



ENVIRONMENTAL MANAGEMENT STRATEGY

Wallerawang Quarry

FINAL

August 2020





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Prepared by
Umwelt (Australia) Pty Limited
on behalf of
Walker Quarries Pty Ltd

Project Director: Alex Irwin
Project Manager: Alex Irwin
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Lithgow

PO Box 307
Lithgow NSW 2790
ABN 82 003 061 890

T | 02 6352 3377
E | accounts@walkerquarries.com.au

www.walkerquarries.com.au



Orange

Office 1
3 Hampden Avenue
Orange NSW 2800

T | 1300 793 267
E | info@umwelt.com.au

www.umwelt.com.au



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Document Status

Rev No.	Reviewer		Approved for Issue	
	Name	Date	Name	Date
V0*	Alex Irwin	21 February 2019	Alex Irwin	26 February 2019
V1	Alex Irwin	1 April 2019	Alex Irwin	1 April 2019
V2.1	Alex Irwin	24 April 2020	Alex Irwin	24 April 2020
V2.2	Alex Irwin	13 August 2020	Johann van der Merwe (Walker Quarries)	14 August 2020

Note * V0 represents the first version of the EMS prepared by Umwelt Pty Ltd. This follows from Rev 4 produced by RW Corkery & Co. Pty Limited.

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Appendix 3	Compliance Review Template
Appendix 4	Pollution Incident Response Management Plan (PIRMP)

1.0 Scope

This Environmental Management Strategy (EMS) for the Wallerawang Quarry (the Quarry) has been reviewed and updated by Umwelt (Australia) Pty Limited (Umwelt) on behalf of Walker Quarries Pty Limited (Walker Quarries) in accordance with *Schedule 5 Condition 1 (Condition 5(1))* of Development Consent DA 344-11-2001. This version of the EMS (V2) was prepared following the approval of a modification (MOD 3) to DA 344-11-2001 on 26 February 2020.

The Wallerawang Quarry (the Quarry) is located approximately 8 kilometres (km) northwest of Lithgow (**Figure 1.1**Error! Reference source not found.) and is approved to produce 500 000 tonnes per annum (tpa) of hard rock aggregate material and sand. DA 344-11-2001 approves disturbance up to a maximum of 28.6 ha for the purpose of quartzite and other hard rock extraction, processing, stockpiling, management and on-site disposal of non-saleable (overburden) materials, and ancillary infrastructure (**Figure 1.2**Error! Reference source not found.).

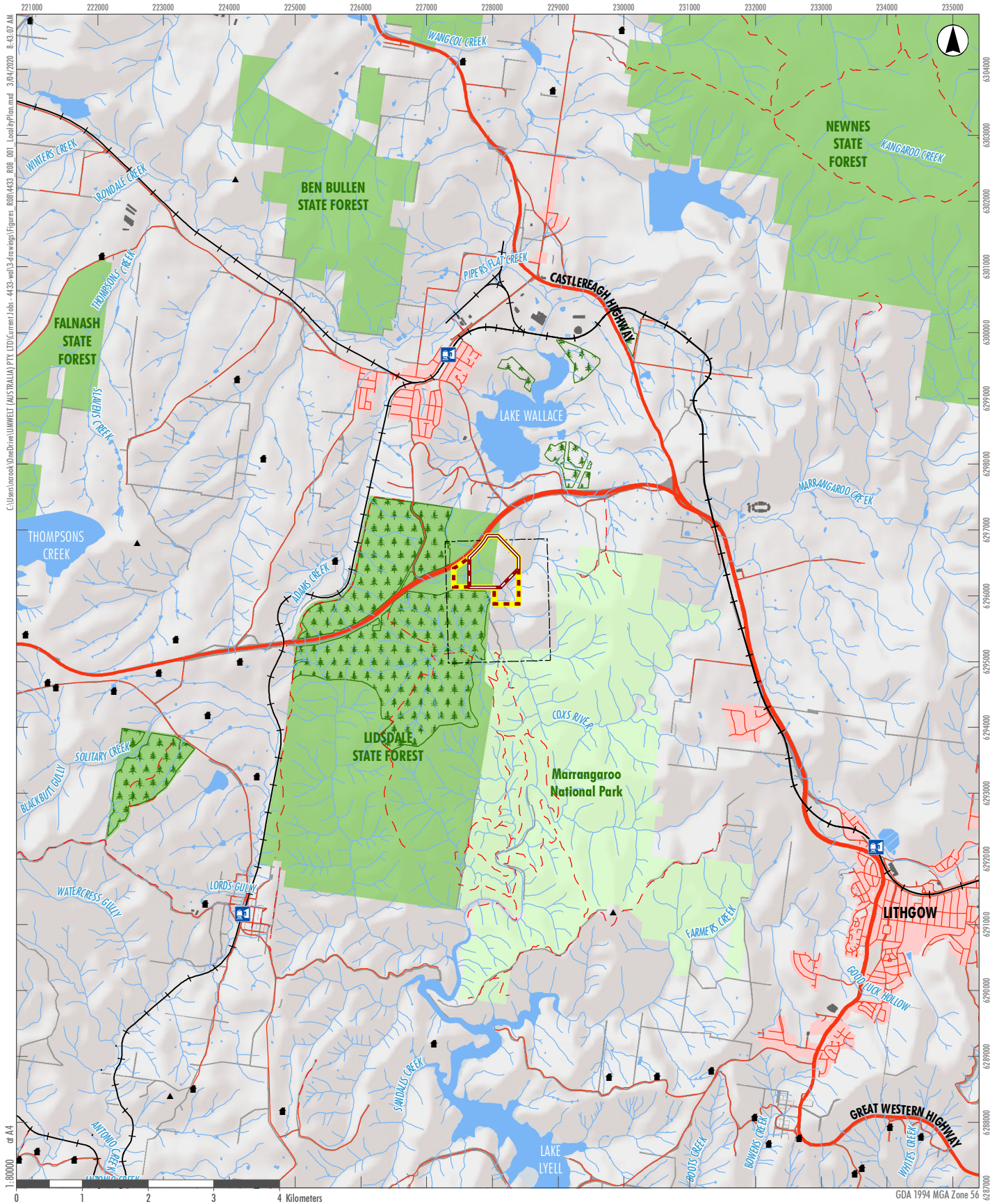
An Environmental Management Strategy was originally prepared and submitted by Sitegoal Pty Ltd to the then Department of Planning & Environment (DPE) in 2014 (but not approved). Following an Independent Environmental Audit (IEA) completed in 2015, an EMS was prepared by RW Corkery & Co Pty Limited and approved by the Secretary of the DPE in September 2016. The EMS has been reviewed and updated a number of times since September 2016, most notably following an Independent Environmental Audit (IEA) completed in July 2018 and after approval of Modifications 1 and 2 to DA 344-11-2001.

Table 1.1 provides the full history of EMS revisions.

Table 1.1 Document Status History

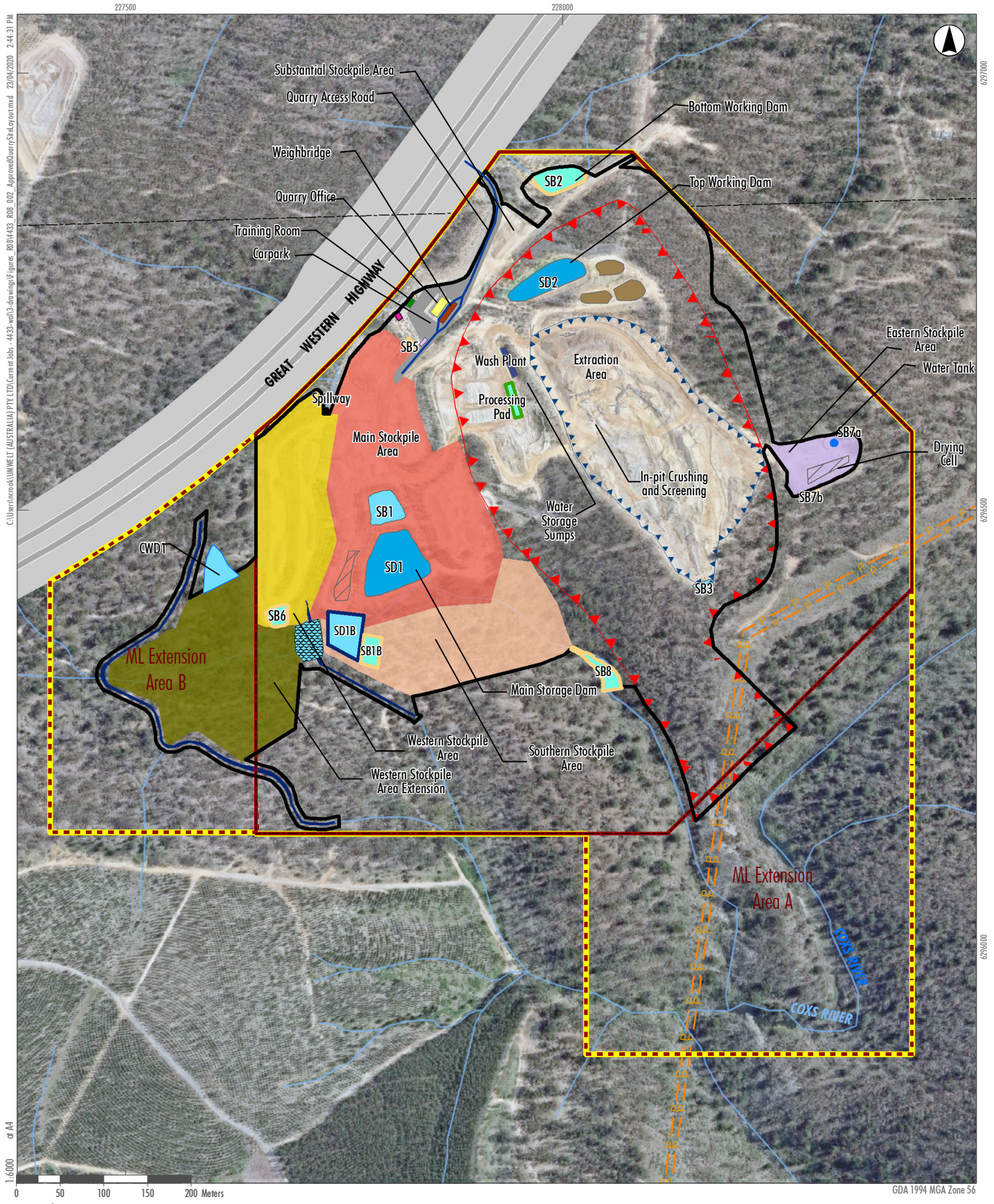
Rev No.	Prepared by		Purpose
	Name	Date	
0	P. Hensley	October 2014	Draft submitted to department prior to commencement
1	RW Corkery & Co	September 2016	Updated and approved following first IEA
2	RW Corkery & Co	November 2017	Updated following Modification 1 (issued August 2017)
3	RW Corkery & Co	September 2018	Updated Following 2 nd IEA
4	RW Corkery & Co	November 2018	Updated following 2018 Annual Review
V0	Alex Irwin	February 2019	Updated following Modification 2 (issued December 2018)
V1	Alex Irwin	April 2019	Updated following DPIE Review (March 2019)
V2.1	Alex Irwin	April 2020	Updated following Modification 2 (issued 26 February 2020)
V2.2	Alex Irwin	August 2020	Updated following DPIE review of V2.1

The EMS should be read in conjunction with the various management plans referenced throughout the document.



- Legend**
- Quarry Site Boundary
 - Quarry Site ML Extension
 - Quarry Site (ML1633)
 - EL 4473
 - State Forest
 - NPWS Estate

FIGURE 1.1
Locality Plan



- Legend**
- Quarry Site Boundary
 - Quarry Site (ML1633)
 - Quarry Site ML Extension
 - EL 4473
 - Disturbed Areas for Modified Operations
 - ▲ Approved Extraction Area
 - ▼ Current Extent of Extraction Area
 - Main Stockpile Area (935m AHD)
 - Southern Stockpile Area (935m AHD)
 - Western Stockpile Area
 - Western Stockpile Extension (940m AHD)
 - Eastern Stockpile Area
 - Clean Water Diversion
 - Sediment Basins
 - Settlement Ponds
 - Storage Dam
 - Water Tank
 - Rubbled Lined Drain
 - Clean Water Dam
 - Silt Cells
 - P Electricity Transmission Lines

FIGURE 1.2
Approved Quarry Site Layout

2.0 Site Description and Operations

2.1 Approved Activities

Approved activities at the Quarry are defined by the conditions of DA 344-11-2001 and are to be undertaken generally in accordance with the descriptions provided in the following documents.

- Environmental Impact Statement for the Proposed Wallerawang Quarry, dated November 2001 (Pacrim Environmental, 2001).
- Environmental Assessment for Modification to Operations at the Wallerawang Quarry (DA 344-11-2001), dated May 2017 (RWC, 2017).
- Statement of Environmental Effects for Proposed Modification No 2 (MOD 2) to DA 344-11-2001 (Wallerawang Quarry), dated October 2018 (RWC, 2018).
- Statement of Environmental Effects for Proposed Modification No 3 (MOD 3) to DA 344-11-2001 (Wallerawang Quarry), dated June 2019 (Umwelt, 2019).
- Wallerawang Quarry Mining Operations Plan (incorporating a Rehabilitation Management Plan) 4th MOP, for the period 20 July 2020 to 19 July 2025 (Umwelt, 2020).

DA 344-11-2004 provides for the annual production of up to 500,000 tonnes (t) of quarry products from an open cut area of approximately 13.3 ha to within 2 m of the groundwater table (and to a maximum depth of 860 m AHD) for 20 years (until July 2040). Error! Reference source not found. presents the layout of the Quarry Site as approved by the modification to the development consent issued on 25 August 2017. In summary, the following activities are undertaken, subject to market demand:

- Where it can be accessed, topsoil will be stripped and stockpiled for use in rehabilitation activities. Vegetation that is cleared will be selectively placed within areas being revegetated to take advantage of the existing seed bank, where available.
- Raw material is extracted using conventional drill and blast, load and haul methods.
- Overburden material is temporarily stockpiled within the footprint of the open cut from where it is either used within the site for approved construction activities or sold.
- Processing of raw material involving crushing, screening and washing using fixed or mobile plant to meet customer requirements.
- Product transportation involves loading of road registered trucks. Trucks then enter the Great Western Highway directly from the Quarry Site entrance.
- Progressive rehabilitation of eastern slopes of the extraction area and rehabilitation of the remaining landform at Quarry closure in accordance with the approved Mining Operations Plan.

Operations at the Quarry commenced in 2014 with the construction of a new intersection with the Great Western Highway. Quarrying activities commenced in late 2014 with the Quarry now producing a range of aggregates, pebbles and sand.

2.2 Hours of Operation

All operations will be undertaken in accordance with the approved hours of operation presented in **Table 2.1**.

Table 2.1 Approved Hours of Operation

Activity	Permissible Hours
Quarrying operations	7:00 am to 6:00 pm Monday to Friday; 8:00 am to 1:00 pm Saturday; and At no time on Sundays or public holidays.
Loading and despatch of trucks	May be conducted at any time, provided that these activities comply with the noise criteria in Table 2 of DA 344-11-2001, dated December 2018.
Blasting	9:00 am to 5:00 pm Monday to Friday; 9:00 am to 1:00 pm Saturday; and At no time on Sundays or public holidays.
Maintenance.	May be conducted at any time, provided that these activities are not audible at any privately-owned residence.

Source: DA 344-11-2001 MOD3 dated 26 February 2020 – *Schedule 3 Condition 1*

It is noted that under *Condition 2(3)* of DA 344-11-2001, material may be delivered to the Quarry Site outside of the hours of operation if required by police or other authorities for safety reasons and/or the operation or personnel or equipment are endangered. In such circumstances prior notification shall be provided to the EPA and affected residents prior undertaking the activities. Where prior notification is not possible, this will be undertaken at the first safe opportunity following the works.

3.0 Strategic Framework for Environmental Management

3.1 Environmental Policy

The Environmental Policy of Walker Quarries (**Appendix 1**) is to carry out mining, processing, transport and other ancillary activities at Wallerawang Quarry in a manner that complies with relevant environmental legislation and is environmentally responsible. Walker Quarries is committed to ongoing improvements in its environmental management and aims to undertake regular reviews of this environmental policy to ensure that it remains relevant and appropriate for the existing and future operations.

In recognition of the corporate environmental policy, Walker Quarries will endeavour to meet the following objectives:

- comply with all applicable Commonwealth and State government legislation to protect the environment
- establish effective working relationships with government agencies responsible for land management within and surrounding the Quarry
- develop and maintain environmental performance in line with industry standards by implementing an EMS (this document) appropriate to the scale of the operation
- establish a reporting process and verification procedure for any complaints, incidents or non-compliances with statutory approvals
- carry out environmental training to ensure that site personnel are aware of their environmental responsibilities
- undertake appropriate reviews and audits of operations to measure progress and to ensure compliance with the environmental policy.

The Environmental Policy and objectives have been endorsed by Walker Quarries Board of Directors and therefore commit Walker Quarries to achieving its objectives of environmental excellence.

3.2 Integrated Management

The EMS provides the overall framework for environmental management and an overall strategy for Quarry personnel to ensure environmental impacts are minimised and legislative and other requirements are complied with.

The principal strategies described within the EMS, including delegation of responsibilities, compliance management and monitoring, complaints management conflict resolution, consultation/information dissemination processes and adaptive management, form the basis for more detailed descriptions provided in the various technical Environmental Management Plans (EMP) (refer to **Section 6.2**).

4.0 Roles and Responsibility

Environmental management at the Quarry is the responsibility all employees and contractors, with the Quarry Manager having overall responsibility for environmental management of the site. **Table 4.1** outlines the responsibility of Walker Quarries personnel with respect to environmental management of the Quarry Site.

Table 4.1 Roles and Responsibilities of Personnel with Respect to Environmental Management

Role	Responsibilities
Managing Director	<ul style="list-style-type: none"> Responsible for the overall compliance and performance of the Quarry and operations. Ensure adequate resources are available to implement the EMS.
Quarry Manager, or his/her nominee	<ul style="list-style-type: none"> Ensure the implementation of the EMS. Oversee day-to-day environmental and rehabilitation performance across the site. Ensure suitably trained personnel are available to implement the responsibilities of the Quarry Manager during any time of the Quarry Manager's absence from site. Ensure environmental management documentation is up to date and available to site personnel where requested. Ensure the environmental monitoring program is implemented and results are regularly reviewed/evaluated and entered into the environmental database. Provide primary contact for complaints and supply follow-up information to any complainant. Initiate investigations of complaints as received from the public or government agency. Prepare, or commission a report to government agencies or neighbours following a notifiable pollution incident (Section 7.3). Inform the Managing Director of any incidents and measures taken to avoid, remediate or mitigate environmental impacts. Ensure employees are aware of responsibilities through training and awareness programs. Conduct reviews of the EMS (Section 8.2).
On-site Personnel and Contract Staff	<ul style="list-style-type: none"> Familiarise themselves with environmental management requirements and procedures relevant to their work area. Fully implement the relevant control measures within environmental management documentation. Operate in manner that minimises risks of incidents to themselves, fellow workers or the surrounding environment. Notify the Quarry Manager of incidents or potential incidents that may result in environmental harm. Follow instruction and procedures issued by Walker Quarries with respect to environmental management.
Truck Drivers	<ul style="list-style-type: none"> Follow any instructions and procedures issued by any on-site personnel. Ensure loads are covered prior to exiting the Quarry Site.

5.0 Statutory Requirements

5.1 Development Consent DA 344-11-2001

This EMS has been prepared in accordance with Schedule 5 *Condition 1* of DA 344-11-2001 and generally conforms to the ISO 14001 Guidelines. **Table 5.1** presents where each requirement identified in *Schedule 5 Condition 1* has been addressed in this document.

Table 5.1 EMS Conditional Requirements of DA 344–11–2001 dated August 2017

No	Schedule	Section
Environmental Management Strategy		
5(1)	The Applicant shall prepare and implement an EMS for the development to the satisfaction of the Secretary. This strategy must:	
	a. Be submitted to the Secretary for approval within 6 months of the Secretary requiring preparation of the strategy by notice to the Applicant;	Noted
	b. Provide the overall strategic context framework for environmental management of the development;	3.0
	c. Identify the statutory requirements approvals that apply to the development;	5.0
	d. Describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	4.0
	e. Describe the detailed procedures that would be implemented to,	
	• Keep the local community and relevant agencies informed about the operation and environmental performance of the development	7.1
	• Receive, record, handle and respond to complaints;	7.2.1
	• Resolve any disputes that may arise during the course of the development;	7.2.2
	• Respond to any non-compliance;	7.3, 7.4
• Respond to emergencies; and	7.6	
f. Include:		
• copies of any strategies, plans and programs approved under the conditions of this consent; and	6.2, Appendix 2	
• a clear plan depicting all monitoring to be carried out under the conditions of this consent.	6.3, Appendix 2	
The Applicant must implement the Environmental Management Strategy as approved from time to time by the Secretary.	Noted	
Management Plan Requirements		
5(4)	The Applicant must continue to apply existing approved management plans, strategies or monitoring programs that have most recently been approved under this consent, until the approval of a similar plan, strategy or program under this consent.	4.0, 6.2
5(5)	Within 3 months of the submission of an: <ul style="list-style-type: none"> (a) incident report under condition 9 below (b) Annual Review under condition 11 below (c) audit report under condition 14 below (d) any modifications to this consent, 	8.2

No	Schedule	Section
	the Applicant must review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. The applicant must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.	

5.2 Environment Protection Licence 13172

Environment Protection Licence (EPL) 13172 has been issued by the NSW Environment Protection Authority (EPA). The following scheduled activities, as defined by the *Protection of the Environment Operations Act 1997* will be approved for the Quarry:

- Crushing, grinding or separating: >100 000 to 500 000 tonnes processed.
- Land-based extractive activity: >100 000 to 500 000 tonnes extracted processed or stored.
- Mining for minerals: >100 000 to 500 000 tonnes produced.

5.3 Mining Lease 1633

Mineral Authorities issued to Walker Quarries for the Quarry are listed in **Table 5.2** below.

Table 5.2 Mineral Authorities

Issuing Authority	Approval Number	Date of Issue	Expiry	Minerals
Minister for Natural Resources	EL 4473	13 January 1993	12 January 2023	Group 2
Minister for Industry, Resources & Energy (under delegation)	ML 1633	15 July 2009	15 July 2040	Quartzite

Mining Lease Application (MLA) 570 for extension to ML 1633 was lodged with the Division of Resources & Geoscience on 24 June 2019. The required advertisement of the application was made on 10 July 2019 and confirmation of payment of the application fee and coordinates of the application area supplied to the DRG on 13 July 2019. Walker Quarries awaits determination of MLA 570.

6.0 Environmental Performance Management and Monitoring

6.1 Environmental Management Objectives and Outcomes

Walker Quarries principal objectives and key performance outcomes in the development and operation of the Quarry Site are listed in **Table 6.1**. These objectives and key performance outcomes will be updated following any review or modification of the relevant management plans to improve environmental performance for the Quarry.

Table 6.1 Environmental Objectives and Outcomes

Objectives	Key Performance Outcomes
General	
To ensure compliance with the conditions of DA 344-11-2001 and EPL 13172 and reasonable community expectations.	<ul style="list-style-type: none"> Compliance with all relevant criteria and reasonable community expectations, as determined in consultation with the relevant government agencies.
To implement an effective complaints handling and response protocol.	<ul style="list-style-type: none"> Complaints (if any) handled and responded to in an appropriate manner. All complaints recorded and reported in accordance with annual reporting requirements.
To implement appropriate corrective and preventative actions, if required.	<ul style="list-style-type: none"> Corrective and preventative actions implemented, if required.
To implement an appropriate incident reporting program, if required.	<ul style="list-style-type: none"> Incidents (if any) reported in an appropriate manner.
Noise	
To implement appropriate noise management and mitigation measures during all stages of the Quarry so as to ensure that harm to the environment is minimised as far as possible.	<ul style="list-style-type: none"> All identified noise management and mitigation measures implemented.
To implement an appropriate noise monitoring program to establish compliance or otherwise with relevant criteria during all stages of Quarry operation.	<ul style="list-style-type: none"> All identified monitoring undertaken in accordance with the relevant procedures and at the relevant intervals.
Blasting	
To implement appropriate blast management and mitigation measures during all stages of Quarry operation.	<ul style="list-style-type: none"> All identified blast management and mitigation measures implemented.
To implement an appropriate blast monitoring program to establish compliance or otherwise with relevant criteria during all stages of Quarry operation.	<ul style="list-style-type: none"> All identified monitoring undertaken in accordance with the relevant procedures and at the relevant intervals.

Objectives	Key Performance Outcomes
Air Quality	
<p>To implement appropriate air quality management and mitigation measures during all stages of the Quarry so as to minimise harm to the environment.</p>	<ul style="list-style-type: none"> All identified air quality management and mitigation measures implemented.
<p>To implement a monitoring program to establish compliance or otherwise with relevant criteria during all stages of Quarry operation.</p>	<ul style="list-style-type: none"> All identified monitoring undertaken in accordance with the relevant procedures and at the relevant intervals.
Water	
<p>To implement appropriate water management and mitigation measures during all stages of the Quarry so as to ensure that harm to the environment is minimised as far as possible.</p>	<ul style="list-style-type: none"> Implementation of the SWMP. Discharge of water in accordance with EPL 13172 criteria. No reportable incidents related to water management or pollution.
<p>To implement an appropriate monitoring program which reviews compliance with relevant criteria during all stages of the Quarry.</p>	<ul style="list-style-type: none"> All identified monitoring is undertaken in accordance with the relevant procedures and at the relevant intervals. Monitoring results are published and reported annually within the Annual Review/Annual Return.
<p>To implement continual improvement for investigating, implementing and reporting on reasonable and feasible measures to improve water quality and reduce soil loss.</p>	<ul style="list-style-type: none"> Annual Review includes a review of the SWMP, which is updated as required in response to this review or a review following a reported incident.
<p>To ensure that appropriate contingency and emergency management plans are in place and regularly reviewed.</p>	<ul style="list-style-type: none"> Contingency and emergency management plans are prepared for all relevant contingencies and regularly reviewed and upgraded.
Biodiversity	
<p>To minimise and measure impact to biodiversity.</p>	<ul style="list-style-type: none"> Implementation of the management and mitigation measures nominated in the Biodiversity Management Plan. Establishment of performance indicators and targets. Achievement of performance targets or implementation corrective actions. Actively manage threats to biodiversity through innovative land management practices.
<p>To avoid or minimise impacts on threatened flora or fauna, including but not limited to the Purple Copper Butterfly and its habitat (<i>Bursaria spinosa</i>).</p>	<ul style="list-style-type: none"> Threatened species, or their habitat identified and described. Measures implemented to minimise direct and/or indirect impacts. Appropriate offsets implemented.
<p>To offset any unavoidable impacts on biodiversity</p>	<ul style="list-style-type: none"> Implementation of a BOS in accordance with the NSW Biodiversity Offsets Scheme.
<p>To appropriately manage sections of the Quarry Site with remaining vegetation to achieve the approved final landform and land use.</p>	<ul style="list-style-type: none"> Operations managed in a manner that does not result in off-site impacts and ensures that the identified final landform and land use is established.

Objectives	Key Performance Outcomes
Traffic	
<p>To effectively manage Quarry-related traffic to minimise conflict between vehicles using the Great Western Highway.</p>	<ul style="list-style-type: none"> Complaints related to driver performance are minimised and actioned appropriately. Zero incidents involving Quarry-related traffic.
Rehabilitation	
<p>Land Use Produce a sustainable native woodland community with management requirements no greater than the surrounding landforms. Minimise adverse socio-economic outcomes following mine closure.</p>	<ul style="list-style-type: none"> Rehabilitate the Quarry Site in accordance with <i>Plan 4</i> of the MOP. Consult with the community and government agencies in relation to the post-mining land use and rehabilitate the Mine Site accordingly.
<p>Landform Provide a low maintenance, geotechnically stable and safe, non-polluting landform and provides land suitable for the proposed final land use. Construct the final landform such that it is self-sustaining. Provide rehabilitated woodland communities which adjoin conserved and improved native vegetation remnants to create a contiguous corridor of woodland vegetation.</p>	<ul style="list-style-type: none"> Geotechnical results show the landform is stable. The final landform has maintenance requirements consistent with the agreed post mining land use(s). Rehabilitate the Quarry Site in accordance with <i>Plan 4</i> of the MOP.
<p>Biodiversity Establish a native ecosystem over the Quarry Site (excluding the access tracks and water management features to be retained) to develop a landform that is self-sustaining, low maintenance, and closely resembles the ecosystem surrounding the Quarry Site.</p>	<ul style="list-style-type: none"> Establish a Biodiversity Offset Strategy and prevent disturbance to remnant native vegetation (not approved for disturbance by DA 344-11-2001).
<p>Surface Infrastructure Decommission and remove all surface infrastructure (unless required for a lawful post mining land use).</p>	<ul style="list-style-type: none"> All surface infrastructure removed (unless required for a lawful post mining land use).
<p>Final Voids Ensure the final void are safe, stable and secure.</p>	<ul style="list-style-type: none"> Construct a safety bund around the void.
<p>Other Allow for the relinquishment of the Mining Lease and the return of the security lodged over the Mining Lease at the end of the mine life.</p>	<ul style="list-style-type: none"> Relinquishment completed within 5 years of final rehabilitation.
Heritage	
<p>To appropriately manage Aboriginal objects that may be encountered during Quarry development.</p>	<ul style="list-style-type: none"> Preparation and implementation of an Aboriginal Cultural Heritage Management Plan (ACHMP). Preparation and implementation of an Unanticipated Finds Protocol. Salvage of identified Site WQ1 in accordance with the surface salvage procedures of the ACHMP and any further

Objectives	Key Performance Outcomes
	reasonable requests of the Registered Aboriginal Parties (RAPs) of the development ¹ .
To ensure that the development does not cause any direct or indirect impact on any identified heritage item located outside the approved disturbance area	<ul style="list-style-type: none"> Surface disturbance is restricted to the nominated disturbance footprint of the Quarry (unless further approval is obtained from a suitably qualified archaeologist and the RAPs).
To implement appropriate consultation and involvement of the Bathurst Local Aboriginal Land Council and other Aboriginal stakeholders in the conservation and management of the Aboriginal heritage.	<ul style="list-style-type: none"> Implementation of the Aboriginal Cultural Heritage Consultation Requirements for Proponents.
Bushfire	
To ensure that activities are managed in a manner that reduces to an acceptable level the risk of ignition of bushfire.	<ul style="list-style-type: none"> No bushfires are initiated within the Quarry Site as a result of Quarry activities.
To ensure that measures are implemented to allow appropriate management of bushfires within the Quarry Site.	<ul style="list-style-type: none"> Any ignition within the Quarry Site is managed/extinguished without harm to life or property.
Waste	
Employees are educated in the importance of waste stream segregation for recycling.	<ul style="list-style-type: none"> Informed workforce on the management of waste and recycling.
The ease of waste storage, handling, disposal and tracking is improved.	<ul style="list-style-type: none"> Efficient waste management strategies implemented.
The potential for contamination of general waste streams is reduced.	<ul style="list-style-type: none"> The potential for contamination by general waste has been minimised.
The costs of disposal for some items can potentially be reduced.	<ul style="list-style-type: none"> Disposal of general waste minimised.

6.2 Environmental Management Documentation

In order to meet the environmental objectives described in **Section 6.1**, and in accordance with the conditional requirements of DA 344-11-2001, Walker Quarries has prepared a range of environmental management documentation to ensure that specific management measures are implemented for issues identified in DA 344-11-2001. The environmental management documentation for the Quarry has been prepared to describe the environmental performance criteria selected by Walker Quarries and the measures that would be implemented to meet these criteria, monitor performance and report on compliance.

The following management plans have been prepared and are implemented by Walker Quarries.

- Noise Management Plan.
- Blast Management and Explosives Control Plan.
- Soil and Water Management Plan (incorporating an Erosion and Sediment Control Plan).

¹ The following are identified RAPs of the development: Yurrandaali Cultural Services, Barraby Cultural Services, Murra Bidgee Mullangari Aboriginal Corporation Cultural Heritage, Mingaan Wiradjuri Aboriginal Corporation, Merrigarn, Muragadi Heritage Indigenous Corporation, Yulay Cultural Service, Warrabinga Native Title Aboriginal Corporation, Gundungurra Tribal Council Aboriginal Corporation and Bathurst Local Aboriginal Land Council.

- Biodiversity Management Plan.
- Bushfire Management Plan.
- Air Quality Management Plan.
- Aboriginal Cultural Heritage Management Plan
- Pollution Incident Response Management Plan.

In addition, an approved *Mining Operations Plan* (MOP) (incorporating a *Rehabilitation Management Plan*) guides progressive and final rehabilitation of the Quarry Site. The current MOP (Umwelt, 2020) provides this guidance for the period to July 2025 with future MOPs (or Rehabilitation Plans) to be prepared and approved by the NSW Resources Regulator throughout the life of the Quarry.

Revisions to these plans will be periodically completed and submitted to the relevant regulatory authority for approval or endorsement over the life of the Quarry (in accordance with Condition 5(5) of DA 344-11-2001 – refer to **Section 8.2**). Whilst these revisions are prepared and assessed, Walker Quarries will continue to apply existing approved management plan, strategy or monitoring program, until the approval or endorsement is received.

All management plans can be viewed on Walker Quarries website (<http://walkerquarries.com.au/statutory-information/>).

6.3 Environmental Monitoring Program

An *Environmental Monitoring Program* is maintained by Walker Quarries which consolidates the environmental monitoring requirements of the individual management plans into a single location. A copy of the *Environmental Monitoring Program* is provided as **Appendix 2** and is also available on the Walker Quarries website (<http://walkerquarries.com.au/statutory-information/>).

In order to demonstrate compliance with environmental criteria nominated for the Quarry (as included in the statutory approvals noted in **Section 5.0**), and to measure environmental performance of the Quarry, monitoring of the following will be undertaken (in accordance with the referenced EMP).

- noise generated by Quarry operations (*Noise Management Plan*)
- noise and vibration generated by Quarry blasting activities (*Blasting Management Plan*)
- dust and airborne particulate emissions generated by the Quarry (*Air Quality Management Plan*).
- water quality of discharged and receiving waters (*Soil and Water Management Plan*).
- potential impacts on local vegetation and threatened species (*Biodiversity Management Plan*).

The *Environmental Monitoring Program* provides information on the location, frequency, criteria, timing and record keeping for monitoring the relevant emissions, outputs or activities.

The Quarry Manager is responsible for the implementation and continued monitoring requirements for the Quarry. Copies of monitoring results are maintained on the Walker Quarries website (<http://walkerquarries.com.au/statutory-information/>).

6.4 Progressive and Final Rehabilitation

Final rehabilitation of the Quarry will involve removal of all infrastructure and roads, deep ripping of the final landform, spreading of available topsoil and revegetation with native grasses, shrubs and canopy trees that are endemic to the local area. Activities proposed during operations and post-closure are described in detail in the MOP for the Quarry (Umwelt, 2020). *Plan 4* of the MOP provides the proposed rehabilitated landform of the Quarry on completion of operations.

The primary objectives of rehabilitation are as follows:

- produce a safe, hydraulically and geotechnically stable and non-polluting landform which is fit for the intended post-development land use(s) (which will be determined closer to closure of the Quarry)
- produce a final landform which is integrated with surrounding natural landforms as far as is reasonable and feasible, and which minimises visual impacts when viewed from surrounding land
- decommission and remove all surface infrastructure, unless otherwise agreed with the landowner and approved by the DPIE
- minimise the drainage catchment of the final void
- re-establish a Eucalypt woodland consistent with surrounding vegetation.

Rehabilitation is to be undertaken progressively, i.e. as areas of the Quarry Site are completed and no longer required for operational purposes they will be rehabilitated in accordance with approved plans. As part of progressive rehabilitation, Walker Quarries will:

- minimise erosion of the landform to be rehabilitated
- minimise the area exposed for dust generation at any time and implement dust suppression as required
- maximise the direct transfer of soil and vegetation removed from active operational areas to areas under rehabilitation
- maximise the retention of a seed bank during mining activities

7.0 Environmental Management Procedures

7.1 Consultation and Information Distribution

7.1.1 Community Consultative Committee

In accordance with *Condition 5(8)* of DA 344-11-2001 a Community Consultative Committee (CCC) was formed in January 2010. The committee comprises representatives of Lithgow council, Walker Quarries and the community. Meetings are held approximately every 6 months with meeting minutes published on Walker Quarries website or are made available from committee members or placed on display on their website.

7.1.2 Environmental Monitoring Documentation

Walker Quarries will retain records of meteorological monitoring and environmental monitoring for a minimum period of 4 years. Monitoring records will be made available to relevant government authorities following a written request.

7.1.3 Reporting and Publication of Monitoring Data

The results of all monitoring undertaken is made publicly available on the Walker Quarries website (<http://walkerquarries.com.au/statutory-information/>) in accordance with Section 66(6) of the *Protection of the Environment Operations Act 1997* and the current version of EPA's guideline "*Requirements for publishing pollution monitoring data*" (EPA, 2013). The Quarry Manager is responsible for publication of all relevant monitoring information.

A summary of all monitoring data and incidents, including dates of occurrence, corrective measures taken and success of these measures, will be compiled and reported in the Annual Review, submitted by the end of September each and required by Schedule 5(12) of DA 344-11-2001 to the DPIE. Walker Quarries will include all environmental monitoring reports as appendices to the Annual Review which is published on their website.

7.2 Complaints Management and Dispute Resolution

7.2.1 Complaints Handling

In order to receive, record and respond to any complaints in a timely manner, Walker Quarries has established the following communication methods:

Telephone: 02 6324 4066

Postal address: PO Box 307, Lithgow NSW 2790

Email: walkerquarries@bigpond.com.au

Dedicated section of their website: <http://walkerquarries.com.au/complaints/>

All complaints will be registered in a database and appropriate action will be taken within two working days to determine the cause of the complaint and identify appropriate actions to remediate the complaint source. A detailed written response will be provided within 10 days.

The following information (where it can be reasonably obtained) will be recorded in the database:

- the date/time the complaint was made
- complainant's name
- complainant's telephone number and/or email address
- nature of complaint.

The nature of the response will depend on the nature and source of complaint but will include one or more of the following actions:

1. Liaison with the complainant to ascertain all details and to identify the nature and source of the complaint and provide supplementary details for the log. Details recorded in the log will include:
 - the date and time of the complaint
 - the method by which the complaint was made
 - details of the person making the complaint
 - the nature of the complaint
 - action taken in relation to the complaint including any follow-up contact
 - if no action, the reason why.
2. As appropriate, the initiation of monitoring or other investigations to verify or otherwise the exceedance or non-compliance with approval or licence condition(s).
3. Initiation of appropriate changes in operating practices or procedures.
4. Conducting a follow-up interview with the resident to determine their level of satisfaction with the response and the resultant outcome.

A complaints register is maintained on the Walker Quarries website and is updated monthly (<http://walkerquarries.com.au/complaint-register/>). A summary of the complaints received in each 12-month period will also be included in each Annual Review to DPIE. The Quarry Manager will be responsible for the recording of the complaint, response action requirements and updating of the database and website.

7.2.2 Dispute Resolution

Specific matters for which dispute resolution may be necessary include:

- damage to a property within 2 km of the Quarry Site as a result of blasting impacts (*Schedule 3(5)* of DA 344-11-2001), and
- mitigation of visual impacts at residences to the west or northwest of the Quarry Site (*Schedule 3(33)* and *Schedule 4(3)* of DA 344-11-2001).

In the event that any complainant (including but not limited to (a) and (b) above) does not consider that the response or reactions adequately address their concerns, the following procedure will be adopted:

- A meeting will be convened with the Operations Manager, Quarry Manager or other senior personnel to seek resolution of the matter. The complainant will be provided with a written response, detailing the results of investigations undertaken and the agreed actions to be taken regarding the measures to be implemented.
- On implementation of the nominated measures, a further meeting will be convened to seek advice of satisfaction, or otherwise, regarding the outcomes.

If the complainant and Walker Quarries continue to disagree on how the issue may be resolved, either party may refer the matter to the Secretary of DPIE (in accordance with the independent dispute resolution process of the DPIE identified in **Figure 7.1**).

7.3 Incident Management

7.3.1 Incident Identification

An incident is defined as “a set of circumstances that:

- causes or threatens to cause material harm to the environment and/or
- breaches or exceeds the limits or performance measures/criteria.”

Condition R2 of EPL 13172 requires that Walker Quarries must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident.

In accordance with the definition provided by Section 147 of the POEO Act, harm to the environment is deemed to be material if:

- a) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial or
- b) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations).

An incident which causes or threatens to cause material harm to the environment (and may or may not result in an exceedance of noise criteria) is referred to as a **Pollution Incident**.

An incident which breaches or exceeds the limits or performance measures/criteria is referred to as a **Non-compliance**.

It is noted that an incident may be defined as both a Pollution Incident and a Non-compliance.

Incidents which pose a real or potential threat to human health or safety are identified as emergency incidents and are considered separately (refer to **Section 7.3.1**).

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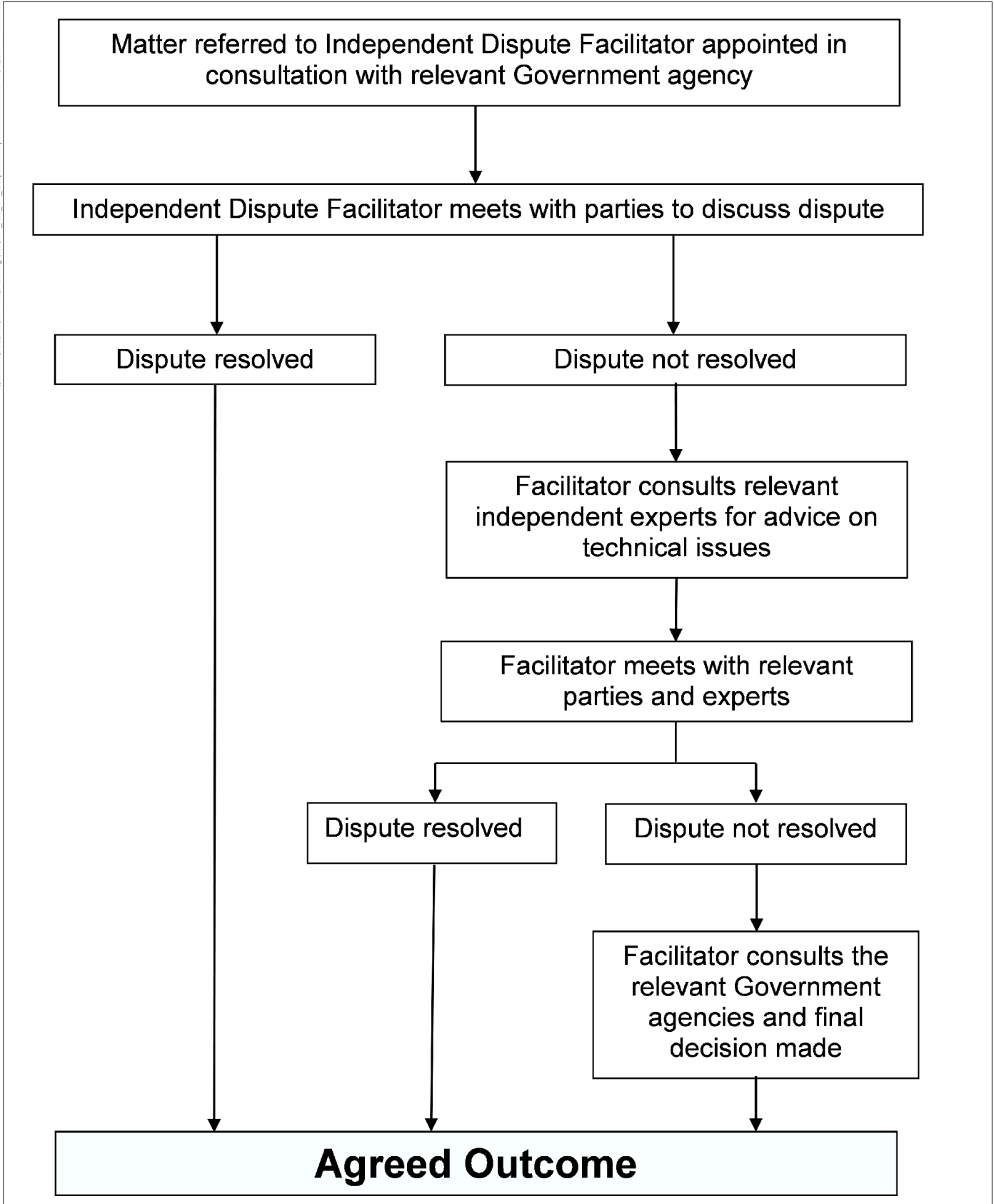


FIGURE 7.1

Independent Dispute Resolution Process

7.3.2 Pollution Incidents

An incident which causes or threatens to cause material harm to the environment (and may or may not result in an exceedance of air quality criteria) is referred to as a Pollution Incident.

A pollution incident is defined in the EPA Guideline to the Preparation of Pollution Incident Response Management Plan (PIRMP) as:

“an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise.”²

Walker Quarries has prepared and implements a PIRMP to guide the incident management within the Quarry. The PIRMP, which can be viewed or downloaded from the Walker Quarries website (<https://walkerquarries.com.au/statutory-information/>), is based on the *Guideline to the Preparation of Pollution Incident Response Management Plans* published by the EPA.

The PIRMP is a plan which includes an inventory of pollutants, identifies potential pollution incidents and likelihood, describes pre-emptive action to be taken, safety equipment needed, notification procedures, actions to be taken immediately following a pollution incident, training requirements and plan testing protocols.

7.3.3 Non-Compliance

On identification of a non-compliance, which may follow receipt of a complaint, the Quarry Manager will be notified and an investigation into the cause or source of the non-compliant or complaint causing emissions, activity or event commenced.

On identification of the non-compliant activity, source of the emission, or event, the Quarry Manager (or other personnel as delegated) will implement one or more corrective measures (in accordance with **Section 7.4.2** and the relevant management plan) to cease and/or remediate the incident.

An investigation into the cause of the incident will be undertaken involving the personnel involved, supervisor personnel and the Quarry Manager. The investigation will review all reasonable and feasible steps which may be taken to:

- prevent recurrence and/or
- remediate any spill, pollution or other effects of the non-compliance.

7.3.4 Notification

7.3.4.1 Pollution Incident

Immediately after Walker Quarries becomes aware of a pollution incident, i.e. without delay, written notification will be emailed to the DPIE at the following address: compliance@planning.nsw.gov.au.

² See Section 2.1 of the document *Guideline to the Preparation of Pollution Incident Response Management Plans (EPA, 2012)*.

Unless extenuating circumstances prevail such as a requirement to actively manage an incident, notification of an incident will be made on the day or, or the day Walker Quarries becomes aware of, the incident.

Written notification of a pollution incident will:

- (a) identify the development and application number,
- (b) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident, i.e. non-compliance or pollution),
- (c) identify how the incident was detected,
- (d) identify when the Applicant became aware of the incident,
- (e) identify any actual or potential non-compliance with the conditions of this consent,
- (f) describe what immediate steps were taken in relation to the incident,
- (g) identify further action(s) that will be taken in relation to the incident, and
- (h) identify a project contact for further communication regarding the incident.

Where any of the above cannot be provided immediately following identification of the incident, e.g. identification of actual or potential non-compliance with the conditions of this consent, this will not be relied upon to delay written notification. If required, the notification will make commitment to provide follow-up information to satisfy any of the above requirements.

Walker Quarries will also notify the EPA, other regulatory authorities and local community (as relevant) in accordance with the procedures nominated in the Quarry Pollution Incident Management Response Management plan (PIRMP) (**Appendix 4**).

7.3.4.2 Non-compliance

Within seven days of becoming aware of a non-compliance, Walker Quarries will provide written notification to the DPIE by email to compliance@planning.nsw.gov.au.

Written notification of a non-compliance will:

- (a) identify the development and application number,
- (b) out the condition of this consent that the development is non-compliant with,
- (c) why it does not comply and the reasons for the noncompliance (if known), and
- (d) what actions have been, or will be, undertaken to address the non-compliance.

It is noted that notification for the purpose of a pollution incident, where this describes the non-compliance satisfies the notification requirements above.

7.3.5 Reporting

Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Secretary, Walker Quarries will provide the DPIE and any relevant public authorities (as determined by the Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.

The Incident Report must include:

- (a) a summary of the incident,
- (b) outcomes of an incident investigation, including identification of the cause of the incident,
- (c) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence, and
- (d) details of any communication with other stakeholders regarding the incident.

If the incident was identified following receipt of complaint, the complainant will also be provided with a report confirming the incident, source or cause of the incident, actions taken and ongoing management to prevent subsequent incident (see also **Section 7.2**).

7.4 Evaluating Compliance, Actions, Reporting and Audits

7.4.1 Evaluating Compliance

7.4.1.1 Environmental Monitoring

Following each monitoring program, a monitoring log, summary or report will be prepared by Walker Quarries personnel, monitoring contractor or specialist consultant. The results from environmental monitoring will be evaluated for compliance, immediately following receipt, and entered into the respective monitoring spreadsheet or database.

The Quarry Manager (or equivalent position), or delegate, will review all monitoring results, associated logs, summaries and reports against the relevant criteria and trigger. The actions nominated in the appropriate Management Plans will be implemented in the event that exceedances of criteria or other triggers are identified

7.4.1.2 Statutory Conditions

A compliance schedule is maintained (**Appendix 3**). This schedule allows for the checking of compliance against the conditions of DA 344-11-2001 (as modified on 7 December 2018), EPL 13172 and ML 1633. The compliance schedule will be reviewed internally every year as part of an Annual review (refer to **Sections 7.4.4.1** and **8.1**) independently every 3 years as a component of an Independent Environmental Audit (IEA) of the Quarry (refer to **Section 7.4.2.2**).

7.4.2 Corrective and Preventative Action

7.4.2.1 Environmental Monitoring

Where an exceedance of the relevant trigger values is observed, the Quarry Manager (or equivalent position) will assign corrective and preventative actions to site personnel in accordance with the relevant environmental management documentation (refer to **Section 6.2**). Further or supplementary actions may be an outcome of the initially assigned corrective and preventative actions.

In addition to the specific measures identified in the environmental management documentation, the following will be undertaken for all environmental monitoring non-compliances:

- The Quarry Manager will complete a Non-Compliance and Corrective Action Report. The report will identify the range of corrective and preventative actions to be undertaken in response to the non-compliance, timing for implementation and interval for review of progress.

- Progress against the corrective and/or preventative actions will be reviewed at intervals agreed by the Quarry Manager and relevant personnel.
- Additional actions or extensions to the implementation period will be issued by the Quarry Manager (in consultation with the DPIE, EPA or other relevant regulatory authority).
- Actions will be communicated by the Quarry Manager internally through planning meetings and toolbox talks and outstanding actions will be monitored for their effectiveness upon completion.
- A copy of the investigation report and regular updates on the status of the identified corrective and/or preventative actions will be provided to the relevant government agencies and, if required, any complainant. In addition, a copy of all reports will be included in the Annual Review (refer also to **Section 8.1**).

If the non-compliance exceeds the relevant criterion then the Quarry Manager or delegate will notify the affected landowner(s) in writing of the exceedance and provide regular monitoring results to the parties until compliance can again be demonstrated.

7.4.2.2 Other Non-compliance

Other non-compliances against conditions of DA 344-11-2001, EPL 13172 and ML 1633 will be addressed as follows:

- The Quarry Manager will complete a Non-Compliance and Corrective Action Report. The report will identify a range of corrective and preventative actions to be undertaken in response to the non-compliance.
- Corrective and/or preventative actions will be assigned to relevant Quarry personnel for implementation.
- Non-Compliance and Corrective Action Reports will be filed for future reference.

7.4.3 Reporting

Walker Quarries will report any exceedance of criteria to the DPIE, EPA and any other relevant agencies as soon as they become aware of the occurrence. Within 7 days Walker Quarries will issue the DPIE, EPA and any relevant agencies a copy of the Non-compliance and Corrective Action Report.

7.4.4 Audit Process

7.4.4.1 Internal Audits

During the preparation of each Annual Review (refer to **Section 8.1**), the Quarry Manager will complete (either directly or by delegation to a third party) an audit of performance against the Compliance Schedule (**Appendix 3**).

This audit will document whether operations are compliant or non-compliant, the risk posed in the event of a non-compliance, corrective actions to be implemented and timeframe for implementation.

7.4.4.2 Independent Audit

Schedule 5(13) of DA 344-11-2001 requires Walker Quarries to commission an IEA of the Quarry every three years (unless directed by the Secretary of DPIE). The IEA will:

- be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary,
- include consultation with the relevant agencies and the CCC,
- assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals),
- review the adequacy of strategies, plans or programs required under the abovementioned approvals, and
- recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy, plan or program required under the abovementioned approvals.

Quarry personnel, directed by the Quarry Manager, will be available during the audit to provide information to the audit team.

Within 12 weeks of the completion of this audit, or as otherwise agreed by the Secretary, Walker Quarries shall submit a copy of the report to the DPIE, together with the response to any recommendations contained in the audit report.

The next IEA is to be commenced by April 2021.

7.5 Cumulative Impact Management

The Quarry operates in the vicinity of other industries, which together may result in cumulative impacts that are greater than those predicted to occur as a result of the Quarry alone. Other industries in the area include other quarries, coal mines, power stations, and agricultural activities. While each of these individual entities may themselves comply with environmental standards and legislation, the combined effect of these operations may result in an exceedance of the non-discretionary development standards for mining or individual criteria being exceeded at surrounding properties.

In order to deal with such cumulative impacts, Quarry personnel or consultants commissioned on behalf of the Quarry will analyse monitoring data for trends in dust deposition and correlate them with weather data to determine and quantify where possible, contributions from other dust generators. In the event that the cumulative impact is unacceptable, discussions will be arranged with other dust generators to produce a combined effort to reduce the overall dust impact on the surrounding environment.

Similarly, attended noise monitoring will identify noise sources in the local area, other than Wallerawang Quarry, and their contribution to background noise levels.

7.6 Emergency Management

Hazards at the Quarry are managed in accordance with a PIRMP, Hazardous Substances Management Plan and a Bushfire Management Plan. The PIRMP and Bushfire Management Plan can be viewed or downloaded from the Walker Quarries website (<https://walkerquarries.com.au/statutory-information/>).

The Quarry Manager is responsible for implementing and updating these documents as needed.

7.7 Competence Training and Awareness

All personnel and contractors working at the Quarry undergo an induction. This induction includes information on environmental management while working on site.

Regular toolbox meetings are held to discuss whole-of-site production, management, safety and environmental issues. Matters relating to environmental management are raised during these meetings, when necessary.

8.0 Environmental Performance Review

8.1 Annual Review

By the end of September each year, an Annual Review of quarry operations will be completed and submitted to the DPIE. In accordance with Schedule 5(12) of DA 344-11-2001, the Annual Review will:

- describe Quarry operations (including any progressive rehabilitation) carried out in the previous financial year, and operations proposed over the next financial year,
- include a comprehensive review of the monitoring results and complaints over the previous financial year, comparing these results against the:
 - relevant statutory requirements, limits or performance measures/criteria,
 - requirements of any plan or program required under this consent,
 - monitoring results of previous years, and
 - relevant predictions in the documents listed in *Schedule 2(2(a))*,
- identify any non-compliance, and describe what actions were (or are being) taken to ensure compliance,
- identify any trends in the monitoring data over the life of the development,
- identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies, and
- describe what measures will be implemented over the current [financial/calendar] year to improve the environmental performance of the development.

Within 3 months of completion of the review any revisions to management plans, strategies or programs identified as necessary will be undertaken. This review will be made publicly available on Walker Quarries website (<http://walkerquarries.com.au/statutory-information/>) as soon as possible.

8.2 Strategy Review

In accordance with *Condition 5(5)* of DA 344-11-2001, the EMS will be reviewed within 3 months of the submission of an:

- a) incident as defined by **Section 7.3**,
- b) Annual Review³,
- c) an Independent Environmental Audit completed in accordance with Condition 5(13) of DA 344-11-2001, and
- d) any modifications to this consent.

Walker Quarries will notify the DPIE in writing of any review being undertaken and if this review results in any revisions to the EMS, submit a copy to the Secretary of the DPIE for approval (within 6 weeks of the review). The reviews will ensure the adequacy of the EMS and allow for opportunities of adaptive management and continual improvement.

³ The Annual Review is due by 30 September each year.

9.0 References

Environment Protection Authority (EPA) (2012). Environmental Guidelines: Preparation of Pollution Incident Response Management Plans, March 2012.

Environment Protection Authority (EPA) (2013). Requirements for publishing pollution monitoring data, October 2013.

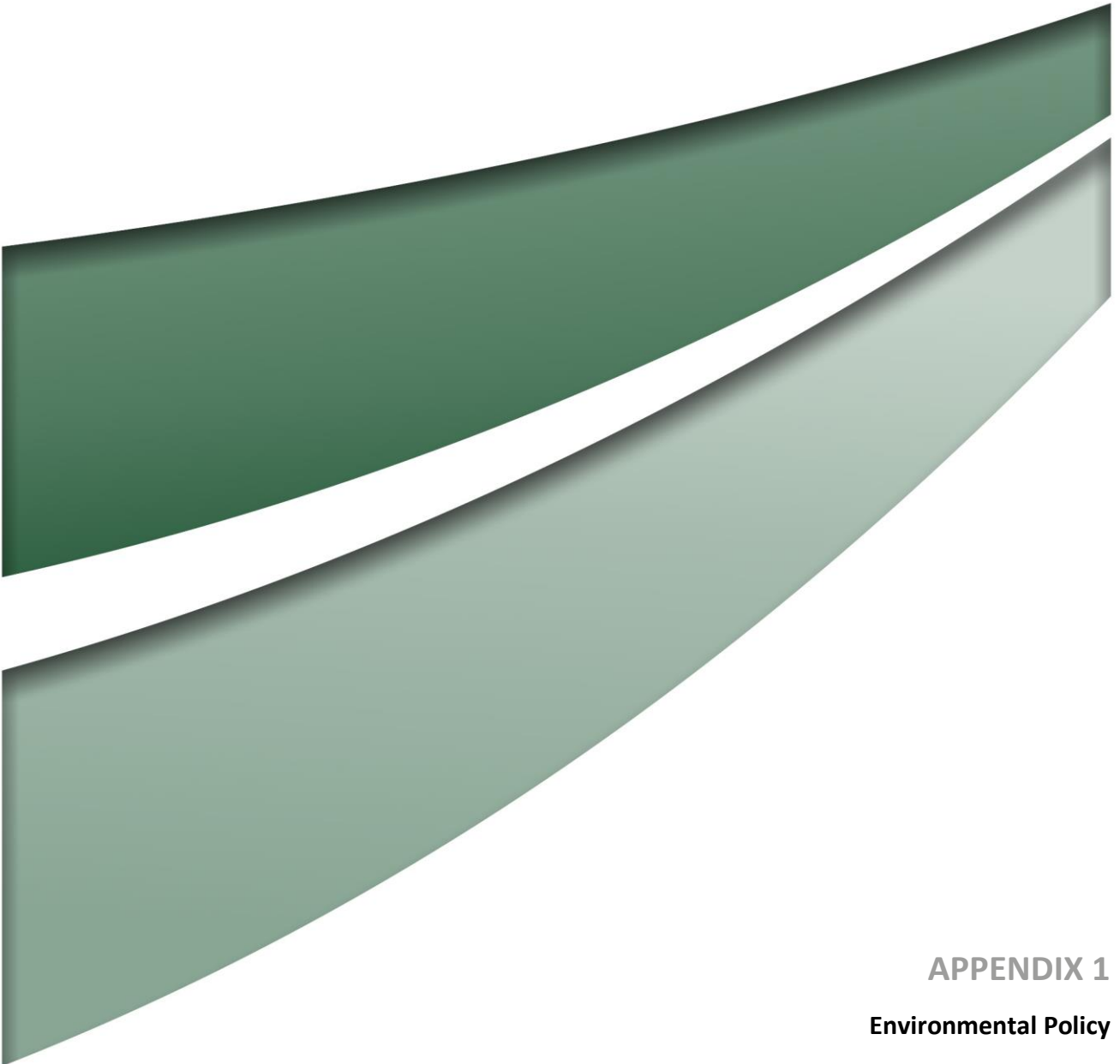
Pacrim Environmental (Pacrim) (2001). Environmental Impact Statement Proposed Wallerawang Quarry. Prepared for Sitegoal Pty. Limited, November 2001 (report 01/206.1).

RW Corkery & Co Pty Limited (2017). Environmental Assessment for the Modification to the Operations at the Wallerawang Quarry (DA 344-11-2001).

RW Corkery & Co Pty Limited (2018). Statement of Environmental Effects for Proposed Modification No 2 (MOD 2) to DA 344-11-2001 (Wallerawang Quarry), dated October 2018.

Umwelt (Australia) Pty Limited (Umwelt) (2019). Statement of Environmental Effects Wallerawang Quarry Modification 3 (DA 344-11-2001)

Umwelt (Australia) Pty Limited (Umwelt) (2020). Mining Operations Plan (incorporating a Rehabilitation Management Plan) for the Wallerawang Quarry, 4th MOP, 2020 - 2025.



APPENDIX 1
Environmental Policy



Environmental Safety Policy

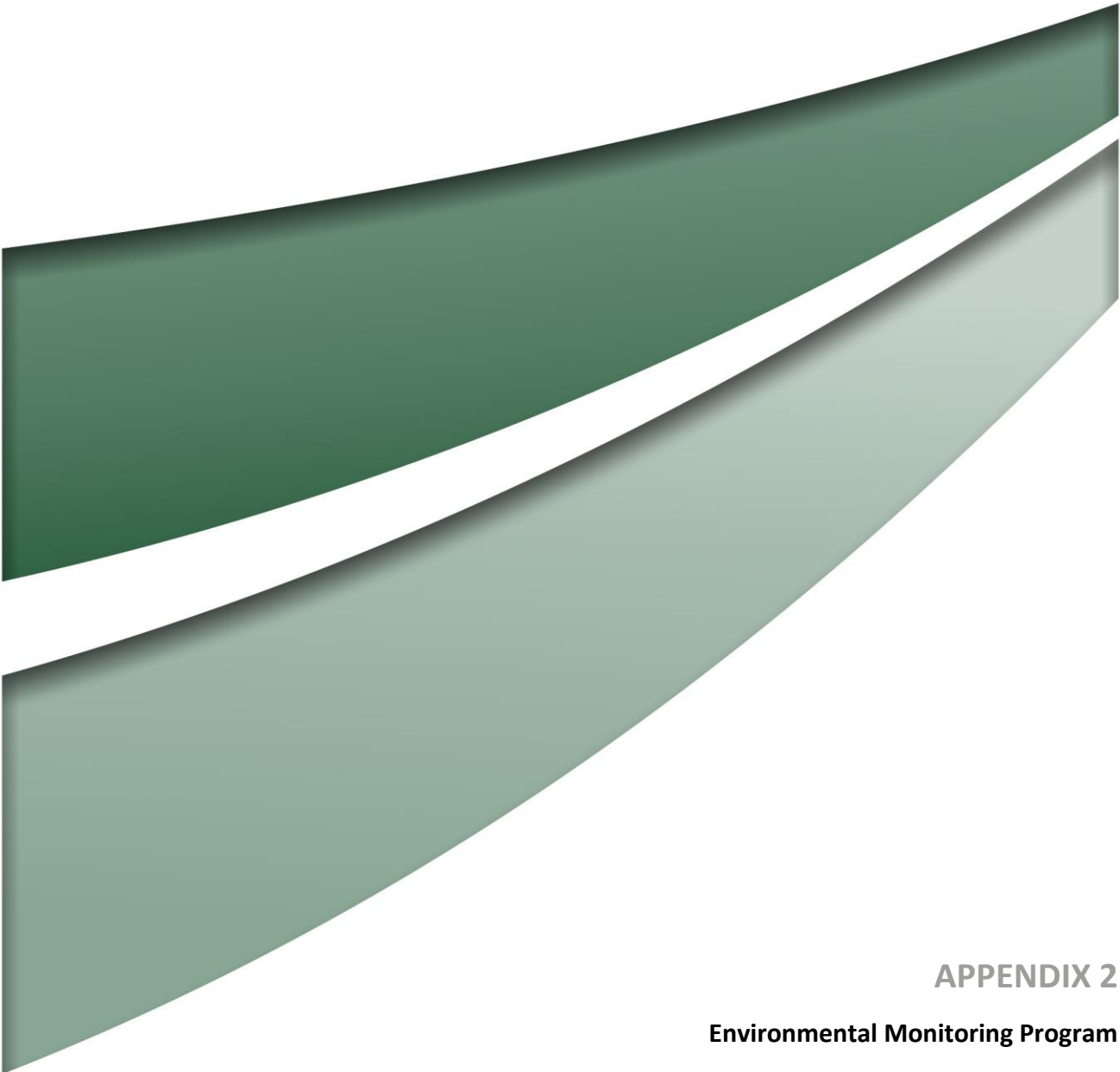
The environmental policy of Walker Quarries Pty Limited is to carry out the mining activities at Walker Quarry in a manner that complies with relevant environmental legislation and is environmentally responsible. The company is committed to ongoing improvements in its environmental management and aims to undertake reviews of this environmental policy to ensure that it remains relevant and appropriate for the existing and future operations.

In recognition of the corporate environmental policy, the Company will endeavour at all times to:

- ❑ comply with all applicable Commonwealth and State Government legislation to protect the environment;
- ❑ establish effective working relationships with Government agencies responsible for land management within the Walker Quarries Pty Ltd/Sitegoal Pty Ltd leases;
- ❑ develop and maintain environmental performance in line with industry standards by implementing an Environmental Management System (EMS) appropriate to the scale of the operation;
- ❑ establish a reporting process and verification procedure for any non-conformances within the EMS;
- ❑ carry out environmental training to ensure that the workforce on site are aware of their environmental responsibilities;
- ❑ undertake appropriate reviews and audits of the operation to measure progress and to ensure compliance with the environmental policy.

This Environmental Policy have been endorsed by the Company's Board of Directors and therefore commit the Company to achieving its objectives of environmental excellence.

Date:20th July 2017



APPENDIX 2

Environmental Monitoring Program



ENVIRONMENTAL MONITORING PROGRAM

Wallerawang Quarry

FINAL

August 2020





ENVIRONMENTAL MONITORING PROGRAM

Wallerawang Quarry

FINAL

Prepared by
Umwelt (Australia) Pty Limited
on behalf of
Walker Quarries Pty Limited

Project Director: Alex Irwin
Project Manager: Alex Irwin
Report No. 4433/R10
Date: August 2020



Lithgow

PO Box 307
Lithgow NSW 2790
ABN 82 003 061 890

T | 02 6352 3377
E | accounts@walkerquarries.com.au

www.walkerquarries.com.au

Orange

Office 1
3 Hampden Avenue
Orange NSW 2800

T | 1300 793 267
E | info@umwelt.com.au

www.umwelt.com.au



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Document Status

Rev No.	Reviewer		Approved for Issue	
	Name	Date	Name	Date
V2.1	Alex Irwin	24 April 2020	Alex Irwin	24 April 2020
V2.2	Alex Irwin	13 August 2020	Johann van der Merwe (Walker Quarries)	14 August 2020

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1.0 Scope

This Environmental Monitoring Program (EMP) has been prepared for the Wallerawang Quarry (the Quarry) by Umwelt (Australia) Pty Limited (Umwelt) on behalf of Walker Quarries Pty Ltd (Walker Quarries) in accordance with Schedule 5 Condition 1(f) of Development Consent DA 344-11-2001 (as modified 20 February 2020) which requires the Environmental Management Strategy (EMS) include:

- copies of any strategies, plans and programs approved under the conditions of this consent
- a clear plan depicting all the monitoring to be carried out under the conditions of this consent.

In order to demonstrate compliance with environmental criteria nominated for the Quarry (as included in the statutory approvals), and to measure environmental performance of the Quarry, monitoring of the following will be undertaken (in accordance with the referenced management plan):

- Noise Management Plan.
- Blast and Explosives Control Management Plan.
- Soil and Water Management Plan (incorporating an Erosion and Sediment Control Plan).
- Biodiversity Management Plan.
- Bushfire Management Plan.
- Air Quality Management Plan.
- Aboriginal Cultural Heritage Management Plan.
- Pollution Incident Response Management Plan.

These management plans provide detailed information on the location, frequency, parameters, procedures and record keeping for monitoring the relevant emissions, outputs or activities. This EMP consolidates the environmental monitoring requirements of these management plans.

The Quarry Manager is responsible for the implementation and continued monitoring requirements for the Quarry. The EMP will be updated following any review and update to the referenced environmental management plan above.

Table 1.1 presents a summary of all environmental monitoring activity and presents the monitoring parameters, frequency, timing and additional information requirements for each monitoring requirement. The locations of all monitoring points are presented on **Figure 1.1**.

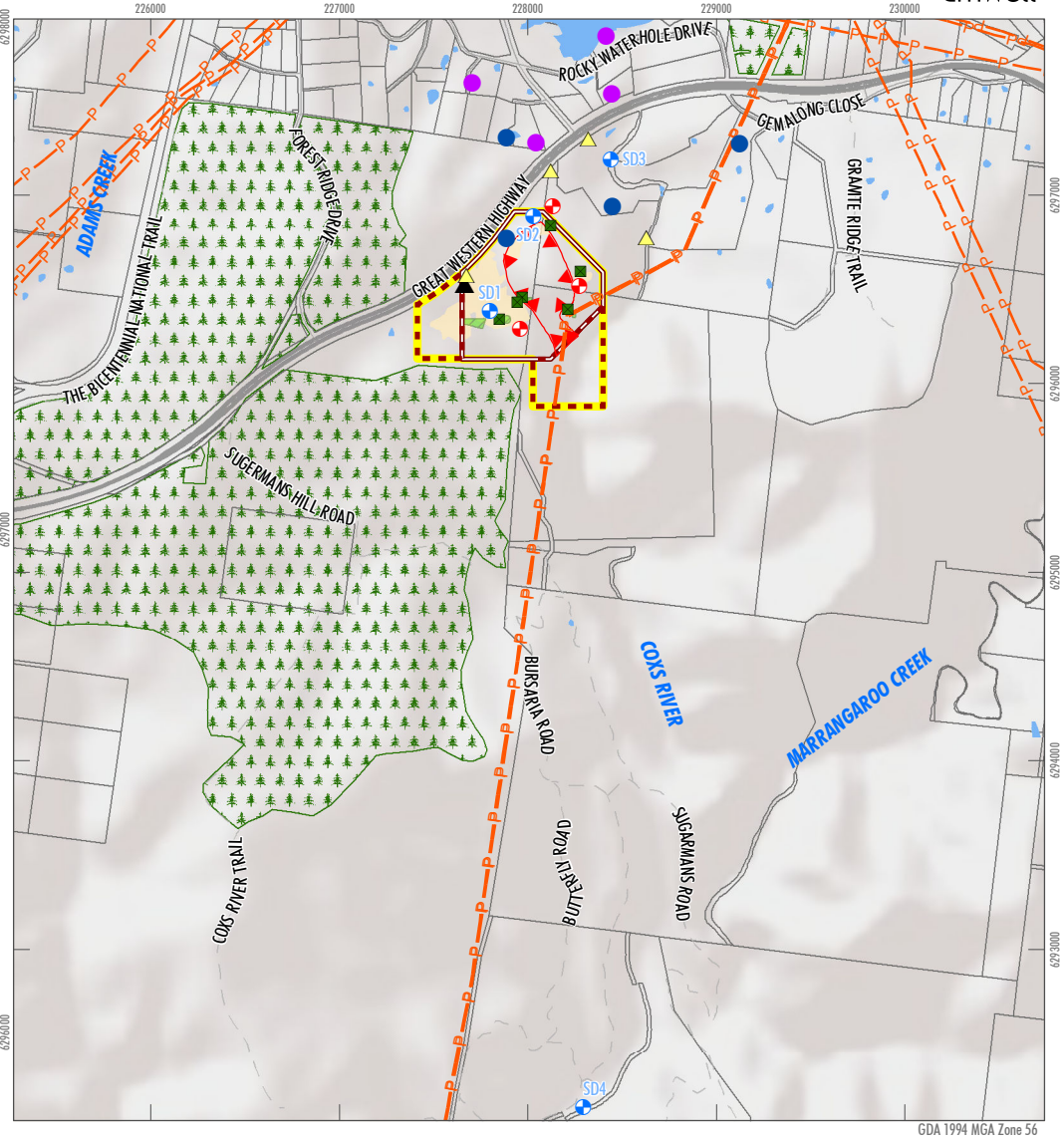
Table 1.1 Monitoring Requirements

Monitoring Parameter	Monitoring Location	Frequency	Criteria	Timing	Purpose	Additional Information to be Recorded
Meteorological Monitoring						
Rainfall (mm) Air Temperature (°C) Wind Direction at 10 m (°) Wind Speed at 10 m (m/s)	Quarry Meteorological Station (northeast corner of ML 1633)	Continuous	Not Applicable	Monthly records to be downloaded from equipment.	To assist assessment of noise and air quality monitoring and for operational planning.	Monthly summary to be placed on website and reported in the Annual Review.
Noise Monitoring						
Attended Noise Monitoring L _{Amax} L _{Aeq} If considered necessary at the time of monitoring: L _{A10} L _{A50} L _{A90} L _{A99} L _{Amin}	N1: "Gemalong" property residence. N2: Access to "Cockatoo Pines" property. N3: 2 Cypress Place, Wallerawang. RL1: Quarry Site northern perimeter.	Biannually (twice per year)	43 dB(A) L _{Aeq(15 minutes)} (Day). 39 dB(A) L _{Aeq(15 minutes)} (Evening). 35 dB(A) L _{Aeq(15 minutes)} (Night).	15 minutes.	To establish compliance with noise criteria and allow for review of noise controls.	Operator's Name. Location of Monitoring. Recording Intervals (date and time). Meteorological conditions. Statistical noise level descriptor with notes identifying noise sources. Instrument make, model, serial number and calibration details. Description of activities occurring during monitoring.
Blast Monitoring						
Ground Vibration Airblast Overpressure	1: 3 Cypress Place 2: Lake Wallace Dam Wall 3: 4 Beacroft Place Or other locations on request by landowner	Each blast event	Ground Vibration 5mm/s exceeded on no more than 5% of occasions and 10mm/s limit on all occasions. Airblast Overpressure 115dB _(Lin Peak) exceeded on no more than 5% of occasions and 120dB _(Lin Peak) limit on all occasions.	Instantaneous	To establish compliance with blast criteria and provide feedback on future blast design to blasting contractors.	Date Time Maximum Instantaneous Charge. Blast Location. Monitoring Location. Name of person recording the monitoring result.
Air Quality Monitoring						
Deposited Dust	4 x Dust Gauges DG1: northeast corner of ML 1633 DG2: Lot 1, DP872230 DG3: Coxs River DG4: Lot 6, DP872230	Monthly	Annual Average Total Deposited Dust: 4g/m ² month. Annual Incremental Increase: 2g/m ² month.	Continuous through gauge placement analysed monthly and assessment based on the annual average.	To establish compliance with air quality criteria and manage potential dust impacts to the local environment including privately-owned residences and significant flora and fauna.	Date Time Monitoring Location. Name of person recording the monitoring result.
Water Monitoring - Discharge						
TSS Sulfate Grease and Oil Electrical Conductivity pH Turbidity	EPL 1 (SD1) EPL 2 (SD2)	Monthly during discharge for EPL 1 (SD1) and EPL 2 (SD2)	30mg/L 250mg/L 5mg/L 1,500 µS/cm 6.5-8.5 25 NTU	During discharge at EPL 1 (SD1) and EPL 2 (SD2) or in accordance with annual reporting requirements.	To establish compliance with water quality criteria and manage potential impacts to the local environment.	Date Time Monitoring Location. Name of person recording the monitoring result.
Water Monitoring - Background						
Electrical Conductivity (EC) Oil and Greases (O&G) pH Sulphate (SO ₄) Total Suspended Solids (TSS) Turbidity	SD3 (Coxs River upstream) SD4 (Coxs River downstream)	Monthly	N/A	Monthly	To establish background concentrations of potential pollutants associated with groundwater and Site Specific Quality Criteria	Rainfall in 7 days preceding.

Monitoring Parameter	Monitoring Location	Frequency	Criteria	Timing	Purpose	Additional Information to be Recorded
Arsenic (dissolved) Cadmium (dissolved) Chromium (dissolved) Copper (dissolved) Nickel (dissolved) Lead (dissolved) Zinc (dissolved) Mercury (dissolved)		Quarterly	N/A	Quarterly		
Biodiversity Monitoring						
General site inspections	Within the Quarry Site	Monthly	Not applicable	Monthly site review of vegetation condition to be reported annually.	To monitor any short term changes to vegetation condition that may require remediation.	Date Time Name of person undertaking monitoring.
Purple Copper Butterfly sightings / presence and Blackthorn distribution and condition	Blackthorn Patches ¹ : – 17; – 18; – 19; – 20/21; and – 24.	Annual	Not applicable	Monitoring will coincide with the adult flying and juvenile larval seasons (October-November), respectively.	To monitor presence of the threatened species and the distribution and condition of habitat within the Quarry Site. To record performance of management measures and rehabilitation activities incorporating the Blackthorn.	Date Time Name of person undertaking monitoring.
Vegetation: Flora species diversity Percentage foliage cover by canopy, lower-storey and groundcover Weed species and percentage cover Fauna species presence	Plots ² : – Wall01; – Wall02; – Wall03; – Wall04; – Wall05 and – Wall06.	Annual	Not applicable	Monitoring will coincide with the Purple Copper Butterfly monitoring program.	To monitor existing vegetation condition and performance of management measures and rehabilitation activities. Parameters to include: <ul style="list-style-type: none"> • vascular plant species abundance (modified Braun-Blanquet scale), • dominant species, and • foliage cover in each stratum. 	Date Time Name of person undertaking monitoring.
Rehabilitation Monitoring						
Landform Survey	Completed landforms	Following landform construction	Slopes as per Plans 3 & 4 of MOP.	Following landform construction	Confirm landform establishment criteria achieved.	
Visual Inspections	General Quarry Site	Quarterly	Refer to Section 8.1.3 of MOP.	Quarterly.	Confirm no occurrence of erosional or other actions detrimental to rehabilitation.	Photos to be taken
Soil Analysis	Soil application areas	Following soil spreading	Soil depth pH & erodibility	Following soil application	Confirm achievement of performance criteria of the MOP.	
Vegetation	Rehabilitation Areas (locations to be established following completion of significant rehabilitation campaign)	Annual	Comparison to Analogue site of Quarry Site (WALL 01 to WALL 06)	To coincide with the Quarry Site vegetation monitoring program.	To review progress of vegetation against completion criteria of the MOP. Parameters to include: <ul style="list-style-type: none"> • vascular plant species abundance (modified Braun-Blanquet scale), • dominant species, and • foliage cover in each stratum. 	Refer to the MOP

Note 1: Until removed by Quarry operations (not to be replaced)

Note 2: To be progressively relocated prior to Quarry disturbance.



- Legend**
- Quarry Site Boundary
 - Quarry Site (ML1633)
 - Quarry Site ML Extension
 - Approved Extraction Area
 - Stockpile Areas
 - Remnant Patches of *Bursaria spinosa*
 - Biodiversity Monitoring Locations
 - Noise Monitoring Locations
 - ⊕ Surface Water Monitoring Location
 - ⊕ Groundwater Bore Location
 - Blast Monitor
 - ▲ Meteorological Station
 - ▲ Air Quality Monitoring Locations
 - ▲ Power Line

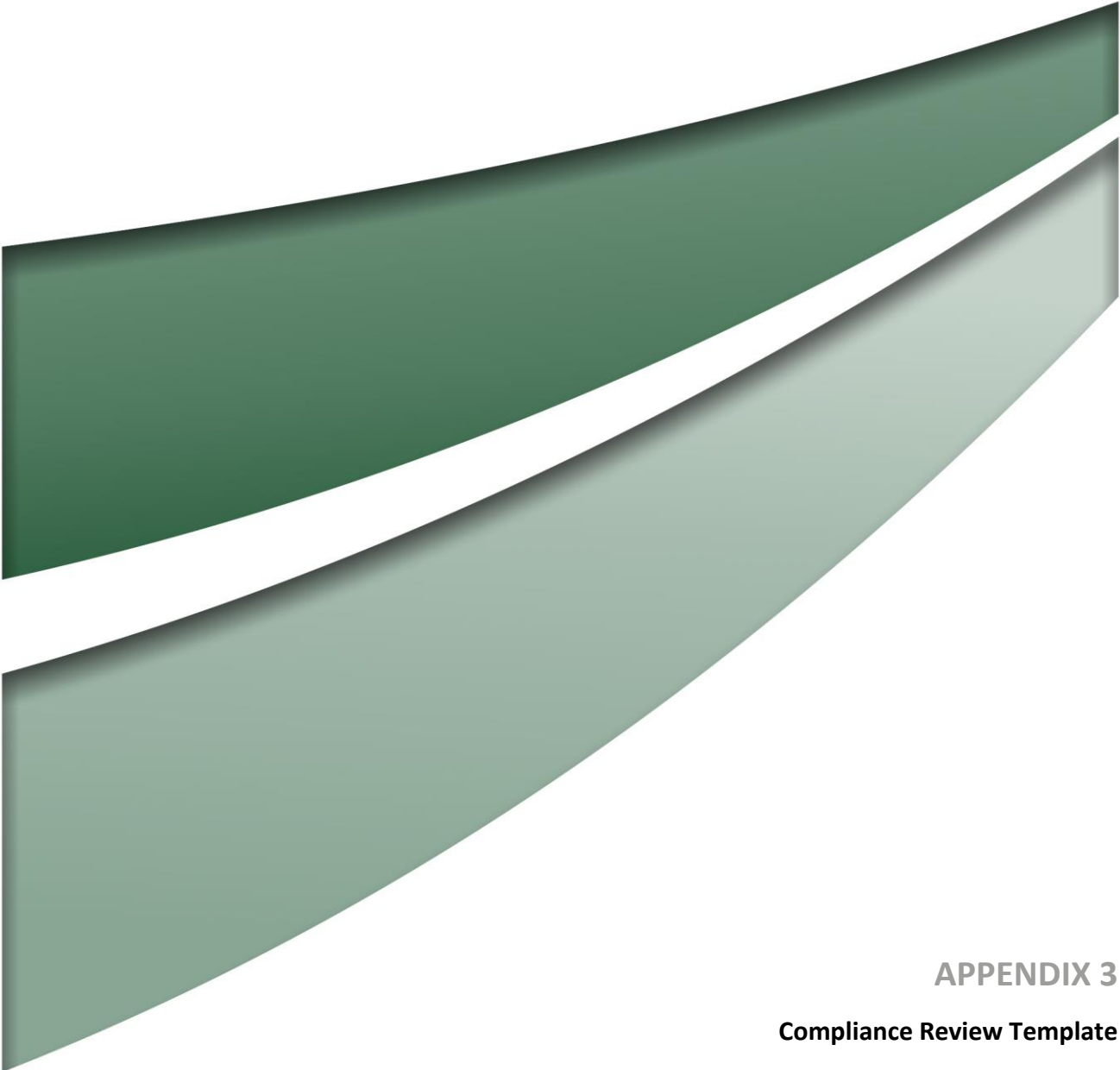
FIGURE 1.1
Environmental Monitoring Locations

2.0 Environmental Monitoring Summary

In accordance with the requirements of Section 66(6) of the *Protection of the Environment Operations Act 1997* (PoEO Act), each month Walker Quarries will publish relevant monitoring data on their website.

All incident reporting and notifications would occur in accordance with the referenced environmental management plans and the EMS.





APPENDIX 3

Compliance Review Template

**Table A3-1
Internal Compliance Audit of Relevant Conditions of Development Consent DA 344–11–2001
for Wallerawang Quarry from Start Date to End Date**

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS				
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT				
1.	In addition to meeting the specific performance measures and criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the development.			
TERMS OF CONSENT				
2.	The development may only be carried out: (a) in compliance with the conditions of this consent; (b) in accordance with all written directions of the Secretary; (c) generally in accordance with the EIS, EA (Mod 1), SEE (Mod 2) and SEE (Mod 3); and (d) generally in accordance with the Development Layout in Appendix 1..			
3.	If there is any inconsistency between the documents in condition 2(c), the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.			
4.	The Applicant must comply with any written requirement/s of the Secretary arising from the Department's assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents); (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent; and (c) the implementation of any actions or measures contained in these documents.			
LIMITS ON CONSENT – QUARRYING OPERATIONS				
Quarrying Operations				
5.	The Applicant may carry out quarrying operations on the site until 15 July 2040.			
Extraction Depth				
6.	The Applicant must not conduct quarrying operations within one metre of the maximum groundwater level, with the exception of areas where the Applicant has received the written approval of the Secretary for the construction and use of drainage sumps, groundwater monitoring bores, exploration boreholes or other similar activity agreed by the Secretary.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
6A.	<p>Prior to the commencement of quarrying operations below 901 mAHD (unless approved under condition 6 of this Schedule), the Applicant must:</p> <p>(a) determine the maximum groundwater level within and adjacent to the proposed extraction area, in consultation with DPIE - Water, using all available groundwater and rainfall monitoring data collected from the site or in the vicinity of the site and appropriate modelling software and parameters;</p> <p>(b) establish the proposed maximum extraction depth to comply with condition 6; and</p> <p>(c) prepare a contour map or similar, showing the proposed maximum extraction depth;</p> <p>for the approval of the Secretary.</p>			
Limits on Extraction and Transport				
7.	The Applicant must not extract and/or transport more than 500,000 tonnes of quarry products from the site in any calendar year.			
STRUCTURAL ADEQUACY				
8.	<p>The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • Under Part 6 of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works. • Part 8 of the EP&A Regulation sets out the requirements for the certification of the development. 			
DEMOLITION				
9.	The Applicant must ensure that all demolition work is carried out in accordance with AS 2601-2001: <i>The Demolition of Structures</i> , or its latest version.			
PROTECTION OF PUBLIC INFRASTRUCTURE				
10.	<p>Unless the Applicant and the applicable authority agree otherwise the Applicant must:</p> <p>(a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and</p> <p>(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.</p>			
OPERATION OF PLANT AND EQUIPMENT				
11.	<p>The Applicant must ensure that all plant and equipment at the site, or to monitor the performance of the development is:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p>			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
PRODUCTION DATA				
12.	The Applicant must: <ul style="list-style-type: none"> (a) from the commencement of quarrying operations provide calendar year annual quarry production data to RR using the standard form for that purpose; and (b) include a copy of this data in the Annual Review. 			
COMPLIANCE				
13.	The Applicant must ensure that all employees, contractors and sub-contractors are aware of, are instructed to and comply with, the conditions of this consent relevant to their respective activities.			
CONTRIBUTIONS TO COUNCIL				
14.	Within 6 months of the date of approval of Modification 3, the Applicant must make contributions to Council for the provision of public facilities and to enhance amenity and services within the Lithgow LGA, in accordance with the Section 94A Development Contributions Plan for Lithgow City Council October 2015, or its most recent version. <i>Note: See also section 7.11 of the EP&A Act.</i>			
APPLICABILITY OF GUIDELINES				
15.	References in the conditions of this consent to any guideline, protocol, Australia Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as the date of inclusion (or later update) in the condition.			
16.	However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Secretary may, in respect of ongoing monitoring and management obligations, agree to or require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.			
CROWN LAND				
17.	The Applicant must consult with DPIE - Crown Lands prior to undertaking any development on Crown land or Crown roads. <i>Notes:</i> <ul style="list-style-type: none"> (a) Under Section 265 of the Mining Act 1992, the Applicant is required to enter into a compensation agreement with DPIE - Crown Lands prior to undertaking any mining operations or related activities on Crown land or Crown roads within a mining lease. (b) Under Section 141 of the Mining Act 1992, the Applicant is required to enter into an access arrangement with DPIE - Crown Lands prior to undertaking any prospecting operations on Crown land or Crown roads within an exploration licence. 			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*										
SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS														
NOISE														
Hours of Operation														
1.	<p>The Applicant must comply with the operating hours set out in Table 1.</p> <p><i>Table 1: Operating Hours</i></p> <table border="1"> <thead> <tr> <th>Activity</th> <th>Permissible Hours</th> </tr> </thead> <tbody> <tr> <td>Quarrying operations</td> <td> <ul style="list-style-type: none"> 7 am to 6 pm Monday to Friday 8 am to 1 pm Saturdays At no time on Sundays or public holidays </td> </tr> <tr> <td>Loading and dispatch of trucks</td> <td> <ul style="list-style-type: none"> May be conducted at any time, provided these activities comply with the noise criteria in Table 2 </td> </tr> <tr> <td>Blasting</td> <td> <ul style="list-style-type: none"> 9 am to 5 pm Monday to Friday 9 am to 1 pm on Saturdays At no time on Sundays or public holidays </td> </tr> <tr> <td>Maintenance</td> <td> <ul style="list-style-type: none"> May be conducted at any time, provided that these activities are not audible at any privately-owned residence </td> </tr> </tbody> </table>	Activity	Permissible Hours	Quarrying operations	<ul style="list-style-type: none"> 7 am to 6 pm Monday to Friday 8 am to 1 pm Saturdays At no time on Sundays or public holidays 	Loading and dispatch of trucks	<ul style="list-style-type: none"> May be conducted at any time, provided these activities comply with the noise criteria in Table 2 	Blasting	<ul style="list-style-type: none"> 9 am to 5 pm Monday to Friday 9 am to 1 pm on Saturdays At no time on Sundays or public holidays 	Maintenance	<ul style="list-style-type: none"> May be conducted at any time, provided that these activities are not audible at any privately-owned residence 			
Activity	Permissible Hours													
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Maintenance	<ul style="list-style-type: none"> May be conducted at any time, provided that these activities are not audible at any privately-owned residence 													
2.	<p>The following activities may be carried out outside the hours specified in Condition 1 above:</p> <p>(a) delivery or dispatch of materials as requested by Police or other public authorities; and</p> <p>(b) emergency work to avoid the loss of lives, property or to prevent environmental harm.</p> <p>In such circumstances, the Applicant must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.</p>													
Noise Impact Assessment Criteria														
3.	<p>The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p><i>Table 2: Operational noise criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th>Noise Assessment Location</th> <th>Day <i>L_{90q}(15 min)</i></th> <th>Evening <i>L_{90q}(15 min)</i></th> <th>Night <i>L_{90q}(15 min)</i></th> </tr> </thead> <tbody> <tr> <td>All privately-owned residences</td> <td>43</td> <td>39</td> <td>35</td> </tr> </tbody> </table>	Noise Assessment Location	Day <i>L_{90q}(15 min)</i>	Evening <i>L_{90q}(15 min)</i>	Night <i>L_{90q}(15 min)</i>	All privately-owned residences	43	39	35					
Noise Assessment Location	Day <i>L_{90q}(15 min)</i>	Evening <i>L_{90q}(15 min)</i>	Night <i>L_{90q}(15 min)</i>											
All privately-owned residences	43	39	35											
3A.	Noise generated by the development must be monitored and measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Noise Policy for Industry (EPA, 2017).													
3B.	The noise criteria in Table 2 do not apply if the Applicant has an agreement with the owner/s of the relevant residence or land to exceed the noise criteria, and the Applicant has advised the Department in writing of the terms of this agreement.													
Operating Conditions														
4.	<p>The Applicant must:</p> <p>(a) implement best practice management to minimise the construction, operational and road transportation noise of the development;</p> <p>(b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 3);</p> <p>(c) carry out noise monitoring (at least every 3 months or as otherwise agreed with the Secretary) to determine whether the development is complying with the relevant conditions of this consent; and</p> <p>(d) regularly assess noise monitoring data and modify and/or</p>													

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*																
	stop operations on site to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary.																			
Noise Management Plan																				
5.	<p>The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with the EPA;</p> <p>(b) be submitted to the Secretary within three months of the determination of Modification 1, unless otherwise agreed by the Secretary;</p> <p>(c) describe the measures to be implemented to ensure:</p> <ul style="list-style-type: none"> • compliance with the noise criteria and operating conditions of this consent; • best practice management is being employed; and • the noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see NPfI); <p>(d) describe the proposed noise management system; and</p> <p>(e) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site.</p> <p>The Applicant must implement the Noise Management Plan as approved from time to time by the Secretary.</p>																			
BLASTING																				
Blasting Impact Assessment Criteria																				
6.	<p>The Applicant must ensure that blasting on site does not cause any exceedance of the criteria in Table 3.</p> <p><small>Table 3: Blasting Criteria</small></p> <table border="1" data-bbox="284 1323 842 1440"> <thead> <tr> <th>Receiver</th> <th>Airblast overpressure (dB(Lin Peak))</th> <th>Ground vibration (mm/s)</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td></td> <td>120</td> <td>10</td> <td>0%</td> </tr> <tr> <td>Any residence on privately-owned land</td> <td>115</td> <td>5</td> <td>5% of the total number of blasts over a period of 12 months</td> </tr> <tr> <td>All public infrastructure</td> <td>-</td> <td>50</td> <td>0%</td> </tr> </tbody> </table> <p>However, these criteria do not apply if the Applicant has a written agreement with the relevant landowner or infrastructure owner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.</p>	Receiver	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance		120	10	0%	Any residence on privately-owned land	115	5	5% of the total number of blasts over a period of 12 months	All public infrastructure	-	50	0%			
Receiver	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance																	
	120	10	0%																	
Any residence on privately-owned land	115	5	5% of the total number of blasts over a period of 12 months																	
All public infrastructure	-	50	0%																	
Property Inspections																				
7.	<p>If the Applicant receives a written request from the owner of any privately-owned land within 2 kilometres of the site for a property inspection to establish the baseline condition of any buildings and structures on their land, or to have a previous property inspection updated, then within 2 months of receiving this request the Applicant must:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to:</p> <ul style="list-style-type: none"> – establish the baseline condition of any buildings and other structures on the land, or update the previous property inspection report; and – identify measures that should be implemented to 																			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	<p>minimise the potential blasting impacts of the</p> <ul style="list-style-type: none"> – development on these buildings and structures; and <p>(b) give the landowner a copy of the new or updated property inspection report.</p> <p>If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Applicant or the landowner disagrees with the findings of the property inspection report, either party may refer the matter to the Secretary for resolution.</p>			
Property Investigations				
8.	<p>If the owner of any privately-owned land within 2 kilometres of the site or any other landowner where the Secretary is satisfied an investigation is warranted, or claims in writing that buildings or structures on their land have been damaged as a result of blasting on the site, then within 2 months of receiving this written claim the Applicant must:</p> <ul style="list-style-type: none"> (a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to investigate the claim; and (b) give the landowner a copy of the property investigation report. <p>If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Applicant must repair the damage to the satisfaction of the Secretary.</p> <p>If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Applicant or the landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.</p>			
Operating Conditions				
9.	<p>During blasting operations, the Applicant must:</p> <ul style="list-style-type: none"> (a) implement best practice management to: <ul style="list-style-type: none"> • protect the safety of people and livestock; • protect public or private infrastructure and property from damage; and • minimise the dust and fume emissions; (b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and (c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary. 			
Blast Management Plan				
10.	<p>The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> (a) be submitted to the Secretary for approval within three months of the determination of Modification 1, unless otherwise agreed by the Secretary; (b) describe the measures to be implemented to ensure 			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*																			
	<p>compliance with the blast criteria and operating conditions of this consent;</p> <p>(c) include measures to manage flyrock to ensure the safety or people and livestock and to protect properties;</p> <p>(d) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent;</p> <p>(e) include local community notification procedures for the blasting schedule, in particular to nearby residences; and</p> <p>(f) include a protocol for investigating and responding to complaints related to blasting operations.</p> <p>The Applicant must implement the Blast Management Plan as approved from time to time by the Secretary.</p>																						
AIR QUALITY																							
Air Quality Criteria																							
11.	<p>The Applicant must ensure that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 at any residence on privately-owned land.</p> <p><i>Table 4: Air quality criteria</i></p> <table border="1" data-bbox="277 943 847 1155"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Particulate matter < 10 µm (PM₁₀)</td> <td>Annual</td> <td>^{a, c} 25 µg/m³</td> </tr> <tr> <td>24 hour</td> <td>^b 50 µg/m³</td> </tr> <tr> <td rowspan="2">Particulate matter < 2.5 µm (PM_{2.5})</td> <td>Annual</td> <td>^{a, c} 8 µg/m³</td> </tr> <tr> <td>24 hour</td> <td>^b 25 µg/m³</td> </tr> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>^{a, c} 90 µg/m³</td> </tr> <tr> <td>^d Deposited dust</td> <td>Annual</td> <td>^b 2 g/m²/month ^a 4 g/m²/month</td> </tr> </tbody> </table> <p>Notes:</p> <p>a. Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).</p> <p>b. Incremental impact (i.e. incremental increase in concentrations due to the development on its own).</p> <p>c. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed by the Planning Secretary.</p> <p>d. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.</p>	Pollutant	Averaging period	Criterion	Particulate matter < 10 µm (PM ₁₀)	Annual	^{a, c} 25 µg/m ³	24 hour	^b 50 µg/m ³	Particulate matter < 2.5 µm (PM _{2.5})	Annual	^{a, c} 8 µg/m ³	24 hour	^b 25 µg/m ³	Total suspended particulate (TSP) matter	Annual	^{a, c} 90 µg/m ³	^d Deposited dust	Annual	^b 2 g/m ² /month ^a 4 g/m ² /month			
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^d Deposited dust	Annual	^b 2 g/m ² /month ^a 4 g/m ² /month																					
12.	<p>The air quality criteria in Table 4 do not apply if the Applicant has an agreement with the owner/s of the relevant residence or infrastructure to exceed the air quality criteria, and the Applicant has advised the Department in writing of the terms of this agreement.</p>																						
Operating Conditions																							
13.	<p>The Applicant must:</p> <p>(a) implement best practice management to minimise the dust emissions of the development;</p> <p>(b) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent;</p> <p>(c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events</p>																						

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	(see note c under Table 4); (d) monitor and report on compliance with the relevant air quality conditions in this consent; and (e) minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.			
Air Quality Management Plan				
14.	The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must: <ul style="list-style-type: none"> (a) be submitted to the Secretary for approval within three months of the determination of Modification 1, unless otherwise agree by the Secretary; (b) describe the measures to be implemented to ensure: <ul style="list-style-type: none"> • compliance with the air quality criteria and operating conditions of this consent; • best practice management is being employed; and • the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; (c) describe the proposed air quality management system; (d) include an air quality monitoring program that: <ul style="list-style-type: none"> • is capable of evaluating the performance of the development; • includes a protocol for determining any exceedances of the relevant conditions of consent; • effectively supports the air quality management system; and • evaluates and reports on the adequacy of the air quality management system. The Applicant must implement the approved Air Quality Management Plan as approved from time to time by the Secretary.			
Meteorological Monitoring				
15.	For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in close proximity to the site that: <ul style="list-style-type: none"> (a) complies with the requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales (DEC, 2007); and (b) is capable of measuring meteorological conditions in accordance with the NSW Noise Policy for Industry (EPA, 2017), unless a suitable alternative is approved by the Secretary following consultation with EPA.			
SOIL AND WATER				
Water Supply				
16.	The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations under the consent to match its available water supply, to the satisfaction of the Secretary.			
Water Discharges				
17.	The Applicant must comply with the discharge limits in any EPL,			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	or with section 120 of the POEO Act.			
Soil and Water Management Plan				
18.	<p>The Applicant must prepare a Soil and Water Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> (a) be prepared by suitably qualified and experienced person/s approved by the Secretary; (b) be prepared in consultation with the EPA, DPIE – Water and WaterNSW; (c) be submitted to the Secretary for approval within three months of the determination of Modification 1 and Modification 3, unless otherwise agreed by the Secretary; and (d) include a: <ul style="list-style-type: none"> • Site Water Balance that includes: • details of: <ul style="list-style-type: none"> a. sources and security of water supply; b. water use and management on site; c. any off-site water transfers; and d. reporting procedures; and <p>Surface Water Management Plan, that includes:</p> <ul style="list-style-type: none"> • a program for obtaining detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development; • a detailed description of the surface water management system on site including the: <ul style="list-style-type: none"> a. clean water diversion system; b. erosion and sediment controls; c. dirty water management system; and d. water storages; and • a program to monitor and report on: <ul style="list-style-type: none"> a. any surface water discharges; b. the effectiveness of the water management system, c. the quality of water discharged from the site to the environment; d. surface water flows and quality in local watercourses; 			
18.	<p>Groundwater Management Plan that includes:</p> <ul style="list-style-type: none"> • a provision that requires the Applicant to obtain appropriate water licence(s) to cover the volume of any unforeseen groundwater inflows into the quarry from the quarry face or floor; and • a monitoring program to manage potential impacts, if any, on any alluvium and associated surface water source near the proposed extraction area that includes: <ul style="list-style-type: none"> a. identification of a methodology for determining threshold water level criteria; b. contingency measures in the event of a breach of thresholds; and c. a program to regularly report on monitoring. <p>The Applicant must implement the approved Soil and Water Management Plan as approved from time to time by the Secretary.</p>			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
TRANSPORT				
Monitoring of Product Transport				
19	The Applicant must keep accurate records of all laden truck movements to and from the site and publish a summary of records on its website every 6 months.			
Operating Conditions				
20.	The Applicant must: <ul style="list-style-type: none"> (a) ensure that all laden trucks entering or exiting the site have their loads covered, with the exception of loads consisting solely of boulders greater than one tonne in weight; (b) ensure that all laden trucks exiting the site are cleaned of material that may fall from vehicles, before leaving the site; and (c) use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the development so they can be easily identified by road users. 			
PROTECTION OF ABORIGINAL HERITAGE				
21.	The Applicant must ensure that the development does not cause any direct or indirect impact on any identified heritage item located outside the approved disturbance area, beyond those predicted in the document/s listed in condition 2(c) of Schedule 2.			
22.	If suspected human remains are discovered on site, then all work surrounding the area must cease, and the area must be secured. The Applicant must immediately notify NSW Police and BCD, and work must not recommence in the area until authorised by NSW Police and BCD.			
23.	If any previously unknown Aboriginal object or Aboriginal place is discovered on the site: <ul style="list-style-type: none"> (a) all work in the immediate vicinity of the object or place must cease immediately; (b) a 10 m buffer area around the object or place must be cordoned off; and (c) BCD must be contacted immediately. 			
23A.	Work in the immediate vicinity may only recommence if: <ul style="list-style-type: none"> (a) the potential Aboriginal object or Aboriginal place is confirmed by BCD upon consultation with the Registered Aboriginal Parties not to be an Aboriginal object or Aboriginal Place; or (b) the Aboriginal Cultural Heritage Management Plan required by condition 23C is revised to include the Aboriginal object or Aboriginal place and appropriate measures in respect of it, to the satisfaction of the Secretary; or (c) the Secretary is satisfied as to the measures to be implemented in respect of the Aboriginal object or Aboriginal place and makes a written direction in that regard. 			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
23B	The Applicant must ensure that all known Aboriginal objects or Aboriginal places on the site and within any offset areas are properly recorded, and those records are kept up to date, in the AHIMS Register.			
Aboriginal Cultural Heritage Management Plan				
23C	<p>The Applicant must prepare an Aboriginal Cultural Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> (a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary; (b) be prepared in consultation with BCD and Registered Aboriginal Parties; (c) describe the measures to be implemented on the site or within any offset area to: <ul style="list-style-type: none"> (i) comply with the heritage-related operating conditions of this consent; (ii) ensure all workers receive suitable Aboriginal cultural heritage inductions prior to carrying out any activities which may cause impacts to Aboriginal objects or Aboriginal places, and that suitable records are kept of these inductions; (iii) protect, monitor and manage identified Aboriginal objects and Aboriginal places (including any proposed archaeological investigations of potential subsurface objects and salvage of objects within the approved disturbance area) in accordance with the commitments made in the document/s listed in condition 2(c) of Schedule 2; (iv) protect Aboriginal objects and Aboriginal places located outside the approved disturbance area from impacts of the development; (v) manage the discovery of suspected human remains and any new Aboriginal objects or (vi) Aboriginal places, including provisions for burials, over the life of the development; (vii) maintain and manage reasonable access for relevant Aboriginal stakeholders to Aboriginal objects and Aboriginal places (outside of the approved disturbance area); and (viii) facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site; (d) include a strategy for the care, control and storage of Aboriginal objects salvaged on site, in particular AHIMS Site #45-1-2802, both during the life of the development and in the long-term. 			
23C.	The Applicant must not commence any ground disturbance associated with Modification 3 until the Aboriginal Cultural Heritage Management Plan is approved by the Secretary.			
23D.	The Applicant must implement the Aboriginal Cultural Heritage Management Plan approved by the Secretary.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*												
BIODIVERSITY AND REHABILITATION																
Biodiversity Offset Strategy (BOS)																
24.	<p>By 28 February 2018, the Applicant must provide a Biodiversity Offset Strategy (BOS) in accordance with the Framework for Biodiversity Assessment - NSW Biodiversity Offsets Policy for Major Projects, for the retirement of ecosystem and species credits as set out in Table 5, to the satisfaction of the Secretary and BCD.</p> <p>Table 5: Biodiversity credits to be retired</p> <table border="1" data-bbox="277 651 831 913"> <thead> <tr> <th>Credit type</th> <th>No. Credits</th> </tr> </thead> <tbody> <tr> <td colspan="2">Ecosystem Credits</td> </tr> <tr> <td>PCT 732 – Broad-leaved Peppermint - Ribbon Gum grassy open forest in the north east of the South Eastern Highlands Bioregion</td> <td>120</td> </tr> <tr> <td>PCT 1093 – Red Stringybark – Brittle Gum – Inland Scribbly Gum dry open forest of the tablelands, South Eastern Highlands Bioregion</td> <td>34</td> </tr> <tr> <td colspan="2">Species Credits</td> </tr> <tr> <td>Purple Copper Butterfly</td> <td>184</td> </tr> </tbody> </table>	Credit type	No. Credits	Ecosystem Credits		PCT 732 – Broad-leaved Peppermint - Ribbon Gum grassy open forest in the north east of the South Eastern Highlands Bioregion	120	PCT 1093 – Red Stringybark – Brittle Gum – Inland Scribbly Gum dry open forest of the tablelands, South Eastern Highlands Bioregion	34	Species Credits		Purple Copper Butterfly	184			
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Security of Offsets																
25.	<p>By 31 December 2018, unless otherwise agreed with the Secretary, the Applicant must make suitable arrangements to provide appropriate long-term security for the Biodiversity Offset Strategy, to the satisfaction of the Secretary. Any mechanism must remain in force in perpetuity.</p>															
Biodiversity Management Plan																
26.	<p>The Applicant must prepare a Biodiversity Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <ol style="list-style-type: none"> be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary; be prepared in consultation with BCD; be submitted to the Secretary within three months of providing a satisfactory BOS or by 31 March 2018, whichever is earlier; 															
26.	<ol style="list-style-type: none"> describe the short, medium, and long term measures to be undertaken to manage the remnant vegetation and fauna habitat on the site, including within any biodiversity offset areas include a detailed description of the measures described in paragraph (d) to be implemented over the next 3 years (to be updated for each 3 year period following initial approval of the plan) including the procedures to be implemented for: <ul style="list-style-type: none"> maximising the salvage of environmental resources within the approved disturbance area, including tree hollows, vegetative and soil resources, for beneficial reuse in the enhancement of any biodiversity offset areas or site rehabilitation; restoring and enhancing the quality of native vegetation and fauna habitat in any biodiversity offset and rehabilitation areas through assisted natural regeneration, targeted vegetation establishment and the introduction of fauna habitat features; protecting vegetation and fauna habitat outside the 															

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	<p>approved disturbance area on-site;</p> <ul style="list-style-type: none"> • minimising the impacts on native fauna, including undertaking pre-clearance surveys; • ensuring minimal environmental consequences for threatened species, populations and habitats, including the Purple Copper Butterfly; • collecting and propagating seed; • controlling weeds and feral pests; • controlling erosion; and • managing bushfire risk; <p>(f) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;</p> <p>(g) identify the potential risks to the successful implementation of the BOS, and include a description of the contingency measures to be implemented to mitigate these risks; and</p> <p>(h) include details of who is responsible for monitoring, reviewing, and implementing the plan.</p> <p>The Applicant must implement the Biodiversity Management Plan as approved from time to time by the Secretary.</p>			
Conservation Bond				
27.	<p>Within 6 months of the approval of the BOS, unless otherwise agreed by the Secretary, the Applicant must lodge a Conservation Bond with the Department to ensure that the BOS is implemented in accordance with the performance and completion criteria in the Biodiversity Management Plan. The sum of the bond must be determined by:</p> <ol style="list-style-type: none"> a. calculating the full cost of implementing the BOS at third party rates (other than land acquisition costs); and b. employing a suitably qualified, independent and experienced person to verify the calculated costs. <p>The calculation of the Conservation Bond must be submitted to the Department for approval at least 1 month prior to the lodgement of the bond.</p>			
28.	<p>The Conservation Bond must be reviewed and if required, an updated bond must be lodged with the Department within 3 months following:</p> <ol style="list-style-type: none"> a. an update or revision to the Biodiversity Management Plan; b. the completion of an Independent Environmental Audit in which recommendations relating to the implementation of the BOS have been made; or c. in response to a request by the Secretary. <p>If the BOS is completed generally in accordance with the completion criteria in the Biodiversity Management Plan to the satisfaction of the Secretary, the Secretary will release the bond.</p> <p>If the BOS is not completed generally in accordance with the completion criteria in the Biodiversity Management Plan, the Secretary will call in all, or part of, the conservation bond, and arrange for the completion of the relevant works.</p>			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*												
Biodiversity Credits Required for Modification 3																
28A.	<p>The Applicant must retire biodiversity credits for Stages A to D of the development approved under Modification 3 (see Figure 2 in Appendix 1) as specified in Table 5A below, prior to commencing vegetation clearing in that Stage. The retirement of credits must be carried out in consultation with BCD and in accordance with the Biodiversity Offsets Scheme of the BC Act, to the satisfaction of the BCT.</p> <p>Table 5A: Biodiversity credit requirements</p> <table border="1" data-bbox="277 636 847 943"> <thead> <tr> <th>Credit Type</th> <th>Credits Required</th> </tr> </thead> <tbody> <tr> <td colspan="2">Ecosystem Credits</td> </tr> <tr> <td>Tranche 1 - Credits to be retired for Stage A PCT 1093 – 100 credits PCT 732 – 36 credits</td> <td>136</td> </tr> <tr> <td>Tranche 2 - Credits to be retired for Stage B PCT 1093 – 64 credits PCT 732 – 103 credits</td> <td>167</td> </tr> <tr> <td>Tranche 3 - Credits to be retired for Stage C PCT 1093 – 52 credits PCT 732 – 75 credits</td> <td>127</td> </tr> <tr> <td>Tranche 4 - Credits to be retired for Stage D PCT 1093 – 57 credits</td> <td>57</td> </tr> </tbody> </table> <p>Note: The stages referenced in Table 5A are shown in Figure 2 in Appendix 1.</p>	Credit Type	Credits Required	Ecosystem Credits		Tranche 1 - Credits to be retired for Stage A PCT 1093 – 100 credits PCT 732 – 36 credits	136	Tranche 2 - Credits to be retired for Stage B PCT 1093 – 64 credits PCT 732 – 103 credits	167	Tranche 3 - Credits to be retired for Stage C PCT 1093 – 52 credits PCT 732 – 75 credits	127	Tranche 4 - Credits to be retired for Stage D PCT 1093 – 57 credits	57			
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Rehabilitation Objectives																
29.	<p>The Applicant must rehabilitate the site to the satisfaction of RR and the Secretary. This rehabilitation must be generally consistent with the proposed rehabilitation activities described in the documents listed in condition 2 of Schedule 2 (and shown conceptually in the Rehabilitation Plan in Appendix 2), and comply with the objectives in Table 6.</p> <p>Table 6: Rehabilitation Objectives</p> <table border="1" data-bbox="277 1240 900 1507"> <thead> <tr> <th>Feature</th> <th>Objective</th> </tr> </thead> <tbody> <tr> <td>All areas of the site affected by the development</td> <td> <ul style="list-style-type: none"> Safe Hydraulically and geotechnically stable Non-polluting </td> </tr> <tr> <td></td> <td> <ul style="list-style-type: none"> Fit for the intended post-development land use(s) Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land </td> </tr> <tr> <td>Surface Infrastructure</td> <td> <ul style="list-style-type: none"> Decommissioned and removed, unless otherwise agreed by the Secretary </td> </tr> <tr> <td>Quarry benches and pit floor</td> <td> <ul style="list-style-type: none"> Landscaped and vegetated using native tree and understorey species </td> </tr> <tr> <td>Final Void</td> <td> <ul style="list-style-type: none"> Minimise the size, depth and slope of the batters of the final void Minimise the drainage catchment of the final void </td> </tr> </tbody> </table>	Feature	Objective	All areas of the site affected by the development	<ul style="list-style-type: none"> Safe Hydraulically and geotechnically stable Non-polluting 		<ul style="list-style-type: none"> Fit for the intended post-development land use(s) Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land 	Surface Infrastructure	<ul style="list-style-type: none"> Decommissioned and removed, unless otherwise agreed by the Secretary 	Quarry benches and pit floor	<ul style="list-style-type: none"> Landscaped and vegetated using native tree and understorey species 	Final Void	<ul style="list-style-type: none"> Minimise the size, depth and slope of the batters of the final void Minimise the drainage catchment of the final void 			
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Progressive Rehabilitation																
30.	<p>The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.</p>															
Rehabilitation Management Plan																
31.	<p>The Applicant must prepare a Rehabilitation Management Plan for the project to the satisfaction of RR. This plan must:</p> <p>(a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;</p> <p>(b) be prepared in consultation with the Department, DPIE - Water, FCNSW, BCD, WaterNSW, and Council;</p> <p>(c) be submitted to RR and the Secretary for approval within</p>															

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	<p>three months of the determination of Modification 1, unless the Secretary agrees otherwise, and Modification 3, unless the RR agrees otherwise;</p> <p>(d) be prepared in accordance with any relevant RR Guideline;</p> <p>(e) describe how the rehabilitation of the site would achieve the objectives identified in Table 6 and be integrated with the BOS described in condition 24;</p> <p>(f) include a detailed soil and growing medium balance for the development;</p> <p>(g) include a detailed plan for the reinstatement and review of the proposed rehabilitated woodland areas and fauna habitat, including a protocol for periodic trials to demonstrate that the target vegetation community is being achieved;</p> <p>(h) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and for triggering remedial action (if necessary);</p> <p>(i) describe the measures to be implemented to ensure compliance with the relevant conditions of this consent, and address all aspects of rehabilitation including closure of the development, final landform (including final voids), final land uses;</p> <p>(j) include procedures for the use of interim stabilisation and temporary vegetation strategies, where reasonable to minimise the area exposed for dust generation;</p> <p>(k) include a program to monitor, independently audit and report on the effectiveness of the measures in paragraph (h) above, and progress against the detailed performance and completion criteria in paragraph (g) above; and</p> <p>(l) build on to the maximum extent practicable and integrate with the other Management Plans required under this consent.</p>			
VISUAL				
32.	The Applicant must implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development to the satisfaction of the Secretary.			
33.	Prior to utilising the WSEA, the Applicant must construct a visual bund between the north-western boundary of the WSEA and the Great Western Highway, as described in EA (Mod 1). The visual bund must be maintained to the satisfaction of the Secretary.			
34.	The Applicant must install bunds at strategic locations around the site and plant additional trees along the boundary of the development site to screen, so far as is reasonable and feasible, the development from external viewers, to the satisfaction of the Secretary			
WASTE				
35.	<p>The Applicant must:</p> <p>(a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council;</p> <p>(b) minimise the waste generated by the development;</p> <p>(c) ensure that the waste generated by the development is</p>			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	appropriately stored, handled, and disposed of; and (d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.			
36.	Except as expressly permitted in an EPL, specific resource recovery order or exemption under the Protection of the Environment Operations (Waste) Regulation 2014, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.			
LIQUID STORAGE				
37.	The Applicant must ensure that all tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards.			
DANGEROUS GOODS				
38.	The Applicant must ensure that the storage, handling and transport of: (a) dangerous goods are done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code; and (b) explosives are managed in accordance with the requirements of the RR.			
BUSHFIRE				
39.	The Applicant must: (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 to the extent practicable if there is a fire in the vicinity of the site.			
40.	The Applicant must prepare a Bushfire Management Plan for the site, in consultation with FCNSW, to the satisfaction of the Rural Fire Service.			
SCHEDULE 4 – ADDITIONAL PROCEDURES				
NOTIFICATION OF LANDOWNERS				
1.	As soon as practicable, and no longer than 7 days, after obtaining monitoring results showing: (a) an exceedance of any criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results, at least every 3 months, to each affected landowner until the development is again complying with the relevant criteria; and (b) an exceedance of any air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled “Mine Dust and You” (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately owned).			
INDEPENDENT REVIEW				
2	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	<p>If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Applicant must:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and • if the development is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and <p>(b) give the Secretary and landowner a copy of the independent review; and</p> <p>(c) comply with any written requests made by the Secretary to implement any findings of the review.</p>			
VISUAL IMPACT MITIGATION				
3.	<p>If an owner of privately-owned land located to the west or north-west of the site, considers that the visual impacts of the development at his/her land could be minimised, then he/she may ask the Secretary in writing for a review of the visual impacts of the development on his/her land.</p> <p>If the Secretary is satisfied that a review is warranted, then within 2 months of the Secretary's decision, the Applicant must:</p> <p>(a) commission a suitably qualified and experienced person, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> • consult with the landowner to determine his/her concerns; • investigate ways to minimise the visual impacts of the development on land; and • prepare a visual mitigation report detailing the outcomes of the investigation and the proposed mitigation measures. <p>(b) give the Secretary and landowner a copy of the review; and</p> <p>(c) comply with any written requests made by the Secretary to implement any findings of the review.</p>			
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING				
ENVIRONMENTAL MANAGEMENT				
Environmental Management Strategy (EMS)				
1.	<p>The Applicant must prepare an Environmental Management Strategy (EMS) for the development to the satisfaction of the Secretary. This strategy must:</p> <p>(a) be submitted to the Secretary for approval within 6 months of the Secretary requiring preparation of the strategy by notice to the Applicant;</p> <p>(b) provide the strategic framework for environmental management of the development;</p> <p>(c) identify the statutory approvals that apply to the development;</p> <p>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;</p>			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	(e) describe the procedures to 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, record, handle and respond to complaints; • resolve any disputes that may arise during the course of the development; • respond to any non-compliance and any incident;; • respond to emergencies; and (f) include: <ul style="list-style-type: none"> • copies of any strategies, plans and programs approved under the conditions of this consent; • a clear plan depicting all the monitoring to be carried out under the conditions of this consent. • The Applicant must implement any EMS as approved from time to time by the Secretary. 			
Evidence of Consultation				
2.	Where conditions of this consent require consultation with an identified party, the Applicant must: <ul style="list-style-type: none"> (a) consult with the relevant party prior to submitting the subject document; and (b) provide details of the consultation undertaken including: <ul style="list-style-type: none"> (i) the outcome of that consultation, matters resolved and unresolved; and (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved. 			
Management Plan Requirements				
3.	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include: <ul style="list-style-type: none"> (a) a summary of relevant background or baseline data; (b) details of: <ul style="list-style-type: none"> (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions); (ii) any relevant limits or performance measures and criteria; and (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; 			
	<ul style="list-style-type: none"> (c) any relevant commitments or recommendations identified in the document/s listed in condition 2(c) of Schedule 2; (d) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria; (e) a program to monitor and report on the: <ul style="list-style-type: none"> (i) impacts and environmental performance of the development; and (ii) effectiveness of the management measures set out pursuant to condition 2(c) of Schedule 2; 			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	(f) contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible; (g) a program to investigate and implement ways to improve the environmental performance of the development over time; (h) a protocol for managing and reporting any: (i) incident, non-compliance or exceedance of the impact assessment criteria or performance criteria; (ii) complaint; or (iii) failure to comply with statutory requirements; (i) public sources of information and data to assist stakeholders in understanding environmental impacts of the development; and (j) a protocol for periodic review of the plan. <i>The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i>			
3A.	The Applicant must ensure that management plans prepared for the development are consistent with the conditions of this consent and any EPL issued for the site.			
Application of Existing Management Plans				
4.	The Applicant must continue to apply existing approved management plans, strategies or monitoring programs that have most recently been approved under this consent, until the approval of a similar plan, strategy or program under this consent.			
Revision of Strategies, Plans & Programs				
5.	Within 3 months of the submission of an: (a) incident report under condition 9 below; (b) Annual Review under condition 11 below; (c) audit report under condition 14 below; and (d) any modifications to this consent, the Applicant must review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. The applicant must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Updating and Staging of Strategies, Plans or Programs				
6.	With the approval of the Secretary, the Applicant may: <ul style="list-style-type: none"> (a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program); (b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and (c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under the consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development). 			
6A.	If the Secretary agrees, a strategy, plan or program may be staged without addressing particular requirements of the relevant condition of this consent if those requirements are not applicable to a particular stage.			
6B.	If the Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.			
Adaptive Management				
7.	The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must as soon as becoming aware of any exceedance: <ul style="list-style-type: none"> (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur; (b) consider all reasonable and feasible options for remediation (where relevant); (c) within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and (d) implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
COMMUNITY CONSULTATIVE COMMITTEE				
8.	The Applicant must establish and operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. The CCC must be operated in general accordance with the Department's Community Consultative Committee Guidelines, November 2019 (or later version).			
REPORTING				
Incident Reporting				
9.	The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name) and set out the location and nature of the incident.			
Non-Compliance Notification				
10.	<p>Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.</p> <p><i>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</i></p>			
Annual Review				
11	<p>By the end of September each year, or other timing as may be agreed by the Secretary, the Applicant must submit a review to the Department reviewing the environmental performance of the development to the satisfaction of the Secretary. This review must:</p> <p>(a) describe the development (including any progressive rehabilitation) that was carried out in the previous financial year, and the development that is proposed to be carried out over the current financial year;</p> <p>(b) include a comprehensive review of the monitoring results and complaints records of the development over the previous financial year, which includes a comparison of these results against the:</p> <ul style="list-style-type: none"> • relevant statutory requirements, limits or performance measures/criteria; • requirements of any plan or program required under this consent; • monitoring results of previous years; and • relevant predictions in the documents listed in condition 2(a) of Schedule 2; <p>(c) identify any non-compliance over the past financial year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>(d) identify any trends in the monitoring data over the life of</p>			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	<p>the development;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies;</p> <p>(f) describe what measures will be implemented over the current [financial/calendar] year to improve the environmental performance of the development.</p> <p>The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 7 of Schedule 5) and any interested person upon request.</p>			
12.	Copies of the Annual Review must be submitted to Council and made available to the CCC and any interested person upon request.			
INDEPENDENT ENVIRONMENTAL AUDIT				
13.	<p>Prior to the end of June 2021, and every three years after, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development.</p> <p>This audit must:</p> <p>(a) be led by a suitably qualified, experienced and independent auditor whose appointment has been endorsed by the Secretary</p> <p>(b) be conducted by a suitably qualified, experienced and independent team of experts (including any expert in field/s specified by the Secretary) whose appointment has been endorsed by the Secretary;</p> <p>(c) be carried out in consultation with the relevant agencies and CCC;</p> <p>(d) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent, water licences and mining leases for the development (including any assessment, strategy, plan or program required under these approvals);</p> <p>(e) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals and this consent;</p> <p>(f) recommend appropriate measures or actions to improve the environmental performance of the development and any assessment, strategy, plan or program required under the abovementioned approvals and this consent; and</p> <p>(g) be conducted and reported to the satisfaction of the Secretary</p>			
14.	Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of these recommendations as required. The Applicant must implement these recommendations, to the satisfaction of the Secretary.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Monitoring and Environmental Audits				
15.	<p>Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance report and independent audit.</p> <p>For the purposes of this condition, as set out in the EP&A Act, “monitoring” is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an “environmental audit” is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.</p>			
16.	<p>Noise, blast and/or air quality monitoring under this consent may be undertaken at suitable representative monitoring locations instead of at privately-owned residences or other locations listed in Schedule 3, providing that these representative monitoring locations are set out in the respective management plan/s.</p>			
ACCESS TO INFORMATION				
17.	<p>Within 6 months of the date of this consent until the completion of all rehabilitation required under this consent, the Applicant must:</p> <p>(a) make the following information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of this consent) publicly available on its website:</p> <ul style="list-style-type: none"> (i) the document/s listed in condition 2(c) of Schedule 2; (ii) all current statutory approvals for the development; (iii) all approved strategies, plans and programs required under the conditions of this consent; (iv) the proposed staging plans for the development if the construction, operation or decommissioning of the development if it is to be staged; (v) minutes of CCC meetings; (vi) regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent; (vii) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; (viii) a summary of the current progress of the development; (ix) contact details to enquire about the development or to make a complaint; (x) a complaints register, updated monthly; (xi) the Annual Reviews of the development; 			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*									
	(xii) audit reports prepared as part of any Independent Environmental Audit of the development and the Applicant's response to the recommendations in any audit report; (xiii) any other matters required by the Secretary; and (b) keep such information up to date, to the satisfaction of the Secretary.												
APPENDIX 3 – INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS													
WRITTEN INCIDENT NOTIFICATION REQUIREMENTS													
1.	A written incident notification addressing the requirements set out below must be emailed to the Department at the following address: compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant fails to give the notification required under condition 9 of Schedule 5 or, having given such notification, subsequently forms the view that an incident has not occurred.												
2.	Written notification of an incident must: (a) identify the development and application number, (b) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident); (c) identify how the incident was detected; (d) identify when the Applicant became aware of the incident; (e) identify any actual or potential non-compliance with the conditions of this consent; (f) describe what immediate steps were taken in relation to the incident; (g) identify further action(s) that will be taken in relation to the incident; and (h) identify a project contact for further communication regarding the incident.												
3.	Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Secretary, the Applicant must provide the Secretary and any relevant public authorities (as determined by the Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.												
4.	The Incident Report must include: (a) a summary of the incident; (b) outcomes of an incident investigation, including identification of the cause of the incident; (c) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and (d) details of any communication with other stakeholders regarding the incident.												
LEGEND													
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Yes = Complied with during YEAR</td> <td style="width: 33%;">No = Not complied with during YEAR</td> <td style="width: 33%;">ND = Not Determined</td> </tr> <tr> <td>NA = Not Applicable during YEAR</td> <td>NYA = Not Yet Applicable</td> <td>ANC = Administrative Non-Compliance</td> </tr> <tr> <td>* Basis for assessment of compliance</td> <td>O = Observation during audit</td> <td>D = Documentation Retained</td> </tr> </table> <p>Yes#/No# = Complied/not complied with and compliance no longer required to be assessed</p>					Yes = Complied with during YEAR	No = Not complied with during YEAR	ND = Not Determined	NA = Not Applicable during YEAR	NYA = Not Yet Applicable	ANC = Administrative Non-Compliance	* Basis for assessment of compliance	O = Observation during audit	D = Documentation Retained
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Table A3-2 Internal Compliance Audit of Relevant Conditions of Environment Protection Licence 13172 for Wallerawang Quarry from Start date to End Date

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*												
SCHEDULE 1 – ADMINISTRATIVE CONDITIONS																
What the licence authorises and regulates																
A1.1	This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2: construction of Surface facilities, surface infrastructure and water management structures.															
A1.2	<p>This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.</p> <p>Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.</p> <table border="1"> <thead> <tr> <th>Scheduled Activity</th> <th>Fee Based Activity</th> <th>Scale</th> </tr> </thead> <tbody> <tr> <td>Crushing, grinding or separating</td> <td>Crushing, grinding or separating</td> <td>> 100000 - 500000 T annual processing capacity</td> </tr> <tr> <td>Extractive activities</td> <td>Land-based extractive activity</td> <td>> 100000 - 500000 T annual capacity to extract, process or store</td> </tr> <tr> <td>Mining for minerals</td> <td>Mining for minerals</td> <td>> 100000 - 500000 T annual production capacity</td> </tr> </tbody> </table>	Scheduled Activity	Fee Based Activity	Scale	Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity	Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store	Mining for minerals	Mining for minerals	> 100000 - 500000 T annual production capacity			
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A1.3	The licensee must not carry on any scheduled activities until the scheduled development works are completed, except as elsewhere provided in this licence.															
Premises or plant to which this licence applies																
A2.1	<p>The licence applies to the following premises:</p> <p>WALLERAWANG QUARRY LOT 6 GREAT WESTERN HIGHWAY WALLERAWANG NSW 2785 PART LOT 6 DP 872230, LOT 7 DP 872230 PART LIDSDALE STATE FOREST (NO. 707)</p>															
Information supplied to the EPA																
A3.1	<p>Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.</p> <p>In this condition the reference to "the licence application" includes a reference to:</p> <ol style="list-style-type: none"> the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence. 															

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*																														
SCHEDULE 2 – DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND																																		
Location of monitoring/discharge points and areas																																		
P1.1	<p>The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.</p> <table border="1"> <thead> <tr> <th>EPA identification no.</th> <th>Type of Monitoring Point</th> <th>Type of Discharge Point</th> <th>Location Description</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Air Monitoring</td> <td></td> <td>Final location to be confirmed by Walker Quarries Pty Limited</td> </tr> </tbody> </table>	EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	4	Air Monitoring		Final location to be confirmed by Walker Quarries Pty Limited																									
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P1.2	<p>The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.</p>																																	
P1.3	<p>The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.</p> <table border="1"> <thead> <tr> <th>EPA identification no.</th> <th>Type of Monitoring Point</th> <th>Type of Discharge Point</th> <th>Location Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Discharge to waters; Discharge quality monitoring</td> <td>Discharge to waters; Discharge quality monitoring</td> <td>Overflow from final basin to unnamed tributary of Coxs River as shown by point "SD1" in Figure 4 "Surface Water Monitoring Locations" Wallerawang Quarry Soil and Water Management Plan Report No.949/02f - January 2018".</td> </tr> <tr> <td>2</td> <td>Discharge to waters; Discharge quality monitoring</td> <td>Discharge to waters; Discharge quality monitoring</td> <td>Overflow from sediment basin to unnamed tributary of Coxs River as shown by point "SB2" in Figure 4 "Surface Water Monitoring Locations" Wallerawang Quarry Soil and Water Management Plan Report No.949/02f - January 2018".</td> </tr> </tbody> </table>	EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Discharge to waters; Discharge quality monitoring	Discharge to waters; Discharge quality monitoring	Overflow from final basin to unnamed tributary of Coxs River as shown by point "SD1" in Figure 4 "Surface Water Monitoring Locations" Wallerawang Quarry Soil and Water Management Plan Report No.949/02f - January 2018".	2	Discharge to waters; Discharge quality monitoring	Discharge to waters; Discharge quality monitoring	Overflow from sediment basin to unnamed tributary of Coxs River as shown by point "SB2" in Figure 4 "Surface Water Monitoring Locations" Wallerawang Quarry Soil and Water Management Plan Report No.949/02f - January 2018".																					
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SCHEDULE 3 – LIMIT CONDITIONS																																		
Pollution of waters																																		
L1.1	<p>Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i>.</p>																																	
Concentration limits																																		
L2.1	<p>For each monitoring/discharge point or utilisation area specified in the table below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.</p>																																	
L2.2	<p>Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.</p>																																	
L2.3	<p>To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.</p>																																	
L2.4	<p>Water and/or Land Concentration Limits</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of Measure</th> <th>50 percentile concentration limit</th> <th>90 percentile concentration limit</th> <th>3DGM concentration limit</th> <th>100 percentile concentration limit</th> </tr> </thead> <tbody> <tr> <td>Oil and Grease</td> <td>milligrams per litre</td> <td></td> <td></td> <td></td> <td>10</td> </tr> <tr> <td>pH</td> <td>pH</td> <td></td> <td></td> <td></td> <td>6.5 - 8.5</td> </tr> <tr> <td>Sulfate</td> <td>milligrams per litre</td> <td></td> <td></td> <td></td> <td>250</td> </tr> <tr> <td>Total suspended solids</td> <td>milligrams per litre</td> <td></td> <td></td> <td></td> <td>30</td> </tr> </tbody> </table>	Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit	Oil and Grease	milligrams per litre				10	pH	pH				6.5 - 8.5	Sulfate	milligrams per litre				250	Total suspended solids	milligrams per litre				30			
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Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*										
L2.5	<p>The concentration limits stipulated by condition L2.4 for EPA identification points 1 and 2 are deemed not to apply when the discharge from the stormwater control structures (sediment dams) occurs solely as a result of rainfall measured at the premises which exceeds:</p> <p>a) a total of 56 mm of rainfall over any consecutive 5 day period.</p>													
L2.6	<p>The concentration limit for total suspended solids stipulated by condition L2.4 for EPA identification points 1 and 2 are deemed not to have been breached where:</p> <p>a) the water discharged is covered by condition L2.5; OR</p> <p>b) when not covered by condition L2.5, the water discharged (in accordance with conditions O4.1 and O4.2) is within pH range 6.5 - 8.5 and has a turbidity (as measured in nephelometric turbidity units (NTU) using a hand held turbidity meter) of 25 NTU or less at the time of the discharge; and</p> <p>c) the EPA is advised within 3 working days of the completion of the sample testing and analysis as required by condition M2.2 of any results above the licence discharge limits specified under condition L2.4.</p>													
Waste														
L3.1	<p>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.</p> <p>Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.</p> <p>Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.</p> <p>This condition does not limit any other conditions in this licence.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Waste</th> <th>Description</th> <th>Activity</th> <th>Other Limits</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>General or Specific exempted waste</td> <td>Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005</td> <td>As specified in each particular resource recovery exemption</td> <td>NA</td> </tr> </tbody> </table>	Code	Waste	Description	Activity	Other Limits	NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005	As specified in each particular resource recovery exemption	NA			
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Noise														
L4.1	<p>Noise from the premises must not exceed:</p> <p>a) 43 dB(A) $LA_{eq(15\text{ minute})}$ during the day (7am to 6pm) Monday to Friday and 7am to 1pm Saturday; and</p> <p>b) 43 dB(A) $LA_{eq(15\text{ minute})}$ during the evening (6pm to 10pm) Monday to Friday; and</p> <p>c) at all other times 39 dB(A) $LA_{eq(15\text{ minute})}$, except as expressly provided by this licence.</p> <p>Where LA_{eq} means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.</p>													

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
L4.2	Noise from the premises is to be measured at the nearest or most affected residence to determine compliance with this condition.			
L4.3	The noise emission limits identified in this licence apply under all meteorological conditions except: <ul style="list-style-type: none"> a) during rain and wind speeds (at 10m height) greater than 3m/s; and b) under "non-significant weather conditions". 			
Blasting				
L5.1	The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.			
L5.2	The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.			
L5.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.			
L5.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5 mm/sec for more than five percent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.			
L5.5	Blasting in or on the premises must only be carried out between 9 am and 5 pm, Monday to Saturday. Blasting in or on the premises must not take place on Sundays or Public Holidays without the EPAs prior approval.			
SCHEDULE 4 – OPERATING CONDITIONS				
Activities must be carried out in a competent manner				
O1.1	Licensed activities must be carried out in a competent manner. This includes: <ul style="list-style-type: none"> a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity. 			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Maintenance of plant and equipment				
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: <ul style="list-style-type: none"> a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner. 			
Dust				
O3.1	All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.			
O3.2	Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.			
Other operating conditions				
O4.1	The stormwater control structures (sediment dams) identified at condition L2.4 EPA identification point 1 and 2 must be drained or pumped out as necessary to maintain each basins design storage capacity within 5 days following rainfall.			
O4.2	Water discharged to comply with condition O4.1 may only be discharged to waters from those stormwater control structures (sediment dams) identified at EPA identification point 1 and 2 where the discharged water complies with the discharge limits stipulated at condition L2.4 (and taking into consideration condition L2.6).			
O4.3	The licensee must undertake maintenance as necessary to desilt any storage basin identified at EPA identification points 1 and 2 in order to retain each storage basins design storage capacity (the capacity to store 56mm of rainfall over any consecutive 5 day period).			
SCHEDULE 5 – MONITORING AND RECORDING CONDITIONS				
Monitoring records				
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.			
M1.2	All records required to be kept by this licence must be: <ul style="list-style-type: none"> a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them. 			
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: <ul style="list-style-type: none"> a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample. 			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*																																			
Requirement to monitor concentration of pollutants discharged																																							
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:																																						
M2.2	Water and/ or Land Monitoring Requirements <table border="1" data-bbox="277 658 815 819"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Conductivity</td> <td>microsiemens per centimetre</td> <td>Monthly during discharge</td> <td>Grab sample</td> </tr> <tr> <td>Oil and Grease</td> <td>milligrams per litre</td> <td>Monthly during discharge</td> <td>Grab sample</td> </tr> <tr> <td>pH</td> <td>pH</td> <td>Monthly during discharge</td> <td>Grab sample</td> </tr> <tr> <td>Sulfate</td> <td>milligrams per litre</td> <td>Monthly during discharge</td> <td>Grab sample</td> </tr> <tr> <td>Total suspended solids</td> <td>milligrams per litre</td> <td>Monthly during discharge</td> <td>Grab sample</td> </tr> </tbody> </table>	Pollutant	Units of measure	Frequency	Sampling Method	Conductivity	microsiemens per centimetre	Monthly during discharge	Grab sample	Oil and Grease	milligrams per litre	Monthly during discharge	Grab sample	pH	pH	Monthly during discharge	Grab sample	Sulfate	milligrams per litre	Monthly during discharge	Grab sample	Total suspended solids	milligrams per litre	Monthly during discharge	Grab sample														
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Testing methods - concentration limits																																							
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.																																						
Weather monitoring																																							
M4.1	For each monitoring point specified in the table below the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns. <table border="1" data-bbox="277 1308 842 1462"> <thead> <tr> <th>Parameter</th> <th>Units of Measure</th> <th>Frequency</th> <th>Averaging Period</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Air temperature</td> <td>°C</td> <td>Continuous</td> <td>1 hour</td> <td>AM-4</td> </tr> <tr> <td>Wind direction</td> <td>°</td> <td>Continuous</td> <td>15 minute</td> <td>AM-2 & AM-4</td> </tr> <tr> <td>Wind speed</td> <td>m/s</td> <td>Continuous</td> <td>15 minute</td> <td>AM-2 & AM-4</td> </tr> <tr> <td>Sigma theta</td> <td>°</td> <td>Continuous</td> <td>15 minute</td> <td>AM-2 & AM-4</td> </tr> <tr> <td>Rainfall</td> <td>mm</td> <td>Continuous</td> <td>15 minute</td> <td>AM-4</td> </tr> <tr> <td>Relative humidity</td> <td>%</td> <td>Continuous</td> <td>1 hour</td> <td>AM-4</td> </tr> </tbody> </table>	Parameter	Units of Measure	Frequency	Averaging Period	Sampling Method	Air temperature	°C	Continuous	1 hour	AM-4	Wind direction	°	Continuous	15 minute	AM-2 & AM-4	Wind speed	m/s	Continuous	15 minute	AM-2 & AM-4	Sigma theta	°	Continuous	15 minute	AM-2 & AM-4	Rainfall	mm	Continuous	15 minute	AM-4	Relative humidity	%	Continuous	1 hour	AM-4			
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Recording of pollution complaints																																							
M5.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.																																						
M5.2	The record must include details of the following: <ol style="list-style-type: none"> the date and time of the complaint; the method by which the complaint was made; any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; the nature of the complaint; the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and if no action was taken by the licensee, the reasons why no action was taken. 																																						

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.			
M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.			
Telephone complaints line				
M6.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.			
M6.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.			
M6.3	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.			
Blasting				
M7.1	To determine compliance with condition(s) L5.1 to L5.4 a) Air blast overpressure and ground vibration levels must be measured at the most affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative blasting level – for all blasts carried out in or on the premises; and b) Instrumentation used to measure the air blast overpressure and ground vibration levels must meet requirements of Australian Standard 2187.2 of 2006.			
SCHEDULE 6 – REPORTING CONDITIONS				
Annual return documents				
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.			
R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.			
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or a) in relation to the revocation of the licence - the date from which notice revoking the licence operates.			
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').			
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.			
R1.7	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.			
Notification of environmental harm				
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.			
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Written report				
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.			
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.			
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.			
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.			
SCHEDULE 7 – GENERAL CONDITIONS				
Copy of licence kept at the premises or plant				
G1.1	A copy of this licence must be kept at the premises to which the licence applies.			
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.			
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.			
LEGEND				
Yes = Complied with during YEAR		No = Not complied with during YEAR		ND = Not Determined
NYA = Not Yet Applicable		NA = Not Applicable during YEAR		ANC = Administrative Non-Compliance
* = Basis for assessment of compliance		D = Documentation Retained		O = Observation during audit
Yes# / No# = Complied / not complied with and compliance no longer required to be assessed				

Table A3-3 Internal Compliance Audit of Relevant Conditions of Mining Lease 1633 for Wallerawang Quarry from Start date to End Date

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Notice to Landholders				
1	<p>Within a period of three months form the date of grant/renewal of this lease or within such further time as the Minister may allow, the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice.</p> <p>If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this lease has been granted/renewed; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.</p>			
Environmental Harm				
2	The leaseholder 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.			
Mining Operations Plan				
3	<p>(a) Mining operations must not be carried out otherwise than in accordance with:</p> <p>A Mining Operations Plan (MOP) which has been approved by the Director-General of the Department of Primary Industries.</p> <p>(b) The MOP must:</p> <ul style="list-style-type: none"> (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under: <ul style="list-style-type: none"> – the <i>Environmental Planning and Assessment Act 1979</i> – the <i>Protection of the Environment Operations Act 1997</i> – and any other approvals relevant to the development including the conditions of this lease; and (vi) have regard to any relevant guidelines adopted by the Director-General. <p>(c) The leaseholder may apply to the Director-Generally amend an approved MOP at any time.</p>			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	(d) It is not a breach of this condition if: <ul style="list-style-type: none"> i. the operations constituting the breach were necessary to comply with a lawful order or direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection of the Environment Operations Act 1997 or the Occupational Health and Safety Act 2000; and ii. the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have effect 7 years after date of approval or other such period as identified by the Director-General. An approved amendment to the MOP under condition 5 does not constitute an approval for the purpose of this paragraph unless otherwise identified by the Director-General.			
Environment Management Reporting				
4	The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General.			
The EMR must:				
5	(a) report against compliance with the MOP; (b) report on progress in respect of rehabilitation completion criteria; (c) report on the extent of compliance with regulatory requirements; and (d) have regard to any relevant guidelines adopted by the Director-General;			
6	Additional environmental reports may be required on specific surface disturbing operations or environmental incidents from time to time as directed in writing by the Director-General and must be lodged as instructed.			
Rehabilitation				
7	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.			
Working Requirement				
9	(a) Ensure that at least 2 competent people are efficiently employed on the lease area on each week day except Sunday or any week day that is a public holiday. OR (b) Expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than \$35,000.00 per annum whilst the lease is in force. The minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Control of Operations				
10	<p>(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to:-</p> <ul style="list-style-type: none"> (i) Cease working the lease; or (ii) Cease the part of the operation not complying with the Act or conditions; until in the opinion of the Environmental officer the situation is rectified. <p>(b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction.</p> <p>(c) A direction referred to in this condition may be served on the Mine Manager.</p>			
Reports				
11	<p>The lease holder must provide an exploration report, within a period of twenty-eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following:</p> <ul style="list-style-type: none"> (a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period; (b) Details of expenditure incurred in conducting that exploration; (c) A summary of all geological findings acquired through mining or development evaluation activities; (d) Particulars of exploration proposed to be conducted in the next twelve months period; (e) All plans, maps, sections and other data necessary to satisfactorily interpret the report. 			
Licence to Use Reports				
12	<ul style="list-style-type: none"> (a) The lease holder grants to the Minister, by way of a non-exclusive licence, the right in copyright to publish, print, adapt and reproduce all exploration reports lodged in any form and for the full duration of copyright. (b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the <i>Mining Act 1992</i>. 			
Confidentiality				
13	<ul style="list-style-type: none"> (a) All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where: <ul style="list-style-type: none"> (i) The lease holder has agreed that specified reports may be made non-confidential. (ii) Reports deal with exploration conducted exclusively on areas that have ceased to be part of the lease. 			

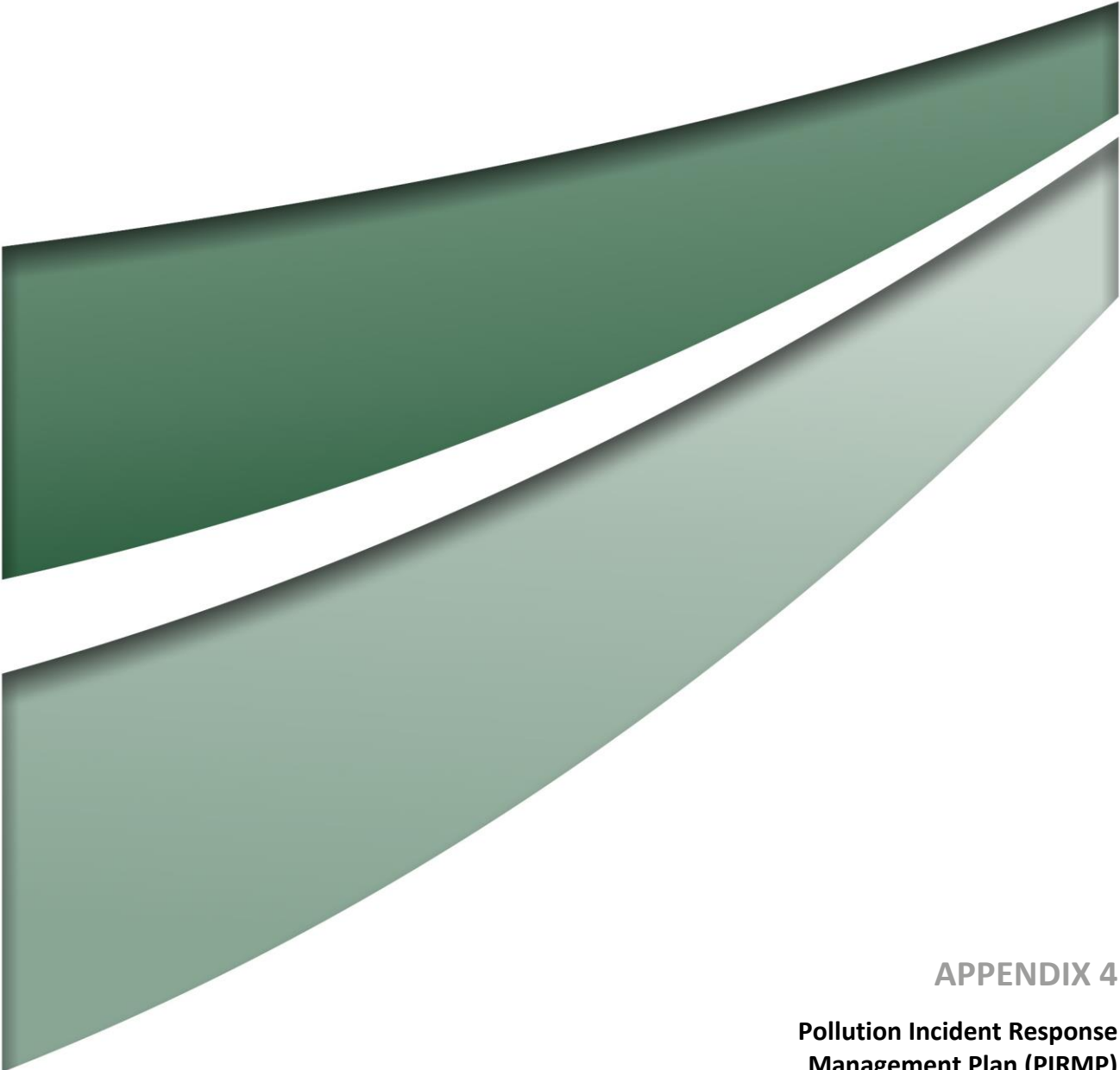
Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
	(b) Confidentiality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow-on title or any subsequent flow-on title, has terminated. (c) The Director-General may extend the period of confidentiality.			
Terms of the non-exclusive licence				
14	The terms of the non-exclusive copyright licence granted under condition 12 are: (a) The Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports. (b) The Minister and any sub- licensee will acknowledge the lease holder's and any identifiable consultant's ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database. (c) The lease holder does not warrant ownership of all copyright works in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright. (d) There is no royalty payable by the Minister for the licence. (e) If the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non-exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period of not less than three months' notice.			
Blasting				
15	(a) <u>Ground Vibration</u> The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment and Climate Change. (b) <u>Blast Overpressure</u> The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment and Climate Change.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Safety				
16	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.			
Exploratory Drilling				
17	<p>(a) At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Water and Energy Regional Hydrologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes.</p> <p>(b) If the lease holder drills exploratory drill holes he must satisfy the Director-General that:-</p> <ul style="list-style-type: none"> (i) All cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established; (ii) All holes cored or otherwise are sealed to prevent the collapse of the surrounding surface; (iii) All drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters; (iv) If any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape; (v) If any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers. (vi) Once any drill holes ceases to be used the hole must be sealed in accordance with Departmental guidelines. Alternatively, the hole must be sealed as instructed by the Director-General. (vii) Once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition. 			
Prevention of Soil Erosion and Pollution				
18	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwater's. The lease holder must observe and perform any instructions given by the Director-General in this regard.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Transmission lines, Communication lines and Pipelines				
19	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline or any other utility on the lease area without prior written approval of the Director-General and subject to any conditions he may stipulate.			
Fences, Gates				
20	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.			
Roads and Tracks				
21	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.			
22	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Environment and Climate Change.			
Trees and Timber				
23	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden. (b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the <i>Native Vegetation Act 2003</i> . (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Resource Recovery				
25	<p>(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals.</p> <p>(b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery.</p> <p>(c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.</p> <p>(d) The Director-General shall issue no such notice unless the matter has firstly been thoroughly discussed with and a report to the Director-General has incorporated the views of the lease holder.</p> <p>(e) The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minister shall refer it to a Warden for inquiry and report under Section 334 of the <i>Mining Act, 1992</i>.</p> <p>(f) After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original notice and shall give the lease holder written notice of the decision.</p>			
Indemnity				
26	<p>The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.</p>			

Condition No.	Paraphrased Requirement	Compliance	Comment	Basis*
Security				
27	<p>(a) A security in the sum of \$434,000.00 must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under this lease. If the lease holder fails to fulfil any one or more of such obligations the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of this lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.</p> <p>(b) The lease holder must provide the security required by sub-clause (a) in one of the following forms:</p> <ul style="list-style-type: none"> (i) Cash, (ii) A security certificate in a form approved by the Minister and issued by an authorized deposit-taking institution. 			
LEGEND				
<p>Yes = Complied with during YEAR No = Not complied with during YEAR ND = Not Determined NYA = Not Yet Applicable NA = Not Applicable during YEAR ANC = Administrative Non-Compliance * = Basis for assessment of compliance D = Documentation Retained O = Observation during audit Yes# / No# = Complied / not complied with and compliance no longer required to be assessed</p>				



APPENDIX 4

**Pollution Incident Response
Management Plan (PIRMP)**

Walker Quarries Pty Ltd

Pollution Incident Response Management Plan

for the
Wallerawang Quarry
(EPL 13172)



Walker Quarries Pty Ltd

Head Office

191 Main Street
Lithgow NSW 2790
PO Box 307
LITHGOW NSW 2790
Phone: +61-2-63523377
Fax: +61-2-63523661

Site

Quarry Site Office
Lot 6 Great Western Hwy
Wallerawang NSW 2790
PO Box 307
LITHGOW NSW 2790
Mobile: 0413 784 420
Phone: 02 6324066

Distribution:

Department of Planning
Industry & Investment NSW – Mineral Resources
Industry & Investment NSW - Agriculture
Department of Environment, Climate Change and Water - EPA
NSW Sydney Water
Greater City of Lithgow Council
Wallerawang Quarry Community Consultative Committee
NSW Forests

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DOCUMENT REVIEW HISTORY

Issue	Date	Description
1	August 2012	Initial document prepared to meet the PIRMP guidelines.
2	13 November 2017	Site review
3	13 November 2017	Update / Site review
4	18 July 2019	Update/ Site Review
5	15 August 2019	Update/ Site Review

1.0 INTRODUCTION

1.1 Key Aspects of the PIRMP

This Pollution Incident Response Management Plan (PIRMP) covers the key actions to minimise occurrence of a pollution incident and manage a pollution incident if one occurs (during and after a pollution incident). The PIRMP does not have procedures for the treatment of injured persons or the remediation of the environment following a pollution incident.

The PIRMP has been prepared for managing the impact to human health (employees and nearby neighbours) and the environment (onsite and offsite).

1.2 Background to

Figures have been prepared as per the requirements of the PIRMP Guidelines. **Fig Figure 2** outlines the site in more detail, providing the location of licensed water sampling and dust points.

2.0 REQUIREMENT TO PREPARE THE PIRMP

2.1 Legislative Requirement

The specific requirements for Pollution Incident Response Management Plans (PIRMP) are set out in *Part 5.7A* of the *Protection of the Environment Operations Act 1997* (POEO Act) and the *Protection of the Environment Operations (General) Regulation 2009* (POEO(G) Regulation). In summary, this provision requires the following:

- All holders of environment protection licences must prepare a pollution incident response management plan (*section 153A, POEO Act*).
- The plan must include the information detailed in the *POEO Act* (*section 153C*) and be in the form required by the *POEO(G) Regulation* (*clause 98B*).
- Licensees must keep the plan at the premises to which the environment protection licence relates or, in the case of trackable waste transporters and mobile plant, where the relevant activity takes place (*section 153D, POEO Act*).
- Licensees must test the plan in accordance with the *POEO(G) Regulation* (*clause 98E*).
- If a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened, licensees must immediately implement the plan (*section 153F, POEO Act*).

Holders of an existing environment protection licence will need to prepare and be able to implement a PIRMP by 1 September 2012.

Wallerawang Quarry PIRMP	Approver: Signature:	Date: Review date:
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2.2 Structure of PIRMP

Table 1 outlines the structure of the PIRMP, as per the requirements of the POEO (G) Regulation.

Wallerawang Quarry PIRMP	Approver: Signature:	Date: Review date:
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Table 1: Requirement to Prepare PIRMP

Clause Number	Requirement	Section in Plan
98 C (1) (a)	A description of the hazards to human health or the environment associated with the activity to which the licence relates (the relevant activity),	Section 5 Appendix 1
98 C (1) (b)	The likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood,	Section 5 Appendix 1
98 C (1) (c)	Details of the pre-emptive action to be taken to minimise or prevent any risk of harm to human health or the environment arising out of the relevant activity,	Section 9.2 Appendix 1
98 C (1) (d)	An inventory of potential pollutants on the premises or used in carrying out the relevant activity,	Section 6
98 C (1) (e)	The maximum quantity of any pollutant that is likely to be stored or held at particular locations (including underground tanks) at or on the premises to which the licence relates,	Section 6
98 C (1) (f)	A description of the safety equipment or other devices that are used to minimise the risks to human health or the environment and to contain or control a pollution incident,	Section 7
98 C (1) (g)	The names, positions and 24-hour contact details of those key individuals who: (i) are responsible for activating the plan, and (ii) are authorised to notify relevant authorities under section 148 of the Act, and (iii) are responsible for managing the response to a pollution incident,	Section 10.1
98 C (1) (h)	The contact details of each relevant authority referred to in section 148 of the Act,	Section 10.2
98 C (1) (i)	Details of the mechanisms for providing early warnings and regular updates to the owners and occupiers of premises in the vicinity of the premises to which the licence relates or where the scheduled activity is carried on,	9.1
98 C (1) (j)	The arrangements for minimising the risk of harm to any persons who are on the premises or who are present where the scheduled activity is being carried on,	Section 8
98 C (1) (k)	A detailed map (or set of maps) showing the location of the premises to which the licence relates, the surrounding area that is likely to be affected by a pollution incident, the location of potential pollutants on the premises and the location of any stormwater drains on the premises,	Figures 1 and 2
98 C (1) (l)	A detailed description of how any identified risk of harm to human health will be reduced, including (as a minimum) by means of early warnings, updates and the action to be taken during or immediately after a pollution incident to reduce that risk,	Section 9 Appendix 1
98 C (1) (m)	The nature and objectives of any staff training program in relation to the plan,	Section 12
98 C (1) (n)	The dates on which the plan has been tested and the name of the person who carried out the test,	Section 14
98 C (1) (o)	The dates on which the plan is updated,	After table of contents
98 C (1) (p)	The manner in which the plan is to be tested and maintained.	Section 14

Wallerawang Quarry PIRMP	Approver:	Date:
	Signature:	Review date:

3.0 DEFINITION OF A POLLUTION INCIDENT

The POEO Act 1997 defines a pollution incident as:

“pollution incident means an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise”.

A licensee is required to notify the relevant regulatory authorities of a pollution incident if there is a risk of ‘material harm to the environment’, which is defined in section 147 of the POEO Act as:

- (a) *harm to the environment is material if:*
 - (i) *it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or*
 - (ii) *it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and*
- (b) *loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.*

Harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution.

4.0 IMMEDIATE NOTIFICATION OF POLLUTION INCIDENT

Licensees will now be required to report pollution incidents “immediately” instead of “as soon as practicable” (section 148 POEO Act). This means that licensees need to report pollution incidents without delay.

Licensees must notify all of the Appropriate Regulatory Authorities about the incidents. These include:

- Environment Protection Authority (EPA);
- Ministry of Health;
- WorkCover Authority;
- Local council; and
- Fire and Rescue NSW.
- NSW Forests

Wallerawang Quarry PIRMP	Approver:	Date:
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5.0 DESCRIPTION AND LIKELIHOOD OF HAZARDS AND PRE-EMPTIVE ACTIONS

This section has been prepared to meet the requirements of clause 98C (1) (a), (b) and (c) of the *POEO(G) Regulation*.

A pollution incident risk assessment for Walker Quarries (**Appendix 2**) has been prepared to:

- Describe the hazards to human health and the environment;
- Describe the likelihood of any such hazards occurring;
- Outline existing controls to prevent pollution incidents occurring; and
- Outline key pollution response measures.

6.0 INVENTORY OF POTENTIAL POLLUTANTS

Table 2 outlines the potential pollutants (chemicals) stored onsite or transported to Walker Quarries

Table 2: Inventory of Chemicals at Walker Quarries

Product Name	Location/s of where product is stored	Quantities
Diesel Fuel	Self Bunded Fuel Pod	SFL 52 400 Litres
Machine Oils	Containerised in oil shed on palletted bunded facility	1000 Litres (200l drums and or 20 litre drums)

7.0 INVENTORY OF SAFETY EQUIPMENT

Table 3 outlines the safety equipment kept on site.

Table 3: Inventory of Safety Equipment

Product Name	Location/s of where equipment is stored	Calibration/Maintenance Requirement
Fire Extinguisher	In all Vehicles	Inspections and calibration as per manufacturer requirements.
Spill Kit	In Container	Every two Months
PPE	In all Vehicles	Quarterly
MSDS's	On Site	Quarterly
First AID Kit	In all Vehicles	Quarterly
Safety Signage	Across site	Quarterly
Mains Water tank	Top of quarry Pit	Annual
Water Pumps	Around dams and sand plant	Quarterly

Wallerawang Quarry PIRMP	Approver:	Date:
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8.0 MINIMISING HARM TO PERSONS ON THE PREMISES

All staff and contractors are to be inducted before completing any work on site. The induction covers procedures for minimising the chance of a pollution incident occurring, managing a pollution incident and actions following a pollution incident.

Minimising the impact to persons during a pollution incident must be the highest priority.

In the event that a pollution incident requires the evacuation of the site, actions will be completed in accordance with the site Emergency Management Plan.

All staff will be informed on the location of muster locations through site inductions, signage and ongoing training.

As part of the preparation of the PIRMP, the key aspects of the plan will be provided to staff and contractors.

Emergency reporting will be recorded on the Duty Card (**Appendix 3**).

9.0 ACTIONS TO BE TAKEN BEFORE, DURING OR IMMEDIATELY AFTER A POLLUTION INCIDENT

9.1 Actions to Minimise a Pollution Incident

The Pollution Risk Assessment (**Appendix 2**) outlines potential pollution incidents at Walker Quarry. For each potential pollution risk, there are a number of controls outlined. Some general controls which are in place to reduce the likelihood of a pollution incident occurring include:

- Site Environmental and Safety Management Plans;
- Regular inspections and maintenance;
- Environmental monitoring;
- Correct storage, transport and waste management; and
- Training and awareness.

The site will make all attempts to prevent pollution incidents; but in a situation where a pollution incident is imminent and may potentially cause detrimental impacts to human health or the environment, the site will contact the necessary stakeholders (employees, contractors, neighbours, Appropriate Regulatory Authorities) to provide as much early warning as possible.

9.2 Actions during a Pollution Incident (When Quarry is Operating)

If an evacuation is required, this shall be completed in accordance with **section 8**. In the event that a pollution incident requires the evacuation of the site, actions will be completed in accordance with the site Emergency Management Plan. All staff are informed on the location of muster locations through site inductions, signage and on-going training.

Licensees are required to report pollution incidents “immediately” (without delay) to the Appropriate Regulatory Authorities listed in **section 10.2**.

In the event of a pollution incident, the person who has identified the incident should immediately contact the Site Manager or the Environment & Community Coordinator. The person reporting the pollution incident should provide the following key details:

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- Their name and contact details;
- Location of the pollution incident/emergency;
- Nature of the pollution incident/emergency; and
- Details of any assistance required.

The details of any emergency call or incident reporting will be recorded on the Duty Form (**Appendix 3**)

Some general controls for managing a pollution incident include:

- Visually assess the situation. Undertake emergency response if required;
- Contact the appropriate regulatory authorities in accordance with the PIRMP;
- If safe and possible to do so, undertake immediate measures that prevent further impacts from the pollution incident;
- Take direction from the Appropriate Regulatory Authorities as required; and
- If required seek assistance from specialist consultants/contractors.

9.3 Actions Following a Pollution Incident

If a pollution incident occurs, there will be a detailed incident investigation and a report will be sent to Walker Quarry Management and relevant Appropriate Regulatory Authorities.

The Incident Report Form (**Appendix 4**) will be completed.

If Walker Quarry Management were notified of the pollution incident by the public then the complaint will be logged as per the Complaint Form (**Appendix 5**) and the Incident Report Form will also be completed.

Within a month following a pollution incident, the PIRMP will be reviewed and tested. Walker Quarry Management will continue to liaise with the relevant Appropriate Regulatory Authorities to reduce the likelihood of the pollution incident occurring.

All staff and contractors will receive the necessary refresher training, and the key outcomes of the incident investigation will be reported to staff and contractors.

10.0 CONTACT DETAILS.

10.1 Details for those Managing the Response

The following personnel outlined in **Table 4** are responsible for reporting the environmental incidents.

Table 4: Contact Details

Key Contact	Position	Contact Details
Quarry Manager	Manager	0413 784 420
Production Manager	Production Manager	0409 442 040

Wallerawang Quarry PIRMP	Approver:	Date:
	Signature:	Review date:

* Whilst personal contact details for the following are available in the Controlled-on site Pollution Incident Response Management Plans they do not appear in this public document under provision of the Privacy and Personal Information Protection Act 1998.

10.2 Details for Appropriate Relevant Authorities

This section has been prepared to meet the requirements of clause 98C (1) h of the *POEO(G) Regulation*. The following table (**Table 5**) outlines the contact details for the appropriate regulatory authorities for reporting pollution incidents.

Table 5: Appropriate Regulatory Authorities Contact Details

Appropriate Regulatory Authority	Key Contact	Contact Details
NSW Office of Environment and Heritage Sub department: Environment Protection Authority	<i>This will result in the incident being recorded and the appropriate person being contacted</i>	131 555
NSW Ministry of Health Bathurst	Ministry of Health Bathurst	(02) 6339 5601
Safe Work NSW	Incident Notification Hotline (Response Management Team):	131 050 <i>Select Option 3 to report a 'Serious Incident or Fatality' - This will result in the incident being recorded and the appropriate person being contacted</i>
Local Authority (Council)	(Lithgow City Council - Environment Team Leader):	(02) 6354 9999
Fire and Rescue & Police	-	000

11.0 COMMUNICATION WITH NEIGHBOURS AND THE LOCAL COMMUNITY

When Walker Quarry is Operating the nearest residential properties are located in 2 kms away on the Northern side of the Great Western Highway.

In the event of a pollution incident, Walker Quarry has the following processes for contacting the community:

- When an incident occurs, Walker Quarry will **immediately** contact the five Appropriate Regulatory Authorities listed in **Table 5**.
- Walker Quarry will consult with these Appropriate Regulatory Authorities to determine if the community is to be notified of the pollution incident. Walker Quarry will discuss with the Appropriate Regulatory Authorities regarding the most relevant communication strategy (eg. Walker Quarry website, media release, direct contact with those potentially impacted).

Wallerawang Quarry PIRMP	Approver:	Date:
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- Contact with the community to be then completed as per the agreed communication strategy. An appropriate strategy will involve telephone calls, text messaging and include incident specific advice regarding safety precautions/ actions to be carried out by the community in response to a pollution incident.
- The results of the investigation of any pollution incident from Walker Quarry are put on the Walker Quarry website.

12.0 STAFF TRAINING

This section has been prepared to meet the requirements of clause 98C (1) (m) of the *POEO(G) Regulation*.

The requirements of the PIRMP will be outlined in the site induction for all new employees and contractors. A toolbox talk outlining the key components on the PIRMP will be presented to all Walker Quarry staff and contractors. The objective of training will be to ensure all staff and contractors are aware of the key steps to manage a pollution incident. If a pollution incident occurs, refresher training will be delivered to staff and contractors.

13.0 AVAILABILITY OF PIRMP

A copy of the PIRMP (electronic and hard copy) is to be kept at the premises. Walker Quarry will provide the NSW OEH (EPA) a copy upon request.

14.0 TESTING OF PIRMP

The PIRMP will be tested every twelve months as per the requirement of the *POEO(G) Regulation*. The testing of the PIRMP is to be carried out in such a manner as to ensure that the information included in the plan is accurate and up to date, and that each plan is capable of being implemented in a workable and effective manner.

Testing will involve undertaking desktop simulations of incidents and if necessary, completing exercises or drills. Testing will need to cover all the components of the PIRMP, including the effectiveness of training.

Plans must also be tested within one month of any pollution incident occurring in the course of an activity to which a licence relates to assess, in the light of that incident, whether the information included in the plan is accurate and up to date, and the plan is still capable of being implemented in a workable and effective manner.

15.0 REFERENCES

Environmental Protection Authority 2012, Guideline for the Preparation of Pollution Incident Response Management Plans

NSW Office of Environment and Heritage, Environmental Protection Licence (EPL) 3607

Protection of the Environment Operations (General) Amendment (Pollution Incident Response Management Plans) Regulation 2012.

APPENDICES

APPENDIX 1 – Site Map

APPENDIX 2 – Pollution Risk Assessment

Wallerawang Quarry PIRMP	Approver:	Date:
	Signature:	Review date:

- APPENDIX 3 – Duty Card
- APPENDIX 4 – Incident Report and Detail Form
- APPENDIX 5 – Complaints Form
- APPENDIX 6 – Location of sediment dams
- APPENDIX 7 – Location of Water discharge Points

APPENDIX 1

SITE MAP



Wallerawang Quarry PIRMP	Approver: Signature:	Date: Review date:
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APPENDIX 2

POLLUTION RISK ASSESSMENT

Pollution Identification and Risk Assessment Form																																						
<p>Definition for Severity: Insignificant – No injuries or emissions, low financial loss Minor – First aid treatment, on-site release immediately contained, medium financial loss. Moderate – Medical treatment required, on-site released contained with outside assistance, high financial loss. Major – Extensive injuries, loss of production capability, off-site release with no detrimental effects, major financial loss. Catastrophic – Death, Toxic release off-site with detrimental effect, huge financial loss.</p>	<p>Definition for Likelihood: Almost Certain – Is expected to occur in most circumstances. Likely – Will probably occur in most circumstances Possible – Might occur at some time. Unlikely – Could occur at some time. Rare – May occur only in exceptional circumstances</p>	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Severity → Likelihood ↓</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Catastrophic</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Major</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Moderate</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Minor</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Insignificant</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Almost Certain</td> <td style="text-align: center;">H</td> <td style="text-align: center;">H</td> <td style="text-align: center;">H</td> <td style="text-align: center;">M</td> <td style="text-align: center;">M</td> </tr> <tr> <td style="text-align: center;">Likely</td> <td style="text-align: center;">H</td> <td style="text-align: center;">H</td> <td style="text-align: center;">M</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">Possible</td> <td style="text-align: center;">H</td> <td style="text-align: center;">H</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">Unlikely</td> <td style="text-align: center;">H</td> <td style="text-align: center;">M</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">Rare</td> <td style="text-align: center;">M</td> <td style="text-align: center;">M</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> <td style="text-align: center;">L</td> </tr> </tbody> </table> <p style="text-align: center;"><i>Severity x Likelihood = Risk Rating</i></p>	Severity → Likelihood ↓	Catastrophic	Major	Moderate	Minor	Insignificant	Almost Certain	H	H	H	M	M	Likely	H	H	M	M	L	Possible	H	H	M	L	L	Unlikely	H	M	M	L	L	Rare	M	M	L	L	L
Severity → Likelihood ↓	Catastrophic	Major	Moderate	Minor	Insignificant																																	
Almost Certain	H	H	H	M	M																																	
Likely	H	H	M	M	L																																	
Possible	H	H	M	L	L																																	
Unlikely	H	M	M	L	L																																	
Rare	M	M	L	L	L																																	
Project Name: Walker Quarry	Date: 14/1/16																																					
Person/s Involved: Ray Sharwood-Ross Brownlow	Signed:																																					
Person/s Involved:	Signed:																																					
Person/s Involved:	Signed:																																					

Ref. #	Hazard/Aspect/Design Change	Risk/Impact (Consequence)	Potential Severity	Potential Likelihood	Initial Risk Rating (without controls)	Proposed Risk Controls (In accordance with the Hierarchy of Controls)	By Who & When	Residual Risk Rating (With Controls)
	Oil /Fuel Spill	Contamination	H	H	H	Fuel Cart and Oil container are bunded & Spill Kits are available	Quarry personnel, contractors & visitors	L
	Dust	Environmental contamination	M	M	M	Water truck, water sprays on equipment, PPE, Sealed cabins on equipment, Wheel wash on site, vehicle tarping prior to leaving site	Quarry personnel, contractors & visitors	L

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Ref. #	Hazard/Aspect/Design Change	Risk/Impact (Consequence)	Potential Severity	Potential Likelihood	Initial Risk Rating (without controls)	Proposed Risk Controls (In accordance with the Hierarchy of Controls)	By Who & When	Residual Risk Rating (With Controls)
	Unplanned discharge of storm water from site	Contamination of waterways	H	H	H	Control of catchment dam levels by selective pumping from dam to dam, daily monitor of dam levels, activate plan to transfer water prior to storm weather arriving on site.	Authorised quarry Personnel as required	M

Wallerawang Quarry PIRMP	Approver:	Date:
	Signature:	Review date:

APPENDIX 3

Duty Card 1

WALKER QUARRY OPERATION

EMERGENCY CALL RESPONSE SHEET

Time:	
Date:	
Control Room Operator	
Person Calling	
Nature of Emergency	
Location	
Person/Persons involved	
Nature of Injuries	
Control methods in place	
Is further assistance required	
If an Environmental emergency, what equipment is required?	
Are Emergency Services Required?	Yes No
<ul style="list-style-type: none">• Ambulance• Police• Fire• SES• Mines Rescue Station Emergency phone number 63531124	<p>If required Phone 000 (Zero, Zero, Zero.)</p> <p>Stating Your Name</p> <p>Operation Name and location for access</p> <p>Type of accident/incident</p> <p>Number of persons injured</p> <p>Type of injuries (if known)</p>

Walker Quarry Front Gate GPS Coordinates in Universal Transverse Mercator Coordinate System	-33.433407, 150.072271
In the event of further responses Quarry Manager is to: <ul data-bbox="239 425 829 851" style="list-style-type: none">• Continually man telephone• Prevent unnecessary phone calls• Do not release statements to media if contacted• Log all phone calls and events Duty Card 2• Record times of arrival of notified persons to site Duty Card 3• Advise all persons on site of events	

Duty Card 4
WALKER QUARRY OPERATION
EMERGENCY RESPONSE CONTACT SHEET

Quarry Manager 0413 784 420 02 6324066	Operations Manager 0417 663 222 02 6324066
Weighbridge Officer 0418 592 322	Production Manager 0409 442 040
	Western Mines Rescue Station Office 0263501000 Emergency Number 0263531124
Inspector of Mines Office 0263507888 Desk 0263507892 Mobile 0407222475	Emergency Services 000 Fire Brigade 6351 3366 Fire Rural 6353 1862 Police 3652 8399 Ambulance 131233
Bathurst EPA 6332 7603 131 555 Ministry of Health Bathurst 6339 5601 Safe Work NSW 13 10 50	Lithgow Council 6354 9999

APPENDIX 4

INCIDENT REPORT AND DETAIL FORM

[WQ Non-conformance Report.doc](#)

[WQ Accident Incident Investigation Form.doc](#)

Accident / Incident Investigation Form

PROJECT: _____ DATE: _____

TYPE OF INCIDENT (TICK APPROPRIATE)

<input type="checkbox"/> Person/LTI	<input type="checkbox"/> Environmental	<input type="checkbox"/> Near Miss	<input type="checkbox"/> Property Damage/Failure of a Structure
-------------------------------------	--	------------------------------------	---

Accident/Incident Report Number (if applicable): _____

Statutory Notification Reference Number (if applicable): _____

ADDRESS OF INCIDENT

Project Name _____

Address _____

Suburb _____

State _____

Postcode _____

LOCATION (PROVIDE THE EXACT LOCATION OF WHERE THE INCIDENT OCCURRED)

INJURED WORKER'S DETAILS (IF APPLICABLE)

First Name _____

Last Name _____

Phone Number _____

Address _____

Employed By _____

Position Title _____

PROVIDE A BRIEF OUTLINE OF INCIDENT

WITNESS DETAILS (IF APPLICABLE)

First Name

Last Name

Phone Number

Address

PROVIDE A SUMMARY OF THE EVENTS LEADING UP TO THE INCIDENT

PRELIMINARY INVESTIGATION FINDINGS / IDENTIFIED ROOT CAUSES

CORRECTIVE ACTIONS

INVESTIGATION FINDINGS TO BE COMMUNICATED (TICK ALL THAT APPLY)

- Develop and issue hazard alert to all sites
- Brief Site Safety Committee
- Toolbox relevant personnel

- Toolbox entire site
- Run training session in relation to the incident/investigation
- Review/amend relevant procedure
- Create new procedure

DETAILS OF PERSON CONDUCTING INVESTIGATION

Other

First Name	Last Name
Phone Number	
Position Title	
Date Investigation Commenced	Date Investigation Completed
Signature	

CONSTRUCTION / PROJECT MANAGER SIGN OFF ONCE COMPLETED

First Name	Last Name
Signature	Date

DISTRIBUTED TO

First Name	Last Name
Company	Position

PERSON RESPONSIBLE FOR IMPLEMENTING / EVALUATING CORRECTIVE ACTIONS

First Name		Last Name	
Company		Position	
Corrective Actions Implemented (Date)			Controls Effective : YES / NO

If no, what additional controls are required:

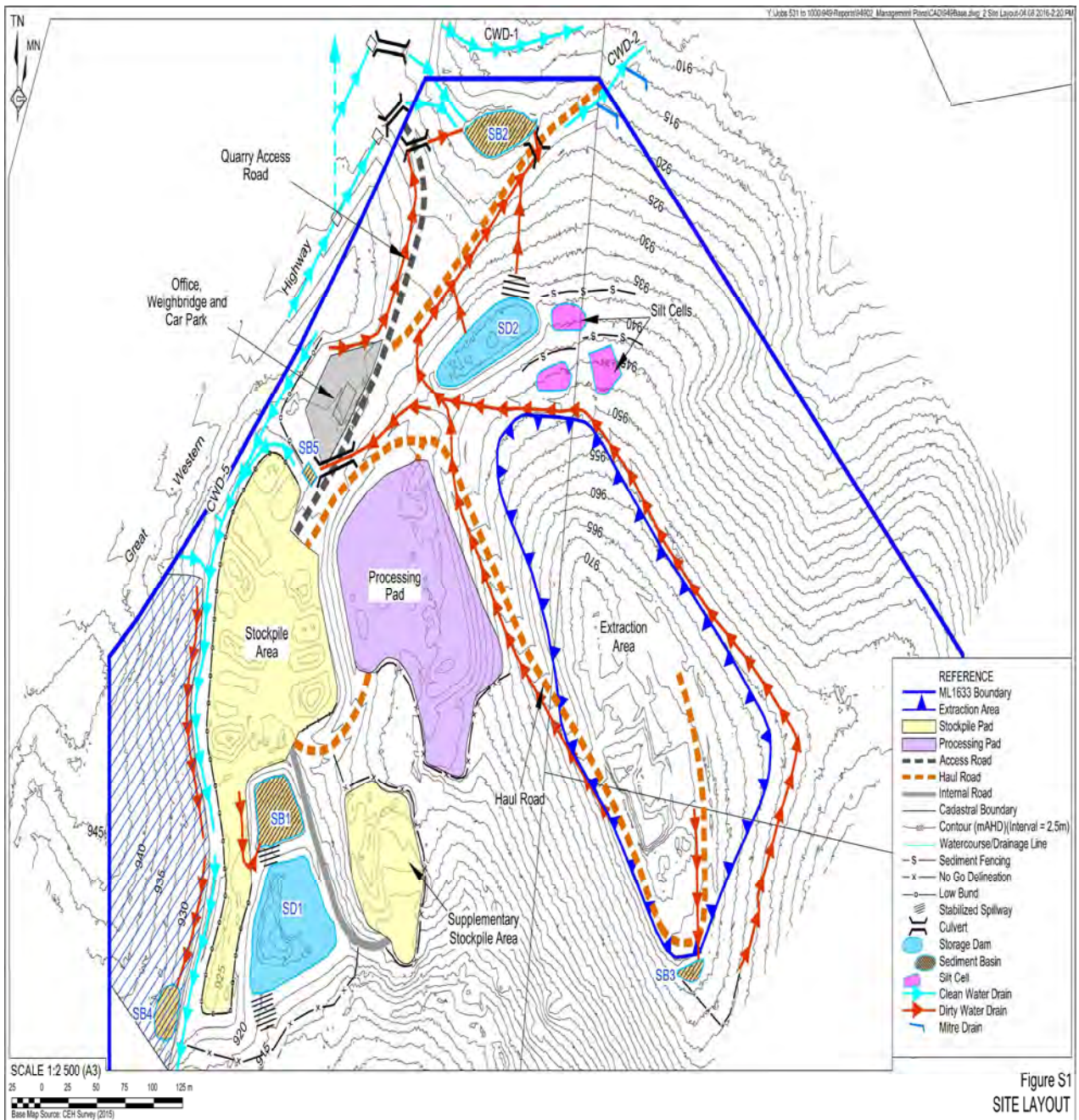
Non-conformance Report

Location:		Issue Date:		NCR No.:	
Issued By:		Due Date:			
DESCRIPTION OF NON-CONFORMANCE: / SEQUENCE OF EVENTS / WHS BREACH:					
NCR Issued To		Accepted: (Signature)			
Company:		Date:			
DETAILS OF REQUIRED CORRECTIVE ACTION:					
RESPONSIBILITY FOR CORRECTIVE ACTION:					
Name:			Position Title:		
ROOT CAUSE OF NON-CONFORMANCE					
DETAILS OF ACTION TO PREVENT RE-OCCURRENCE					

ACTION COMPLETED BY:			
Name:		Signature:	
		Date:	
FOLLOW UP AND CLOSE-OUT			
NAME:	POSITION TITLE:	SIGNATURE:	DATE:
COMMENTS:			

APPENDIX 6

LOCATION OF SEDIMENT DAMS



APPENDIX 7

LOCATION OF SAMPLE POINTS

(Refer Biodiversity Management Plan)

