

BLAST MANAGEMENT PLAN

MANAGEMENT PLAN

10/01/2023



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DOCUMENT CONTROL

Version	Approved By	Revision Date	Description of Changes	Author
1	DoPI	20/02/2012	Review	
2	DoPI	30/01/2013	Review	M Bland
3	S Jones	2/12/2013	Review	
4	DPE	16/01/2017	Review	J Dornan
5	DPE		Review	L Sharp
6	Diversified	22/08/2019	Review	
7	DPE	18/08/2022	Template update Review	E Guarino

1. INTRODUCTION

Dargues Gold Mine is an underground metalliferous mine owned by Big Island Mining, a wholly owned subsidiary of the Aurelia Metals Limited. Dargues Gold Mine is located on the western slopes of the Great Dividing Range, approximately 60km southeast of Canberra, 13km south of Braidwood and immediately north of the village of Majors Creek.

The Project consists of an underground gold mine, a run-of-mine (ROM) Pad, temporary waste rock emplacement, processing plant, tailings storage facility and associated infrastructure and ancillary activities.

This document has been prepared in satisfaction of *Condition 3(11)* of Modified Project Approval (MP) 10_0054 MOD4, reviewed following an Independent Environmental Audit completed in February 2022, and describes the following.

The consultation undertaken during preparation of this document.

The legal and other requirements associated with management of blasting operations within the Project Site.

Blast management measures that would be implemented during all blasting operations.

Evaluation of compliance of blasting operations.

Incident reporting.

Publication of monitoring information.

Roles and responsibility.

Competence training and awareness.

Document review.

The Project is fully described in the following documents and no further background information is provided in this document.

Environmental Assessment dated September 2010 and associated documentation prepared to support the application for Project approval.

Mining Operations Plan dated July 2014.

Environmental Assessment – Modification 1 dated April 2012.

Environmental Assessment – Modification 1 dated April 2012.

Response to Government Agency and Public Submissions for the Dargues Reef Gold Project - Modification 1 dated June 2012.

Environmental Assessment – Modification 2 dated July 2013.

Response to Government Agency and Public Submissions for the Dargues Reef Gold Project - Modification 2 dated September 2013.

Environmental Assessment – Modification 3 dated August 2016.

Response to Government Agency and Public Submissions for the Dargues Reef Gold Project - Modification 3 dated November 2015.

Statement of Environmental Effects for the Dargues Gold Mine – Modification 4 dated November 2018.

Response to Submissions for the Dargues Gold Mine – Modification 4 dated January 2019.

In addition, a range of management plans have been prepared to guide operations within the Project Site. These include the following.

Noise Management Plan.

Air Quality and Greenhouse Gas Management Plan.

Water Management Plan.

Biodiversity Management Plan.

Aboriginal Heritage Management Plan.

Traffic Management Plan.

Waste Management Plan.

Bushfire Management Plan.

2. CONSULTATION

The following consultation was undertaken during preparation of this document.

An email requesting requirements for the *Blast Management Plan* was provided to the Department of Planning and Infrastructure, Office of Environment and Heritage and Palerang Shire Council on 8 September 2011. No responses were received by 7 October 2011.

A draft copy the original of this document was provided to Office of Environment and Heritage and Palerang Shire Council for review and comment. Responses received were as follows.

Office of Environment and Heritage

Responded with minor comments on 28 October 2011. The agency was provided with a revised copy of this document on 28 October 2011.

Indicated satisfaction with the revised document on 31 October 2011.

Palerang Council

Indicated that they would not be commenting on this document in an email dated 8 November 2011.

A draft of Revision 2 of this document was provided to the EPA and Palerang Council on 28 August 2012 following the approval of Modification 1 to MP10_0054. Responses were received from:

The EPA on 5 September 2012 highlighting two minor issues requiring clarification of terminology within the draft document; and

Palerang Council on 18 September 2012 indicating that Council would not be commenting on the draft document.

During preparation of this Plan, the Department of Planning and Environment requested that an assessment of blasting impacts on the integrity of the paste fill be undertaken. This is presented in Section 6.2.2.

Revision 3 of this document was provided to the Department of Planning and Environment on 16 December 2013.

A draft copy of Revision 4 of this document was provided to the EPA and Queanbeyan – Palerang Regional Council on 22 September 2016 following the approval of Modification 3 to MP10_0054. No responses were received by 7 November 2016, when the plan was submitted to the Department of Planning and Environment (the DPE) for approval.

A draft copy of Revision 5 of this document was provided to the Department of Planning and Environment review following completion of an independent audit of the Project's approval conditions in 2017. As the changes to the Plan were minor and did not significantly alter the operation of the Plan consultation with other regulatory agencies was not undertaken.

An email requesting advice and requirements for Revision 6 of this document was provided to NSW Environment Protection Authority (EPA) and Queanbeyan-Palerang Council on 8 August 2019. No response was received.

A draft copy of Revision 6 of this document was provided to the EPA and Queanbeyan-Palerang Council on 22 August 2019 for review and comment. Additionally, a draft copy was provided to the Community Consultative Committee (CCC) for review and comment. No response from the EPA, Queanbeyan-Palerang Council or the CCC was received by 2 December 2019.

A draft copy of Revision 7 of this document was provided to the EPA and Queanbeyan-Palerang Council for review and comment following an Independent environmental audit in February 2022 and revisions relating to Modification 4. Both agencies responded with no comment.

All feedback from the above agencies was taken into consideration when preparing and finalising this document.

3. LEGAL AND OTHER REQUIREMENTS

The Project received Project Approval (PA) 10_0054 on 7th February 2012 pursuant to the *Environmental Planning and Assessment Act 1979* (EP&A Act). Modification 1 for the use of paste fill at the Project Site was subsequently approved by the Director-General of the Department of Planning and Environment on 12 July 2012 (MP10_0054). Modification 2 to regularise changes to the layout of the Project was subsequently approved on 24 October 2013. Modification 3 for an extension of the mine life and increase in the resource extracted was subsequently approved on 10 August 2016. Modification 4 for the relocation of the approved heavy vehicle crossing of Spring Creek and the reinstatement of the previously approved access track from the Site Access Road to the Tailings Storage Facility was subsequently approved on 23 May 2019.

The Project Approval stipulates the required criteria that the construction and operational activities of the Project must comply with and sets out the core requirements of this Management Plan. Relevant conditions associated with this approval are reproduced in Table 1.

TABLE 2: Blasting Related Conditions (MP10_0054)

Condition number	Condition																					
Blasting																						
	<p>Blasting Criteria The Proponent shall ensure that the blasting on site does not cause exceedances of the following criteria:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Time of Blasting</th> <th>Airblast overpressure (db (Lin Peak))</th> <th>Ground vibrations (mm/s)</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td rowspan="4">3(6) Residence on privately owned land</td> <td>Any time</td> <td>120</td> <td>10</td> <td>0%</td> </tr> <tr> <td>Day</td> <td>115</td> <td>5</td> <td rowspan="2">5% of the total number of blasts over a period of 12 months</td> </tr> <tr> <td>Evening</td> <td>-</td> <td>2</td> </tr> <tr> <td>Night and all day on Sundays and public holidays</td> <td>-</td> <td>1</td> <td>0%</td> </tr> </tbody> </table> <p>Note: All blasts are to be designed by a suitably qualified and experienced blasting engineer.</p>	Location	Time of Blasting	Airblast overpressure (db (Lin Peak))	Ground vibrations (mm/s)	Allowable exceedance	3(6) Residence on privately owned land	Any time	120	10	0%	Day	115	5	5% of the total number of blasts over a period of 12 months	Evening	-	2	Night and all day on Sundays and public holidays	-	1	0%
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Condition number	Condition
3(8)	<p>Property Inspections</p> <p>If the Proponent receives a written request from the owner of any privately-owned land within 2 kilometres of blasting operations for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, or to have a previous property inspection report updated, then within 2 months of receiving this request the Proponent shall:</p> <ol style="list-style-type: none"> Commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary to: <ul style="list-style-type: none"> Establish the baseline condition of the buildings and/or structures on the land or update the previous property inspection report; and Identify any measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and give the landowner a copy of the new or updated property inspection report.
3(9)	<p>Property Investigations</p> <p>If any landowner of privately-owned land within 2 kilometres of blasting operations, or any other landowner nominated by the Secretary, claims that buildings and/or structures on his/her land have been damaged as a result of blasting at the project, the Proponent shall within 3 months of receiving this request:</p> <ol style="list-style-type: none"> commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to investigate the claim; and 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 Proponent shall repair the damages to the satisfaction of the Secretary.</p> <p>If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.</p>
3(10)	<p>Operating Conditions</p> <p>During mining operations on site, the Proponent shall implement best blasting practice to:</p> <ol style="list-style-type: none"> protect the safety of people, property, public infrastructure, and livestock; protect items of Aboriginal and non-indigenous cultural heritage significance; minimise the dust and fume emissions from blasting at the project; and operate a suitable system to enable the public to get up-to-date information of the proposed blasting schedule on site. <p>to the satisfaction of the Secretary.</p>
Blast Management Plan	
3(11)	<p>The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ol style="list-style-type: none"> be prepared in consultation with EPA and Council, and submitted to the Secretary for approval prior to undertaking any blasting on-site; describe the blast mitigation measures that would be implemented to ensure compliance conditions of 6-10 of this schedule; describe the measures that would be implemented to ensure the public can get up-to-date information on the proposed blasting schedule on site; and include a blast monitoring program to evaluate the performance of the project.

Other relevant requirements include an Environmental Protection Licence issued under *Protection of the Environment Operations Act 1997 (PoEO Act)*. The PoEO Act is the principal piece of legislation governing blast emissions in NSW.

Error! Reference source not found. presents the requirements for this plan and where each is addressed in this document.

TABLE 2: Development Approval Requirements

Requirement	Section
Condition 3(11)	
Blast Management Plan	
The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:	

Requirement	Section
a) Be prepared in consultation with EPA and Council, and submitted to the Secretary for approval prior to undertaking any blasting on-site;	2
b) describe the blast mitigation measures that would be implemented to ensure compliance conditions 6-10 of this schedule;	6.2
c) describe the measures that would be implemented to ensure the public can get up-to-date information on the proposed blasting schedule on site; and	6.3
d) include a blast monitoring program to evaluate the performance of the project.	7
Condition 5(2)	
Management Plan Requirements	
The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:	N/A
a) detailed baseline data:	
b) a description of: <ul style="list-style-type: none"> • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; 	3 Table 1 Table 1
c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	6.2
d) a program to monitor and report on the: <ul style="list-style-type: none"> • impacts • effectiveness of any management measures (see c above); 	7 8
e) a contingency plan to manage any unpredicted impacts and their consequences;	8
f) a program to investigate and implement ways to improve the environmental performance of the project over time;	7
g) a protocol for managing and reporting any: <ul style="list-style-type: none"> • incidents: • complaints: • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and 	8.9.10 and 11
h) a protocol for periodic review of the plan.	15
<i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans</i>	

4. OBJECTIVES AND OUTCOMES

Error! Reference source not found. presents the objectives and key performance outcomes for this *Blast Management Plan* and the Project.

TABLE 3: Objectives and Key Performance Outcomes

Objectives	Key Performance Outcomes
Blasting	
To ensure compliance with all relevant Project Approval and Environmental Protection Licence criteria and reasonable community expectations	Compliance with all relevant criteria and reasonable community expectations.
To implement appropriate blast management and mitigation measures during all stages of the Project.	All identified noise management and mitigation measures implemented.

Objectives	Key Performance Outcomes
To implement an appropriate blast monitoring program to establish compliance or otherwise with relevant criteria during all stages of the Project.	All identified monitoring undertaken in accordance with the relevant procedures and at the relevant intervals
To implement an appropriate complaints handling and response protocol.	Complaints (if any) handled and responded to in an appropriate manner.
To implement appropriate corrective and preventative actions, if required	Corrective and preventative actions implemented, if required.
To implement an appropriate incident reporting program, if required.	Incidents (if any) reported in an appropriate manner.

5. SURROUNDING RESIDENCES

Figure 1 displays the location of residences surrounding the Project Site.

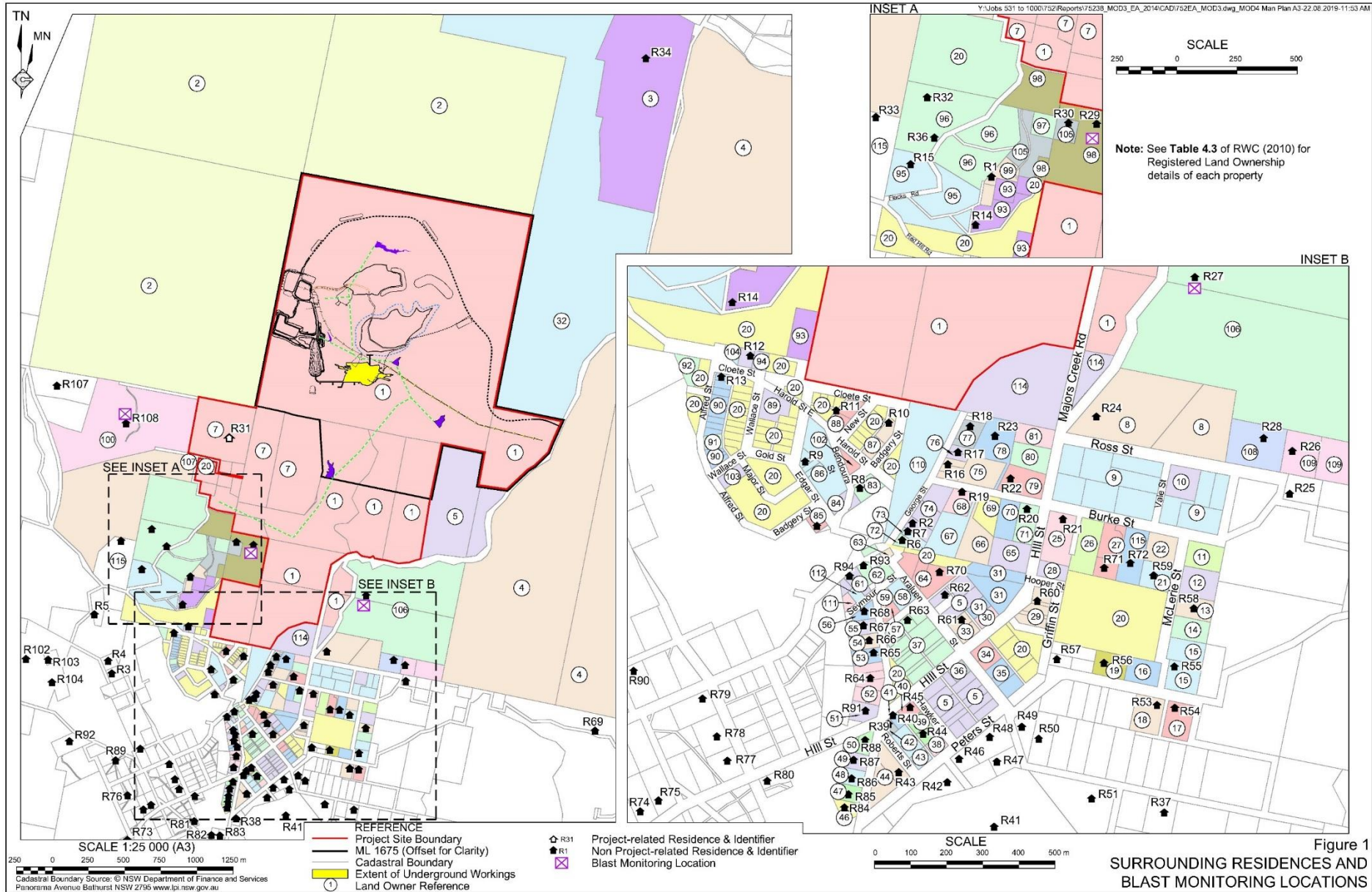


Figure 1: Surrounding Residences and Blast Monitoring Locations

6. BLASTING MANAGEMENT MEASURES

6.1. ASSESSMENT OF STRUCTURAL INTEGRITY

6.1.1. Property Inspections

Condition 4(1) of MP10_0054 MOD4 identifies the procedure for conducting baseline inspections for properties within 2km of all blasting operations (TABLE 2).

The Company has undertaken the following in satisfaction of this requirement.

A letter to all land owners within 2km of blasting operations was mailed on 21 September 2011. Additionally, where land owner references and details were not available, properties were visited and letters were hand delivered by 7 October 2011. The letter notified residents that blasting operations would commence no sooner than 24 November 2011 and that all residents receiving the letter were entitled to a property inspection by a suitably qualified, experienced and independent person whose appointment has been approved by the Department of Planning and Environment and advised how land owners could request a property inspection.

Nine residents responded requesting property inspections, with the inspections being completed in December 2011.

A second letter was mailed on 3 June 2012, as it was noted that due to delays with executing the Project a number of new residences had been built within the prescribed area. Further, a number of residents who did not respond to the first letter had expressed interest in having their property inspected following the completion of inspections in December 2011.

A further nine property inspections were carried out in January 2013 prior to the commencement of the Project in February 2013.

Copies of the relevant reports were provided to the owners/residents of the inspected properties.

Given the length of time that had elapsed since the original property inspections were completed, the Company wrote to all land owners within 2km of the blasting operation notifying them that blasting operations would likely commence within the next three months. Letters were sent on both 17 February and 4 April 2017. The letters stated that should they wish, the Company will arrange for a suitably qualified, experienced and independent person, whose appointment has been approved by the Department of Planning and Environment, to update any previous property inspections or provide a new inspection report where one has previously not been provided.

6.1.2. Property Investigations

Condition 3(9) of MP10_0054 MOD4 identifies the procedure for conducting property investigations in the event of a complaint related to blasting-related structural damage (TABLE 2). The Company has committed to conducting property inspections and investigations, as the need arises, in accordance with the above conditions.

In the event that blasting-related property damage is identified, and that damage is conclusively determined to be Project-related, the Company will implement the following procedure.

A suitably qualified, experienced and independent person whose appointment has been approved by the Secretary of the Department of Planning and Environment will be engaged to determine what remedial action is required to initially stabilise the identified damage and appropriately remediate it. A copy of the report will be provided to the landowner for consideration.

If both the landowner and the Company agree with the recommendations, the Company will, in consultation with the landowner, engage a suitably qualified builder to complete the recommended work within a reasonable timeframe.

Should either or both the landowner and the Company not agree with the recommendation, the Company would seek to negotiate with the landowner to reach a mutually agreeable solution.

Should a mutually agreeable solution not be able to be reached, either the Company or the landowner may request that the issue be resolved in accordance with the independent review process identified in Conditions 4(3) and 4(4) of MP10_0054 MOD4.

6.2. BLAST MITIGATION MEASURES

6.2.1. Introduction

Condition 3(11)(b) of MP10_0054 MOD4 identifies that this document describes the blast mitigation measures that will be implemented to ensure compliance with Conditions 3(6) to 3(10) (TABLE 2). This section has been prepared in part satisfaction of that requirement. Measures that will be implemented in relation to public notification and blast monitoring are presented in Sections 6.3 and 7 respectively.

6.2.2. Blast Design

All blasts will be designed by a suitably qualified and experienced blasting engineer. In addition, until such time as a suitable site law has been established, each blast will be designed using industry standard formulas in a manner that ensures compliance with blast criteria identified in Condition 3(6).

Once sufficient blast monitoring data has been collected, a suitable blasting site law would be developed in accordance with industry practice and all subsequent blasts would be designed to ensure that the blast criteria identified in Condition 3(6) are complied with (TABLE 2).

Finally, the back fill will be designed to withstand blasting operations immediately adjacent to the backfilled stopes. Notwithstanding this, the Company will ensure that the blast engineer has the relevant experience for designing blasts associated with back fill and that all blasts are designed to minimise the impact on the structural integrity of the back fill.

6.2.3. Blasting Hours

All blasting operations will be undertaken during the hours identified in *Condition 3(7)*, as follows.

Surface blasting will be undertaken only between the hours of 9:00am to 5:00pm, Monday to Friday, excluding public holidays, except for emergency or safety-related reasons and only after a written request for approval has been provided to the Environment Protection Authority.

Underground blasting may be undertaken at any time. However, where practicable, the Company will ensure that underground blasts are undertaken at shift change, namely between 5:30am and 6:30am and 5:30pm and 6:30pm.

6.3. PUBLIC INFORMATION REGARDING BLASTING OPERATIONS

Condition 3(11)(c) of MP10_0054 MOD4 requires that this document describe the measures that will be implemented to ensure that the public can get up-to-date information on the proposed blasting schedule within the Project Site. These measures will include the following;

Continued operations of the Community Information Line (1800 732 002), a 24-hour, 7 day per week service, where up-to-date information on the blasting schedule will be available. The Community Information Line will operate for the life of the Project and the telephone number will be advertised in local newspapers at least quarterly and on the Project website (www.aureliametals.com.au).

A blast notice board will be installed at the entrance to the Project Site to advise Project personnel and visitors of the blasting schedule for surface blasts. The board will be visible from Majors Creek Road.

Provision of the blasting schedule and other relevant blast information on the Project website and the advertising of the location of this information to the public as part of the Company's community engagement strategy. This may include advertising through Facebook, community meetings and other media as appropriate.

7. BLAST RELATED MONITORING

Condition 3(11)(d) of MP10_0054 MOD4 requires that this document describe the blast monitoring program that will be initiated to evaluate the performance of the Project.

As a minimum, each blast will be monitored for ground vibration (and in the case of surface blasts, blast overpressure) in real time, at the nearest non-Project related residential receivers to the blast, subject to

landholder agreement. The blast monitoring locations are indicated in Figure 1 and TABLE 4: presents the monitoring location resident identifiers.

TABLE 4: Blast Monitoring Locations

Monitoring Location	Residence Identifier	Land Ownership	Northing	Easting
BM-1	R27	Dargues Gold Mine Pty Ltd	35.558916	149.747169
BM-2	R29	Private Land	35.556344	149.739494
BM-3	R108	Dargues Gold Mine Pty Ltd	35.548708	149.729650

The blast monitoring locations will be reviewed and where necessary modified as a result of changes to the geographical location of blasting or changes to regional land ownership.

All blast monitoring instrumentation will be installed, calibrated and maintained in accordance with both AS2187.2 – 2006 – *Explosives Storage and Use* and the manufacturer’s specifications. In addition, the Company will investigate the feasibility of installing blast monitors capable of real-time relay of ground vibration and overpressure results to relevant site personnel. Where real-time transmission is not possible, data will be downloaded at the monitoring site as soon as possible after each blast.

8. EVALUATION OF COMPLIANCE

Upon receipt of blast monitoring data from each blast, the responsible personnel (see Section 13) will record the measured blast overpressure and ground vibration parameters and compare them with the relevant blast criteria identified in Condition 3(6) of MP10_0054 MOD4 (TABLE 2).

9. COMPLAINTS HANDLING AND RESPONSE

The *Environmental Management System* includes a detailed complaints management procedure. This sub-section records the procedures that would be implemented following receipt of a blast-related complaint.

Blast-related complaints may be received through one of the following methods.

Directly via the 24-hour, 7 day per week Community Information Line (1800 732 002). This number is advertised widely in the local media, on signage at the Project Site entrance and on the Project website.

Directly via a dedicated email address (DGM.Community@aureliametals.com.au) which will be advertised in a similar manner to the Community Information Line.

Directly via the Project website (www.aureliametals.com.au).

Indirectly via the relevant government agencies.

In addition, regular public meetings will be held with the community as part of the Company’s standard consultation procedures. These meeting will provide a further forum at which complaints may be received.

Following receipt of any blast-related complaint, it would be recorded in the complaints register and the Company would implement the following procedure.

1. The complaint will be reviewed by the Environment and Community Superintendent or their delegate to determine the nature, date and time of the complaint and the activities occurring within the Project Site at that time, in particular, whether a blast was being undertaken at the time alleged.
2. In the event that a blast was being undertaken around the time of the complaint, the Environment and Community Superintendent or their delegate would review the results of the blast monitoring and prepare a preliminary investigation report.
3. A copy of the resulting report would be made available to the complainant and the Environment and Community Superintendent or their delegate would contact the complainant to discuss and attempt to resolve the complaint.
4. In the event that the procedures identified in Steps 1 to 3 above resolve the issues raised, no further action would be taken. In the event that the complaint is not resolved, further blast monitoring at the

complainant's residence would be undertaken in accordance with the procedures identified in Section 7. Following monitoring of a suitable number of blasts, a monitoring report would be prepared outlining the results of that monitoring and provided to the relevant government agencies and the complainant.

5. Should the monitoring report indicate no exceedance of the criteria identified in *Condition 3(6)*, the Environment and Community Superintendent will continue to consult with the complainant in relation to managing impacts at the Complainants residence.
6. Should the monitoring report indicate an exceedance of the criteria identified in *Condition 3(6)*, the Environment and Community Superintendent will notify the relevant government agencies in accordance with the procedures identified in Section 11 and implement the procedures identified in Section 10. In addition, the Environment and Community Superintendent will continue to consult with the complainant in relation to the complaint.
7. In the event that multiple complaints are received from the same individual(s) and the Company can demonstrate:

- at least three periods of blast monitoring at the residence in question, all of which demonstrated compliance with the criteria identified in *Condition 3(6)*; and
- there is documented evidence of a genuine attempt by the Company to discuss the issue and seek a resolution with the complainant;

The Company may, in consultation with the relevant government agencies, limit responses to further complaints to Steps 1 to 3 above.

10. CORRECTIVE AND PREVENTATIVE ACTIONS

In the event that blast monitoring identifies an exceedance of the criteria identified in *Conditions 3(6)*, the exceedance will be investigated to determine the likely cause. The investigation will seek to determine:

whether the exceedance of the criteria was directly related to a source associated with the Project or if environmental factors contributed to the exceedance.

- the primary cause of the incident;
- any contributing factors which led to the incident;
- whether appropriate controls were implemented to prevent the incident; and
- corrective and preventative measures that may be implemented to prevent a recurrence of the incident.

Corrective and/or preventative actions will be assigned to relevant Company personnel. In addition, the blast parameters and blast site laws would be reviewed in light of the monitoring results and adjusted as required to ensure no further exceedance of the criteria. Actions will be communicated 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, the complainant, in accordance with the procedures identified in Section 11. In addition, a copy of all reports will be included in the *Annual Environmental Management Report*.

11. INCIDENT REPORTING

In the event that blast monitoring records an exceedance of the criteria identified in *Condition 3(6)*, the event will be reported to the Department of Planning and Environment (compliance@planning.nsw.gov.au), the Environment Protection Authority and other relevant agencies within 24 hours of detecting the exceedance.

Within 7 days of the exceedance, or within 7 days of the identification of a non-compliance with the conditions of MP10_0054 MOD4, the Company will submit a written report to DPE (compliance@planning.nsw.gov.au) which:

- a) identifies the Project and relevant application number;
- b) identifies the approval condition and/or relevant criteria which the project is non-compliant with;
- c) describes the date, time, and nature of the exceedance;
- d) identifies the cause (or likely cause) of the exceedance;

- e) describes what action has been taken to date; and
- f) describes the proposed measures to address the exceedance.

All incident reports will be retained for a period of no less than four years.

12. PUBLICATION OF MONITORING INFORMATION

The Company will publish all blast monitoring data in the *Annual Environmental Management Report* that would be prepared for the Project. That document, once approved by the relevant government agencies, would be published on the Project website.

In addition, the Company would publish a monthly environmental monitoring report on the Project website, including an overview of blast monitoring results.

Finally, the Company will make blast monitoring information available to members of the public on request and where reasonable to do so.

13. ROLES AND RESPONSIBILITIES

Role	Responsibilities
General Manager	Must ensure adequate resources are available to enable implementation of the Plan
Mining Manager	Accountable for the overall environmental performance of the Project, including the outcomes of this Plan.
Blast Engineer	Design all blasts to ensure compliance with Condition 3(6) and review monitoring data following each blast to ensure compliance. Where non-compliance recorded, advise Environment and Community Superintendent Mining Manager.
Environment and Community Superintendent	Ensure the implementation of this Plan, including reporting of non-compliances with the criteria identified in Condition 3(6). Ensure employees are competent through training and awareness programs

14. COMPETENCE TRAINING AND AWARENESS

All personnel shall undergo blast management awareness training. Blast Management shall be a component of the competency based site induction program. The following areas shall be covered in induction.

Use of appropriate initiation and detonation systems and adherence to blast loading and initiation designs.

Use of adequate stemming lengths and material to ensure effective confinement of explosives.

Designing all blasts to ensure that vibration and airblast limits are complied with.

Monitoring of all blasts reflective of the nearest privately-owned residential receiver and sensitive infrastructure.

The Environment and Community Superintendent shall be responsible for ensuring the appropriate Blast Management training is included in the induction.

15. REVIEW

In accordance with Condition 5(4) of MP10_0054 MOD4, this Plan will be reviewed and, if required, revised within 3 months of:

- the submission of an annual review under Condition 5(3);
- the submission of an incident report under Condition 5(6);

the submission of an audit report under Condition 5(8); and
any modification to the conditions of MP10_0054.

This review will include the adequacy of strategies, plans and programs as required under the Project approval. Recommendation for appropriate measures or action to improve the environmental performance of the Project and or any assessment, plan or program will be incorporated into this Plan.

