

KALGOORLIE CONSOLIDATED GOLD MINES



FIMISTON GOLD MINE COMPLIANCE ASSESSMENT REPORT

Ministerial Statement No. 188

Ministerial Statement No. 782

1 JANUARY TO 31 DECEMBER 2016

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1 CORPORATE ENDORSEMENT

On behalf of Kalgoorlie Consolidated Gold Mines Pty Ltd, I, Ian Butler (Registered Manager) do hereby confirm that to the best of my knowledge, the information provided within this Compliance Assessment Report are true and correct and address the legal requirements of Ministerial Statement No. 782 and Ministerial Statement No. 188.

Signature :..... *Ian Butler* (Registered Manager)

Date :..... *23/2/17*

2 INTRODUCTION

Kalgoorlie Consolidated Gold Mines Pty Ltd (KCGM) manages the Fimiston Operations, located immediately east of the City of Kalgoorlie-Boulder in the Goldfields Region of Western Australia, approximately 600 km east of Perth. KCGM is the management company of the Kalgoorlie Operations for the Joint Venture Owners; Barrick Australia Pacific Pty Limited (Barrick; 50%) and Newmont Asia Pacific Pty Ltd (Newmont; 50%).

In December 2004 KCGM publicly released its “KCGM Concept Plan” which outlined the proposed final dimensions of the Fimiston Open Pit and options to extend operations beyond the estimated mine life. To continue open pit mining KCGM submitted a Public Environmental Review (PER) in 2006 for assessment by the Environmental Protection Authority (EPA) to undertake the *Fimiston Gold Mine Operations Extension (Stage 3) and Mine Closure Planning* (Project). The Project sought approval for a cutback of the Fimiston Open Pit (the Golden Pike Cutback) and additional areas for waste rock dumps and tailings storage, to extend the life of the mine from 2012 to around 2017.

Following formal assessment of the Project by the EPA (supported by the Office of the Environmental Protection Authority (OEPA)), the Minister for Environment (Minister) issued Ministerial Statement No. 782 (782:M) on the 29 January 2009 approving the Project.

On 5 February 2014 KCGM publically announced plans which will see the operation continue to mine the Fimiston Open Pit until around 2019 and extend the processing life of the mine to around 2029. The extension to processing life is due to the inclusion of low grade stockpiles which were deemed a mining reserve in 2012. During 2015 782:M was amended to accommodate the extended mine life by:

- Removing different options for management of tailings in the description of the proposal;
- Updating the description of the proposal including the 'Proposal Footprint' and 'Mine Development Envelope'; and
- Removal of elements that are not key proposal characteristics relevant to the environment or managed under other legislation.

Compliance against the requirements of 782:M is assessed in this Compliance Assessment Report (CAR) in accordance with 782:M4 *Compliance Reporting*. Also considered in this CAR is the previous Fimiston Operations Ministerial Statement No. 188 *Fimiston Project Stage II – Mine and Waste Dumps (248)* (188:M) published on 24 October 1991.

The following Environmental Management Plans relevant to 188:M and 782:M are assessed in this report:

- Fimiston Air Quality Management Plan (FAQMP);
- Noise and Vibration Monitoring and Management Plan (NVMMP);
- Aboriginal Cultural Heritage Management Plan (ACHMP); and
- Mine Closure Plan (MCP).

3 PURPOSE

In accordance with condition 4-1 of 782:M, a Compliance Assessment Report (CAR) must be submitted to the CEO of the OEPA annually. In December 2010 the OEPA approved the reporting period of the CAR to reflect the calendar year with submission due by February 28 of each year. This CAR covers the period 1 January to 31 December 2016.

Condition 4-3 of 782:M outlines the requirements for the CAR as outlined in Table 1.

Table 1: Requirements for the CAR

REQUIRED INFORMATION	SECTION OF THIS REPORT
1. Be endorsed by signature of the proponent's Chief Executive Officer (CEO) or a person, approved in writing by the CEO, delegated to sign on behalf of the proponent's Chief Executive Officer	Section 1
2. State whether the proponent has complied with each condition and procedure contained in this statement	Appendix A: Ministerial audit table
3. Provide verifiable evidence of compliance with each condition and procedure contained in this statement	Appendix A: Ministerial audit table
4. State whether the proponent has complied with each key action contained in any environmental management plan or program required by this statement	Appendix B: Management Plan audit tables
5. Provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by this statement	Appendix B: Management Plan audit tables
6. Identify all non-compliances and non-conformances and describe the corrective and preventative actions taken in relation to each non-compliance or non-conformance	Section 5
7. Review the effectiveness of all corrective and preventative actions taken; and	Section 5
8. Describe the state of implementation of the proposal.	Section 4

4 PROJECT IMPLEMENTATION STATUS

4.1 Project Milestones

A breakdown of the project implementation is provided in Table 2: Project Milestones.

Table 2: Project Milestones

DATE	MILESTONE	ORGANISATION
2009 January	Ministerial Statement No. 782 published. Bulletin 1273.	Minister for Environment
2009 June	Independent Environmental Auditor appointed.	KCGM
2009 July	Noise Regulation 17 Variation approved. <i>Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009</i> published in the Government Gazette.	Minister for Environment
2009 December	Annual revision, FAQMP (December 2009) submitted to the OEPA.	KCGM
2009 December	Aboriginal Cultural Heritage Management Plan (ACHMP) submitted to the DIA.	KCGM
2010 January	Mining Proposal (REGID 24671) for Golden Pike approved.	DMP
2010 February	ACHMP approved.	DIA
2010 March	Noise Regulation 17 Variation Appeal dismissed.	Minister for Environment
2010 March	Mining of the Golden Pike Cutback commenced.	KCGM
2010 March	2009 Fimiston Operation Annual Environmental Compliance Report submitted to the OEPA.	KCGM
2010 April	KCGM Mine Closure Plan (MCP) submitted to the DMP.	KCGM
2010 September	Written evidence provided to the OEPA to demonstrate that the proposal has substantially commenced.	KCGM
2010 September	Attachment 1 to Ministerial Statement No. 782 - change to proposal approved under section 45C of the EP Act (Clearing for Kaltails tailings storage facility, contingency clearing for infrastructure post Kaltails recommissioning, and inclusion of hydrogen peroxide doxing facility).	OEPA
2010 October	Amended Noise and Vibration Monitoring and Management Programme (NVMMP) submitted to the OEPA and DEC.	KCGM
2010 December	NVMMP approved.	OEPA and DER
2010 December	Request to change the reporting period for the Annual Compliance Report approved.	OEPA
2010 December	Annual revision, FAQMP (December 2010) submitted to the OEPA.	KCGM
2011 March	2010 Annual Audit Compliance Report submitted to the OEPA.	KCGM
2011 April	18 Month Auditing Report submitted to the Minister for Environment.	Keith Lindbeck and Associates

DATE	MILESTONE	ORGANISATION
2011 May	Submission made to the DER on the Proposed Environmental Protection (Noise) Amendment Regulations – Regulation 11 – Airblast Limits.	KCGM
2011 June	Recommendation by the Minister for Environment that the Independent Auditor conduct two additional audits (4 and 5) to cover period until September 2011.	Minister for Environment
2011 July	Unrestricted (24/7) mining commenced in Golden Pike.	KCGM
2011 August	Independent Auditor undertakes to complete two additional audit periods.	Keith Lindbeck and Associates
2011 August	Construction of North East Waste Rock Dumps commenced.	KCGM
2011 October	Deposition of tailings to Kaltails TSF commenced.	KCGM
2012 February	Annual revision, FAQMP (December 2011) submitted to the OEPA.	KCGM
2012 March	4th Independent Environmental Auditor Report presented to the Community Reference Group. No non-compliances sighted.	Keith Lindbeck and Associates
2012 April	2011 Annual Audit Compliance Report submitted to the OEPA.	KCGM
2012 April	2012 MCP was submitted.	KCGM
2012 May	Feedback received on 2012 MCP.	DMP
2012 May	5 th and final Independent Environmental Auditor Report presented to the Community Reference Group. No non-compliances sighted.	Keith Lindbeck and Associates
2012 June	Response submitted to DMP on 2012 MCP.	KCGM
2012 August	Recommendation made that no further audit periods be required for Ministerial Statement No. 782 and that Ministerial Conditions 5-3 and 5-4 are classified as “Completed” under the OEPA audit classification system.	Keith Lindbeck and Associates
2012 August	Confirmation received from the OEPA that the requirements of conditions 5-3 and 5-4 had been satisfied and auditing is no longer required.	OEPA
2012 September	Meeting held with DMP to discuss 2012 MCP primarily to discuss the provision of additional geotechnical information.	DMP
2012 October	Annual revision, FAQMP (October 2012) submitted to the OEPA.	KCGM
2012 December	A revised version of the 2012 MCP was submitted providing additional information as requested by stakeholders.	KCGM
2012 December	Meeting held with the OEPA, DER and DoH to discuss outstanding matters relating to the review of the FAQMP.	KCGM
2013 March	KCGM advised by letter that the OEPA considers that non-compliances with Condition 9-3 (airblast levels) and 9-5 (vibration limits) of Ministerial Statement No. 782 occurred in 2012.	OEPA
2013 February	2012 Annual Audit Compliance Report submitted to the OEPA.	KCGM

DATE	MILESTONE	ORGANISATION
2013 May	KCGM requested that the OEPA consider a change to a 3 yearly submission cycle for the MCP to be consistent with tenement conditions.	KCGM
2013 June	Additional information relating to airblast and vibration non-compliances submitted as requested by OEPA in March 2013.	KCGM
2013 June	KCGM applies for a further approval under regulation 17 in relation to the Fimiston Gold Mine in accordance with Condition 4(2) of the <i>Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009</i> .	Minister
2013 July	Attachment 2 to Ministerial Statement No. 782 – change to proposal approved under section 46C of the EP Act (replacement of Condition 11-3, associated with review of the Rehabilitation and Closure Management Plan every three years).	OEPA
2013 July	Notification received from the OEPA that a 3 yearly submission cycle for the MCP is approved.	OEPA
2013 August	The FAQMP (October 2012) and additional documents were reviewed by the OEPA and considered to satisfy Ministerial Conditions 7-1, 7-2 and 7-3.	OEPA, DER, DoH
2013 August	Correspondence received approving a change in the timeframe for resubmission of the FAQMP from annual to every three years with the next submission due in October 2015.	OEPA
2013 October	Desktop Audit of Ministerial Statement No. 782 conducted by the OEPA. KCGM in compliance with the statement.	OEPA
2013 October	Response received from the OEPA that the non-compliances with Condition 9-3 (airblast levels) and 9-5 (vibration limits) have been resolved.	OEPA
2013 November	Revised 2012 MCP approved by the stakeholders. OEPA now lead agency for closure coordination.	OEPA
2014 February	KCGM announced plans that will see the operation continue to process gold until around 2029, extending open pit mining until 2019 and the mineral processing life of the mine by eight years.	KCGM
2014 February	2013 Annual Audit Compliance Report for Ministerial Statement No. 782 submitted to the OEPA.	KCGM
2014 March	The <i>Environmental Protection (Noise) Amendment Regulations 2013</i> came into effect on 6 March 2014. A key amendment was a reduction in airblast levels under Regulation 11 which could adversely impact on impact KCGM operations. KCGM lodged an application for approval to allow the emission of airblast to vary from the standards specified in Regulation 11, requesting that airblast levels remain at those previously set for the operation.	DER
2014 March	KCGM celebrates 25 years of operations.	KCGM
2014 August	Change of Proposal to Ministerial Statement No. 782 submitted for Fimiston II TSF Embankment Height Increase (45-60m).	OEPA

DATE	MILESTONE	ORGANISATION
2014 December	KCGM met with OEPA to discuss amendments to Ministerial Statement No. 782 (Key characteristics table)	OEPA
2015 March	2014 Annual Audit Compliance Report for Ministerial Statement No. 782 submitted to the OEPA (extension granted).	KCGM
2015 March	Triennial revision, Mine Closure Plan (March 2015) submitted to the OEPA.	KCGM
2015 April	The first 5 Year Performance Report for the Fimiston Operations (Ministerial Statement No. 782) is submitted to the OEPA.	KCGM
2015 June	Attachment 3 to 782:M - change to proposal approved under section 45C of the EP Act (removal of different options for management of tailings, updating the description of the proposal and removal of elements that are not key proposal characteristics).	OEPA
2015 November	Mine Closure Plan (March 2015) approved.	OEPA
2015 December	Triennial revision, FAQMP (December 2015) submitted to the OEPA.	KCGM
2016 February	2015 Annual Audit Compliance Report submitted to the OEPA.	KCGM
2016 March	Noise Regulation 17 Variation approved. <i>Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016</i> published in the Government Gazette.	DER
2016 May	Mining Proposal for the Eastern WRD Extension (REGID 59160) approved following advice from the OEPA regarding modification of the disturbance footprint.	DMP
2016 June	KCGM advised the OEPA that two blasts, within ten consecutive blasts, recorded a vibration greater than 5 mm/s	KCGM
2016 June	2016 revision of the NVMMP (June 2016) submitted to the OEPA and DER.	OEPA/DER
2016 June	FAQMP (December 2015) approved by the OEPA. Next revision due June 2019.	OEPA
2016 August	The OEPA considers the non-compliance with Condition 9-5 (vibration limits) to be resolved and no further action by KCGM is required in relation to this matter.	OEPA
2016 September	NVMMP (June 2016) approved by DER.	DER
2016 November	NVMMP (June 2016) approved by OEPA.	OEPA
2016 November	Desktop Audit of Ministerial Statement No. 782 conducted by the OEPA, which determined that KCGM is in compliance with the Statement.	OEPA

4.2 Key Statement Amendments

Table 3: Key Amendments to Ministerial Statement No. 782

DATE	CHANGE	APPROVAL PROCESS
2009 January	Fimiston Gold Mine Operations Extension (Stage 3) and Mine Closure Planning PER approved.	Proposal assessment and publication of Ministerial Statement No. 782.
2010 September	Change to Proposal: Kaltails Clearing - Clearing for Kaltails tailings storage facility, contingency clearing for infrastructure post Kaltails recommissioning, and inclusion of hydrogen peroxide dosing facility.	Section 45C of the EP Act (Attachment 1).
2012 August	Notice of Change to Implementation Conditions – Fimiston Air Quality Management Plan: Approval given for the submission of the FAQMP to increase from a 12 month interval (Annual) to a 36 month interval (3 Yearly), unless otherwise required.	Approved by letter from the OEPA.
2013 July	Notice of Changes to Implementation Conditions: Mine Closure Plan Submission: The proponent shall review the Mine Closure Plan required by condition 11-1 every three years (<i>increase from every two to every three years</i>).	Section 46C of the EP Act (Attachment 2).
2015 July	Change to Proposal: Fimiston II Embankment Raise (40-65m): • Remove different options for management of tailings in the description of the proposal; • Update description of the proposal including the 'Proposal footprint' and 'Mine Development Envelope'; and • Removal of elements that are not key proposal characteristics relevant to the environment or managed under other legislation.	Section 45C of the EP Act (Attachment 3).
2016 May	Modification of the Disturbance Footprint: The Disturbance Footprint was changed to accommodate changes to Waste Rock Dump locations.	Approved by letter from the OEPA.

4.3 Five Year Performance Report

Condition 5-1 of 782:M requires that the proponent shall submit a Performance Review Report every five years after the start of mining activities' forming part of the expanded and revised proposal to the Environmental Protection Authority which addresses:

- the major environmental issues associated with implementing the project; the environmental objectives for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those objectives;
- the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable;
- significant improvements gained in environmental management, including the use of external peer reviews;
- stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and
- the proposed environmental objectives over the next five years, including improvements in technology and management processes.

The first 5 Year Performance Report prepared for 782:M covered the period January 2010 to December 2014 and was submitted to the OEPA on the 30 April 2015. Copies of the report are publically available on the KCGM website (www.superpit.com.au).

The next 5 Year Performance Report will cover the calendar year periods from 2015 to 2019.

4.4 Operational Areas

On 8 April 2016 KCGM sought confirmation from the OEPA to modify the Disturbance Footprint to accommodate changes to Waste Rock Dump locations. The OEPA advised in a letter dated 11 May 2016 that the modification is in accordance with Table 2 of Attachment 3 to 782:M, provided that the modifications do not result in clearing of more than 2,760 ha within the Mine Development Envelope.

Following confirmation from the OEPA, KCGM submitted a Mining Proposal to the DMP on 15 April 2016 for approval of the Eastern Waste Dump Extension. The Mining Proposal was approved by the DMP on 9 May 2016.

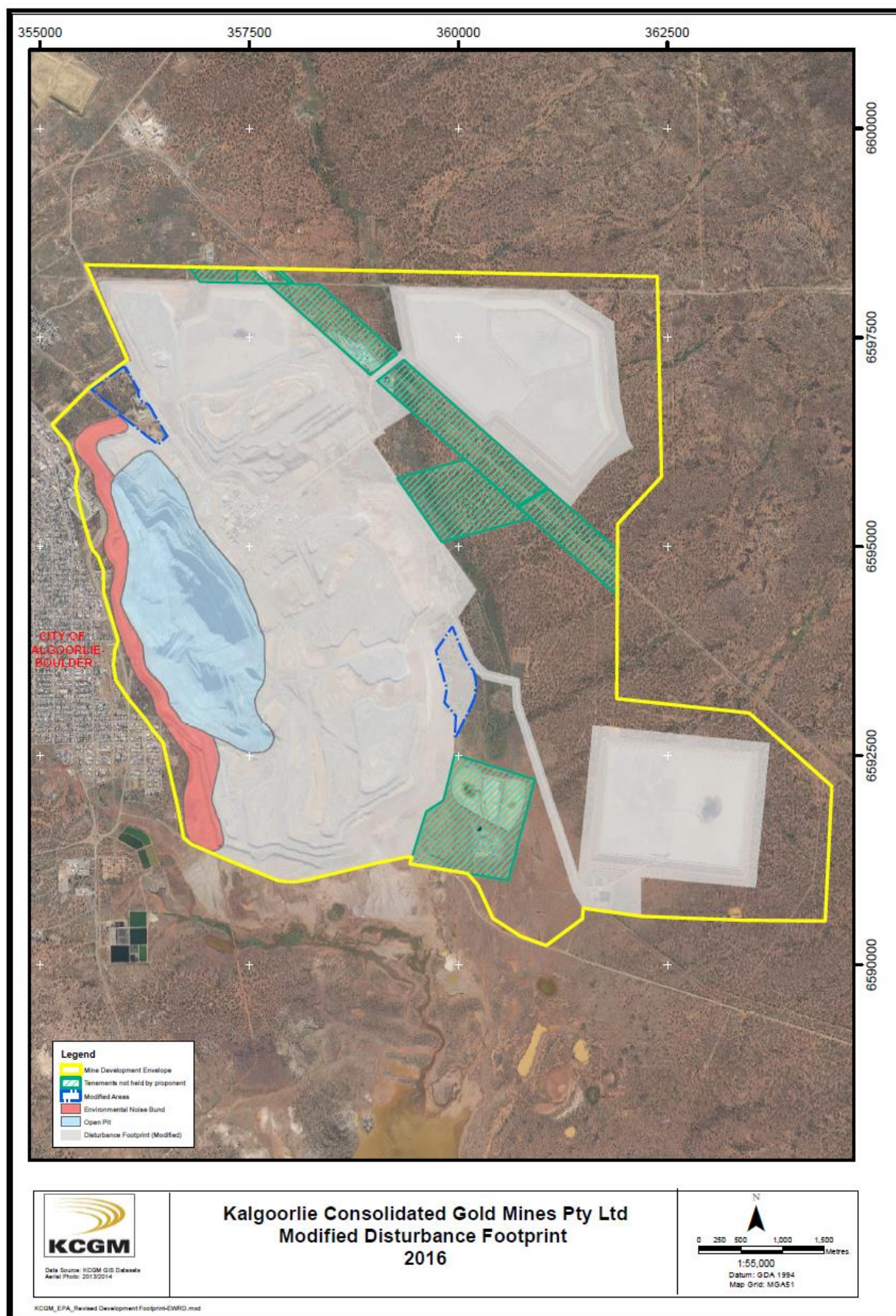


Figure 1: Map of the Modified Disturbance Footprint

5 COMPLIANCE

5.1 Non – Compliances

Appendix A of this report is the KCGM Ministerial Audit Table (based on the OEPA format) which assesses compliance against 188:M and 782:M. There were no non-compliances identified against 188:M, and one non-compliance identified against 782:M during the reporting period. The non-compliance is summarised below.

782:M9.6 (3) – More than one in ten consecutive blasts exceeding 5 mm/s

On the 4 June 2016 KCGM notified the OEPA that two elevated vibration readings greater than 5 mm/s peak particle velocity were recorded at the Bravo monitoring site following two consecutive blasts in the Fimiston Open Pit on the 31 May 2016 (5.73 mm/s) and 02 June 2016 (7.28 mm/s).

A review of the blast event which occurred on 31 May 2016 has identified the following:

- This blast was the first blast for the bench, termed a 'drop cut'. These blasts are 100% confined, meaning all sides are adjacent to unbroken (solid) rock, and it is not unusual for vibration levels to be elevated as a result of these blasts. Blast modelling was undertaken using parameters for the NONEL initiation system and returned a modelled vibration level of 4.71 mm/s which included an additional 30% vibration factor of safety added for drop cuts.
- Based on vibration results from previous drop cut blasts (<5 mm/s), the modelled vibration level was considered to be acceptable. The review has identified that the elevated vibration level was likely due to the use of the NONEL initiation system and had the IKON initiation system been used the vibration level could have been reduced. Note: IKON is an electronic detonation system used by KCGM to achieve precise single hole firing with zero scatter to minimise the Maximum Instantaneous Charge (MIC) resulting in reduced vibration levels.

The following mitigation measures have been identified and implemented:

- All future drop cuts will utilise the IKON initiation system to ensure vibration levels are reduced as far as reasonably practical.

A review of the blast event which occurred on 02 June 2016 has identified the following:

- The blast area contained a section of the Hainault Fault which requires the blast design to include the use of the IKON initiation system to minimise vibration levels in areas known to contain faults. Blast modelling was undertaken and returned a modelled vibration level of 3.4 mm/s; which is within KCGM's acceptable design requirements.
- In accordance with standard practice the direction of the blast was designed to fire from south to north. Because this blast was the second bench shot following the drop cut, the point of initiation (POI) was located adjacent to unbroken (solid) rock. This 'confinement' may have affected the energy dissipation of the blast and led to increased vibration and hence a north to south blast design would have been more appropriate.

- Additionally, in accordance with standard practice, the blast was designed in relation to the ore blocks. However the location of the POI meant the tie-in design ran parallel with the Hainault Fault enabling the blast energy to traverse along the fault line which may have further increased the vibration levels. It is KCGM's preference to design the tie-in perpendicular to known fault lines to minimise vibration levels, which did not occur on this occasion.

Upon review of this event it has been identified that there is opportunity for the blast design to undergo secondary review for confirmation of the placement of the POI and the direction of firing, including in relation to the known fault zones, to ensure the appropriate blast plan to eliminate a repeat of this event.

The following mitigation measures have been identified and implemented:

- The Senior Drill and Blast Engineer will review and approve the "tie-in design" (including the location of the POI) for all blasts that are inside the 1 in 10 consecutive blast window. The approval will be recorded utilising the "1 in 10 Blast Form" which has been updated to include a "Blast Design Approved" column for sign off of each blast that is inside the 1 in 10 consecutive blast window. Note: KCGM implemented the "1 in 10 Blast Form" following elevated vibration events in 2012.
- A hardcopy printout of the tie-in design (showing POI and timing contours) for shots designed using the IKON initiation system will be provided to the Blast Crew. This will enable the Blast Crew to perform a visual check of the POI and the direction/angle of firing during blast preparation. Note: This process is already in place for shots designed using the NONEL initiation system as they require manual tie-in.

KCGM has implemented the corrective mitigation measures identified above and will continue to implement mitigation measures identified from previous events.

In a letter dated 31 August 2016, the OEPA considers the non-compliance to be resolved and no further action by KCGM is required in relation to this matter.

5.2 Non - Conformances

Appendix B of this report contains the KCGM Environmental Management Plan Audit Tables which assesses conformance against Environmental Management Plans relevant to 188:M and 782:M. There were no non-conformances recorded against 188:M or 782:M during the reporting period.

5.3 External Audits

The Department of Environment Regulation (DER) conducted the Annual Licence Compliance Inspection for the Fimiston premises on 28 April 2016. The purpose of the inspection was to assess the environmental controls in place to manage and mitigate environmental impacts. The Compliance Inspection Report for the Fimiston Premises was received by KCGM on 31 October 2016. No licence breaches were noted in the report.

In a letter dated 28 November 2016, KCGM were notified that a Desktop Audit of 782:M was conducted by the OEPA to verify KCGM's compliance with the implementation conditions of Ministerial Statement No. 782. The Desktop Audit determined that KCGM is in compliance with Ministerial Statement No. 782.

5.4 Environmental Management Plans

Fimiston Air Quality Management Plan (FAQMP)

The FAQMP was initially developed by KCGM to integrate a number of management plans that covered various air quality aspects of the Fimiston Operations. The FAQMP was implemented in May 2009 in accordance with 782:M7.1.

Initially the FAQMP required review on an annual basis, however this was amended to a three yearly revision cycle following approval of the 2012 FAQMP by the OEPA on 14 August 2013. The most recent revision of the FAQMP was submitted to the relevant government agencies on 23 December 2015, and was approved by the OEPA on 29 June 2016.

Noise and Vibration Monitoring and Management Plan (NVMMP)

The NVMMP was initially revised in accordance with 782:M9.6 and submitted to the DER in August 2009. However due to an appeal against the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009*, approval of the NVMMP was delayed whilst the appeal was determined. An Appeals Committee was appointed and their report was submitted for review by the Minister. Whilst the Minister dismissed the appeal in March 2010 two recommendations were made by the Appeals Committee and required inclusion in the NVMMP. KCGM submitted a revised NVMMP to the OEPA in October 2010 which was subsequently approved on 6 December 2010.

The NVMMP was updated during the reporting period following gazettal of the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016* in March 2016. The revised the NVMMP (June 2016) was submitted to the DER and the OEPA on 22 June 2016, and was approved by the DER on 19 September 2016 and the OEPA on 1 November 2016.

Aboriginal Cultural Heritage Management Plan (ACHMP)

In accordance with 782:M6, KCGM developed the ACHMP in consultation with the then Department of Indigenous Affairs (DIA). The plan includes the protocols and procedures for the appropriate management of any Aboriginal sites or skeletal remains identified during proposed works. The ACHMP was approved by the DIA on 8 February 2010.

No amendments were made to the ACHMP during the reporting period.

Mine Closure Plan (MCP)

The OEPA is the nominated lead agency for coordinating the MCP approval process, with certain items of the MCP administered by other agencies as appropriate. KCGM has developed a MCP in accordance with 782:M11 with the first submission made on 14 April 2010.

During 2012, the MCP was reviewed and updated in accordance with the Guidelines for Preparing Mine Closure Plans (Department of Mines and Petroleum and Environmental Protection Authority, 2011). KCGM's second update of the MCP was submitted to the relevant government authorities on 30 April 2012. Feedback was received from the DMP via correspondence dated 16 May 2012 requesting further information which KCGM responded to on 12 June 2012. Further feedback was received from the DMP during a meeting held on 21 September 2012.



This feedback related primarily to providing additional geotechnical information, specifically for the Mt Charlotte and Mt Percy areas. This information was provided to the DMP in a revised version of the Closure Plan in December 2012. KCGM received correspondence from the OEPA on 4 November 2013 approving the 2012 MCP.

On the 22 May 2013 KCGM requested that an administrative change be made to the implementation of 782:M11.3; namely that the submission cycles of the KCGM MCP be altered from a 2 yearly cycle to a 3 yearly cycle to avoid conflicting legal requirements. The OEPA responded to the request in July 2013 approving the 3 yearly submission cycles.

The MCP was reviewed and submitted to the OEPA in March 2015 and subsequently approved on 19 November 2015.

No amendments were made to the 2015 MCP during the reporting period.

5.5 Complaints Register

KCGM has a 24-hour PIL (established in 1993) which is available for anyone to contact KCGM for a wide range of issues including emergencies, complaints, inquiries and feedback. It is a particularly important avenue for capturing those issues which require follow up and action. The PIL is promoted regularly in print and radio advertising, radio interviews, online mediums (KCGM website) and printed materials (Information Sheets).

During business hours, PIL enquiries are referred immediately to the relevant department supervisor for appropriate action. Incoming calls received outside office business hours may be forwarded to the shift supervisor for immediate action or where appropriate will be followed up the next working day. Once an internal review has been completed, the caller is informed of actions taken or outcomes of their enquiry or complaint. KCGM responds to all people who contact the PIL (who provide contact details) either by phone, in writing or in some cases meetings.

The PIL incorporates an electronic database used to record all interactions with stakeholders at both formal and informal meetings and is a very effective tool for analysing and tracking issues and impacts which are of concern to the community. A summary of the interactions registered with the PIL is reviewed each month by KCGM management, Joint Venture Owners Newmont and Barrick and the Community Reference Group.

During the reporting period there was a total of five complaints received relating to environmental aspects of the Fimiston Operations. Of these complaints, three related to blasting, and two related to dust. There were no complaints related to noise received during the reporting period. Figure 2 shows the number of complaints received for each environmental aspect during the 2014, 2015 and 2016 reporting periods.

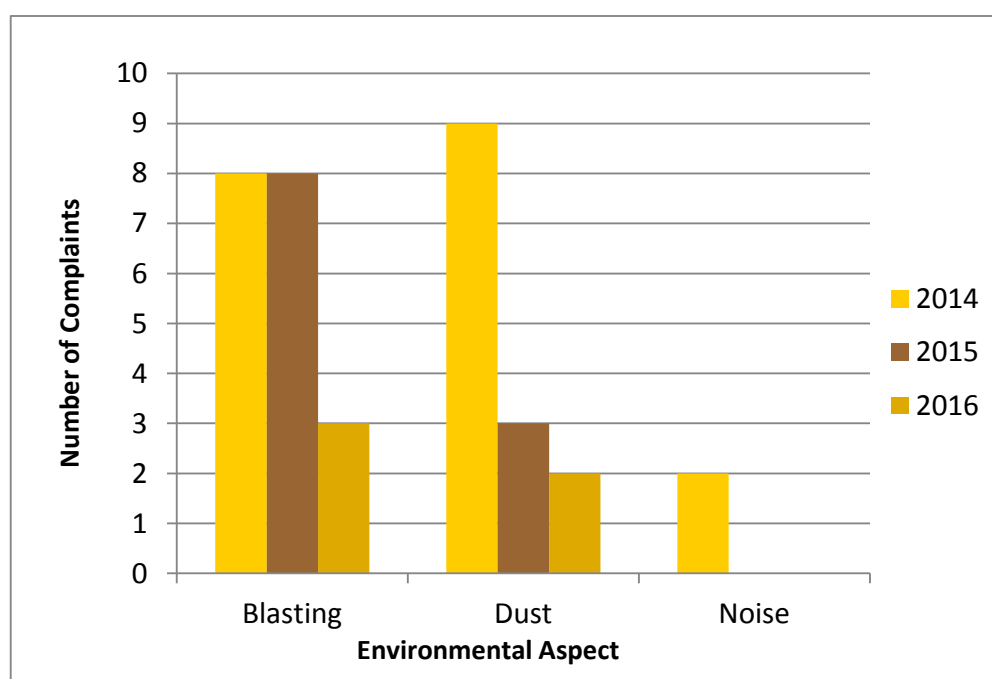


Figure 2: Complaints Relating to Environmental Aspects of the Fimiston Operations

A summary of each complaint received during the reporting period regarding environmental aspects of the Fimiston Operations is provided in Table 4.

Table 4: Fimiston Operations Complaint Summary 2016

COMPLAINT CATEGORY	DATE	SUMMARY OF COMPLAINT and KCGM COMMENT
Dust	4-Jan-2016	Complaint from a Boulder resident regarding dust after an open pit blast. Monitoring data showed that there was no significant increase of dust recorded and all levels were within limits. KCGM increased the volume of water used in pre-blast watering to control dust. Feedback was provided to the complainant.
Blasting	13-Jan-2016	The DMP received a complaint from a local resident regarding vibration from an open pit blast. A review of the blast monitoring data confirmed vibration levels were below regulatory limits. A response was prepared and provided to the DMP.
Blasting	12-April-2016	Complaint from a Boulder resident regarding blast vibration and alleged property damage. The complainant was supplied with Property Inspection Application information. Several contact attempts were made by KCGM to follow up with the resident; however no response was received.
Blasting	20-July-2016	Complaint from a local resident regarding an open pit blast that allegedly caused the glass in a door to shatter (which occurred two weeks prior to the complainant contacting KCGM). The complainant was asked to provide KCGM with further details; however no information was received.
Dust	23-Nov-2016	Complaint from a local resident regarding dust coming from the Open Pit. Monitoring data did not show increased dust levels. The City of Kalgoorlie Boulder was conducting works in the area, which appeared to be the source of the dust. KCGM asked the resident to monitor and advise specific times of dust occurring. The External Relations Superintendent and Environmental Superintendent visited the resident, which was well received.

6 ENVIRONMENTAL MONITORING

6.1 Dust Monitoring

KCGM conducts dust monitoring as specified within the Dust Monitoring and Management Programme (DMMP) which was developed and implemented by KCGM in accordance with conditions set by the Minister for Environment in the early 1990's. The first version of the DMMP was developed in 1993 to meet the requirements of 188:M5. The DMMP was subsequently revised in 2001 to reflect blasting dust monitoring and management changes and again in 2004 to meet the requirements of the Southern Landform Extension Project.

In 2007 the DMMP was incorporated into the FAQMP (refer to Section 5.4). The objective of the DMMP is to ensure 24-hour average PM₁₀ concentrations resulting from the Fimiston Operations (as summarised in Table 5) are less than the Ambient Air Quality National Environmental Protection Measure 24-hour average PM₁₀ Standard of 50 µg/m³ (NEPM PM₁₀ Standard) at the monitoring sites.

Table 5: Dust Monitoring Programme

SITE ID	SAMPLING FREQUENCY	PARAMETER	APPLICABLE STANDARDS OR LIMITS
HEW CLY HOP BSY MEX MTC	5-minute averages	PM ₁₀	NEPM PM ₁₀ Standard
HGC (Control Site)			

During the reporting period until 16 June 2016 all measurements above the NEPM PM₁₀ Standard were reported to the DER and DoH in accordance with the FAQMP (December 2012) and where KCGM was identified as a significant contributor, were also reported to the OEPA (in accordance with advice received from the OEPA on 20 October 2014). Since 16 June 2016 only measurements above the NEPM PM₁₀ Standard where KCGM was identified as a significant contributor were reported to the DER, DoH and OEPA in accordance with the revised FAQMP (December 2015).

A key performance target of the FAQMP includes not more than five events above the NEPM PM₁₀ Standard at any dust monitoring site per annum where KCGM is a significant contributor. During 2016, KCGM was a significant contributor on two occasions at BSY, four at CLY, and five at HOP, demonstrating compliance with the FAQMP objective and target.

A summary of the PM₁₀ dust monitoring results above the NEPM PM₁₀ Standard are listed in Table 6.

Table 6: Dust Monitoring Events Above the NEPM PM₁₀ Standard

DATE	SITE ID	PM ₁₀ 24-hour average (µg/m ³)	CONTRIBUTION FROM KCGM WIND ARC (%)	COMMENT	KCGM Operations Significant Contributor (YES/NO)
10-Feb-16	CLY	50.6	87.6	Elevated dust concentrations were associated with north-easterly winds and hot dry conditions.	Yes
	HOP	53.9	88.4		Yes
18-Feb-16	HOP	51.2	100.0	Elevated dust concentrations were associated with strong east-south-easterly to south-easterly winds.	Yes
21-May-16	HEW	51.1	0.0	Elevated dust concentrations were associated with strong north-westerly winds and hot/dry conditions.	No
	CLY	61.1	0.2		
01-Jul-16	HGC	77.5	13.8	Elevated dust concentrations between 0500 and 0800 hours likely to be a result of smoke from local wood fire heaters.	No
17-Aug-16	BSY	51.1	13.8	Elevated dust concentrations were associated with north-westerly winds.	No
	HEW	71.2	3.6		
	CLY	103.8	5.8		
	MTC	72.6	0.2		
1-Oct-16	BSY	51.6	0.0	Elevated dust concentrations were associated with west-north-westerly winds.	No
	HEW	61.8	0.0		
	MEX	53.4	0.0		
	MTC	50.1	0.0		
13-Oct-16	BSY	50.8	82.0	Elevated dust concentrations were measured during light to moderate northerly and north-easterly winds. No definitive source could be identified.	Yes
	HOP	67.1	83.1		
03-Nov-16	CLY	56.5	65.4	Two periods of elevated dust concentrations were measured; the first associated with moderately high wind speeds and east to north-east wind directions, which suggest KCGM's general mining and crushing operations were the source. The second period of elevated dust concentrations was associated with northerly wind directions and low wind speeds, and it is unlikely that KCGM contributed to these elevated PM ₁₀ concentrations.	Yes
06-Nov-16	BSY	52.3	10.2	Elevated dust concentrations were associated with hot dry conditions and strong wind speed. There was with high variability in wind direction throughout the day, however wind direction during periods of elevated dust concentrations were not within the KCGM arc.	No
	HEW	50.5	16.6		
	CLY	66.7	24.8		
	HOP	54.8	25.6		

DATE	SITE ID	PM ₁₀ 24-hour average (µg/m ³)	CONTRIBUTION FROM KCGM WIND ARC (%)	COMMENT	KCGM Operations Significant Contributor (YES/NO)
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14-Nov-16	CLY	61.9	100.0	PM ₁₀ dust concentrations were relatively elevated throughout the day with a period of increased PM ₁₀ dust concentrations recorded during night shift, when only one water cart was available. Considering the prevailing easterly to north-easterly wind direction and the limited availability of dust suppression, it is likely KCGM's operations significantly contributed to the elevated PM ₁₀ concentrations.	Yes
	HOP	73.0	100.0		
15-Nov-16	BSY	54.2	99.6	Considering the prevailing north-easterly wind direction during the period of elevated PM ₁₀ dust concentrations, it is likely that KCGM was a significant contributor. However, it was noted that particularly at the CLY and HOP monitoring stations, dust from sources other than the Fimiston Operations were also likely contributors to elevated PM ₁₀ measurements.	Yes
	CLY	125.0	99.1		
	HOP	92.8	100.0		
16-Nov-16	HOP	50.7	47.1	Several elevated spikes were recorded at HOP throughout the day. Wind direction was variable and ranged from easterly to north-westerly. It is likely that KCGM contributed to a portion of the elevated PM ₁₀ dust concentrations; however it is unlikely that the contribution from KCGM was significant.	No
27-Nov-16	BSY	52.8	45.0	All monitoring sites recorded significantly elevated dust concentrations between 1900 and 2000, during erratic wind directions and high wind speeds. Elevated dust concentrations were likely due to dust from a regional storm.	No

6.2 Noise Monitoring

KCGM conducts environmental noise monitoring in accordance with Conditions 8(1) and 8(2) of the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016*. Monitoring programmes for both continuous and compliance noise monitoring are specified within the NVMMP (refer to Section 5.4); these requirements are summarised in Table 7.

The following changes were made to the monitoring sites in accordance with the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016*:

- KTS was replaced with MEP as a continuous noise monitoring site;
- OUT was renamed to OSB;
- YST was renamed to YSB; and
- MEX was renamed to MEP.

Table 7: Noise Monitoring Criteria

MONITORING PROGRAMME	SITE ID	SAMPLING FREQUENCY	PARAMETER	APPLICABLE STANDARDS OR LIMITS		
Continuous	KTS BPS	One hour averages calculated from continuous monitoring	L _{A 10} L _{A 50} L _{A max}	Nil		
	MEP	5 minute averages calculated from continuous monitoring	L _{eq}	Nil		
Compliance	BSW BPS KTS OSB YSB	Minimum 15 minute sample measured each quarter during night time period	L _{A 10} L _{A max}	Night Time Period		
				Location	L _{A10}	LA max
				BSW	45 + WIF	55 + WIF
				BPS	45 + WIF	52 + WIF
				KTS	45 + WIF	52 + WIF
				OUT	49 + WIF	60 + WIF
				YST	49 + WIF	60 + WIF
WIF: Weather Influencing Factor						

Continuous Environmental Noise Monitoring

Since 1993, continuous noise monitoring, as far as practical, has been conducted at the Kalgoorlie Technical School (KTS) and Boulder Primary School (BPS). In accordance with the *Environmental Protection (Fimiston Gold Mine Noise Emissions Approval 2016)* KTS was replaced by Metals Exploration Premises (MEP) as a continuous noise monitoring site. Continuous noise data was recorded at KTS until 30 June 2016; and the site decommissioned thereafter.

The MEP monitoring site was installed in October 2011 to provide publicly available real time noise monitoring data. The data is updated every 15 minutes and is available from the KCGM website (www.superpit.com.au).

During the reporting period continuous noise monitoring was conducted in accordance with the NVMMP.

Compliance Environmental Noise Monitoring

Compliance environmental noise monitoring was implemented in August 2009 and is undertaken each quarter at five reference locations, as stipulated in the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016*. Monitoring is completed by specialist noise consultants using a manned sound level meter to determine compliance against the noise level standards set in the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016*.

During the reporting period compliance monitoring was undertaken during the night time period on the following dates:

- 9 – 14 March 2016;
- 22 – 26 May 2016;
- 5 – 7 September 2016; and
- 7 – 9 November 2016.

During the reporting period the measured noise levels at all reference locations complied with the approved noise levels for the night time period. Results of continuous noise monitoring and compliance noise monitoring are included in the Quarterly Noise and Blast Monitoring Reports submitted to the OEPA as required under the NVMMP. The Q1, Q2, Q3 and Q4 reports were submitted to the OEPA on 12 May 2016, 11 August 2016, 3 November 2016, and 6 February 2017 respectively.

Noise Regulation 17 Variation

In 2009, KCGM was granted a noise variation under the *Environmental Protection (Noise) Regulations 1997* Regulation 17(7). This variation was gazetted on 14 July 2009 as the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009*. The 2009 Approval was valid for 5 years until 13 July 2014 unless KCGM applied for a further approval within the first four years. Accordingly, on 21 June 2013 KCGM re-applied for a Noise Regulation 17 Variation (NR17V) which the Minister referred to the DER on the 22 July 2013 for assessment.

The DER's assessment was completed over a two year period and included KCGM providing additional supporting information (November 2013), answering several queries relating to KCGM's haul truck fleet (November 2014), and the updating of "Schedule 1 – Fimiston Gold Mine Location Plan" based on DER feedback (March 2015).

In May 2015, the DER provided a draft assessment report "Noise Regulation 17 Application for Fimiston Gold Mine" for review by KCGM. After liaising with the DER on suggested amendments to the report, a final assessment report was prepared 01 July 2015.

A copy of the NR17V approval note was reviewed by KCGM and the DER were advised on the 10 December 2015. The NR17V was approved by the Minister and the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016* was published in the Government Gazette on 22 March 2016. No appeals were lodged against the approval.

6.3 Blast Monitoring

Permanent blast monitoring sites for the Fimiston Open Pit were established by KCGM in 1993 as part of the NVMMP. Ground vibration and airblast are monitored using Advanced Texcel remote blast monitor (ETM) equipment. There are six monitors permanently installed at sites between the Fimiston Open Pit and the City of Kalgoorlie-Boulder.

Recording of a blast is triggered by ground vibration exceeding the set trigger level of 0.5 mm/s. The trigger level is an internal level set well below the applicable standards and regulations in order to track blast vibration patterns and trends.

KCGM's blast monitoring programme is specified within the NVMMP (refer to Section 5.4), in accordance with 782:M9; these requirements are summarised in Table 8.

Table 8: Blast Monitoring Criteria - Vibration

SITE ID	SAMPLING FREQUENCY	APPLICABLE STANDARDS OR LIMITS
Alpha Bravo Charlie Delta Echo Foxtrot	Each blast	Shall not exceed 5 mm/s for 90% of blasts per year Shall not to exceed 10 mm/s for any blast No more than one in ten consecutive blasts shall exceed 5 mm/s

Table 9: Blast Monitoring Criteria - Airblast

SITE ID	SAMPLING FREQUENCY	TIME OF DAY	APPLICABLE STANDARDS OR LIMITS
Alpha	Each blast	0700 to 1800 hours Any Day	No blast greater than 120 dB L _{Z peak} 9 in any 10 consecutive blasts less than 115 dB L _{Z peak}
Bravo Charlie Delta	Each blast	0700 to 1800 hours Monday to Saturday (excluding public holidays)	No blast greater than 125 dB L _{Z peak} 9 in any 10 consecutive blasts less than 120 dB L _{Z peak}
		0700 to 1800 hours Sunday and public holidays	No blast greater than 120 dB L _{Z peak} 9 in any 10 consecutive blasts less than 115 dB L _{Z peak}
Echo Foxtrot	Each blast	0700 to 1800 hours Any Day	No blast greater than 125 dB L _{Z peak} 9 in any 10 consecutive blasts less than 120 dB L _{Z peak}
Alpha Bravo Charlie Delta Echo Foxtrot	Each blast	1800 to 0700 hours	No blast greater than 90 dB L _{Z peak}

For the reporting period KCGM can confirm that:

- All blasts were detonated on the premises between 0700 hours and 1800 hours;
- No blasts were detonated outside the requirements under 782:M7.4 and 9.1;
- All reasonable effort was taken to avoid blasting on Sundays.

There was one non-compliance event during the reporting period where more than one in ten consecutive blasts recorded a vibration level greater than 5 mm/s. See Section 5.1 for details of this event.

For further information please refer to the Quarterly Noise and Blast reports, which were submitted to the OEPA on 12 May 2016, 11 August 2016, 3 November 2016, and 6 February 2017 respectively.

Amendments to the *Environmental Protection (Noise) Regulations 1997* (Airblast Levels)

Amendments to the *Environmental Protection (Noise) Regulations 1997* were gazetted on 5 December 2013. One of the key amendments which impacted KCGM was a reduction in airblast levels under Regulation 11, which became effective on 6 March 2014.



KCGM submitted an application on 6 March 2014 for approval to allow the emission of airblast as a result of blasting in the Fimiston Open Pit to vary from the standards specified in Regulation 11. The application is for the existing KCGM Fimiston Operations and that airblast levels at sensitive site blast monitoring locations remain at those previously set for this operation (i.e. no blast greater than 125 dB and levels for 9 in any 10 consecutive blasts not greater than 120 dB).

In April 2014, the Minister referred the application to the DER for assessment.

In December 2015 the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2015* was finalised by the DER following feedback from KCGM.

In March 2016 KCGM's *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016* was gazetted (published in the Government Gazette) allowing airblast levels to vary from the Environmental Protection (Noise) Regulations 1997 (WA) at monitoring sites Bravo, Charlie and Delta.

7 STAKEHOLDER CONSULTATION

KCGM's proximity to the City of Kalgoorlie-Boulder means that community consideration is a priority and so KCGM conducts its operations in a manner to minimise potential impacts. KCGM has an established stakeholder engagement network and utilises a range of mechanisms to facilitate consultation and capture input from the Kalgoorlie-Boulder Community on an ongoing basis.

Key relevant government agency consultation is listed below in Table 10 and non-government agency consultation is listed in Table 11.

Table 10: Government Agency Stakeholder Consultation

GOVERNMENT AGENCIES	CONSULTATION
City of Kalgoorlie-Boulder (CKB)	• Land Access and property • Strategic Town Planning • Mine Closure Plan • Standing invitation to the CRG monthly meetings
Clean Energy Regulator (CER)	• National Greenhouse and Energy Reporting
Department of Environment and Regulation (DER)	• Environmental Approvals • Prescribed Premises Licences • Works Approvals • Annual Environment Report • Annual Audit Compliance Reporting • Annual Inspection • FAQMP • Dust events above NEPM PM₁₀ Standard • Air Quality Data • Noise Regulation 17 Variation • NVMMP • Life of Mine Approvals • Mine Closure Plan • National Pollutant Inventory (NPI) • Standing invitation to the CRG monthly meetings
Department of Health (DoH)	• FAQMP • Dust events above NEPM PM₁₀ Standard
Department of Aboriginal Affairs (DAA)	• Heritage planning and protection of any heritage sites • Mine Closure Plan • Standing invitation to the CRG monthly meetings
Department of Main Roads Western Australia (DMRWA)	• Permitting for haul truck transport on main roads • Voids management • Road Reserve information

GOVERNMENT AGENCIES	CONSULTATION
Department of Mines and Petroleum (DMP)	• Annual Environment Report • Closure and rehabilitation planning • Environmental and Exploration Approvals • Mining Proposals • Life of Mine Approvals • Mine Closure Plan • Standing invitation to the CRG monthly meetings
Department of Parks and Wildlife (DPAW)	• Environmental and Exploration Approvals
Department of Planning and Infrastructure (DPI)	• Mine Closure Plan
Department of Water (DoW)	• Mine Closure Plan • Groundwater Licensing
Heritage Council of Western Australia (HCWA)	• Heritage matters (namely the Boulder Railway Station, Subway, Loopline Railway and Cornwall Hotel)
Water Corporation	• Water Efficiency Management Plan
Office of the Environmental Protection Authority (OEPA)	• Amendments to Ministerial Statements • Annual Compliance Assessment Report • Air Quality Data • Review of the FAQMP • Dust events above NEPM PM₁₀ Standard • Review of NVMMP • Noise and Blast Quarterly Monitoring Reports • Environmental Approvals • Life of Mine Approvals • Mine Closure Plan

Table 11: Non-government Agency Stakeholder Consultation

NON - GOVERNMENT AGENCIES	CONSULTATION
Chamber of Mineral and Energy (CME)	• Mining Industry representative body • KCGM representative attends bimonthly Community Relations and Goldfields Environment Forums
Community Reference Group (CRG)	• Monthly CRG meetings
Kalgoorlie-Boulder Chamber of Commerce and Industry (KBCCI)	• Standing invitation to the CRG monthly meetings • Local and regional development
Kalgoorlie Boulder Urban Landcare Group (KBULG)	• Representative at bimonthly committee meetings • Urban land rehabilitation
Golden Mile Loopline Railway Society (GMLRS)	• Railway design and KCGM support • KCGM representative on GMLRS Board



APPENDIX A

Ministerial Conditions Audit Table

APPENDIX A – MINISTERIAL CONDITIONS AUDIT TABLE



KCGM Audit Table

Ministerial Statement No. 188 and 782

Period: 1 January to 31 December 2016

Note:

- Phases that apply in this table = Pre-Construction, Construction, Operation, Decommissioning, Overall (several phases)
- Code prefixes: M = Minister's condition; P = Proponent's commitment; A = Audit specification; N = Procedure.
- Any elements with status = "Audited by proponent only" are legally binding but are not required to be addressed specifically in compliance reports, if complied with.
- Abbreviations: - Annual Environmental Report (KCGM) - AER; Compliance Assessment Report (This Report) - CAR; Chief Executive Officer - CEO; City of Kalgoorlie-Boulder – CKB; Community Reference Group – CRG; Department of Environment Regulation – DER; Department of Mines and Petroleum - DMP; Environmental Protection Authority – EPA; Golden Mile Mining Development Planning Committee – GMMDP (no longer exists); Goldfields Dust Abatement Committee – GDAC (no longer exists); Department of Health - DoH; Heritage Council Western Australia - HCWA; Office of the Environmental Protection Authority – OEPA; Water Authority of Western Australia – WAWA; Water and Rivers Commission - WRC.
- Compliance Status: C = Compliant, CLD = Completed, NC = Non-compliant, NR = Not Required at this stage.

Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
Ministerial Statement No. 188									
188:M1	Proponent Commitments	In implementing the proposal, the proponent shall fulfil the commitments (which are not inconsistent with the conditions or procedures contained in this statement) made in the Consultative Environmental Review Mine and Waste Dumps - Fimiston.	Fulfil the environmental commitments for this project, Fimiston Project Stage II, Mine and Waste Dumps (248)	Annual Audit Compliance Report for 188:M and 782:M submitted to the OEPA annually by the 28 Feb.	Minister for Environment		Overall	Ongoing	C
188:M2.1	Detailed Implementation	Subject to these conditions, the manner of detailed implementation of the proposal shall conform in substance with that set out in any designs, specifications, plans or other technical material submitted by the proponent to the EPA with the proposal.	Project implemented in accordance with these conditions.	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M1.1.	Minister for Environment		Overall	Ongoing	NR
188:M2.2	Detailed Implementation	Where, in the course of that detailed implementation, the proponent seeks to change those designs, specifications, plans or other technical material in any way that the Minister for the Environment determines on the advice of the EPA, is not substantial, those changes may be effected.	Seek approval to change the implementation of the proposal.	Section 45C approved in 2000 for Croesus Rehabilitation Project. Section 45C approved in 2004 for Southern Landform Extension Project. Section 45C approved in 2005 for Southern Central Waste Dump. Section 45C approved in 2006 for the realignment of the Noise Bund and the Loopline Railway Access.	Minister for Environment		Overall	Ongoing	NR
188:M3.1	Annual Rehabilitation Plan	The proponent shall, within 12 months of the date of this statement (24 October 1991), prepare and subsequently implement brief annual rehabilitation plans for the Fimiston operations to the satisfaction of the DMP on advice from the GMMDP.	Prepare Annual Rehabilitation Plans and have them approved.	Rehabilitation activities are outlined in the KCGM Mine Closure Plan (2015) and approved on the 19 November 2015. A copy is available from the KCGM website (www.superpit.com.au).	DMP	GMMDP (no longer exists)	Operation	Annually	C
188:M4.1	Noise	Until 31st December 1991, the proponent shall operate the project in such a manner as to achieve reasonable noise levels in the surrounding residential areas to the satisfaction of the Minister of the Environment From January 1992, the proponent shall meet noise level standards to be set by the Minister of the Environment in consultation with the Minister for Mines and the CKB. Should these standards not be available by that date, then the proponent shall meet interim noise level standards set by the EPA.	Manage noise emissions	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M8.	Minister for Environment	CKB, Minister for Mines and Petroleum	Operation	Up until 31 December 1991	NR

APPENDIX A – MINISTERIAL CONDITIONS AUDIT TABLE

Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
188:M4.2	Noise		Minister for the Environment shall set noise level standards when standards are available	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M8. Noise Level Standards were issued in 1992.Superseded by Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009	Minister for Environment	Minister of Environment	Operation	From January 1992 until Noise Regulation 17 Variation was approved 14 July 2009.	NR
188:M5.1	Noise, Vibration and Dust	In order to ensure that there are no unacceptable detrimental effects from noise, vibration and dust from this project on the amenity of nearby residents, the proponent shall, within 6 months of the date of this statement (24 October 1991), prepare and subsequently implement a noise and vibration monitoring and management programme to the satisfaction of the EPA and a dust monitoring and management programme to the satisfaction of the EPA on advice from the GDAC.	Prepare a Noise and Vibration Monitoring Programme and have it approved	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M9.6.	EPA	GDAC (no longer exist)	Operation	Within 6 months from 24 October 1991	NR
188:M5.2	Noise, Vibration and Dust		Control noise and vibration generation (i.e. implement programme)	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M9.7.	EPA		Operation	Ongoing	NR
188:M5.3	Noise, Vibration and Dust		Prepare a Dust Monitoring and Management Programme and have it approved	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M7.	EPA	GDAC (no longer exist)	Operation	Ongoing	NR
188:M5.4	Noise, Vibration and Dust		Control and monitor dust generation (i.e. implement programme)	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M7.	EPA		Operation	Ongoing	NR
188:M6.1	Waste Dumps	Prior to the dumping of waste on the proposed north-east or south-east waste dumps within 500 metres of residences, the proponent shall prepare and implement a management plan for waste dumping to ensure that there is no unacceptable detrimental effect on the residents, to the satisfaction of the Minister of the Environment on advice from the EPA.	Prepare a Waste Dumping Management Plan and have it approved	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M6.	Minister for Environment	EPA	Operation	Prior to dumping waste within 500m of residences.	NR
188:M6.2	Waste Dumps		Control the disposal of waste	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M6.	Minister for Environment		Operation	Ongoing	NR
188:M7.1	Borefields and Pipeline	The proponent shall ensure that there are no unacceptable detrimental effects upon the environment resulting from leakage of hypersaline borewater along the Gidji or Lakewood borefields systems. Accordingly, within six months of the date of this statement (24 October 1991), the proponent shall prepare and implement a review of the operation of the borefields and pipelines to the satisfaction of the EPA on advice from the WAWA. This review shall include proposals for improved design, maintenance and monitoring for these facilities.	Prepare a Review of the Operation of the Gidji and Lakewood borefields and pipeline systems	Hypersaline Water Management Program accepted by EPA on 28 October 1992 (EPA Reference 104/87).	EPA	WAWA	Operation		CLD
188:M7.2	Borefields and Pipeline		Implement improvements.	Saline water use and management is provided in Section 6 of the KCGM AER which is to be submitted to the regulators on an annual basis by the 31 March.	EPA		Operation	Ongoing	C

APPENDIX A – MINISTERIAL CONDITIONS AUDIT TABLE

Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
188:M8.1	Decommissioning	The proponent shall be responsible for decommissioning and removal of the plant and installations and rehabilitating the site and its environs, to the satisfaction of the EPA. At least six months prior to decommissioning, the proponent shall prepare and subsequently implement a decommissioning and rehabilitation plan, to the satisfaction of the Department of Mines on advice from the GMMDPC.	Prepare a Decommissioning and Rehabilitation Plan and have it approved	The latest MCP (titled “Mine Closure Plan (March 2015) was approved on 19 November 2015. Refer to Section 5.4 of this report.	EPA		Pre-decommissioning	At least 6 months prior to decommissioning.	NR
188:M9	Transfer of Proponent	No transfer of ownership, control or management of the project which would give rise to a need for the replacement of the proponent shall take place until the Minister of the Environment has advised the proponent that approval has been given for the nomination of a replacement proponent. Any request for the exercise of that power of the Minister shall be accompanied by a copy of this statement endorsed with an undertaking by the proposed replacement proponent to carry out the project in accordance with the conditions and procedures set out in the statement.	Seek approval for transfer of proponent	KCGM is still the proponent.	Minister for Environment		Overall	Ongoing	NR
188:M10	Time Limit of Approval	If the proponent has not substantially commenced the project within five years of the date of this statement (24 October 1991), then the approval to implement the proposal as granted in this statement shall lapse and be void. The Minister of the Environment shall determine any question as to whether the project has been substantially commenced. Any application to extend the period of five years referred to in this condition shall be made before the expiration of that period, to the Minister of the Environment by way of a request for a change in the condition under Section 46 of the Environmental Protection Act. (On expiration of the five year period, further consideration of the proposal can only occur following a new referral to the EPA).	Substantially commence project	The project was substantially commenced within five years of the date of this statement (24 October 1991).	Minister for Environment		Pre-operation	Before 24 October 1996.	CLD
188:P1.1	Environmental Management	KCGM will prepare and implement, by December 1992, an Environmental Management Programme (EMP) for all of its operations in agreement with the EPA and the DMP.	Prepare an Environmental Management Programme and have it approved	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 188:M3, 188:M5 (now 782:M9 and 782:M7) 188:M6 (now 782:M6) and 188:M7.	EPA, DMP		Operation	Before December 1992.	NR
188:P1.2	Environmental Management		Manage potential environmental impacts	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 188:M3, 188:M5 (now 782:M9 and 782:M7) 188:M6 (now 782:M6) and 188:M7.	EPA, DMP		Operation	Before December 1992.	NR
188:P2	Annual Report	KCGM undertakes to prepare annual reports of the Mining and Rehabilitation sub-programme of the broader Environmental Management Programme, as agreed with the EPA and the DMP.	Prepare Mining and Rehabilitation Annual Reports.	OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 188:M3.	EPA, DMP		Operation	Annually	NR
188:P3	Geotechnical Investigations	KCGM undertakes to continue an ongoing programme of geotechnical investigations for slope stability purposes and report the findings of these investigations to the DMP.	Continue the Geotechnical Investigations Programme and report results	Geotechnical investigations for Slope Stability are provided in the KCGM AER which is submitted annually to the regulators by the 31 March.	DMP		Operation	Annually	C
188:P4.1	Surface Drainage	KCGM will develop a surface drainage system incorporating sediment detention systems and a water quality monitoring programme.	Develop a Surface Drainage System and water quality monitoring programme.	Surface Drainage System Monitoring Programme accepted by DER on 9 May 2002.	EPA		Operation		CLD

APPENDIX A – MINISTERIAL CONDITIONS AUDIT TABLE

Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
188:P4.2	Surface Drainage	The results of the sampling will be included within the annual report and updated annually.	Report sampling results in the AER	Surface drainage water quality monitoring results are provided in the KCGM AER which is required to be submitted to the regulators on an annual basis by the 31 March.	EPA		Operation	Annually	C
188:P5	Dust	In association with the GDAC and Kaltails, KCGM will install and support a Dust Monitoring Programme within the Kalgoorlie-Boulder area. The data obtained will be made available to the EPA via the GDAC.	Install and support a Dust Monitoring Programme	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 188:M5 (now 782:M9 and 782:M7).	GDAC (no longer exist), Kaltails (no longer exist), EPA		Overall	Ongoing	NR
188:P6	Noise	KCGM will undertake a programme of noise monitoring to ensure continued compliance with occupational health and public nuisance noise requirements. If considered necessary an ongoing monitoring strategy will be devised.	Implement an approved Noise Monitoring Programme	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 188:M5 (now 782:M9 and 782:M7).			Overall	Ongoing	NR
188:P7	Rehabilitation	KCGM will implement a progressive rehabilitation programme as outlined in Section 4.3 (Consultative Environmental Review Mine and Waste Dumps-Fimiston KCGM August 1990) as agreed with the Environmental Protection Authority in consultation with the Department on Mines.	Rehabilitate the project and environs	Not required. OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 188:M3.		EPA, DMP	Overall	Ongoing	NR
Ministerial Statement No. 782 Fimiston Gold Mine Operations Extension (Stage 3) and Mine Closure Planning									
782:M1.1	Proposal Implementation	The proponent shall implement the proposal as documented and described in schedule I of this statement subject to the conditions and procedures of this statement.	Project implemented in accordance with these conditions.	The CAR for 188:M and 782:M (this report) is submitted to the OEPA annually and details the implementation of the proposal in accordance with the conditions and procedures of 782:M.	Minister for Environment		Overall	Ongoing	C
782:M2.1	Proponent Nomination and Contact Details	The proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the Environmental Protection Act 1986 is responsible for the implementation of the proposal.	Proponent to be nominated	KCGM is the proponent. Nominated in Section 1.4 of the Public Environmental Review – Fimiston Operations Extension (Stage 3) and Mine Closure Planning.	Minister for Environment		Overall	Ongoing	C
782:M2.2	Proponent Nomination and Contact Details	The proponent shall notify the CEO of the DER of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.	Notify the CEO of any change in proponent details.	KCGM is still the proponent and the address for the serving of notices has not changed.	DER		Overall	Within 30 days of such change.	C
782:M3.1	Time Limit of Authorisation	The authorisation to implement the proposal provided for in this statement shall lapse and be void within five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.	Approval lapses within 5 years if not substantially commenced	No longer relevant as project has substantially commenced (see 782:M3.2 below).	Minister for Environment		Overall	On or before the expiration of five years from the date of this statement. 29 January 2014.	CLD The report from the OEPA Desktop Audit conducted on 10 October 2013 confirms that this condition is closed. Report dated 18 October 2013.

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Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M3.2	Time Limit of Authorisation	The proponent shall provide the CEO with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.	Letter notifying the CEO that the proposal has substantially commenced.	KCGM letter dated 23 September 2010 to OEPA notifying that the Golden Pike Cutback had substantially commenced.	DER		Overall	On or before the expiration of five years from the date of this statement. 29 January 2014.	CLD The report from the OEPA Desktop Audit conducted on 10 October 2013 confirms that this condition is closed. Report dated 18 October 2013.
782:M4.1	Compliance Reporting	The proponent shall submit to the CEO environmental compliance reports annually reporting on the previous twelve-month period, unless required by the CEO to report more frequently.	Submit annual compliance reports, covering the conditions of this audit program, unless otherwise required by the CEO to report more frequently.	The CAR (this report) for 188:M and 782:M is submitted to the OEPA annually by the 28 February. Approval to change the reporting period to 1 January to 31 December (and submission date from 29 March to 28 February) was received from the OEPA on 6 December 2010.	DER		Overall	Annually on or before 28 February.	C
782:M4.2	Compliance Reporting	The environmental compliance reports shall address each element of an audit program approved by the CEO and shall be prepared and submitted in a format acceptable to the CEO.	Submit annual compliance reports, in a format approved by the CEO.	The CAR (this report) for 188:M and 782:M is submitted to the OEPA annually by the 28 February. Report format was agreed to by the DER prior to release and follows the format specified in "Compliance Monitoring and Reporting – Guidelines for Proponents, Aug 2007".	DER		Overall	Annually on or before 28 February.	C
782:M4.3	Compliance Reporting	The environmental compliance reports shall: 1. be endorsed by signature of the proponent's chief executive officer or a person, approved in writing by the CEO, delegated to sign on behalf of the proponent's chief executive officer; 2. state whether the proponent has complied with each condition and procedure contained in this statement; 3. provide, verifiable evidence of compliance with each condition and procedure contained in this statement; 4. state whether the proponent has complied with each key action contained in any environmental management plan or program required by this statement; 5. provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by this statement; 6. identify all non-compliances and non-conformances and describe the corrective and preventative actions taken in relation to each non-compliance or non-conformance; 7. review the effectiveness of all corrective and preventative actions taken; and 8. describe the state of implementation of the proposal.	Submit annual compliance reports, covering the conditions of this audit program.	The requirements of the audit program are covered in the CAR for 188:M and 782:M which is submitted to the OEPA annually by the 28 February.	DER		Overall	Annually on or before 28 February.	C
782:M4.4	Compliance Reporting	The proponent shall make the environmental compliance reports required by condition 4-1 publicly available in a manner approved by the CEO.	Place CAR on the KCGM website www.superpit.com.au	The CAR (this report) will be made available on the KCGM website: www.superpit.com.au within 4 weeks of submission to the OEPA/DER.	DER		Overall	Within 4 weeks of submission to the DER.	C

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Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M5.1	Performance Review	The proponent shall submit a Performance Review report every five years after the start of mining activities forming part of the expanded and revised proposal to the Environmental Protection Authority, which addresses: 1. the major or environmental issues associated with implementing the project; the environmental objectives for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those objectives; 2. the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable; 3. significant improvements gained in environmental management, including the use of external peer reviews; 4. stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and 5. the proposed environmental objectives over the next five years, including improvements in technology and management processes.	Performance Review Report submitted every five years after the start of mining activities addressing the relevant issues.	The first 5 Year Performance Report was submitted to the OEPA on the 30 April 2015. This is the first Five Year Performance Review Report that has been prepared for the Fimiston Operations and covers the calendar year periods from 2010 to 2014 to align with KCGM's annual environmental reporting. Copies of the report are available on the KCGM website (www.superpit.com.au).	Minister for Environment		Overall	Every five years after the start of mining activities, first due by 31 March 2015. An extension was granted until the 30 April by the OEPA (19 March 2015 – Paul Zahra) to submit the first 5 Year Performance Report. The next 5 year performance report is due by the 31 March 2020.	C
782:M5.2	Performance Review	The proponent shall make the Performance Review reports required by condition 5-1 publicly available in a manner approved by the CEO.	Place Performance Review reports on the KCGM website www.superpit.com.au	A copy of the 5 Year Performance Report submitted to the OEPA on the 30 April 2015 is available on the KCGM website (www.superpit.com.au) and was loaded within two weeks of the submission.	DER		Overall	Within 2 weeks of submission to the DER.	C
782:M5.3	Performance Review	The proponent shall appoint and fund an independent environmental auditor for an initial period of eighteen months to report to the community through the community reference group and to the Minister for Environment on the environmental performance of the proponent. The auditor shall: 1. check on compliance with the Ministerial Conditions contained in this Statement; 2. report on the results of dust monitoring and actions taken where dust levels have exceeded set criteria and can be attributable to the proponent; 3. report on consistency with the noise criteria set through the Regulation 17 approval process; 4. report on compliance with conditions set in the licence and performance against environmental criteria set by the licence; 5. report six monthly to the community reference group any non-compliance of conditions or inconsistency with environment criteria as soon as practicable after identifying that non-compliance or inconsistency; and 6. carry out an overall review after eighteen months and advise the Minister for Environment as to whether the independent auditing should continue.	KCGM to appoint an independent environmental auditor. Six Monthly environmental performance review reports to CRG for initial 18 month period. Overall 18 month environmental performance review to the Minister for Environment.	Keith Lindbeck of Keith Lindbeck and Associates was appointed as the independent auditor on 17 June 2009. The first 6 monthly performance review (period 29 January 2009 to 28 July 2009) was presented to the CRG on 11 February 2010. The second 6 monthly performance review (period 29 July 2009 to 28 January 2010) was presented to the CRG on 13 May 2010. The third 6 monthly performance review (period 29 January 2010 to 28 July 2010) was presented to the CRG on 9 December 2010. The overall review of the eighteen months was submitted to the Minister for Environment on the 14 April 2011. The review recommended that the audit period be extended to include an additional two six month audit periods to ensure that the audits covered an eighteen month period of active mining. (Active mining commenced in April 2010.) The two additional audit periods were consented to by the Minister for Environment on 3 June 2011. Minutes from CRG Meetings are available on the KCGM website: www.superpit.com.au .	Minister for Environment		Overall	Six Monthly environmental performance review reports to CRG for initial 18 month period ending 28 July 2010. Overall review after eighteen months and advise the Minister for the Environment as to whether the independent auditing should continue.	CLD The report from the OEPA Desktop Audit conducted on 10 October 2013 confirms that this condition is closed. Report dated 18 October 2013.

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Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M5.4	Performance Review	Subject to the outcomes of the eighteen month review described in item 6 of condition 5-3, the proponent will continue to fund the independent environmental auditor after the initial period of eighteen months for such time as determined by the Minister for Environment.	If required continue to fund the independent auditor to report 6 monthly to the CRG for such time as determined by the Minister of the Environment	The eighteen months overall review was presented to the CRG on the 14 April 2011. On 3 June 2011, the Minister advised the auditor that he had accepted the recommendation for the continuation of the audit for a further two audit periods with the audit period to cease on 28 September 2011. The Minister also requested a further review and recommendation from the auditor for continuation or cessation of the audit process on completion of the second audit period (28 September 2011). On 30 June 2011 KCGM requested that the Auditor consider the two additional audit periods cover the periods 29 July 2010 to 31 March 2011 and 1 April 2011 to 30 September 2011 as these dates coincide with KCGM's quarterly reporting periods. This was agreed to by the Auditor. Both the fourth and fifth independent environmental audits were completed. The results of the fourth audit were presented to the CRG on the 8 March 2012 and the results of the fifth audit presented to the CRG on the 17 May 2012. For both the fourth and fifth audit periods the Auditor found that "There were no limits exceeded or non-compliances sighted that could be attributed to the expansion of the Fimiston Operations as set down by the Ministerial Conditions (Statement No. 782) or by the DER operating licence (L6420/1988/12.". In a letter dated 7 August 2012 to the General Manager of the OEPA, Mr Kim Taylor, the Auditor stated that "As no breeches of Conditions or no non-compliances have been identified over the audit period, I recommend that no further audit periods be required for the Golden Pike Cutback and Closure Plan at KCGM in Kalgoorlie. I also recommend that Ministerial Conditions 782:M5.3 and 782:M5.4 be classified as "Completed" under the OPEA audit classification system." In a letter from the OEPA dated 22 August 2012 and addressed to the General Manager of KCGM, the OEPA confirmed that it had reviewed the information provided by the Auditor and was satisfied that the requirements of conditions 5-3 and 5-4 had been met and that the OEPA compliance monitoring database had been updated to reflect the status of the conditions.	Minister for Environment		Overall	Until determined by the Minister for Environment.	CLD The report from the OEPA Desktop Audit conducted on 10 October 2013 confirms that this condition is closed. Report dated 18 October 2013.

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Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M6.1	Dumping of Waste within five hundred metres of Residences	Prior to the dumping of waste within five hundred metres of residences, the proponent shall prepare and implement a management plan for waste dumping to ensure that there is no unacceptable detrimental effect on the residents, to the requirements of the Minister for Environment Env on advice of the DER.	Prepare and implement a management plan for waste dumping.	Section 45C approved in 2000 for Croesus Rehabilitation Project. Section 45C approved in 2004 for Southern Landform Extension Project. Section 45C approved in 2005 for Southern Central Waste Dump. Section 45C approved in 2006 for the realignment of the Noise Bund and the Loopline Railway Access. No dumping is occurring with 500m of residences outside of approved plans.	Minister for Environment	DER	Overall	Prior to the dumping of waste within five hundred metres of residences.	NR
782:M6.2	Dumping of Waste within five hundred metres of Residences	In the preparation of the management plan for waste dumping required by condition 6-1, the proponent shall consult with residents within five hundred metres of the dumping of waste and the environmental health staff of the CKB.	Consult with environmental health staff of the CKB and residents within 500m of the waste dumping in preparation of waste dumping management plan.	Not required at this stage. New condition in 2009, did not specifically apply to historical approvals outlined in 782:M6.1 (although consultation was undertaken).	Minister for Environment	CKB	Overall	Prior to the dumping of waste within five hundred meters of residences	NR
782:M7.1	Air Quality	Within three months following the issuing of the notice to the decision-making authorities under section 45(7) of the Environmental Protection Act 1986, the proponent shall implement the Air Quality Management Plan (September 2007) to the requirements of the Minister for Environment on advice of the DER and the DoH.	Implement the Air Quality Management Plan (September 2007) within 3 months of the issuing of the notice to the decision-making authorities to the requirements of the Minister of the Environment on advice of the DER and the DoH.	OEPA Audit and Verification Report (March 2010) indicates this condition has been superseded by 782:M7.3. The FAQMP is being implemented. Consultation with the DER and the DoH in preparation of this plan was undertaken by the EPA during the PER process.	Minister for Environment	DER, DoH	Overall	Within three months following the issuing of the notice.	NR
782:M7.2	Air Quality	The proponent shall review the Air Quality Management Plan referred to in condition 7-1 at twelve-monthly intervals, unless otherwise required by the EPA, and shall amend the Plan to the requirements of the Minister for Environment on advice of the DER and the DoH.	Annual review of the FAQMP to the requirements of the Minister for the Environment on advice of the DER and the DoH.	The FAQMP review was amended from annual review to a three yearly revision cycle following approval of the 2012 FAQMP by the OEPA on 14 August 2013. The triennial revision of the FAQMP was submitted to the OEPA on 23 December 2015, and was subsequently approved on 29 June 2016.	Minister for Environment	DER, DoH	Overall	Three yearly from 2012.	C
782:M7.3	Air Quality	The proponent shall implement the amended Air Quality Management Plan required by condition 7-2.	Implement the amended FAQMP at twelve monthly intervals or as otherwise required by the EPA. Review cycle approved by the OEPA to be now three yearly.	The FAQMP (December 2015) was implemented following approval on 29 June 2016, superseding the 2012 version. This CAR provides an audit table in Appendix B indicating compliance with the measures that were implemented. The FAQMP (December 2015) is available on the KCGM website: www.superpit.com.au .	Minister for Environment		Overall	Ongoing.	C
782:M7.4	Air Quality	The proponent shall only detonate explosives at surface level on the premises when wind directions favour the carriage of dust away from the residential areas of Kalgoorlie-Boulder, unless undertaken in accordance with regulation 8.28 (4) of the Mines Safety and Inspection Regulations 1995.	Detonate explosives at surface level on the premises when wind directions favour the carriage of dust away from the residential areas of Kalgoorlie-Boulder, unless undertaken in accordance with regulation 8.28 (4) of the Mines Safety and Inspection Regulations 1995.	Detonations of explosives at surface level were undertaken in accordance with KCGM's Blasting Dust Management Plan as contained within the FAQMP. No blasts were undertaken in accordance with regulation 8.28 (4) of the <i>Mines Safety and Inspection Regulations 1995</i> for the reporting period.	Minister for Environment		Overall	Ongoing	C
782:M7.5	Air Quality	The proponent shall make available continuous dust monitoring data on their website within 24 hours of the recording of that data.	Continuous dust monitoring data is available on the KCGM website within 24 hours of the recording of that data.	PM ₁₀ monitoring data is available on the KCGM website within 24 hours of the recording of that data for the last 30 days and can be obtained from the KCGM website: www.superpit.com.au	Minister for Environment		Overall	Within 24 hours of recording data.	NC
782:M7.6	Air Quality	The proponent shall install two additional dust monitoring stations, which are to be co-located with the existing wind speed and wind direction monitoring stations.	Install two additional dust monitoring stations co-located with the existing wind speed and wind direction monitoring stations at MEX and MTC.	Two additional dust monitoring stations were installed at MEX and MTC in June 2009.	Minister for Environment		Overall		CLD

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Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M7.7	Air Quality	The proponent shall keep and make publicly available a register of complaints regarding air emissions; investigate those complaints; and keep a record of the investigations and actions taken with regard to the complaint.	Keep and make publicly available a register of complaints regarding air emissions; investigate those complaints; and keep a record of the investigations and actions taken with regard to the complaint. All public feedback and complaints are recorded in the Public Interaction Line (PIL) system including all investigation and control measures implemented.	PIL information is made publicly available through presentations at the CRG meetings. Minutes from CRG Meetings are available on the KCGM website: www.superpit.com.au	Minister for Environment		Overall	Ongoing	C
782:M8.1	Noise	The proponent shall not conduct any mining activities forming part of the expanded and revised proposal unless and until approval has been granted under regulation 17(7) of the Environmental Protection (Noise) Regulations 1997. Note: In this condition “mining activities” does not include construction work within the meaning of regulation 13 of the Environmental Protection (Noise) Regulations 1997.	Do not conduct any mining activities forming part of the expanded and revised proposal unless and until approval has been granted under regulation 17(7) of the Environmental Protection (Noise) Regulations 1997.	Environmental Protection (Fimiston Gold Mine Noise Emission Approval) 2009 was gazetted 14 July 2009. One appeal was received (Appeal No. 282/2009). The appeal against the Noise Regulation 17 Variation was dismissed by the Minister of the Environment 24 March 2010.	Minister for Environment		Overall		CLD
782:M8.2	Noise	The proponent shall undertake noise modeling to determine whether a special control area is required in accordance with the Goldfields-Esperance Regional Planning Strategy.	Undertake noise modeling to determine whether a special control area is required in accordance with the Goldfields-Esperance Regional Planning Strategy.	Noise modeling/reports listed below were prepared for the noise assessment of the project and are available on the KCGM website. Golden Pike Noise Report June 2005. Northern Waste Rock Dump Report July 2006. Supplementary Golden Pike Noise Report July 2006. Effects of Blasting in the Golden Pike Cutback February 2006. Noise Contour Map of worse case emissions overlain on CKB Town Planning Scheme was also prepared for this condition.	Minister for Environment		Overall		CLD
782:M8.3	Noise	The proponent shall consult with the Western Australian Planning Commission, Department of Planning and Infrastructure, and the City of Kalgoorlie-Boulder in the implementation of Condition 8-2.	Consult with the Department of Planning and Infrastructure (on behalf of the Western Australian Planning Commission) and the City of Kalgoorlie-Boulder in the implementation of Condition 8-2.	The noise reports/maps listed in M8.2 were provided to DPI (representing Western (WAPC)) and CKB. Meeting minutes of a meeting held between DPI, CKB and KCGM on 24 July 2009. Correspondence provided to DPI, CKB 18 December 2009.	Minister for Environment	WAPC, DPI, and CKB	Overall		CLD
782:M9.1	Airblast Vibration and from Blasting	The proponent shall only detonate explosives on the premises between the hours of 0700 hours and 1800 hours unless undertaken in accordance with regulation 8.28 (4) of the Mines Safety and Inspection Regulations 1995.	Detonate explosives on the premises between the hours of 0700 hours and 1800 hours unless undertaken in accordance with regulation 8.28 (4) of the Mines Safety and Inspection Regulations 1995. Blast in accordance with the FAQMP.	All blasts were detonated on the premises between 0700 hours and 1800 hours during the audit period. Refer to Section 6.3 of this report and the Quarterly Noise and Blast Monitoring Reports.	Minister for Environment		Overall	Ongoing	C
782:M9.2	Airblast Vibration and from Blasting	Where explosives are detonated on the premises outside the requirements specified in conditions 7-4 and 9-1, the circumstances which led to such detonation being necessary shall be reported by the proponent to the CEO within 36 hours following detonation.	Report to the CEO within 36 hours following detonation of explosives on the premises outside the requirements specified in 7-4 and 9-1 including the circumstances which led to such detonation being necessary.	No blasts were detonated outside the requirements under conditions 7-4 and 9-1. Refer to Section 6.3 of this report.	DER		Overall	Within 36 hours following detonation.	NR

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Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M9.3	Airblast Vibration Blasting and from	The proponent shall ensure that all airblast levels due to blasting comply with Regulation 11 of the Environmental Protection (Noise) Regulations 1997.	Blast in accordance with the NVMMP to ensure that all airblast levels due to blasting comply with Regulation 11 of the Environmental Protection (Noise) Regulations 1997.	All airblast levels due to blasting were in compliance with <i>Environmental Protection (Noise) Regulations 1997 (WA)</i> during the reporting period. In March 2016 KCGM's <i>Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016</i> was gazetted allowing airblast levels to vary from the <i>Environmental Protection (Noise) Regulations 1997 (WA)</i> . Refer to Section 6.3 of this report.	Minister for Environment		Overall	Ongoing	C
782:M9.4	Airblast Vibration Blasting and from	The proponent shall make all reasonable effort to avoid blasting on Sundays.	Blast in accordance with the NVMMP and make all reasonable effort to avoid blasting on Sundays.	Whilst no blasts are scheduled to be fired on a Sunday and all reasonable efforts are made to avoid blasting on a Sunday, Sunday blasts do occur from time to time. When they do occur, reasons for the blasts are provided to the OEPA in the Noise and Blast Monitoring Quarterly Reports. Refer to Section 6.3 of this report.	Minister for Environment		Overall	Ongoing	C
782:M9.5	Airblast Vibration Blasting and from	For all blasting, the proponent shall comply with the following vibration limits, measured or calculated in accordance with section J4.2 of Australian Standard 2187.2 2006, for the protection of human comfort at any houses and low rise buildings, theatres, schools and other similar buildings occupied by people and not owned by the proponent: 1. the ppv shall not exceed 5 mm/sec for 90% of blasts per year; 2. the ppv shall not exceed 10 mm/sec for any blast; and 3. no more than one in ten consecutive blasts shall exceed 5 mm/sec ppv.	Blast in accordance with the NVMMP to comply with the following vibration limits: 1. the ppv shall not exceed 5 mm/sec for 90% of blasts per year; 2. the ppv shall not exceed 10 mm/sec for any blast; and 3. no more than one in ten consecutive blasts shall exceed 5 mm/sec ppv.	1. The ppv did not exceed 5 mm/s for 95% of blasts during 2016. 2. The ppv did not exceed 10 mm/s for any blast in this reporting period. 3. There was one non-compliance event during the audit period where more than one in ten consecutive blasts recorded a vibration level greater than 5 mm/s. This non-compliance is discussed in section 5.1 of this report. Blast monitoring results are available in the Quarterly Noise and Blast Monitoring Reports. Refer to Section 6.3 of this report.	Minister for Environment		Overall	Ongoing	NC

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Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M9.6	Airblast Vibration Blasting and from	Within six months following the issuing of the notice to the decision-making authorities under section 45(7) of the Environmental Protection Act 1986, the proponent shall revise the Revised Noise and Vibration Monitoring and Management Programme, dated June 2004, to the requirements of the Minister for the Environment on advice of the Department of Environment and Conservation.	This Programme shall include: 1. Locations of the air blast airblast and ground vibration monitors and demonstration that these locations meet the requirements of regulation 21 of the Environmental Protection (Noise) Regulations 1997 and section J3.2.2 of Australian Standard 2187.2 - 2006; 2. Description of the monitoring equipment and demonstration that the equipment complies with the requirements of schedule 4 of the Environmental Protection (Noise) Regulations 1997 and section J3.2.1 of Australian Standard 2187.2-2006; 3. Calibration by an approved calibration laboratory and field checks of the monitoring equipment in accordance with schedule 4 of the Environmental Protection (Noise) Regulations 1997 and the manufacturer's specifications and section J3.1.2 of Australian Standard 2187.2 - 2006 (or any subsequent amendment) and recording of calibration; 4. Procedures for the recording of blast information in accordance with section J3.4 of Australian Standard 2187.2-2006; 5. Procedures for the reporting of air blast and vibration monitoring to the Department of Environment and Conservation; and 6. Details of a complaints procedure and recording of complaints and action undertaken to resolve complaints.	A revised 'provisional' NVMMMP was submitted to the OEPA and DER 12 August 2009. Approval of the NVMMMP was delayed pending an appeal determination against the Environmental Protection (Fimiston Gold Mine Noise Emission Approval) 2009. The appeal was dismissed in March 2010. The NVMMMP was amended to include two recommendations made by the appeals committee and submitted in April 2010. Further revision was requested by the OEPA and the final NVMMMP was submitted in October 2010 and subsequently approved by the OEPA 6 December 2010. The NVMMMP was updated during 2016 following approval of the <i>Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016</i> . The revision of the NVMMMP was submitted to the OEPA on 22 June 2016, and was approved on 1 November 2016. The NVMMMP is available on the KCGM website (www.superpit.com.au).	Minister for Environment		Overall	Within six months following the issuing of the notice	CLD The report from the OEPA Desktop Audit conducted on 10 October 2013 confirms that this condition is closed. Report dated 18 October 2013.
782:M9.7	Airblast Vibration Blasting and from	The proponent shall implement the Revised Noise and Vibration Monitoring and Management Programme required by condition 9-6.	Implement the Revised NVMMMP within six months following the issuing of the notice.	The 'provisional' NVMMMP submitted 12 August 2009 was implemented. The DER accepted the NVMMMP as information only (pending the outcome of the appeal against the Environmental Protection (Fimiston Gold Mine Noise Emission Approval 2009)). Superseded by 782:M9.9.	Minister for Environment		Overall	Within six months following the issuing of the notice	CLD
782:M9.8	Airblast Vibration Blasting and from	The proponent shall review the Revised Noise and Vibration Monitoring and Management Programme as required by the Environmental Protection Authority, and shall amend the Programme to the requirements of the Minister for the Environment on advice of the Department of Environment and Conservation.	Review the Revised NVMMMP as required by the Environmental Protection Authority, and amend the Programme to the requirements of the Minister for the Environment on advice of the Department of Environment and Conservation.	The NVMMMP was updated during 2016 following approval of the <i>Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016</i> . The revised NVMMMP (June 2016) was submitted to the DER and the OEPA on 22 June 2016, and was approved by the DER on 19 September 2016 and the OEPA on 1 November 2016. The current version of the NVMMMP (June 2016) is available from the KCGM website: www.superpit.com.au .	Minister for Environment	DER	Overall	As required by the EPA	C
782:M9.9	Airblast Vibration Blasting and from	The proponent shall implement the amended Revised Noise and Vibration Monitoring and Management Programme required by condition 9-8.	Implement the amended Revised Noise and Vibration Monitoring and Management Programme as required.	This CAR provides an audit table in Appendix B indicating compliance with the measures that were implemented.	Minister for Environment		Overall	Ongoing	NC

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Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M10.1	Set-back for Mining Activities	The proponent shall not undertake active mining operations within 400 metres of a property zoned “Residential” under the Town Planning Scheme without the written consent of the owner and occupier of that property.	Obtain written consent from the owners and occupiers of all property zoned “Residential” under the Town Planning Scheme within 400 meters of active mining.	Written consent from Joint Venture Owners (Barrick and Newmont) to undertake active mining operations within 400 metres of owned property zoned “Residential” under the Town Planning Scheme were received via letter of consent dated 11 January 2010. Written consent from occupiers is included as part of Residential Tenancy Agreements.	Minister for Environment		Overall	Prior to mining within 400m of residential properties.	C
782:M10.2	Set-back for Mining Activities	The proponent shall liaise with the Heritage Council of Western Australia to minimise environment impacts associated with active mining, on State Registered Places known as the Boulder Railway Station, Subway and Loopline, and Cornwall Hotel. Note: “Active mining” means any method of working by which the earth or any rock structure, coal seam, stone, fluid, or mineral-bearing substance is disturbed, removed, washed, sifted, crushed, leached, roasted, floated, ‘distilled, evaporated, smelted, refined, sintered, pelletised, or’ dealt with for the purpose of obtaining any mineral or rock from it for commercial purposes or for subsequent use in industry, whether it has been previously disturbed or not, and includes: 1. developmental and construction work associated with opening up or operating a mine; 2. the removal and disposal of overburden or waste or residues by mechanical or other means and the stacking, depositing, storage, and treatment of any substance considered to contain any mineral; and 3. transport of ore or other mining product that takes place on a road which is not a road as defined in the Road Traffic Act 1974, but for the purpose of this condition does not include: 4. construction of a noise bund which is not part of any active mining activity; 5. rehabilitation of any area; 6. administration buildings or other similar facilities from which noise emissions comply with the Environmental Protection (Noise,) Regulations 1997• 7. Exploration operations; 8. operations for the care, security and maintenance of a mine and plant at the mine undertaken during any period when production or development operations at the mine are suspended; 9. operations undertaken to leave a mine safe to be abandoned; and 10. underground mining.	Liaise with the Heritage Council of Western Australia to minimise environment impacts associated with active mining, on State Registered Places known as the Boulder Railway Station, Subway and Loopline, and Cornwall Hotel.	Letter of consultation to the Heritage Council of Western Australia regarding the Boulder Railway Station, Subway and Loopline, and Cornwall Hotel was sent 4 February 2010. Letter of satisfaction from the Heritage Council of Western Australia was received 2 March 2010.	Minister for Environment	HCWA	Overall		C
782:M11.1	Rehabilitation and Closure Management Plan	Prior to 30 April 2010, the proponent shall prepare a Rehabilitation and Closure Management Plan to the requirements of the Minister for Environment and the Minister for Mines and Petroleum on advice of the Environmental Protection Authority and shall submit the Plan to the Department of Environment and Conservation.	Prepare a Rehabilitation and Closure Management Plan as per the requirements of Ministerial Statement 782, Condition 11-1.	The KCGM Closure and Reclamation Management Plan was submitted in April 2010.	Minister for Environment, Minister for Mines and Petroleum	EPA	Overall	Prior to 30 April 2010	CLD
782:M11.2	Rehabilitation and Closure Management Plan	In the preparation of the Rehabilitation and Closure Management Plan required by condition 11-1, the proponent shall meet the requirements of the following agencies: 1. Department of Mines and Petroleum regarding items 1-3, 5-10, and 12 of condition 11-1; 2. Department of Environment and Conservation regarding items 4, 8, 9 and 10 of condition 11-1; 3. Department of Planning and Infrastructure, Western Australian Planning Commission and City of Kalgoorlie-Boulder regarding item 1, 2, 3 and 9 of condition 11-1. 4. Department of Water regarding item 4 of condition 11-1; and 5. Registrar of Aboriginal Sites regarding item 13 of condition 11-1.	Meet the requirements of the following agencies in preparation of the MCP: 1. DMP regarding items 1-3, 5-10, and 12 of condition 11-1; 2. DER regarding items 4, 8, 9 and 10 of condition 11-1; 3. DPI, WAPC and CKB regarding item 1, 2, 3 and 9 of condition 11-1. 4. DoW regarding item 4 of condition 11-1; and 5. Registrar of Aboriginal Sites regarding item 13 of condition 11-1.	The MCP 2015 was submitted on 31 March 2015 and approved on 19 November 2015 by the OEPA on behalf of the listed agencies. Refer to Section 5.4 of this report.	Minister for Environment	DMP, DER, DPI, WAPC, CKB, DoW and Registrar of Aboriginal Sites	Overall		C
782:M11.3 (Amended)	Rehabilitation and Closure Management Plan	The proponent shall review the Rehabilitation and Closure Management Plan required by condition 11-1 every three years, and shall amend the Plan as required in consultation with the agencies referred to in condition 11-2, to the requirements of the CEO on advice of the relevant agencies indicated in condition 11-2.	Review the MCP every three years and amend the Plan as required in consultation with the agencies referred to in condition 11-2, to the requirements of the CEO on advice of the relevant agencies indicated in condition 11-2.	Letter received in July 2013 from the Minister approving a three yearly review cycle. Refer to Section 5.4 of this report.	Minister for Environment	DMP, DER, DPI, WAPC, CKB, DoW and DIA	Overall	Every 3 years from last submission date (previously 2 years)	C

APPENDIX A – MINISTERIAL CONDITIONS AUDIT TABLE

Audit Code	Subject	Requirement	How	Evidence	Satisfy	Advice	Phase	Timeframe	Status
782:M11.4	Rehabilitation and Closure Management Plan	The proponent shall implement the amended Rehabilitation and Closure Management Plan required by condition 11-3 until such time as the Minister for the Environment determines that the proponent's closure responsibilities have been fulfilled. Note: The DMP shall be the lead agency for coordinating the Rehabilitation and Closure process, with certain items of the Plan being administered by the appropriate agency as follows: 1. Department of Mines and Petroleum for items 1-3, 5-10, and 12 of condition 11—1; 2. Department of Environment and Conservation for items 4, 8, 9 and 10 of condition 1 1-1; 3. Department of Water regarding item 4 of condition 11-1; and 4. Registrar of Aboriginal Sites regarding item 13 of condition 11-1.	Implement the amended MCP required by condition 11-3 until such time as the Minister for the Environment determines that the closure responsibilities have been fulfilled.	This CAR provides an audit table in Appendix B indicating the compliance status with the measures that were implemented.	Minister for Environment	DMP, DER, DPI, WAPC, CKB, DoW and DIA	Overall	Until determined by the Minister for the Environment	C
782:M11.5	Rehabilitation and Closure Management Plan	The proponent shall make the Rehabilitation and Closure Management Plan required by condition 11-1 and subsequent revisions required by condition 11-3 publicly available in a manner approved by the CEO.	Make the Closure and Reclamation Management Plan required by condition 11-1 and subsequent revisions required by condition 11-3 publicly available on the KCGM website www.superpit.com.au	The current MCP is available from the KCGM website: www.superpit.com.au	CEO	OEPA	Overall	In the month following the approval.	C
782:M12.1	Aboriginal Heritage	Prior to commencement of proposed works, the proponent shall submit an Aboriginal Cultural Heritage Management Plan that meets the objectives specified in Condition 12-3 as determined by the Minister for Indigenous Affairs.	Submit an Aboriginal Cultural Heritage Management Plan that meets the objectives specified in Condition 12-3 as determined by the Minister for Indigenous Affairs prior to the commencement of proposed works.	Letter of submission of ACHMP to DIA 29 December 2009. Email received from DIA 9 February 2010 advising plan meets the DIA's requirements.	DIA		Design	Prior to commencement of proposed works	CLD
782:M12.2	Aboriginal Heritage	The proponent shall consult with the Department of Indigenous Affairs in the preparation of the Plan.	Consult with the Department of Indigenous Affairs in the preparation of the Plan	Meeting held with DIA 26 November 2009 to discuss development of the ACHMP.	DIA		Design	Prior to commencement of proposed works	CLD
782:M12.3	Aboriginal Heritage	The Plan shall include protocols and procedures for appropriate management of any Aboriginal sites or skeletal remains identified during the proposed works.	Include protocols and procedures for appropriate management of any Aboriginal sites or skeletal remains identified during the proposed works in the Aboriginal Cultural Heritage Management Plan.	Section 6 of the ACHMP outlines management of any Aboriginal sites or skeletal remains identified during the proposed works.	DIA		Design	Prior to commencement of proposed works	CLD
782:M12.4	Aboriginal Heritage	The proponent shall implement the Aboriginal Cultural Heritage Management Plan.	Implement the Aboriginal. Cultural Heritage Management Plan.	This CAR provides an audit table in Appendix B indicating the compliance status with the measures that were implemented.	DAA		Overall	Ongoing	C

APPENDIX B

Environmental Management Plans Audit Tables

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLANS AUDIT TABLES



KCGM Audit Table

Environmental Management Plans

Period: 1 January to 31 December 2016

Fimiston Air Quality Management Plan: Compliance was achieved with each objective of the FAQMP during the audit period as demonstrated in the following Audit Table:

AUDIT TABLE - FIMISTON AIR QUALITY MANAGEMENT PLAN																						
Objective	KPI	Evidence					Timeframe	Status														
BLASTING DUST MANAGEMENT PLAN																						
Appropriate environmental review and managerial authorisation is required prior to firing a Wind Direction Dependent blast when wind conditions are unfavourable.	Minimise potential dust emissions associated with blasting.	During 2016 all blasts were fired in accordance with the BDMP.					As Required	C														
DUST MONITORING AND MANAGEMENT PLAN																						
Maintain or reduce the number of complaints associated with dust reportedly from KCGM's operations.	Reduction in dust complaints .	There were two complaints received during the reporting period regarding dust. YEAR (Number of Complaints) 2008 (9), 2009 (5), 2010 (6), 2011 (6), 2012 (12), 2013 (7), 2014 (6), 2015 (3), 2016 (2).					Annual	C														
Greater than 90% availability of the continuous PM ₁₀ data from all monitoring sites on an annual basis.	Annual data availability.	>90% data availability was achieved during 2016 at all sites. <table><tr><td>HGC</td><td>BSY</td><td>HEW</td><td>CLY</td><td>HOP</td><td>MEX</td><td>MTC</td></tr><tr><td>99.5%</td><td>99.2%</td><td>98.6%</td><td>99.5%</td><td>98.4%</td><td>99.2%</td><td>97.3%</td></tr></table>					HGC	BSY	HEW	CLY	HOP	MEX	MTC	99.5%	99.2%	98.6%	99.5%	98.4%	99.2%	97.3%	Annual	C
HGC	BSY	HEW	CLY	HOP	MEX	MTC																
99.5%	99.2%	98.6%	99.5%	98.4%	99.2%	97.3%																
Complete quarterly calibration of dust monitoring equipment.	Quarterly calibrations.	All quarterly calibrations were completed during the audit period. Calibrations were undertaken between 27-29 January 2016, 2-5 May 2016, 18-20 July 2016, and 3-7 October 2016. Calibration reports are available upon request.					Quarterly	C														

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLANS AUDIT TABLES

Objective	KPI	Evidence	Timeframe	Status
Target of not more than five events above the NEPM at any dust monitoring site per annum where KCGM is a significant contributor.	Annual target	During 2016, KCGM was a significant contributor on two occasions at BSY, four at CLY, and five at HOP.	Annual	C
MERCURY EMISSIONS MANAGEMENT PLAN				
Implement a Carbon Kiln Emissions Control Strategy to restrict operation of the carbon regeneration kilns when the wind is blowing towards Kalgoorlie-Boulder and the mercury load on the carbon is high prior to any emission reduction equipment being installed.	Minimise potential atmospheric emissions of mercury associated with carbon regeneration.	The Carbon Kiln Emissions Control Strategy was implemented in 2005. For further information refer to Section 5.1 of the FAQMP (December 2015).	Ongoing	C
Mercury emissions from the Fimiston Carbon Regeneration Kilns will be estimated via a mass balance approach.	Estimate mercury emissions via mass balance.	Mercury emissions are estimated via a mass balance approach and are reported annually in the National Pollutant Inventory: www.npi.gov.au .	Annual	C
Implement the Fimiston Emissions Reduction Project to capture greater than 90% of the atmospheric mercury emissions associated with mineral processing activities at the Fimiston Processing Plant.	Capture greater than 90% of the atmospheric mercury emissions associated with the Fimiston Processing Plant.	The Fimiston Emissions Reduction Project is still being commissioned.	Ongoing	NR
REVIEW CYCLE				
All components of the FAQMP are reviewed on a triennial basis in accordance with the amended Condition 782:M(7.2).	Triennial review of the FAQMP.	The FAQMP was reviewed in 2015 and submitted on 23 December 2015. The FAQMP (December 2015) was approved by the OEPA on 29 June 2016. The next revision is due for submission 29 June 2019.	Triennially	C
REPORTING				
Daily PM ₁₀ dust monitoring results (24 hour averages) are made available on the KCGM website at www.superpit.com.au .	Dust results available on KCGM website.	Daily monitoring results (24-hour averages) from the continuous dust monitoring network are made available in the KCGM Dust Monitoring Report which is available on the KCGM website (www.superpit.com.au).	Daily	C
PM ₁₀ dust monitoring results will be provided in summary form to the DER in the Annual Environment Report (AER).	Annual summary of dust monitoring results.	A summary of the dust monitoring data will be included in the 2016 AER due for submission to the DER 31 March 2017.	Annual	C

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLANS AUDIT TABLES

Objective	KPI	Evidence	Timeframe	Status
An analysis of seasonal and annual dust trends to review the effectiveness of dust control measures and continuous improvement in air emission controls implemented through the FAQMP will be included in the AER provided to the DER.	Annual analysis of seasonal and annual dust trends.	This KPI was added during the 2015 review of the FAQMP, approved in June 2016. The first annual analysis of seasonal and annual dust trends will be included in the 2016 AER due for submission to the DER 31 March 2017.	Annual	C
PM ₁₀ dust monitoring data is provided to the OEPA, DER and/or DoH upon request.	Provide data upon request.	No data was requested during the audit period	As required	C
Reporting of 24-hour average PM ₁₀ concentrations above the NEPM PM ₁₀ Standard to relevant authorities (OEPA, DER and DoH) within seven days, if KCGM is identified to be a significant contributor. Ensure the following information is included in the notification: • Appropriate wind roses and time series analysis indicating dust concentration, wind direction and wind speed; • Source contribution analysis; and • Identified mitigation measures, where appropriate.	Assess events above NEPM PM ₁₀ Standard	All events above the NEPM PM ₁₀ Standard were assessed during the audit period and reported in accordance with the FAQMP. Refer to Table 6 of this report.	As required	C

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLANS AUDIT TABLES

Noise and Vibration Monitoring and Management Plan: There was one non-compliance relating to the NVMMMP during the audit period (Section 4.1 of this report). Compliance was achieved with all other objectives of the NVMMMP during the audit period as demonstrated in the following NVMMMP Audit Table.

AUDIT TABLE - NOISE AND VIBRATION MONITORING AND MANAGEMENT PROGRAMME				
ENVIRONMENTAL NOISE MONITORING				
Objective	KPI	Evidence	Timeframe	Status
Continuously record levels of noise (as far as practicable) received at BPS and MEP.	Continuous noise monitoring.	Results of the continuous noise monitoring programme are provided in the Noise and Blast Monitoring Quarterly Reports submitted to the OEPA. Refer to Section 5.2 of this report.	Ongoing	C
Conduct quarterly compliance noise monitoring at five reference locations (BSW, BPS, KTS, OSB and YSB) and assess compliance against the approved noise levels for KCGM's Fimiston Operations as stipulated in Condition 4 of the <i>Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2016</i> .	Quarterly compliance noise monitoring.	All measured levels at all locations complied with the approved noise levels for the night time period. Results of the compliance noise monitoring are provided in the Noise and Blast Monitoring Quarterly Reports submitted to the OEPA. Refer to Section 5.2 of this report.	Quarterly	C
Maintain a wind sensor at MEX to determine the WIF to calculate the approved noise levels for the Fimiston Gold Mine.	Weather monitoring	Wind direction and speed data were recorded at MEX during the audit period and used to determine the WIF for the weather conditions prevailing at the time the quarterly compliance noise monitoring was undertaken.	Quarterly	C
The Appeals Committee recommended that as part of the NVMMMP, KCGM install and maintain a real-time noise monitoring site that is accessible by the public via the internet.	Real-time noise monitoring data available on KCGM website.	The real-time noise monitoring site was installed and commissioned at the KCGM MEP monitoring site during the 2011 reporting period. Real-time noise monitoring data are made publicly available on the KCGM website (www.superpit.com.au).	Ongoing	C
The continuous noise monitoring equipment is NATA calibrated every two years.	Noise monitoring equipment calibration	All noise monitoring equipment is within calibration. No calibrations were undertaken during the audit period. NATA calibration is next due during 2017.	Biennially	C

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLANS AUDIT TABLES

BLAST VIBRATION AND AIRBLAST MONITORING				
Objective	KPI	Evidence	Timeframe	Status
Record blast vibration and airblast levels at six reference locations (Alpha, Bravo, Charlie, Delta, Echo and Foxtrot); triggered by ground vibration exceeding the set trigger level of 0.5 mm/s.	Blast monitoring	Blast vibration and airblast monitoring records for each blast undertaken are provided in the Noise and Blast Monitoring Quarterly Reports. Refer to Section 5.3 in this report.	Ongoing	C
The blast monitoring equipment is NATA calibrated annually.	Blast monitoring equipment annual calibration.	The blast monitoring equipment is returned to Texcel (manufacturer and supplier) on an annual basis for calibration. Calibrations Certificates for equipment calibrated during the audit period were provided in the Noise and Blast Monitoring Quarterly Reports. Refer to Section 5.3 in this report.	Annual	C
REPORTING PROVISIONS				
Prepare a Quarterly Noise and Blast Monitoring Report for submission to the OEPA.	Quarterly Noise and Blast Monitoring Report.	Quarterly Noise and Blast Monitoring Reports were submitted to the OEPA during the reporting period. Refer to Section 5.3 in this report.	Quarterly	C
Submit a written annual noise report to the DER.	Annual Noise Report	In accordance with the <i>Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009</i> , an Annual Noise Monitoring and Management Report was submitted to the DER on 2 August 2016.	Annually	C
Provide the quarterly compliance noise monitoring results on the KCGM website.	Publishing of noise monitoring results	Quarterly compliance noise monitoring results are made available on the KCGM website (www.superpit.com.au).	Quarterly	C
In the event that the threshold criteria for noise, airblast or vibration is exceeded, the CEO will be notified within seven (7) days of identification of the exceedance.	Reporting exceedances	On the 4 June 2016 KCGM notified the OEPA that more than one in ten consecutive blasts recorded a vibration level greater than 5 mm/s. Refer to Section 4.1 of this report.	Ongoing	C

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLANS AUDIT TABLES

Aboriginal Cultural Heritage Management Plan: Compliance was achieved with each objective of the ACHMP during the audit period as demonstrated in the following ACHMP Audit Table.

AUDIT TABLE - ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN				
Objective	KPI	Evidence	Timeframe	Status
Aboriginal sites that lie within the vicinity of KCGM's operations are properly respected and protected.	Protection of Aboriginal heritage sites.	As described in the Aboriginal Cultural Heritage Management Plan (ACHMP) Section 4.3.1 and 5.	Ongoing	C
Significant heritage sites are preserved.	Preservation of Aboriginal heritage sites.	No new activities occurred within the vicinity of Aboriginal heritage sites.	Ongoing	C
All such sites are identified and locations and access conditions communicated to employees and contractors as appropriate.	Site identification and access to conditions communicated as appropriate.	As described in the ACHMP Section 5.	Ongoing	C
The Aboriginal Cultural Heritage Plan will be reviewed as required including when there is a significant change proposed to the Fimiston Operations or if there is a change in legislation relating to the identification and protection of Aboriginal sites.	Review cycle.	The ACHMP was developed and implemented 29 December 2009. On 9 February 2010 the DIA confirmed that there was no further feedback that the DIA could provide regarding the ACHMP. The Aboriginal Heritage Amendment Bill 2014, a Bill to amend the Aboriginal Heritage Act 1972 in order to improve its efficiency and effectiveness whilst ensuring the continued and enhanced protection of Aboriginal heritage, was introduced in November 2014. This Bill was restored to the Legislative Assembly Notice Paper in February 2016. KCGM will continue to track the progress of the Bill and when passed review the changes, and update the ACHMP if applicable.	As required	C

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLANS AUDIT TABLES

Rehabilitation and Closure Management Plan: Compliance was achieved with each objective of the Mine Closure Plan (MCP) during the audit period as demonstrated in the following MCP Audit Tables for Closure Tasks and Rehabilitation Activities respectively.

AUDIT TABLE: REHABILITATION AND CLOSURE MANAGEMENT PLAN						
Scheduled <u>Closure Tasks</u> (Table 20 of MCP 2015)						
Operational Area	Domain	Feature	Task	Timing	Outcomes	Status
Fimiston	Mining Infrastructure	Fimiston Open Pit and Sam Pearce Decline	Review Pit lake model and potential groundwater discharge to pit.	2015	Completed. Documented in approved MCP 2015	CLD
			Pit wall stability monitoring.	Ongoing	Ongoing and continuous operational requirement	C
	Waste Rock Dumps	Trafalgar Oroya Northern North Eastern Environmental Noise Bund	Refine Visual Amenity concept for WRDs.	2015	Compliant. Documented in approved MCP 2015; Minor refinements are likely for MCP 2018	C
			Waste Dump Closure Planning Strategy, including implementation of a new rehabilitation design.	2015	Compliant. Documented in approved MCP 2015	C
			Review of Materials Classification System (erodibility focus).	2015	Compliant. Documented in approved MCP 2015	C
			Update Materials Balance Inventory / Rehabilitation Material Reconciliation.	2015	Compliant. Documented in approved MCP 2015; Further refinements are expected as planning becomes more detailed	C
			Review of Rehabilitation Monitoring Programme.	2015	Compliant. Documented in approved MCP 2015	C
			Refine completion criteria.	2015	Compliant. Documented in approved MCP 2015; Minor refinements are possible	C
			Acquisition of Additional Topsoil.	2015	Completed. Documented in approved MCP 2015	CLD
			Kinetic Study of Waste Materials.	2015	Completed. Documented in approved MCP 2015.	CLD
	Tailings Storage Facilities	Fimiston I Fimiston II Kaltails	Review of Materials Classification System (erodibility focus).	2015	Completed. Documented in approved MCP 2015.	CLD
			Update Materials Balance Inventory / Rehabilitation Material Reconciliation.	2015	Compliant. Ongoing project.	C
			Review of Rehabilitation Monitoring Programme.	2015	Compliant. Documented in approved MCP 2015.	C
			Refine completion criteria.	2015	Compliant. Documented in approved MCP 2015 ; Minor refinements are possible	C

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLANS AUDIT TABLES

AUDIT TABLE: REHABILITATION AND CLOSURE MANAGEMENT PLAN Scheduled <u>Closure Tasks</u> (Table 20 of MCP 2015)						
Operational Area	Domain	Feature	Task	Timing	Outcomes	Status
			Material characterisation studies.	2015	Compliant. Documented in approved MCP 2015. Ongoing project, if further information needs identified.	C
Mt Charlotte	Mining Infrastructure	Glory Hole Pit	Pit wall stability monitoring.	Ongoing	Ongoing and continuous operational requirement.	C
Mt Percy	Mining Infrastructure	Sir John Open Pit, Mystery and Union Club Open Pits	Pit wall stability monitoring.	Ongoing	Ongoing and continuous operational requirement.	C

AUDIT TABLE: REHABILITATION AND CLOSURE MANAGEMENT PLAN Scheduled <u>Rehabilitation Activities</u> (Table 21 of MCP 2015)						
Operational Area	Domain	Feature	Approach	Timing	Outcomes	Status
Fimiston	Mining Infrastructure	Fimiston Open Pit and Sam Pearce Decline	Ongoing tracking of Black Flag and other waste material during operations.	2015	Ongoing and continuous operational requirement.	C
	WRDs	Trafalgar Oroya Northern North Eastern Environmental Noise Bund	Implement the Visual Amenity Concept.	2015	Commenced as a component of planning of the progressive rehabilitation.	C
			Conduct progressive rehabilitation on available areas.	2015	Progressive rehabilitation work was completed, and reported in the AER	C