

# Management Plan

## Blast

**Risk Statement: Low**

This document will be reviewed on a three yearly basis, unless a process change occurs earlier than this period. The information in this document relates to management, monitoring and associated reporting required by Development Consent 11\_0060 and Mining Leases 1247, 1367 and 1641.

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## Revision Summary

First Issue	Issue Date	Implementation Requirements	Approved By
0	Feb 03	L O Larsen	

Version No.	Revision Date	Clause No.	Revision Details	Approved By
1	May 14		Review and Updated by Bharath Ramakrishnappa – changes made to comply with Project Approval 11_0600.	
2	Oct -2015		Revised upon comments from DPI	
3	Oct 2017		Annual Review	
4	Oct 2018		Review and updated to new format, updated risk rating to "low" and minor amendments	

Approval Position	Automatic Notifications

Hard Copy Locations	Associated Documents to be reviewed

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## 1. SCOPE

This Blast Management Plan applies to all Open Cut Mining activities undertaken by Northparkes Mines (NPM) and describes the measures to be undertaken or implemented to manage impacts from blasting in the open cuts.

Open Cut mining is approved for the campaign mining of 5 open cut resources including E26, E31, E31N, E28 and E28N. No open cut mining is scheduled to be undertaken during the current MOP period 2015- 2020.

## 2. OBJECTIVES

The objectives of the Blast Management Plan (BMP) are to:

- ensure that vibration impacts from operations are minimised and appropriately controlled;
- ensure that impacts on surrounding residents are minimised;
- keep the local community and regulators informed of activities where required and respond quickly and effectively to issues or complaints;
- protect the safety of people and livestock in the surrounding area;
- protect public or private infrastructure/property in the surrounding area from any damage; and
- minimise the dust and fume emissions of any blasting.

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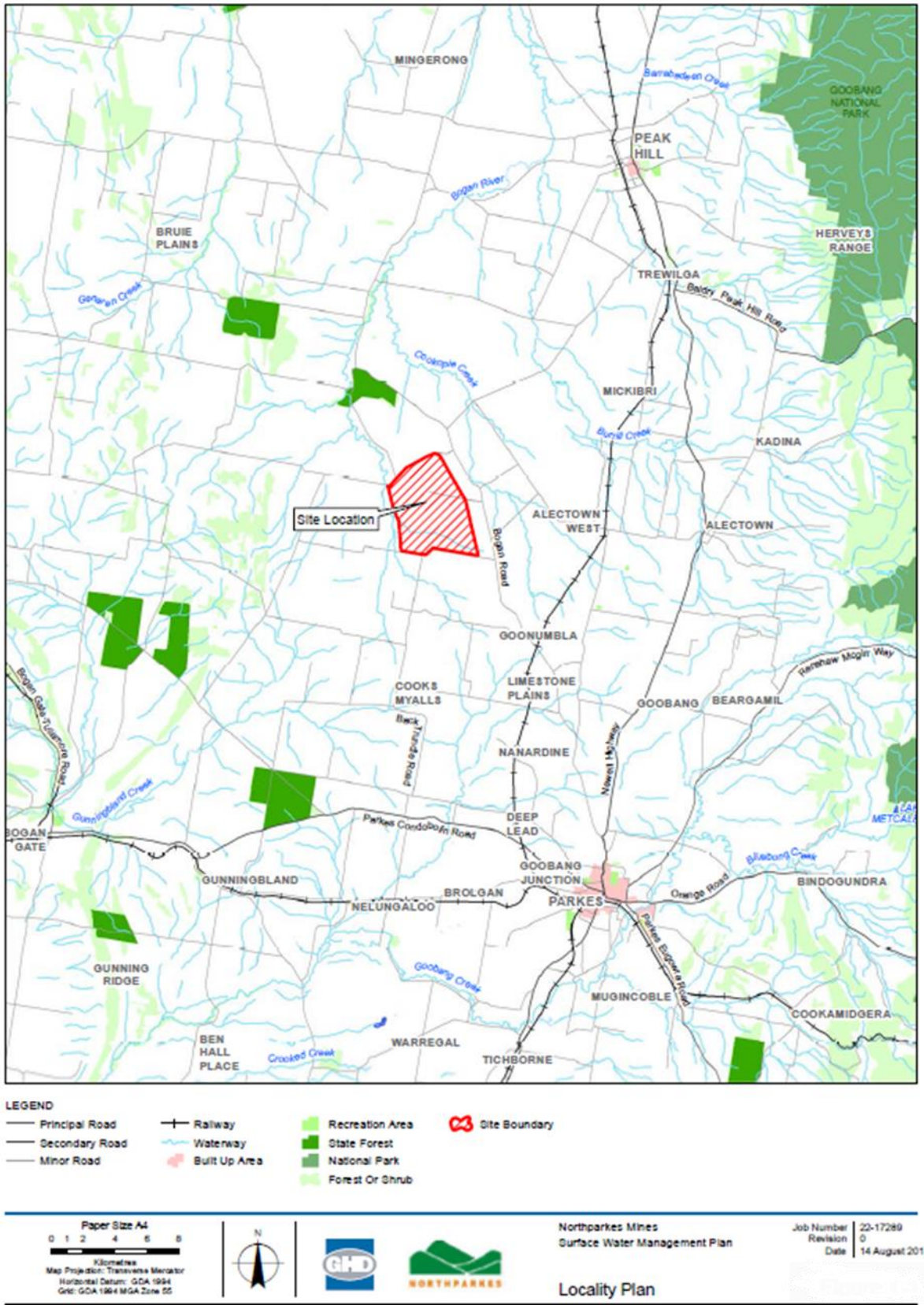


Figure 1 Northparkes Mine location map

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### 3. REGULATORY REQUIREMENTS

#### 3.1 Project Approval Conditions

The Project Approval (PA11\_0060) Schedule 3 conditions 6 – 13 are relevant for blasting operations at the NPM. These conditions are outlined in Table 1 and Table below.

**Table 1** Project Approval 11\_0060 Conditions

Condition		Related Section in BMP		
<b>Blasting Criteria</b>				
<b>Schedule 3</b>				
6. The Proponent shall ensure that blasting on site does not cause exceedances of criteria in Table below		Section 4.2		
<b>Table 2</b> Blasting criteria				
<b>Location</b>	<b>Airblast overpressure (dB(Lin Peak))</b>		<b>Ground vibration (mm/s)</b>	<b>Allowable exceedance</b>
Residence on privately owned land	120		10	0%
	115	5	5% of the total number of blasts over a period of 12 months	
All public infrastructure	-	50 <i>(or a limit determined by the structural design methodology in AS 2187.2-2006, or its latest version, or other alternative limit for public infrastructure, to the satisfaction of the Secretary)</i>	0%	
<b>Note:</b> To interpret the land referred to in Table 1 see the applicable figures in Appendix 4.				
However, these criteria do not apply if the Proponent has a written agreement with the relevant owner to exceed these criteria, and has advised Planning & Infrastructure in writing of the terms of this agreement				
<b>Blasting Hours</b>				
7. The Proponent shall only carry out surface blasting on site between 9 am and 5 pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.		Section 4.3		
<b>Blasting Frequency</b>				
8. The Proponent shall only carry out 1 blast per day on site. This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or blasts required to ensure the safety of the mine or its workers.		Section 6		
<b>Note:</b> For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the mine.				
<b>Property Inspections</b>				
9. If the Proponent receives a written request from the owner of any privately-owned land within 2 kilometres of any approved open cut mining pit on site 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 updated, then within 2 months of receiving this request the Proponent shall:		Section 4.6 Section 7		
a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to:				

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<ul style="list-style-type: none"> <li>establish the baseline condition of any buildings and other structures on the land, or update the previous property inspection report</li> <li>identify measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures <ul style="list-style-type: none"> <li>b) give the landowner a copy of the new or updated property inspection report</li> </ul> </li> </ul> <p>If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Proponent or the landowner disagrees with the findings of the property inspection report, either party may refer the matter to the Secretary for resolution.</p>	
<b>Property Investigations</b>	
<p>10. If the owner of any privately-owned land claims that buildings and/or structures on his/her land have been damaged as a result of blasting on the site, then within 2 months of receiving this claim the Proponent shall:</p> <ul style="list-style-type: none"> <li>commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to investigate the claim</li> <li>give the landowner a copy of the property investigation report</li> </ul> <p>If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall 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 Proponent 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>	Section 4.6
<b>Operating Conditions</b>	
<p>11. The Proponent shall:</p> <ul style="list-style-type: none"> <li>a) implement best management practice to: <ul style="list-style-type: none"> <li>protect the safety of people and livestock in the surrounding area;</li> </ul> </li> <li>protect public or private infrastructure/property in the surrounding area from any damage <ul style="list-style-type: none"> <li>minimise the dust and fume emissions of any blasting</li> </ul> </li> <li>b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site, to the satisfaction of the Secretary.</li> </ul>	Whole document
<p>12. The Proponent shall not undertake blasting on site within 500 metres of:</p> <ul style="list-style-type: none"> <li>a) any public road;</li> <li>b) any land outside the site not owned by the Proponent, unless the Proponent has: <ul style="list-style-type: none"> <li>demonstrated to the satisfaction of the Secretary that the blasting can be carried out closer to the infrastructure or land without compromising the safety of people or livestock or damaging the infrastructure and/or other buildings and structures; and</li> <li>updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the infrastructure or land; or</li> <li>a written agreement with the relevant infrastructure owner or landowner to allow blasting to be carried out closer to the infrastructure or land, and the Proponent has advised Planning &amp; Infrastructure in writing of the terms of this agreement</li> </ul> </li> </ul>	Section 4.5
<b>Blast Management Plan</b>	
<p>13. The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>a) be prepared in consultation with the EPA, and submitted to the Secretary for approval prior to conducting any blasting on site;</li> <li>b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this approval;</li> <li>c) propose and justify any alternative ground vibration limits for public infrastructure in the vicinity of the site (if relevant); and</li> <li>d) include a monitoring program for evaluating and reporting on compliance with the blasting criteria and operating conditions of this approval</li> </ul>	Whole document
<b>Schedule 5</b>	
<p>1. Within 1 month of this approval, the Proponent shall:</p> <ul style="list-style-type: none"> <li>a) Notify in writing the owners of: <ul style="list-style-type: none"> <li>Any privately-owned land within 2 kilometres of the approved open cut mining pits that they are entitled to ask for an inspection to establish baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated;</li> </ul> </li> </ul>	Section 4.6

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### 3.2 Guidelines

The ANZECC 'Technical Basis for Guidelines to Minimise annoyance due to Blasting Overpressure and Ground Vibration (ANZECC 1990) have been referenced in the assessment of blasting during the Environmental Assessment for PA11\_0060.

## 4. KEY ISSUES

### 4.1 Blast Impacts

The potential blast impacts to surrounding receivers is from ground vibrations and air blast overpressure from blasting in open cut mining operations.

Monitoring conducted during the mining of the E22 open cut from 2008 to 2012 indicate that no air blasts exceeded the maximum 120 linear decibels or the 5mm/s vibration criteria and suggests that ongoing open cut operations should not cause any adverse blasting-related impacts.

Previous monitoring has established that underground blasts of the magnitude intended would be unlikely to be detected at any of the four surrounding residences.

### 4.2 Blast Impacts Criteria.

The assessment criteria for blast impacts at NPM are based on the ANZECC Guideline "Technical Basis for Guidelines to minimise annoyance due to Blasting Overpressure and Ground Vibration" (ANZECC 1990). These guidelines are based on human comfort levels and are much more stringent than those based on the potential for damage to structures. Table 2 below shows the blast impact criteria as set out in the PA 11\_0060.

**Table 2** Blasting criteria

Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	Allowable Exceedance
Residence on privately owned land	120	10	0%
	115	5	5 % of the total number of blasts over a period of 12 months
All public infrastructure	-	50 <i>(or a limit determined by the structural design methodology in AS 2187.2-2006, or its latest version, or other alternative limit for public infrastructure, to the satisfaction of the Secretary)</i>	0%

### 4.3 Blasting hours.

NPM shall only carry out surface blasting on site between 9 am and 5 pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.



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#### 4.4 Proposed Frequency

Blasting practices will be consistent with blasting activities associated with previous open cut mining at NPM. Accordingly, it is proposed that the frequency of onsite blasting will be typically one blast per day, six days per week.

Details of the indicative blast design parameters are provided below in Table 3.

**Table 3** Blast design parameters

Parameter	Open Cut Blasting
Blast Hole Diameter	89 mm
Blast hole depth	7m x 8m
Blasthole/Burden	3.5m x 4m
Depth of stemming	2.5m
Area of Blast	2500m <sup>2</sup>
Size of Blast	20000m <sup>3</sup>
Number of Holes	200
Bulk Explosives Type	ANFO
Power factor	0.5kg/bcm
Maximum Instantaneous Charge (MIC)	50kg
Initiation System	None

#### 4.5 Blasting Adjacent Roads

Blasting operations within the E26 open cut would have been undertaken within 200m of McClintock's lane. Where blasting operations are undertaken within 500m of McClintock's lane, the following blast management practices will be implemented in consultation with the Parkes Shire Council (PSC).

##### 4.5.1 Temporary Road Closures

Prior to undertaking any blasting within 500m of a public road, NPM will have a written agreement with the PSC which would include the temporary closure of affected parts of the roads. McClintock's lane would temporarily be closed whenever blasting was undertaken within 500m as a precautionary measures for public safety. These closures would be typically less than 15 minutes to minimise interference with traffic flow along this road. Consultation will also be undertaken with the local community to work around times such as school bus times and harvest operations, which see peak road usage for short periods of time. All traffic control and controllers will be Roads and Maritime Services (RMS) and or PSC approved.

##### 4.5.2 Notification of Road Closures

The notification of blast related road closures would be done in consultation with the PSC. Notifications of road closures would be undertaken via the current community notifications that are in place or the systems in place at the time of blasting. These may include text messages and updates at neighbours meetings.

Hard barrier notifications that would be implemented will include signage along the affected roads which notify of current or weekly proposed blasting times to give advance notice to road users. On the day of blasting signage will be placed out as part of the road closure notifying of blasting times and expected delays.

##### 4.5.3 Flyrock Removal and Road Maintenance

After blasting the roads will be visually inspected and cleared of any flyrock if necessary prior to being reopened to public traffic.

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Road maintenance or repair works that may be required due to any blast activities will be completed in consultation with the PSC and using contractors or PSC equipment as required.

#### 4.6 Property Inspections/Property Investigations

NPM has a proactive approach with the community which includes bi annual neighbour meetings and text message notifications for predicted disturbances. NPM has written to neighbours with property within the 2km radius of any proposed blasting to notify them of these conditions and their entitlement to undertake pre blasting inspections.

In regards to neighbours, notification of upcoming open pit operations will be given at the neighbours meetings where discussions will be held in regard to the requirements for baseline inspections, inspection reports and property investigations for those potentially affected by any open cut operations.

#### 4.7 Risk Assessments

Multiple surface blasting techniques may be utilised at NPM during the development and mining of open pits. Risk assessments for various blasting techniques will be undertaken before works commence.

NPM will investigate opportunities to refine blast designs to ensure compliance with all relevant airblast impact assessment criteria.

#### 4.8 Non-compliance and Exemptions

If there is an exceedance of the blast criteria shown in Table 2, NPM will investigate and notify the Secretary of the incident as soon as practicable after the incident.

Within 7 days of the date of the incident, NPM is to provide the Secretary with a detailed report on the incident.

### 5. RESPONSIBILITY

Specific accountabilities in relation to management of 'blast' at NPM are outlined in Table 4. Personnel carrying out work under this Management Plan must be familiar with and comply with it in full.

General role responsibilities under this Procedure are outlined in 'HSE Accountabilities' Procedure (3-3563). Personnel carrying out work under this Management Plan must be familiar with and comply with it in full.

**Table 4** NPM responsibilities for Blast Management

<b>Role</b>	<b>Responsibility</b>
<i>All Personnel</i>	<i>Be familiar with and comply with this Management Plan; Assess blast requirements;</i>
<i>Manager Director</i>	<i>Ensure that a system exists throughout NPM that covers the Blast Management Plan, and that the system is subjected to regular review.</i>
<i>PSE Manager</i>	<i>Ensure that the system and this Management Plan are consistent with CMOC Standards, the site HSEQMS and meets the requirements of relevant legal obligations.</i>
<i>Superintendents / Contract Superintendents / Team Leaders</i>	<i>Ensure relevant employees and contractors under their direction are trained and comply with this Management Plan</i>

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<b>Role</b>	<b>Responsibility</b>
<i>Departmental Managers</i>	<i>Ensure relevant personnel and contractors within their responsibility are aware of and comply with this Management Plan. Monitor the implementation and use of this Management Plan in their department and implement corrective action for any deviations found.</i>
<i>Environment Superintendent</i>	<i>Report against performance criteria in the Annual Review (AR). Report complaints and outcomes of investigations in the AR. Manage activities on site in accordance with this management plan.</i>
<i>Environment Team</i>	<i>Maintain and co-ordinate reporting for the monitoring program. Provide advice on effective and efficient blast management controls. Communicate blast noise monitoring results at relevant community forums.</i>

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## 6. MONITORING

Activities that have the potential to result in significant impacts (such as the release of contaminants) are identified in the risk assessment process. Procedures for monitoring and measuring performance, operational controls and conformance with environmental objectives and targets are documented.

The blast monitoring program will be implemented using blast units which measure ground vibration and air overpressure at the residences on the four closest privately-owned lands. The program is designed to measure the effectiveness of control measures and ensure compliance with consent and licence conditions, relevant standards and corporate requirements.

All over pressure and vibration monitoring instrumentation employed shall be designed to comply with the requirements of AS 2187.2-2006 and carry current NATA (or similar) or manufacturer calibration certificates. All instrumentation should be programmed to record continuously overpressure (dBL) and vibration (mm/s) over the period of the blast.

Monitoring is undertaken in accordance with the following procedures:

- Measuring and Monitoring Procedure (DOCID-3-3878)
- Environmental Monitoring and Measuring Schedule (DOCID-3-3877)
- Work Instruction Blast and Vibration Monitoring (DOCID-3-3881)

Results of the monitoring program are communicated to relevant personnel and external stakeholders, where required. The monitoring results are used to:

- verify compliance with legal and other requirements
- review and verify impacts to the environment and alert personnel of the need to modify operations accordingly

The locations for blast monitoring are outlined in Table 5 below.

**Table 5** Blast Monitoring Locations

Location Name	Easting	Northing	Monitoring		
			Real Time 24/7	Attended Quarterly	Unattended Quarterly
Hubberstone	600814	6360898	As required	As required	As required
Lone Pine	594806	6352805	As required	As required	As required
Milpose	293530	6358830	As required	As required	As required
Hillview	603199	6353574	As required	As required	As required

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## 7. CHECKING AND CORRECTIVE ACTIONS

### 7.1 Non Conformance, Corrective & Preventative Action

Non-compliances may be identified by a range of mechanisms including:

- Review of monitoring results
- Complaints
- Site inspections
- Audits; and
- Incident reports.

Incidents and near misses at NPM are reported internally through the internal system which is supported by a database to manage the system.

Incident investigations and corrective actions are conducted and authorised by designated personnel. The degree of involvement of the environmental function depends on the nature and scale of the incident.

At a minimum all environmental incidents obtain recommendations for corrective and preventative actions prior to close out of the incident. All corrective actions for non-conformance findings from audits and inspections are actioned through the internal system.

Any non-compliance against NPM operating licence conditions is reported internally and externally. Incident reporting will be in accordance with Condition 7, Schedule 6 of Project Approval (11\_0060) and in line with the Procedure Incident Management (DOCID-3-3898).

Non-compliance incidents that are reportable to government departments are also reported to CMOC and Joint Venture partners as they may have the potential to impact upon the business.

The frequency and severity of incidents and non-conformances are used in the Management Review process for determining the effectiveness of the HSEQMS.

### 7.2 Adaptive Management

The People, Safety and Environment Manager (or delegate) will review all environmental monitoring results on a regular basis to ensure compliance with all statutory, legislative and approval requirements (project approval, development consents, EPL, mining approvals), and to identify where results or trends indicate a risk of future non-compliance to the development consent criteria or other approval conditions.

NPM will assess and manage all project-related risks to ensure that there are no exceedances of the criteria as mentioned in Schedules 3 & 4 of the Project Approval. Should environmental monitoring show that the relevant criteria or threshold has been exceeded, the company will conduct an investigation into the potential sources and/or causes. The investigation will consider any plant operation or other factors that may have resulted in the exceedance. If the company is responsible for the exceedance further actions will be taken to address the matter.

A report on the exceedance will be provided to the DP&I or other relevant agency (such as EPA). The report will:

- a) describe the date, time and nature of the exceedance/incident;
- b) identify the cause (or likely cause) of the exceedance/incident;
- c) describe what action has been taken to date; and
- d) describe the proposed measures to address the exceedance/incident.

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If the results of environmental monitoring identify that impacts generated by the project are greater than the relevant impact assessment criteria, except where a negotiated agreement has been entered into in relation to that impact, then NPM shall, within one week of obtaining the monitoring results, notify the Secretary, the affected landowners and tenants (including tenants of mine owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the project is complying with the criteria.

### **7.3 Implementing Corrective Actions**

Corrective and preventative actions will be implemented through the development of an action plan. The plan will provide details on the action required, time frame and responsibilities for completing the action. The implementation of the corrective and preventative actions will be reviewed internally and specific procedures developed for addressing non-conformances with the EMS or subordinate plans and strategies.

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## 8. REPORTING

Blast monitoring results are reviewed by the Environment Advisor within 48 hours of collecting the data and a weekly results summary provided to the Environment Superintendent. In the case of an exceedance of criteria or a failure to monitor a blast, the incident should be reported as soon as practical to the Environment Superintendent.

As a minimum, blast monitoring records to be kept should include the following:

- the size of the blast in terms of the number of blast holes and the quantity of explosives
- the method of initiation and the timing sequence to be used in the blast
- the date and time of the blast
- the location of the monitoring equipment
- Instrument trigger levels
- measurement equipment and operator details
- the location of the blast
- the location of any structures and/or persons who may be affected by the blast
- the measured ground vibration and airblast values including the peak particle velocity values and the peak airblast levels
- weather conditions, especially wind speed, cloud cover and direction and any other notable conditions such as rain
- any subjective information from the shottirer and any persons who may be affected by the blast

The results of the monitoring program and any complaints received are communicated to relevant personnel and externally through the Annual Review, which is uploaded onto the website.

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## 9. REVIEW / CONTINUOUS IMPROVEMENT

The Blast Management Plan will be reviewed and updated on a three yearly basis or in the case of a significant operational change. The review will include an assessment of the effectiveness of control measures and performance against the Plan's objectives.

The objectives of a review are:

- to maintain compliance with statutory requirements
- to identify opportunities for improvement in the management plan
- incorporate community considerations

The NMP review will include:

- this Document
- Legislation, Approval, Licence changes
- community complaints and enquiries

## 10. RELATED DOCUMENTS

Reference	Title	Document Number
HSEQ MS	Measuring and Monitoring Procedure	DOCID-3-3878
HSEQ MS	Environmental Monitoring and Measuring Schedule	DOCID-3-3877
HSEQ MS	Work Instruction Blast and Vibration Monitoring	DOCID-3-3881
HSEQ MS	Annual Review	
HSEQ MS	Procedure Incident Management	DOCID-3-3898
Approvals	Northparkes Mines Project Approval 11_0600	
Environmental Assessment	Environmental Assessment Northparkes Mines – Step Change Project (2013)	
Environmental Assessment	Corkery, R.W. (2006) Environmental Assessment Northparkes Mines – E48 Project	
Environmental Assessment	Heggies Pty Ltd, 2006. Northparkes Mines – E48 Project Noise and Blasting Assessment.	