan shall: <ul style="list-style-type: none"> a) be prepared in consultation with the Department, the CCC (see Condition 8, Schedule 5), and landowners within the predicted drawdown impact zone identified in the Amendment Report; and b) 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.	<ul style="list-style-type: none"> • Details of the preferred hydrogeologist will be forwarded to the Director-General for approval. • The approved hydrogeologist is to contact the Department and landowners within the predicted drawdown impact zone, as well as attend a meeting of the CCC, to determine the requirements of each stakeholder. 	<ul style="list-style-type: none"> • Draft quarry closure and post-closure groundwater management plan to be prepared for circulation to the Department, relevant landowners and the CCC. • Final quarry closure and post-closure groundwater management plan is to be prepared. 	RWC to prepare with assistance of Rocla.

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
7. ACTIVITIES PRIOR TO COMMENCEMENT OF APPLICABLE STAGE (CONT'D)				
Prior to Stage 3/6				
19 (Sch.3) (Cont'd)		<ul style="list-style-type: none"> • Draft quarry closure and post-closure groundwater management plan will be prepared by the hydrogeologist, reviewed by Rocla and forwarded to the Department, relevant landowners and the CCC for comment. • Comments / edits received will be incorporated, as far as practicable, into a final quarry closure and post-closure Groundwater Management Plan which will be submitted to the Director-General for endorsement. 		
8. ANNUAL REQUIREMENTS				
17 (Sch.3)	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.	<ul style="list-style-type: none"> • Details of the preferred hydrogeologist will be forwarded to the Director-General for approval. 	<ul style="list-style-type: none"> • Written notification from the Director-General referencing the approval of the hydrogeologist. 	Refer involvement of Peter Dundon and Associates.



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
8. ANNUAL REQUIREMENTS (CONT'D)				
17 (Sch.3) (Cont'd)		<ul style="list-style-type: none"> • On approval, the hydrogeologist will undertake the required audit. • The results of the audit will be included in each AEMR for the Calga Sand Quarry. 	<ul style="list-style-type: none"> • Independent audit report from the hydrogeologist to be summarised within each AEMR and included in full as an appendix to the AEMR. 	
18 (Sch.3)	Each year from the date of this consent, the Applicant shall: <ul style="list-style-type: none"> a) review, and if necessary update, the Water Management Plan; and b) report the results of this review in the AEMR, including: <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Water Management Plan to be reviewed by CCC and qualified consultant each year. • Sub-plans to be updated as appropriate. 	<ul style="list-style-type: none"> • AEMR to be prepared and submitted to DPI, the Department (Director-General), Gosford City Council and the DEC. 	Rocla in conjunction with RWC.
39 (Sch.3)	The Applicant shall: <ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> • Production data to be recorded to DPI standard format as presented in Form 	<ul style="list-style-type: none"> • Annual letter and statement forwarded to DPI, to be included in AEMR as an appendix. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
8. ANNUAL REQUIREMENTS (CONT'D)				
4 (Sch.5)	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: <ul style="list-style-type: none"> a) identify the standards and performance measures that apply to the development; b) describe the works carried out in the last 12 months; c) describe the works that will be carried out in the next 12 months; d) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years; e) include a summary of the monitoring results for the development during the past year; f) include an analysis of these monitoring results against the relevant: <ul style="list-style-type: none"> • impact assessment criteria; • monitoring results from previous years; and • predictions in the EIS and amendment Report; g) identify any trends in the monitoring results over the life of the development; h) identify any non-compliance during the previous year; and i) describe what actions were, or are being taken to ensure compliance. 	<ul style="list-style-type: none"> • Summary table of required standards and performance criteria to be prepared. • Records to be kept, and updated quarterly for extraction, processing, transportation and rehabilitation works. • Complaints and actions to be recorded in complaints register. • Monitoring to be undertaken and recorded as described in Part 2 of Environmental Management Plan. • Results of monitoring to be presented graphically. • All non-compliances are to be highlighted immediately following occurrence. • Complete Annual report on compliance / Audit as part of AEMR process. 	<ul style="list-style-type: none"> • All activities undertaken are to be documented as identified and included in the relevant AEMR to be prepared and submitted with 3 months of the anniversary date of DA 195-8-2004 each year. 	Rocla in conjunction with RWC.



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
9. REPEATED REQUIREMENTS				
23 (Sch.3)	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.	<ul style="list-style-type: none"> • As specified by the condition, Rocla will review and update the Rehabilitation and Landscape Management Plan including details of rehabilitation undertaken to date and any modifications to that proposed in Part 5 of the EMP. 	<ul style="list-style-type: none"> • Provide a copy of review or details of review process to the Director-General. OR • Updated EMP (Part 5 of EMP) to be forwarded to the Director-General for endorsement. 	Rocla in conjunction with RWC.
25 (Sch.3)	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: <ul style="list-style-type: none"> a) the effects of inflation; b) any changes to the total area of disturbance; and c) the performance of the rehabilitation against established completion criteria to date. 	<ul style="list-style-type: none"> • A review of the rehabilitation bond will be performed as specified by the condition noting: <ul style="list-style-type: none"> - the effects of inflation; - changes to the Rehabilitation and Land Management Plan (Part 5 of EMP); - completed rehabilitation; - ongoing rehabilitation; and - the performance of rehabilitation to date. 	<ul style="list-style-type: none"> • Prepare and submit to the Director-General a report detailing the progressive rehabilitation on the site and subsequent review of the rehabilitation bond. 	Rocla Management

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
9. REPEATED REQUIREMENTS (CONT'D)				
3 (Sch.5)	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.	<ul style="list-style-type: none"> • Based on the results of the audit, Rocla (or a consultant to Rocla) will review and revise if necessary the Environmental Monitoring Program. • Forward a copy of Independent Environment Audit to Director-General and either note that: <ul style="list-style-type: none"> - no update of EMP warranted; - identify minor updates to be made; or - submit revised EMP to Director-General. 	<p>The following documentation is to be submitted to the Director-General within 3 months of completion of the Independent Environmental Audit:</p> <ul style="list-style-type: none"> • the Independent Environmental Audit; and • a letter noting no update of the EMP is warranted; or • a letter report identifying any minor updates that are required to the Environmental Management Plan; or • the relevant revised and updated Part of Chapter of the EMP; or • The complete revised and updated EMP. <p>This action plan will be updated each year identifying the progressive achievement of actions noted on the plan.</p>	Rocla Management

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
9. REPEATED REQUIREMENTS (CONT'D)				
5 (Sch.5)	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: <ol style="list-style-type: none"> a) be conducted by a suitably qualified, experienced, and independent person whose appointment has been endorsed by the Director-General; b) be consistent with <i>ISO 19011:2002 - Guidelines for Quality and/ or Environmental Systems Auditing</i>, or updated versions of this guideline; c) assess the environmental performance of the development, and its effects on the surrounding environment; d) assess whether the development is complying with the relevant standards, performance measures, and statutory requirements; e) review the adequacy of the Applicant's Environmental Management Strategy and environmental management plans/protocols; and, f) if necessary, recommend measures or actions to improve the environmental performance of the development, and/or the environmental management and monitoring systems. 	<ul style="list-style-type: none"> • As specified by the condition. • The Environmental Monitoring Program and various management plans will be updated as necessary and forwarded to the Director-General for endorsement. 	<ul style="list-style-type: none"> • The results of the audit will be forwarded to the Director-General. • A summary of the Independent Environmental Audit will be included in the AEMR, with the complete audit report included as an appendix. 	Rocla to commission independent auditor
6 (Sch.5)	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.	<ul style="list-style-type: none"> • Rocla will prepare an action plan to address the recommendations contained within the Independent Environmental Audit report. 	<ul style="list-style-type: none"> • Rocla will submit the Independent Environmental Audit report and action plan to the Director-General within 3 months of commissioning the audit. • Yearly updates of the progressive completion of noted actions will be included in each AEMR. 	

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS				
General Conditions – Design				
28 (Sch.3)	The Applicant shall ensure that the long term access road is designed to: <ul style="list-style-type: none"> a) 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 b) provide for vehicular access to the satisfaction of the Director-General. 	<ul style="list-style-type: none"> • Prior to commencement of road construction activities, the RTA and the Department are to be presented with the proposed designs and schedules for the construction of the long term access road. • No construction activities will commence until endorsement / approval obtained from the relevant authority. 	<ul style="list-style-type: none"> • Road design and construction schedule to be submitted to the RTA and the Department. • Written endorsement / approval from the relevant authority. 	Quarry Manager
29 (Sch.3)	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.	<ul style="list-style-type: none"> • Council's parking codes to be reviewed and proposed on-site parking revised accordingly. 	<ul style="list-style-type: none"> • Details of parking codes and proposed on-site parking to be forwarded to the Director-General. 	



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Design (Cont'd)				
32 (Sch.3)	The Applicant shall: <ul style="list-style-type: none"> a) implement all practicable measures to minimise the visual impacts of the development; b) 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); c) include a progress report on the re-vegetation and maintenance of the acoustic barrier in the AEMR, to the satisfaction of the Director General.	<ul style="list-style-type: none"> • Measures to minimise visual impacts to be implemented based on those proposed in the EIS and Amendment Report. • These measures will include those identified as part of the proposed Landscape Management Plan prepared for, and included as Appendix 2 of the Amendment Report. • Rocla will continue to commission a rehabilitation consultant to inspect and review revegetation activities (including the acoustic barrier) each year. 	<ul style="list-style-type: none"> • Details of annual changes to the visual impact of the Calga Sand Quarry will be included in each AEMR. • The Rehabilitation and Landscape Management Plan for the Calga Sand Quarry will include detail on the revegetation and maintenance of the acoustic barrier referencing the conceptual final landform of the Amendment Report. • The AEMR is to include a section on revegetation activities on-site (including those of the acoustic barrier). 	Quarry Manager
33 (Sch.3)	The Applicant shall take all practicable measures to prevent and/or minimise any off-site lighting impacts from the development.	<ul style="list-style-type: none"> • Measures taken recorded annually in AEMR. 	<ul style="list-style-type: none"> • The AEMR is to include a section on the impacts of site lighting. 	Quarry Manager

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Design (Cont'd)				
34 (Sch.3)	All external lighting associated with the development shall comply with <i>Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting</i> .	<ul style="list-style-type: none"> Details of specific lighting (along with assessment of compliance with AS4282) to be reported in each AEMR . 	<ul style="list-style-type: none"> The AEMR is to include a section on the impacts of site lighting. 	Quarry Manager
38 (Sch.3)	The Applicant shall: <ul style="list-style-type: none"> a) ensure that the development is suitably equipped to respond to any fires on site; and b) assist the Rural Fire Service and emergency services as much as possible if there is a fire on site. 	<ul style="list-style-type: none"> Details of fire suppression equipment will be recorded and forwarded to the Rural Fire Service for endorsement. Rocla personnel are instructed to assist the Rural Fire Service and emergency services in the event of a fire on-site, unless this compromises the safety of the employee or other employees. 	<ul style="list-style-type: none"> Details of fire suppression equipment will be recorded and forwarded to the Rural Fire Service for endorsement. Rocla personnel are instructed to assist the Rural Fire Service and emergency services in the event of a fire on-site, unless this compromises the safety of the employee or other employees. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible																				
10. GENERAL CONDITIONS (CONT'D)																								
General Conditions – Operations																								
5 (Sch.3)	<p>²The Applicant shall comply with the operating hours in Table 2:</p> <p><i>Table 2: Operating Hours</i></p> <table border="1" data-bbox="318 512 1279 858"> <thead> <tr> <th>Activity</th> <th>Day</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Extraction and processing</td> <td>Monday – Friday</td> <td>7:00am to 6:00pm</td> </tr> <tr> <td>Saturday</td> <td>7:00am to 4:00pm</td> </tr> <tr> <td>Sunday and Public Holidays</td> <td>Nil</td> </tr> <tr> <td rowspan="3">Delivery and Distribution</td> <td>Monday – Friday</td> <td>5:00am to 10:00pm</td> </tr> <tr> <td>Saturday</td> <td>5:00am to 4:00pm</td> </tr> <tr> <td>Sunday and Public Holidays</td> <td>Nil</td> </tr> <tr> <td>Maintenance (if inaudible at neighbouring residences)</td> <td>Any day</td> <td>Anytime</td> </tr> </tbody> </table> <p><i>Notes:</i> 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.</p>	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	<ul style="list-style-type: none"> A record of operating hours for each quarry activity is to be recorded each day ie. for each of the approved activities on site. 	<ul style="list-style-type: none"> Details of compliance with the hours of operation specified in Table 2 to be included in each AEMR. 	Quarry Manager or appointed representative.
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																						
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	Sunday and Public Holidays	Nil																						
Maintenance (if inaudible at neighbouring residences)	Any day	Anytime																						
6 (Sch.3)	<p>³The following activities may be carried out at the premises outside the hours specified in Table 2:</p> <p>a) the delivery of materials as requested by Police or other authorities for safety reasons; and</p> <p>b) emergency work to avoid the loss of lives, property and/or to prevent environmental harm.</p> <p>In such circumstances the Applicant shall notify DEC and affected residents prior to undertaking the works, or within a reasonable period in the case of emergency.</p>	<ul style="list-style-type: none"> Each activity undertaken is to be recorded. As specified by the condition, Rocla will notify the DEC and affected residents prior to, or as soon as practicable following, the activities outside the approved hours of operation. 	<ul style="list-style-type: none"> The details of activities undertaken outside the approved hours of operation will be included within each AEMR. 	Quarry Manger or appointed representative																				

² Incorporates DEC GTA
³ Incorporates DEC GTA

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Operations (Cont'd)				
7 (Sch.2)	The Applicant shall not produce or transport more than 400,000 tonnes of product per year from the site.	<ul style="list-style-type: none"> • Daily records of production and product transportation will be kept by Rocla. • These daily records will be periodically reconciled to allow for ongoing monitoring of production and transportation over each yearly reporting period. 	<ul style="list-style-type: none"> • Production and transportation details will be calculated at the end of each reporting period and included in each AEMR. 	Quarry Manager
11 (Sch.2)	The Applicant shall ensure that all plant and equipment at the site, or used in connection with the development, are: <ul style="list-style-type: none"> a) maintained in a proper and efficient condition; and b) operated in a proper and efficient manner. 	<ul style="list-style-type: none"> • It is the responsibility of the Quarry Manager to ensure appropriate inspections of all mobile equipment and equipment operation are undertaken during each reporting period. • The relevant details, eg. sound power levels, of any new equipment to site is to be provided and filed / recorded prior to use at the Calga Sand Quarry. Effects on the noise climate is to be considered accordingly. 	<ul style="list-style-type: none"> • Details of any inspections made throughout the reporting period will be recorded in each AEMR. • The details of any new equipment to be used on site will also be included in the relevant AEMR. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Operations (Cont'd)				
30 (Sch.3)	The Applicant shall ensure that all loaded vehicles entering or leaving the site are covered.	<ul style="list-style-type: none"> • Signage noting the requirement for load coverage will be maintained near the exit to the Calga Sand Quarry. • For trucks with electric load covers, the drivers will be instructed to initiate covering once weighed on the weighbridge. • Sufficient area will be provided for drivers to pull-over and place cover over their truck load prior to exit from the Calga Sand Quarry. 	<ul style="list-style-type: none"> • To be determined with site personnel. 	Quarry Manager
31 (Sch.3)	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.	<ul style="list-style-type: none"> • Truck drivers will be required to view a drive code of conduct which informs them of their responsibility to ensure that all loose materials are cleaned from the truck prior to exiting the Calga Sand Quarry. • In addition, the weighbridge operator will be instructed to inform the driver of any loose material on the truck and need for this to be removed as one of his/her duties. 	<ul style="list-style-type: none"> • To be determined with site personnel. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Operations (Cont'd)				
35 (Sch.3)	The Applicant shall: <ul style="list-style-type: none"> a) monitor the amount of waste generated by the development; b) 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.	<ul style="list-style-type: none"> • Rocla will record the type and volume of waste transported from the Calga Sand Quarry. • As far as practicable, all recyclable wastes will be separated and despatched (or packaged) separately. • Employees will be encouraged to suggest ways in which waste materials can be minimised, recycled or re-used. • Any reasonable and feasible measure identified by Rocla, or other parties, will be implemented at the Calga Sand Quarry. 	<ul style="list-style-type: none"> • Waste generated and despatched from the Calga Sand Quarry will be calculated for each reporting period and included within the AEMR. • Any waste minimisation measures implemented during the reporting period will be summarised and also included in each AEMR. 	Quarry Manager
36 (Sch.3)	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.	<ul style="list-style-type: none"> • Rocla will obtain / maintain a copy of the standard and review the storage, handling and transport of diesel fuel, unleaded petrol and lubricating oils / greases against the standard. 	<ul style="list-style-type: none"> • To be determined 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible																									
10. GENERAL CONDITIONS (CONT'D)																													
General Conditions – Compliance (Cont'd)																													
2 (Sch.3)	<p>⁴The Applicant shall ensure that the noise generated by the development does not exceed the criteria specified in Table 1.</p> <p style="text-align: center;"><i>Table 1: Noise impact assessment criteria dB(A) L_{Aeq} (15 min)</i></p> <table border="1" data-bbox="324 523 1254 826"> <thead> <tr> <th>Residential Location</th> <th>Day</th> <th>Evening</th> <th>Night</th> <th>Night ($L_{A1(1min)}$)</th> </tr> </thead> <tbody> <tr> <td>Gazzana (Residence 3)</td> <td>41</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>King</td> <td>40</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>Kashouli</td> <td>41</td> <td>35</td> <td>35</td> <td>45</td> </tr> <tr> <td>Other residences</td> <td>35</td> <td>35</td> <td>35</td> <td>45</td> </tr> </tbody> </table> <p>Notes:</p> <ul style="list-style-type: none"> 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 $L_{A1(1\text{ minute})}$ noise limit. The criteria above apply to noise emissions under the following weather conditions: <ul style="list-style-type: none"> 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. 	Residential Location	Day	Evening	Night	Night ($L_{A1(1min)}$)	Gazzana (Residence 3)	41	35	35	45	King	40	35	35	45	Kashouli	41	35	35	45	Other residences	35	35	35	45	<ul style="list-style-type: none"> Noise monitoring will be undertaken as presented in the Noise Monitoring Program, Part 2, Chapter 2.2 of the EMP. 	<ul style="list-style-type: none"> The results of noise monitoring will be included in each AEMR and EPL Annual Return. 	<p>Rocla in conjunction with Wilkinson Murray.</p>
Residential Location	Day	Evening	Night	Night ($L_{A1(1min)}$)																									
Gazzana (Residence 3)	41	35	35	45																									
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⁴ Incorporates DEC GTA



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
3 (Sch.3)	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.	<ul style="list-style-type: none"> • Rocla will inform the affected landowner of the exceedances and inform him/her/them of Rocla's conditional obligation. • In the event of a >5dB(A) exceedances, Rocla will attempt to negotiate an agreement with the affected landowner. • Should this be successful, Rocla will forward the signed agreement to the Department. • Should an agreement not be reached, Rocla will initiate acquisition of the effected property. 	<ul style="list-style-type: none"> • The Department will be notified in writing of any exceedances of >5dB(A) and results of attempt to negotiate a noise agreement. 	Rocla Management



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible																							
10. GENERAL CONDITIONS (CONT'D)																											
General Conditions – Compliance (Cont'd)																											
8 (Sch.3)	<p>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 land.</p> <p style="text-align: center;"><i>Table 3: Long term impact assessment criteria for particulate matter</i></p> <table border="1" data-bbox="338 579 1223 711"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>90 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>Annual</td> <td>30 µg/m³</td> </tr> </tbody> </table> <p style="text-align: center;"><i>Table 4: Short term impact assessment criteria for particulate matter</i></p> <table border="1" data-bbox="338 767 1149 866"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>50 µg/m³</td> </tr> </tbody> </table> <p style="text-align: center;"><i>Table 5: Long term impact assessment criteria for deposited dust</i></p> <table border="1" data-bbox="338 922 1229 1045"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Maximum increase in deposited dust level</th> <th>Maximum total deposited dust level</th> </tr> </thead> <tbody> <tr> <td>Deposited dust</td> <td>Annual</td> <td>2 g/m²/month</td> <td>4 g/m²/month</td> </tr> </tbody> </table> <p><i>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</i></p>	Pollutant	Averaging period	Criterion	Total suspended particulate (TSP) matter	Annual	90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	30 µg/m ³	Pollutant	Averaging period	Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	50 µg/m ³	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month	<ul style="list-style-type: none"> The Calga Sand Quarry will be managed to incorporate the operational safeguards and procedures proposed in the EIS and Amended Report. Air quality will be monitored as identified in the Air Quality Monitoring Program for the Calga Sand Quarry (see Part 2, Chapter 2.3 of the EMP,). 	<ul style="list-style-type: none"> Details of the incorporated safeguards and operating procedures will be presented in the Air Quality Management Plan (Part 2, Chapter 2.3 of the EMP). The results of monitoring will be summarised and presented in each AEMR. 	Quarry Manager
Pollutant	Averaging period	Criterion																									
Total suspended particulate (TSP) matter	Annual	90 µg/m ³																									
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Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
10 (Sch.3)	<p>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 recorded reduction of saturated thickness in privately-owned groundwater bores of 10 percent or greater.</p> <p>Notes:</p> <ul style="list-style-type: none"> <i>If the Applicant has 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 criteria in accordance with the negotiated agreement.</i> <i>The Applicant must establish the basis for determining development-related impact in the Groundwater Monitoring Program (see condition 15).</i> <i>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.</i> 	<ul style="list-style-type: none"> The saturated thickness of groundwater bores surrounding the Calga Sand Quarry will be monitored over time in accordance with a groundwater monitoring program prepared for the quarry. In the event a decrease of >10% is identified in any of these bores, and the decrease is not a result of natural variation, Rocla would initiate measures specified in the Groundwater Contingency Strategy which may include the provision of a compensatory water supply. 	<ul style="list-style-type: none"> Rocla is to prepare a Groundwater Contingency Strategy as Part 4 of the EMP. Details of groundwater monitoring and any subsequent mitigatory or compensatory measures will be included in each year's AEMR. 	RWC in conjunction with Peter Dundon and Associates.

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
21 (Sch.3)	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.	<ul style="list-style-type: none"> • A Rehabilitation and Landscape Management Plan will be prepared for the Calga Sand Quarry. • This Rehabilitation and Landscape Management Plan, which will provide for the progressive rehabilitation of the Calga Sand Quarry to prepare a landform generally consistent with that conceptually identified in the Amendment Report, will be submitted to the Director-General for endorsement. • A site plan identifying the location of open heathland / sedgeland in low lying and drainage areas (of >1ha). 	<ul style="list-style-type: none"> • A Rehabilitation and Landscape Management Plan will be prepared as Part 5 of the Calga Sand Quarry EMP. • Progressive rehabilitation will be reported each year in the AEMR. 	Quarry Manager

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
37 (Sch.3)	The Applicant shall secure the development to ensure public safety to the satisfaction of the Director-General.	<ul style="list-style-type: none"> The Calga Sand Quarry will be fenced and locked during non-operational hours. 	<ul style="list-style-type: none"> Rocla will inform the Director-General on completion of site fencing and request a letter of satisfaction of the safety / security measures from the Director-General. 	Quarry Manager
1 (Sch.4)	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 show that the development is complying with the criteria in schedule 3.	<ul style="list-style-type: none"> As specified by the condition. 	<ul style="list-style-type: none"> Written notification of the exceedances will be provided to the Director-General and relevant landowners / tenants. These stakeholders will be provided with quarterly monitoring reports until such time as compliance is regained. The results of monitoring and response to exceedances will be presented in each year's AEMR. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
2 (Sch.4)	<p>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 review of the impacts of the development on his/her land.</p> <p>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:</p> <ul style="list-style-type: none"> 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, 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 c) give the Director-General and landowner a copy of the independent review. 	<ul style="list-style-type: none"> • As specified by the condition. 	<ul style="list-style-type: none"> • As specified by the condition. 	Quarry Manager
3 (Sch.4)	<p>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.</p>	<ul style="list-style-type: none"> • On receipt of Director-General approval, Rocla will cease the independent review. 	<ul style="list-style-type: none"> • Written approval from Director-General required. 	Rocla Management



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
4 (Sch.4)	<p>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:</p> <ul style="list-style-type: none"> a) 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 c) secure a written agreement with the landowner to allow exceedances of the relevant criteria in schedule 3; 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 17 of schedule 3), to the satisfaction of the Director-General. 	<ul style="list-style-type: none"> • An action plan will be prepared, in consultation with relevant stakeholders and specialist consultants to document the practicable measures that can be taken to return the operation to compliance. The action plan will include follow-up monitoring to review the effectiveness of the actions. 	<ul style="list-style-type: none"> • Non-compliance action plan(s) to be prepared. • Negotiated agreement to be obtained. • The results of all monitoring and actions plans will be incorporated into the relevant section of each year's AEMR. 	Rocla Management
4 (Sch.4) (Cont'd)	<p>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.</p> <p>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.</p> <p>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).</p>	<ul style="list-style-type: none"> • In the event a return to compliance is impracticable, Rocla will either: <ul style="list-style-type: none"> a) obtain a written agreement with the affected party(ies); or b) initiate the Groundwater Contingency Strategy (Part 4 of the EMP). • As specified by the condition. 	<ul style="list-style-type: none"> • The Director-General will be informed in writing of the intention to discontinue the independent review. • Letter of approval from the Director-General to be obtained. 	Rocla Management

Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
5 (Sch.4)	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).	<ul style="list-style-type: none"> In the event of a dispute of the independent review, Rocla will inform the disputer of their opportunity to refer the matter to the Director-General. 	<ul style="list-style-type: none"> Any dispute is to be recorded and filed noting: <ol style="list-style-type: none"> identity of disputer; date of dispute; nature of dispute; information provided to disputer on options. 	Rocla Management
6 (Sch.4)	If any disputes arise from the implementation of the Groundwater Contingency Strategy (condition 17 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).	<ul style="list-style-type: none"> In the event of a dispute of the implementation of the Groundwater Contingency Strategy, Rocla will inform the disputer of their opportunity to refer the matter to the Director-General. 	<ul style="list-style-type: none"> Any dispute is to be recorded and filed noting: <ol style="list-style-type: none"> identity of disputer; date of dispute; nature of dispute; information provided to disputer on options. 	Rocla Management



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
7 (Sch.4)	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.	<ul style="list-style-type: none"> The findings of the Director-General are to be reviewed by a hydrogeologist to confirm or dispute these. 	<ul style="list-style-type: none"> Report from commissioned hydrogeologist. 	Rocla Management
8 (Sch.4)	<p>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:</p> <p>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:</p> <ul style="list-style-type: none"> 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; <p>b) the reasonable costs associated with:</p> <ul style="list-style-type: none"> relocating within the Gosford local government area, or to any other local government area determined 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 <p>c) reasonable compensation for any disturbance caused by the land acquisition process.</p>	<ul style="list-style-type: none"> As specified by the condition. 	<ul style="list-style-type: none"> A report will be prepared by Rocla (or a consultant to Rocla) detailing the rationale behind the acquisition offer. 	Rocla Management



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
8 (Sch.4) (Cont'd)	<p>d) the reasonable costs associated with:</p> <ul style="list-style-type: none"> • relocating within the Gosford local government area, or to any other local government area determined 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 <p>e) reasonable compensation for any disturbance caused by the land acquisition process.</p> <p>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.</p> <p>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.</p> <p>If either party disputes the independent valuer's determination, then the independent valuer should refer the matter back to the Director-General.</p> <p>Upon receiving such a referral, the Director-General shall appoint a panel comprising the:</p> <ul style="list-style-type: none"> (i) appointed independent valuer; (ii) Director-General and/or nominee/s; and (iii) President of the Law Society of NSW or nominee, <p>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.</p> <p>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.</p> <p>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.</p>	<ul style="list-style-type: none"> • As specified by the condition. 	<ul style="list-style-type: none"> • Written acquisition offer based on the findings of Director-General appointed panel (as required). 	



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
9 (Sch.4)	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.	<ul style="list-style-type: none"> As specified by the condition. 		Rocla Management
10 (Sch.4)	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.	<ul style="list-style-type: none"> As specified by the condition. 	<ul style="list-style-type: none"> Any agreement between Rocla and the landowner is to be documented and forwarded to the Department. 	Rocla Management
9 (Sch.5)	The Applicant shall, at its own expense: <ol style="list-style-type: none"> ensure that 2 of its representatives attend the Committee's meetings; provide the Committee with regular information on the environmental performance and management of the development; provide meeting facilities for the Committee; arrange site inspections for the Committee, if necessary; take minutes of the Committee's meetings; make these minutes available to the public; respond to any advice or recommendations the Committee may have in relation to the environmental 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. 	<ul style="list-style-type: none"> Meeting date to be scheduled 6 months in advance and confirmed 1 month in advance. Relevant documents, performance reviews to be provided in confirmation letter one month prior to meeting. Minutes to be taken and placed on Rocla's website. 	<ul style="list-style-type: none"> Minutes will be kept of each committee meeting and forwarded to the Director General. Response to committee's recommendations to be prepared and forwarded to the Director General. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
10. GENERAL CONDITIONS (CONT'D)				
General Conditions – Compliance (Cont'd)				
10 (Sch.5)	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: <ul style="list-style-type: none"> a) provide a copy of the relevant document/s to the Council, relevant agencies and the CCC; b) ensure that a copy of the relevant documents is made publicly available at the quarry; and c) put a copy of the relevant document/s on the Applicant’s website; to the satisfaction of the Director-General. 	<ul style="list-style-type: none"> • As specified by the condition. 	<ul style="list-style-type: none"> • As specified by the condition. 	Quarry Manager
11 (Sch.5)	During the life of the development, the Applicant shall: <ul style="list-style-type: none"> a) 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 b) update these results on a regular basis (at least every 3 months), to the satisfaction of the Director-General. <p><i>Note: The Applicant’s environmental management plans/protocols should specify the reporting provisions for each environmental aspect.</i></p>	<ul style="list-style-type: none"> • Rocla will develop an excel spreadsheet or access database for the recording of monitoring information. • Summarised information from this documented spreadsheet or database (in tabular or graphical form) will be uploaded to Rocla’s website every three months. 	<ul style="list-style-type: none"> • The quarterly summaries (uploaded to the website) will be printed and retained in the site office for 12 months. As such, four quarterly reports will be held at the site office at any one time. 	Quarry Manager



Condition No.	Condition / Commitment	Actions Required to Achieve Compliance	Documentation Required to Achieve Compliance	Personnel Responsible
11. CLOSURE REQUIREMENTS				
9 (Sch.2)	The Applicant shall ensure that all demolition work is carried out in accordance with AS 2601-2001: <i>The Demolition of Structures</i> , or its latest version.	<ul style="list-style-type: none"> Rocla will obtain/maintain a copy of the standard and review any demolition work against this. 	<ul style="list-style-type: none"> The Department will be notified in writing prior to any demolition work. 	Quarry Manager
40 (Sch.3)	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: <ol style="list-style-type: none"> define the objectives and criteria for quarry closure; 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 describe how the performance of these measures would be monitored over time. 	<ul style="list-style-type: none"> Rocla will consult with Gosford City Council to identify specific requirements for the preparation of the Quarry Exit Strategy. 	<ul style="list-style-type: none"> Prepare Quarry Exit Strategy. 	Rocla Management



Appendix 2

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Appendix 2: Environmental Incident Report and Register Forms



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Report Form

EMF 5.2 - INCIDENT REGISTER

Site:

No.	Date	Time	Location	Details	Type **	Reported by	Notified Y/N *	Corrective Action

* All incidents more serious than Minor must be reported to the General Manager. Incidents may need to be notified to Authorities.
Minor Incident - no external action likely. **Environmental Nuisance** - contact from regulators or a complaint. **Material Environmental Harm** - event with potential damage or clean-up costs of more than \$50,000. **Serious Environmental Harm** - event with potential damage or clean-up costs of more than \$50,000.

User Ref: EMF 5.2, Serial No: 318, Revision Level: 2.00
Refer to Rocla Intranet for latest revision

EMF 5.2A - ENVIRONMENTAL INCIDENT REPORT

Site:

Location of incident:

Date of incident:

Time of Incident:

Type*:

Description (What happened?):

Clean-up:

What was required?

Has clean-up been completed?

Notification:

Were Authorities involved? (If so specify which ones?)

Do Authorities (e.g. EPA) need to be notified?

Have they been notified?

Corrective Action Plan:

Site Manager (signature):

Date:

*** CLASSIFICATION OF INCIDENTS**

Minor incident - no external action likely

Environmental Nuisance - Contact from regulators or a complaint

Material Environmental Harm - event with potential damage or clean-up costs of more than \$5000

Serious Environmental Harm - event with potential damage or clean-up costs of more than \$50,000

All incidents more serious than Minor must be reported to Business Unit General Manager as soon as practical and within 24 hrs of occurrence.



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