Management Plan

Environmental Management Strategy

Risk Statement: High
This document will be reviewed on a 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_0600 and Mining Leases 1247, 1367 and 1641
## Revision Summary

<table>
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<th>First Issue</th>
<th>Issue Date</th>
<th>Implementation Requirements</th>
<th>Approved By</th>
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<td>10 Jul 07</td>
<td>Created by Renee Morphett – document established to provide framework for ESHMS and safety Dept of Planning Project Approval conditions.</td>
<td>S Alexander</td>
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<th>Revision Date</th>
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<td>28 Aug 07</td>
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<td>Updated by R Morphett to incorporate comments from Dept of Planning</td>
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<td>13 Sep 07</td>
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<td>Updated by R Morphett to incorporate additional comments from Dept of Planning</td>
<td>S Alexander</td>
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<td>3</td>
<td>10 Nov 08</td>
<td>Appendix C &amp; E</td>
<td>Updated by R Morphett – minor wording changes only, updated</td>
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<td>12 Feb 10</td>
<td>Appendix B, C &amp; E</td>
<td>Updated by R Morphett – minor wording changes only, updated</td>
<td>K Edwards</td>
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<td>5</td>
<td>11 Feb 11</td>
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<td>Updated by T. Warren – minor wording changes only updated</td>
<td>B. Marston</td>
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<td>6</td>
<td>May 14</td>
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<td>Review by Bharath Ramakrishnappa – changes made to comply with Project Approval 11_0600.</td>
<td>B. Ram</td>
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<td>May 15</td>
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<td>Updated with minor changes _MP</td>
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## Approval Position
Manager Environment, Safety, Health, Community and Farms (ESHCF)
NLT

## Automatic Notifications

## Hard Copy Locations

## Associated Documents to be reviewed
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1.0 Overview

1.1 Background

Northparkes Mines (NPM) is a copper and gold mine located 27 kilometres North West of Parkes in the Central West of New South Wales, Australia. Northparkes is a joint venture between China Molybdenum Co., Ltd (CMOC) (80%) and the Sumitomo Groups (20%).

NPM has been operating since 1993 following the grant of the original development consent (504/90) by the NSW Land and Environment Court. Since that time, seven additional development consents, inclusive of modification notices have been issued and have been surrendered to Parkes Shire Council. Combined, these approvals permitted the development and operation of two open cut mines, two underground block cave mines, construction of an additional Tailings Storage Facility and storage warehouse, a mine and mill upgrade to increase production to 8.5 million tonnes per annum and associated works.

NPM was granted project approval (Northparkes Mine Extension Project 11_0600) under Section 75J of the Environmental Planning and Assessment (EP&A) Act 1979 in May 2014 in accordance with the supporting document Environmental Assessment Northparkes Mines – Step Change Project (2013). This approval permits the on-going operation of existing activities and the continuation of underground block cave mining in two existing ore bodies, the development of underground block cave mining in the E22 resource, additional campaign open cut mining located in existing mining leases, augmentation to approved Tailings Storage Facilities (TSFs) and an extended mine life of seven years until 2032 at the approved ore processing rate of up to 8.5 Mtpa.

1.2 Environmental Context

1.2.1 Topography

The NPM site is located on the on the Tenandra Plain well beyond the Great Dividing Range. The NPM site is generally flat, with some low undulations, ranging in elevation from 288 metres Australian Height Datum (mAHD) to 301 mAHD. The area surrounding the NPM site is also generally flat with the most significant regional feature being Goonumbla Hill, which extends to a height of 386 mAHD, located approximately 4 kilometres south of the NPM site.

1.2.2 Meteorology

The region experiences a typical arid to semi-arid climate with hot, dry summers and cool winters. Average annual rainfall is 535mm and average monthly rainfall is relatively uniform throughout the year.

1.2.3 Land Use

Farming (cropping and grazing) is the predominant land use on privately-owned land in the vicinity of the Project.

NPM owns approximately 6,000 ha within and around the project site. The majority of this land acts as a buffer and is used primarily for farming by sustainable
agricultural practices in combination with native vegetation (serving as biodiversity offsets and creation of wildlife corridors).

The existing Limestone National Forest is owned by the Forestry Corporation of NSW.

1.3 Regulatory Requirements

This Environmental Management Strategy (the Strategy) has been developed in accordance with Condition 1, Schedule 6 of the Department of Planning and Infrastructure (DoPI) Project Approval (11_006). Table 1 indicates where each component of the Condition is addressed within this document.

Table 1 Environmental Management Strategy Requirements

<table>
<thead>
<tr>
<th>Condition</th>
<th>Requirement</th>
<th>Section</th>
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<tbody>
<tr>
<td>1</td>
<td>The Proponent shall prepare and implement an Environmental Management Strategy for the Project to the satisfaction of the Director-General. This strategy must:</td>
<td>Appendix A</td>
</tr>
<tr>
<td></td>
<td>a) be submitted to the Director-General for approval by 30 June 2014;</td>
<td>4.0</td>
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<td>b) provide the strategic framework for environmental management of the mine;</td>
<td>5.0</td>
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<td>c) identify the statutory approvals that apply to the mine;</td>
<td>6.1</td>
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<td></td>
<td>d) describe the role, responsibility, authority and accountability for all key personnel involved in the environmental management of the mine;</td>
<td>6.3.2</td>
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<td>e) describe the procedures that would be implemented to:</td>
<td>6.3.3</td>
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<td>• keep the local community and relevant agencies informed about the operation and environmental performance of the Project;</td>
<td>6.3.4</td>
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<td>• receive, handle, respond to and record complaints;</td>
<td>7.2</td>
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<td></td>
<td>• resolve any disputes that may arise;</td>
<td>6.5.1</td>
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<td>• respond to any non-compliance;</td>
<td>6.6</td>
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<td></td>
<td>• manage cumulative impacts;</td>
<td>Appendix B</td>
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<td></td>
<td>• respond to emergencies; and</td>
<td>Appendix F</td>
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<td>f) include:</td>
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<td>• copies of any strategies, plans and programs approved under the conditions of this approval; and</td>
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<td>• a clear plan depicting all the monitoring to be carried out in relation to this project.</td>
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</table>
Figure 1  Project Location
2.0 Objectives

The objectives of the Strategy are to:

- Provide the overall framework for the management of environmental aspects and impacts associated with NPM operations in line with the principles of ISO 14001
- Effectively integrate the requirements of the Environmental, Safety and Health Management System (HSEQMS) and relevant legal and other requirements into a site-specific document

3.0 Scope

This Management Plan applies to all activities undertaken by Northparkes Mines including mining and exploration activities; processing of copper / gold ore resources; project development; maintenance activities; mine closure; logistics; associated service and support functions; bore fields; farming operations; and products.

This Strategy provides the strategic context for environmental management across the site and is consistent with the HSEQMS. The HSEQMS is designed primarily to meet the requirements of:

- AS/NZS ISO 14001:2004
- Department of Planning & Infrastructure Project Approval 11_0600

This document is intended to provide a simple directory to the HSEQMS in place at NPM and applies to all components of the operations.

4.0 Environmental Management Framework

NPM strives for business excellence through its commitment to leading practice in environmental management and performance. Implementation of the Strategy assists in minimising the environmental impacts of mining related activities by facilitating continual improvement in environmental performance.

The Strategy outlines the minimum standard to ensure NPM manages these aspects and impacts in a manner that is planned, controlled, monitored, recorded and audited, using a management system that drives continual improvement.

4.1 Environmental Management System

NPM operate and manage their environmental impacts under an ISO 14001 certified environmental management system to encourage rigour and consistency in environmental management across site.

The system (HSEQMS) includes a set of minimum requirements, which are supported by management plans, programs and procedures that apply to operations. These plans, programs and procedures focus on specific aspects of environmental management or potential impact.

The components of the HSEQMS that are consistent with the principles of ISO 14001 are detailed in Appendix B.
This Strategy document is based on the existing HSEQMS in place across site at NPM.

### 4.2 Environmental Policy

NPM is committed to meeting the requirements of the Environment, Safety, Health and Community Policy (Appendix C). This policy leads the HSEQMS and defines the overall direction for HSE management at NPM.

All activities are conducted in accordance with the HSEQMS Policy and are aligned with the NPM Environment Standards.

All inducted personnel are made aware of their responsibilities in relation to the policy and it is made readily accessible through display in prominent locations and on the NPM intranet.

### 5.0 Planning

#### 5.1 Environmental Aspects and Impacts

The on-going identification of environmental aspects and impacts is a key component of the HSEQMS and in driving the improvement process.

The risks associated with environmental aspects and impacts of each operational area are identified, assessed and managed in consultation with the Environment Section. Risk assessment includes consideration of corporate policy, compliance with legal and other requirements, stakeholder/community issues, severity of consequences and the likelihood of occurrence.

Environmental aspects and impacts risks are reviewed at least annually and at the planning phase of major projects. The environmental component of the risk register is maintained in business solution is subsequently updated as required in accordance with the Environmental Aspects and Impacts SOP (DPCID-3-3558).

#### 5.2 Legal and Other Requirements

NPM commits to complying with all relevant legal and other requirements. This includes all relevant legislation, licences, Company, Australian and International Standards and other requirements.

In order to maintain legal compliance, it is necessary to identify and understand the legal and other requirements applicable to activities at NPM. A register(s) of these legal and other requirements is maintained within the HSEQMS. The HSE Legal Register (DOCID-3-3545) details how these requirements apply to the operations environmental aspects.

A summary of approvals and licences is provided in Appendix D, including the government agencies and the applicable legislation.

Periodic evaluations of compliance are undertaken through independent external audits and in the process of producing an Annual Environmental Management Report (AEMR).

Any non-compliance against NPM operating licence conditions will require a Hazard Incident report to be raised within the internal reporting system, accompanied by a
Government Notification of Environmental Incident form to be completed and actioned accordingly.

5.3 Objectives, Targets and Improvement Plans

With the aim of continual improvement in HSE performance, annual objectives and targets are developed. Environmental objectives and targets are aligned with the requirements of the environmental policy and are set in consideration of the following:

- Legislation and standards
- Stakeholder expectations
- Technological options
- Significant HSE aspects
- Operational impacts

This process is also linked to the business planning process and facilitates budgeting for environmental improvement projects.

Departmental improvement plans have been established that detail actions against their highest environmental risks as identified within the site risk register. The plans form the basis for budget justifications and resourcing of the high risk impacts. The documentation of these plans outlines not only the required outcomes, but also the department responsibilities and the means and timeframe by which they are to be achieved.

6.0 Implementation and Operation

6.1 Structure and Responsibility

The Managing Director is accountable overall for NPM’s environmental performance and will ensure that systems are in place to manage the HSE aspects of operations with particular focus on the significant aspects.

The Health, Safety, Environment and Farm (HSEF) Manager is the Northparkes management representative accountable for implementation and maintenance of the HSEQMS in accordance with legal and other environmental obligations including the requirements of the HSE Policy and the ISO 14001:2004 Standards. The HSECF Manager is responsible for reporting on the performance of the HSEQMS to senior management.

In addition, NPM’s Environment Section, led by the HSECF Manager, provides expertise and services to the operation. The HSECF Manager is contactable during normal working hours on (02) 6861 3280.

All personnel working for and on behalf of NPM are responsible for environmental risk and impact management in their roles. Details of responsibilities and performance requirements are documented in position descriptions and relevant work procedures within the Document Control System.

Human resources and specialised skills, organisational infrastructure, technology and financial resources are provided to enable the operations to meet the requirements of the HSEQMS.
The NPM management team and HSE department structures are shown in Appendix E.

6.2 Training, Awareness & Competence

All personnel working for or on behalf of Northparkes Mines shall be aware of their environmental responsibilities in relation to the HSEC Policy and HSEQMS requirements, consequences of deviating from the policy and procedures, role in emergency response, and the potential and actual environmental impacts of their tasks and roles. Awareness programs may include inductions, training sessions and various multimedia communication of environmental information across sites.

All personnel working for or on behalf of Northparkes Mines shall be competent in managing their significant environmental risks by virtue of qualifications, experience or training.

NPM identifies competency requirements based on environmental risks associated with roles and functions of employees within the organisation. To address training requirements training programs are implemented and records are maintained for verification purposes.

6.3 Communication

Effective communication between all key stakeholders is important for the successful implementation and operation of the HSEQMS. Specific communication mechanisms are outlined below.

6.3.1. Internal Communication

Channels are maintained at NPM for internal communication of environmental aspects and HSEQMS requirements at relevant levels throughout the organisation. These include meetings, regular reporting and training programs.

NPM communicates relevant procedures and requirements to suppliers, customers and contractors via contractual agreements, regular meetings and training programs.

6.3.2. External Communication

At various times specific information, relevant to environmental aspects and impacts, is communicated to external stakeholders, including the community and government authorities. NPM maintains an external communication and complaints system which addresses and records communication from external stakeholders. All external communications are undertaken in accordance with this system.

A Community Consultative Committee has been established to provide a forum for open discussions and feedback between representatives from NPM and residents of the local community. NPM also consults with its immediate neighbours on a six monthly basis.

The NPM website is a key mechanism for external dissemination of information, it provides stakeholders with readily accessible up-to-date information on NPM and its performance. The website is located at www.northparkes.com.au. Copies of DoPl approved environmental management plans and programs, quarterly monitoring results summary and the Annual Environmental Management Report (AEMR) as required under Project Approval 11_0600 will be made available.
NPM maintains a 24-hour telephone line (02 6861 3000 – Option 3) to allow a quick and effective response to community concerns in relation to environmental matters.

6.3.3. Complaints Management

Any complaints that are received relating to NPM operations are recorded and actioned in accordance with the Communication and Consultation Management Plan (DOCID-3-3685). Notifications of complaints received are provided to the External Relations Advisor as soon as possible to ensure a timely response. All complaints recorded and outcomes of any investigation findings and corrective actions implemented are reported in the AEMR.

6.3.4. Dispute Resolution

NPM consults regularly with stakeholders to avoid disputes arising through the communication mechanisms outlined above.

In the event that a dispute arises between NPM and a government authority regarding compliance with development consent conditions the matter shall be referred to the Director-General of the DoPI for resolution. If not resolved by the Director-General, it will then be referred to the Minister for Planning.

In addition, for any dispute that occurs between NPM and a member of the community that cannot be resolved through direct consultation, the matter will be referred to the relevant government authority for resolution.

6.4 Documentation, Document Control & Record Management

HSEQMS documentation and records are prepared and maintained in an orderly manner sufficient to implement the system in accordance with the ISO 14001:2004 Standard.

NPM have established procedures for controlling documents to ensure:

- Periodic review and approval by relevant personnel
- Current versions of documents are easily located and available in identified locations
- Obsolete documents are promptly removed from points of issue and use and archived appropriately
- Documentation is legible, dated (with dates of revision) and readily identifiable

6.5 Operational Control

Operational controls are required to be implemented where activities are identified as potentially having environmental impacts and to ensure environmental objectives and targets are met.

A risk assessment process has been established to determine the risk and potential environmental impacts associated with activities. These activities, including associated risks and implemented controls, are documented in the Site Risk Register. Environmental operating procedures, management plans and programs are established, documented and maintained for operational activities to minimise risks and reduce the potential environmental impact(s) identified.
NPM has developed standard environmental operating practices to reduce, minimise or eliminate potential environmental impacts across the operation. These procedures, management plans and programs include but are not limited to:

- Air Quality
- Water Management
- Noise
- Blast
- Mineral and Non-Mineral Waste Management
- Land Management and Rehabilitation
- Greenhouse Gas and Energy Management
- Hazardous Substances and Contamination Control
- Mine Closure

Operating procedures are reviewed on a regular basis, and revised as appropriate, to ensure all significant aspects of the operation are appropriately controlled. New procedures will be developed on an as needs basis.

All personnel working for or on behalf of NPM shall be aware of the relevant operating procedures when undertaking their day to day duties. Responsibility will be delegated to the most effective level of supervision to ensure compliance.

6.5.1. Cumulative Impacts

Potential cumulative impacts have been identified and assessed in the Environmental Assessment Northparkes Mines – Step Change Project (2013). Appropriate control measures proposed in this Environmental Assessment will be incorporated into the various environmental management plans and monitoring programs and these impacts managed in accordance with Section 6.5.

A number of monitoring programs shall be established to allow for the measurement of key potential cumulative impacts as identified in Section 7.1. These programs stipulate monitoring locations, frequency, impact assessment criteria (where required) and sampling methods.

6.6 Emergency Preparedness & Response

Effective plans, procedures and trained personnel are in place to identify potential emergency scenarios and to plan an appropriate response for the control and recovery from emergencies. Where appropriate, environmental emergency response procedures are integrated with onsite emergency response plans.

An Emergency Response Team trained to respond to emergency situations and incidents is maintained onsite.

Employees are made aware of the potential emergency situations and their responsibilities should the event occur.
7.0 Checking and Corrective Actions

7.1 Monitoring & Measurement

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 environmental monitoring program, coordinated by the Environment Section, is undertaken by appropriately trained personnel. The Environmental Measuring and Monitoring Program Procedure (DOCID-3-3878) consolidates the requirements for all environmental monitoring conducted onsite.

A number of monitoring programs will be established to allow for the measurement and management of key potential cumulative impacts as identified in Section 6.5.1 as follows:

- Air Quality
- Noise
- Blast
- Surface Water
- Groundwater
- Rehabilitation

Monitoring procedures and equipment calibration techniques adopted comply with recognised Australian Standards and external criteria where applicable. External services employed for laboratory analysis of critical data are NATA accredited where applicable.

Monitoring data will be regularly assessed to ensure that any trends indicating potential environmental impact are identified. In accordance with Condition 11, Schedule 6 of Project Approval (11_0600) a summary of monitoring results will be made publicly available at the mine and on the website and updated on a quarterly basis.

An AEMR that details the environmental performance of the previous year is prepared and submitted to all relevant stakeholders.

7.2 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_0600) and in line with the Procedure Incident Management (DOCID-3-4345).

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.

7.3 HSEQMS Inspections and Auditing

Regular environmental inspections of operations are conducted. These inspections determine, in conjunction with the environmental monitoring and incident reporting procedures, onsite compliance with the HSEQMS.

NPM’s internal auditing program is designed to assess whether the HSEQMS is effectively implemented and maintained and conforms to legal and other requirements. An annual schedule specifies the audit team, frequency and scope of internal audits. Audit reports are presented at the HSE Policy meeting for management review and sign off.

An Independent Environmental Audit will be undertaken by 31 March 2015, and every three years thereafter (unless the Director-General directs otherwise) in accordance with Schedule 6, Condition 9 of Project Approval (11_0600). This audit will be conducted by suitably qualified, experienced and independent expert/s whose appointment has been endorsed by the Director-General.

All corrective actions for non-conformance findings from audits and inspections are actioned through the internal system.

8.0 Management Review

The Northparkes Management team is responsible for ongoing review of the effectiveness of the HSEQMS and continuous improvement of the HSEQMS.

The review addresses the possible need for changes to policy, objectives, and other elements of the HSEQMS, in light of system audit results, changing circumstances and the commitment to continual improvement.

The management review ensures that the necessary information is collected to allow management to carry out the review and document findings in the meeting minutes.
8.1 **Strategy Review**

This Strategy will be reviewed and updated on an annual basis.

In addition, this Strategy will be reviewed within six months of an Independent Environmental Audit in accordance with Condition 5, Schedule 6 of Project Approval (11_0600).
APPENDIX A

REGULATORY CORRESPONDENCE
Dear Mr Alexander,

Northparkes Mines – Environmental Management Strategy

Reference is made to your letter of 30 August 2007 in which you have provided an amended version of the Northparkes Mines Environmental Management Strategy following the Department of Planning’s comments made on 7 July 2007. The strategy is a requirement contained in the Minister for Planning’s 28 February 2007 approval for the Northparkes Mines.

The strategy, entitled ESH Management System Reference Manual – Environmental Management Strategy (revision 1, dated 28 August 2007), is satisfactory provided the following matters are incorporated:
- The 24 hours telephone number referenced in section 6.3.2 is included; and
- Appendix E is revised to include the names and contact details of the personnel filling each of the positions.

The Environmental Management Strategy is approved providing the matters outlined above are incorporated.

If you have any enquiries please contact Paul Weiner on 9228 6339.

Yours sincerely

David Kilto
Director
Major Development Assessment
As delegate for the Director-General
EXTERNAL COMMUNICATION RECORDING FORM

IN / OUT

Date 21/09/07 Time morning am / pm

DETAILS OF PERSON SPoken WITH
Name Paul Weiner
Location (if relevant) Sydney Phone No 92286339

Method of Communication (circle): Phone / Personal Communication / Fax / Letter

DETAILS OF COMMUNICATION
Discussion with Paul Regarding letter dated 3/04/07 regarding 2 detpoints concerning contact details

ANY ACTION (Responsibility / Date)
Rose Morphet: Update EHS document and prepare a separate memo with particular contact details on it

OUTCOME
Paul Weiner agreed that:
1) Agreed that 24 hr hotline number would be included.
2) Agreed that a separate memo with manager contact details would be provided to DCP rather than displayed in EHS document

NAME (Person receiving/making call) Kerrie Edwards

SIGNATURE Kerrie Edwards DATE 19-09-07

Original Distribution: AJR / RCM / ASR / GJM / MS / Exploration (if relevant) / LC (fics)

FORM APPROVED BY ESHE MANAGER: P. Parker DATE: 11/08/06

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APPENDIX B

COMPONENTS OF THE NPM HSEQMS CONSISTENT WITH ISO 14001 REQUIREMENTS
<table>
<thead>
<tr>
<th>ISO 14001:2004 Reference</th>
<th>HSEQMS Elements</th>
<th>Relevant Documentation</th>
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<tr>
<td>4.2 Environmental Policy</td>
<td>1 – Policy</td>
<td>NPM Health, Safety, Environment and Community Policy (DOCID-3-3543)</td>
</tr>
<tr>
<td>4.3.1 Environmental Aspects</td>
<td>3 - Hazard Identification and Risk Management</td>
<td>Site Risk Register Environmental Aspects and Impacts Standard Operating Procedure (DOCID-3-3558) Risk Assessment Level 1 (JHA) WI (DOCID-3-3555) Risk Assessment Level 1 (PTHA) WI (DOCID-3-3556) Risk Assessment Level 2 (Qualitative) (DOCID-3-3557) Risk Assessment Level 3 (Quantitative) (DOCID-3-3562)</td>
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<td>4.3.2 Legal and other requirements</td>
<td>2 - Legal and Other Requirements</td>
<td>Legal Register (DOCID-3-3545) Annual Environmental Management Reports (DOCID-31-12394) Procedure Incident Management (DOCID-3-4345)</td>
</tr>
<tr>
<td>4.3.3 Objectives, targets and programme(s)</td>
<td>4 – HSEQ Management Improvement Planning</td>
<td>Environmental Objectives and Targets Departmental Improvement Plans Site Risk Register</td>
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<tr>
<td>4.4.1 Resources, roles and responsibility and authority</td>
<td>5 - Resources, Accountabilities and Responsibilities</td>
<td>Northparkes Mines Organisational Chart HSE Accountabilities SOP (DOCID-3-3563) Individual Role Descriptions</td>
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<tr>
<td>4.4.2 Competence, training and awareness</td>
<td>6 – Competencies and Awareness</td>
<td>Inductions and Training Modules High Risk Environmental Tasks Training Matrix (within HSE Accountabilities SOP DOCID-3-3563) Training Systems Management Plan (DOCID-3-3567) Training Records Individual Role Descriptions</td>
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<td></td>
<td>15 – Data and Records Management</td>
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<td>4.4.3 Communication</td>
<td>9 – Communication and Consultation</td>
<td>Communication and Consultation Management Plan (DOCID-3-3685) External Communication (Complaints) Form (DOCID-3-3686) Consultation Manager Procedure Incident Management (DOCID-3-4345)</td>
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<tr>
<td>4.4.4 Documentation</td>
<td>8 – Documentation and Document Control</td>
<td>HSEQ Management System Procedure for Document Control (DOCID-3-3681) SOP and Document Control Index (DOCID-3-3990) Documentation Archiving (Hard Copy and Electronic) WI (DOCID-3-3905) Environmental Records Management SOP (DOCID-3-3903)</td>
</tr>
<tr>
<td></td>
<td>16 – Records</td>
<td></td>
</tr>
<tr>
<td>4.4.5 Control of documents</td>
<td>Refer to 4.4.4</td>
<td></td>
</tr>
<tr>
<td>ISO 14001:2004 Reference</td>
<td>HSEQMS Elements</td>
<td>Relevant Documentation</td>
</tr>
<tr>
<td>------------------------</td>
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<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>4.4.6</td>
<td>Operational Control</td>
<td>Site Risk Register&lt;br&gt;HSE Forms&lt;br&gt;Management Plans&lt;br&gt;Standard Operating Procedures and Procedures</td>
</tr>
<tr>
<td></td>
<td>10 – Operational Control</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7 – and Contractor Management</td>
<td></td>
</tr>
<tr>
<td>4.4.7</td>
<td>Emergency preparedness and response</td>
<td>Emergency Management Plan (DOCID-3-3862)&lt;br&gt;Business Resilience Management Plan (DOCID-3-3861)&lt;br&gt;Hazardous Substances and Contamination Control Management Plan (DOCID-3-3716)&lt;br&gt;Spill Response SOP (DOCID-3-3717)</td>
</tr>
<tr>
<td></td>
<td>12 – Business Resilience and Recovery Program</td>
<td></td>
</tr>
<tr>
<td>4.5.1</td>
<td>Monitoring and measurement</td>
<td>Site Risk Register&lt;br&gt;Environmental Data Collection SOP (DOCID-3-3908)&lt;br&gt;Environmental Measuring and Monitoring Program Procedure (DOCID-3-3878)&lt;br&gt;Environmental monitoring database</td>
</tr>
<tr>
<td></td>
<td>13 – Measurement and Monitoring</td>
<td></td>
</tr>
<tr>
<td>4.5.2</td>
<td>Evaluation of compliance</td>
<td>Refer to 4.3.2&lt;br&gt;Procedure Incident Management (DOCID-3-4345)&lt;br&gt;Government Notification of Environmental Incident form (DOCID-3-4222)&lt;br&gt;Monthly Operations Report (DOCID-3-4787)</td>
</tr>
<tr>
<td>4.5.3</td>
<td>Nonconformity, corrective action and preventive action</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9 – Communication and Consultation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13 – Measurement and Monitoring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14 – Non Conformance Incident and Action Management</td>
<td></td>
</tr>
<tr>
<td>4.5.4</td>
<td>Control of records</td>
<td>Refer to 4.4.2 and 4.4.4&lt;br&gt;Internal HSEQ Auditing Procedure (DOCID-3-3911)&lt;br&gt;Auditing and Reporting Program (DOCID-3-3907)&lt;br&gt;Environment, Safety and Health Inspections SOP (DOCID-3-3909)&lt;br&gt;Zero Harm Walk Schedule (DOCID-3-6009)&lt;br&gt;HSE Policy Meeting Minutes</td>
</tr>
<tr>
<td>4.5.5</td>
<td>Internal audit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16 – Performance Assessment and Auditing</td>
<td></td>
</tr>
<tr>
<td>4.6</td>
<td>Management review</td>
<td>Communication and Consultation Management Plan (DOCID-3-3685)&lt;br&gt;HSE Accountabilities SOP (DOCID-3-3563)&lt;br&gt;Northparkes Management Team Meetings</td>
</tr>
</tbody>
</table>
APPENDIX C
HEALTH, SAFETY & ENVIRONMENT POLICY
HEALTH, SAFETY & ENVIRONMENT POLICY

As a business we care about people and the world in which we live. We recognise that excellence in managing health, safety and environmental responsibility is essential to long-term success. Therefore we take a Zero Harm approach in the way we work.

We are committed to:
- The prevention of incidents that may lead to: injuries, illnesses, pollution, property and environmental damage, security threats, process or product quality impacts.
- Compliance with all applicable laws, our HSE standards and other voluntary commitments.
- Adopting leading practice in key HSE areas through continual improvement.
- Establishing measurable objectives and targets for improving HSE performance.
- Providing the resources needed to meet our performance objectives.
- Encouraging employee participation and promoting employee awareness of HSE threat and opportunities.
- Understanding and respecting expectations of our workers, the community, and customers with responsible and effective management of HSE risk.

Our Responsibility

As employees, contractors and visitors, we have a responsibility to comply with and support this Policy. We will undertake work only after the appropriate risk assessment has been completed and we have the knowledge and commitment to complete the job safely and without harm to our health, the environment or our business.

Northparkes is proud to publicly report on its performance so that those who are impacted by or have an interest in our activities can assess and provide feedback on our achievements.

I thank you for your help in achieving our goal of Zero Harm.

Stef Loader, General Manager, Northparkes Mines
30 Dec 2013
APPENDIX D
SUMMARY OF APPROVALS AND LICENCES
## Summary of Approvals and Licences

<table>
<thead>
<tr>
<th>Approval or Licence</th>
<th>Relevant Authority or Stakeholder</th>
<th>Relevant Legislation, Policy and Guidelines</th>
</tr>
</thead>
</table>
| Development Consent | DoPI (and other agencies as required) | Environmental Planning and Assessment Act 1979  
Environmental Planning and Assessment Regulation 2000 |
Protection of the Environment Operations (Noise Control) Regulation 2008  
Australian Water Quality Guidelines for Fresh and Marine Waters (ANZECC and ARCMANZ, 2000)  
Industrial Noise Policy (EPA 2000)  
Environmental Noise Control Manual (EPA 1998)  
Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Over Pressure and Ground Vibration (ANZECC 1990) |
| Permits to construct levees and licences to extract/access water | NSW Office of Water | Water Act 1912 (Part 8 and Part 5)  
Water Management Act 2000 |
| Mining Lease (inc. Mining Operations Plan) | Department of Trade and Industry (DT&I) | Mining Act 1992  
Guidelines for the Preparation of Mining Operations Plans (DT&I 2013) |
| Consent to destroy Aboriginal sites | OEH, relevant Aboriginal groups* | National Parks and Wildlife Act 1974  
Aboriginal Cultural Heritage Standards and Guidelines Kit (NPWS 1997) |
| Approval to construct a building or structure | Parkes Shire Council | Environmental Planning and Assessment Act 1979 |
| Exchange of land dedicated as State Forest and Permits | Forestry Corporation of NSW | Forestry Act 2012 |

* Subject to confirmation in individual projects.
APPENDIX E

NPM MANAGEMENT TEAM AND HSEF DEPARTMENT STRUCTURES
APPENDIX F

MONITORING AND MEASURING SCHEDULE
<table>
<thead>
<tr>
<th>Monitoring Type</th>
<th>Parameter Monitored</th>
<th>Monitoring Location</th>
<th>Sample Point Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attended</td>
<td>Day: LAeq(15min) &lt; 35 dB(A)</td>
<td>Northparkes mines - off lease neighbours</td>
<td>Hubberstone, Milpose, Lone Pine, Beechmore, Hillview</td>
</tr>
<tr>
<td></td>
<td>Night: LA1(1min) &lt; 45 dB(A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unattended</td>
<td>Day: LAeq(15min) &lt; 35 dB(A)</td>
<td>Northparkes mines - off lease neighbours</td>
<td>Hubberstone, Milpose, Lone Pine, Beechmore, Hill View</td>
</tr>
<tr>
<td></td>
<td>Night: LA1(1min) &lt; 45 dB(A)</td>
<td></td>
<td></td>
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<tr>
<td>Vibration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air blast overpressure</td>
<td>&gt;115 dB (Lin Peak) (allowable exceedance of 5% over 12 months)</td>
<td>Open Cut</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>&gt;120 dB (Lin Peak) (no allowable exceedance at any time)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibration</td>
<td>&gt;5 mm/s (ppv) (allowable exceedance of 5% over 12 months)</td>
<td>Open Cut</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>&gt;10 mm/s (ppv) (no allowable exceedance at any time)</td>
<td></td>
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<tr>
<td>Groundwater</td>
<td></td>
<td></td>
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<tr>
<td>Levels</td>
<td>Depth to water table</td>
<td>On site and off site</td>
<td>MB01, MB02, MB03, MB04, MB05, MB06B, MB07, MB08, MB10, MB11, MB12, MB13, MB14, MB16, MB17, MB18, MB19, MB20, W14, W19, W20, W21, W22, W23, W24, W25, P139, P149, P71, P100, P101, P102, P103, P104, P145, South Hilliers, Wrights, Far Hilliers, Moss’s, Long Paddock</td>
</tr>
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<td>------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Field Chemistry</td>
<td>pH, Electrical Conductivity, Copper, Total Suspended Solids</td>
<td>On site and off site</td>
<td>MB01, MB02, MB03, MB04, MB05, MB06B, MB07, MB08, MB10, MB11, MB12, MB13, MB14, MB16, MB17, MB18, MB19, MB20, W14, W19, W20, W21, W22, W23, W24, W25, P139, P149, P71, P100, P101, P102, P103, P104, P145, South Hilliers, Wrights, Far Hilliers, Moss’s, Long Paddock</td>
</tr>
<tr>
<td>Full chemical analysis</td>
<td>Total Dissolved Solids (TDS), Sodium Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Chlorine (Cl), Sulphate (SO4), Bi-carbonate (HCO3), Carbonate (CO3), Aluminium (Al), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Molybdenum (Mo), Nickel (Ni), Lead (Pb), Selenium (Se), Thorium (Th), Uranium (U), Zinc (Zn)</td>
<td>On site and off site</td>
<td>MB01, MB02, MB03, MB04, MB05, MB06B, MB07, MB08, MB10, MB11, MB12, MB13, MB14, MB16, MB17, MB18, MB19, MB20, W14, W19, W20, W21, W22, W23, W24, W25, P139, P149, P71, P100, P101, P102, P103, P104, P145, South Hilliers, Wrights, Far Hilliers, Moss’s, Long Paddock</td>
</tr>
<tr>
<td>Surface water</td>
<td>pH, Electrical Conductivity, Total Dissolved Solids (TDS), Sodium (Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Chlorine (Cl), Sulphate (SO4), Ni-carbonate (HCO3), Carbonate (CO3)</td>
<td>Water Courses</td>
<td>WC1, WC2, WC3, WC4, WC5, WC6, WC7, WC11, WC12</td>
</tr>
<tr>
<td>D No.</td>
<td>Objective No.</td>
<td>Version No.</td>
<td>Date Reviewed</td>
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<tr>
<td>02-MP-SITE-005</td>
<td>A484057</td>
<td>7</td>
<td>19 May 15</td>
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<table>
<thead>
<tr>
<th><strong>Full chemical analysis</strong></th>
<th><strong>Field Chemistry</strong></th>
<th><strong>Hydrocarbon</strong></th>
<th><strong>Air Quality</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Dissolved Solids (TDS), Sodium (Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Chlorine (Cl), Sulphate (SO4), Bi-carbonate (HCO3), Carbonate (CO3)</td>
<td>pH, Electrical Conductivity, Copper (Cu), Total Suspended Solids (TSS)</td>
<td>Total Recoverable Hydrocarbons, Total Petroleum Hydrocarbon, TPH(V)BTEX Surrogates</td>
<td><strong>Depositional dust</strong></td>
</tr>
<tr>
<td>Farm Dams</td>
<td>Sediment Ponds</td>
<td>Process Water System</td>
<td>Maximum increase in deposited dust level 2 g/m²/month (Annual Average)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Maximum total deposited dust level 4 g/m²/month (Annual Average)</td>
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<td></td>
<td>NPM - on site and off site</td>
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<td></td>
<td></td>
<td></td>
<td>Decommissioned with DECC and DoP approval</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Not required</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Field Chemistry</strong></th>
<th><strong>Process Water System</strong></th>
<th><strong>Underground, Ore Processing Department and other onsite locations</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>pH, Electrical Conductivity, Copper (Cu)</td>
<td>RP1, RP2, RP3, RP4, RP5, RP6, RP7, RP8, RP9, RP10, RP11, RP12, RP3, RP15, RP19, RP20, RP21, RP22, PWD, DT, DD, DM02, SCT, SD1, SD2, Caloola Pit, Escort Pit</td>
<td>SD1, SD2, RP5, RP6, RP7, Grease Trap 2, Decline Sump, E48 Sump, ELA Ext Sump, ELA Sump, CV12 Sump, RP1, RP2, RP3, RP4, PWD, Grease Trap 1, RP13, RP22, RP19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Total suspended particulate</strong></th>
<th><strong>NPM - on site and off site</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total suspended particulate (90 µg/m³ (Annual Average))</td>
<td>ND19, ND20, ND21, ND22, TDN5, TDE, TDE5, TDNE, TDSW, TDSS, TDW</td>
</tr>
<tr>
<td>Particulate Matter</td>
<td>Offsite</td>
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<tr>
<td>--------------------</td>
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</tr>
<tr>
<td>&lt; 10μm (PM10)</td>
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<tr>
<td>Long Term Criterion</td>
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<tr>
<td>30 µg/m³ (Annual Average)</td>
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<tr>
<td>Short Term Criterion</td>
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<tr>
<td>50 µg/m³ (24 hour)</td>
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</tr>
<tr>
<td>Weather station</td>
<td>Rosedale</td>
</tr>
<tr>
<td>Rainfall, wind speed, wind direction, temperature</td>
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</table>